

FileCloud Online Version 23.232 Governance

Printed on 02/07/2024

Copyright Notice

©2024 CodeLathe Technologies, Inc. dba FileCloud

All rights reserved.

No reproduction without written permission.

While all reasonable care has been taken in the preparation of this document, no liability is accepted by the authors, FileCloud, for any errors, omissions or misstatements it may contain, or for any loss or damage, howsoever occasioned, to any person relying on any statement or omission in this document.

FileCloud Phone: U.S: +1 (888) 571-6480 Fax: +1 (866) 824-9584 Email: support@filecloud.com

Table of Contents

Copyright Notice	2
Governance in FileCloud	6
Metadata, Smart Classification, and Smart DLP	6
Compliance	6
Retention Policies	6
Smart Classification	6
Smart Classification Classic	6
Smart DLP	6
Example: Setting Up a Retention Policy to meet HIPAA Requirements	6
Monitor Retention and DLP: The Governance Dashboard	6
Secure Web Viewer for DRM	6
Metadata, Smart Classification, and Smart DLP	7
Metadata	7
Smart Classification	8
Smart DLP	8
Compliance	9
Compliance	
·	9
Compliance Center	9
Compliance Center Guide to HIPAA Rules in the Compliance Center	
Compliance Center Guide to HIPAA Rules in the Compliance Center Guide to ITAR Rules in the Compliance Center	
Compliance Center Guide to HIPAA Rules in the Compliance Center Guide to ITAR Rules in the Compliance Center Guide to GDPR Rules in the Compliance Center	
Compliance Center Guide to HIPAA Rules in the Compliance Center Guide to ITAR Rules in the Compliance Center Guide to GDPR Rules in the Compliance Center Guide to NIST Rules in the Compliance Center	
Compliance Center Guide to HIPAA Rules in the Compliance Center Guide to ITAR Rules in the Compliance Center Guide to GDPR Rules in the Compliance Center Guide to NIST Rules in the Compliance Center Guide to PDPL Rules in the Compliance Center	
Compliance Center Guide to HIPAA Rules in the Compliance Center Guide to ITAR Rules in the Compliance Center Guide to GDPR Rules in the Compliance Center Guide to NIST Rules in the Compliance Center Guide to PDPL Rules in the Compliance Center FileCloud Web Accessibility (VPAT) Practices	
Compliance Center Guide to HIPAA Rules in the Compliance Center Guide to ITAR Rules in the Compliance Center Guide to GDPR Rules in the Compliance Center Guide to NIST Rules in the Compliance Center Guide to PDPL Rules in the Compliance Center FileCloud Web Accessibility (VPAT) Practices Retention Policies	
Compliance Center Guide to HIPAA Rules in the Compliance Center Guide to ITAR Rules in the Compliance Center Guide to GDPR Rules in the Compliance Center Guide to NIST Rules in the Compliance Center Guide to PDPL Rules in the Compliance Center FileCloud Web Accessibility (VPAT) Practices Retention Policies Are You Seeing This Screen?	
Compliance Center Guide to HIPAA Rules in the Compliance Center Guide to ITAR Rules in the Compliance Center Guide to GDPR Rules in the Compliance Center Guide to NIST Rules in the Compliance Center Guide to PDPL Rules in the Compliance Center FileCloud Web Accessibility (VPAT) Practices Retention Policies Are You Seeing This Screen? Create a Type of Retention Policy	

Smart Classification in FileCloud	
Running content classification rules	
Setting Up Smart Classification	
Adding Smart Classification Regex Patterns	
Creating Smart Classification Regex Pattern Groups	
Creating a Smart Classification Rule	
Running Smart Classification Rules	
Testing a Smart Classification Rule	
Guide to Classifiers	
Editing a Smart Classification Rule	
Deleting a Smart Classification Rule	
Smart Classification Examples	
Smart Classification Classic	
Overview	
Before You Start	
Get Started with CCE	
CCE Crawler	
More Information:	
Creating and Managing Content Classification Engine Rules	
CCE Rule Examples	
Creating a Pattern	
Creating a Pattern Group	
More CCE Rule Examples	
Using ICAP DLP with CCE	
Smart DLP	
Overview	
More Information:	
Creating Data Leak Prevention Rules	
Example Rules	
Rule Expressions	
How to secure documents with Smart DLP & CCE	
Troubleshooting DLP	

Example: Setting Up a Retention Policy to meet HIPAA Requirements	239
Step 1: Enable the HIPAA retention policies rules in the Compliance Center	239
Step 2: Create a metadata attribute to tag files with ePHI data	243
Step 3: Create a a pattern group that identifies file content as ePHI	247
Step 4: Set up a Smart Classification rule to locate and tag ePHI files	253
Step 5: Set up a 6 year retention policy	258
Step 6: Choose the retention policy in the Compliance Center	263
Monitor Retention and DLP: The Governance Dashboard	
Secure Web Viewer for DRM	271
The Secure Web Viewer option	272

Governance in FileCloud

() DLP is only available in some versions of FileCloud Online.

Data governance encompasses the aspects of data management that ensure that data is valid, secure, accessible or inaccessible in the right circumstances, and compliant with regulations. FileCloud's data governance features include:

- **Smart classification** Tags files with specific types of information, such as personally identifiable information (PII).
- **Smart DLP** Prevents data leaks by controlling which files are uploaded, downloaded, and shared according to conditions you create. For example, download could be prevented in certain domains or file paths.
- **Retention policies** Require certain files to be maintained in your system for specified time periods.
- Compliance center Helps you make your system compliant and indicates where it is not compliant.
- **DRM** Secures files by requiring that they be viewed through a secure viewer that can block downloading and printing or hide portions of content. See DRM for exporting secure documents.

To set up governance in your system, see the topics in this section:

Metadata, Smart Classification, and Smart DLP

Compliance

Retention Policies

Smart Classification

Smart Classification Classic

Smart DLP

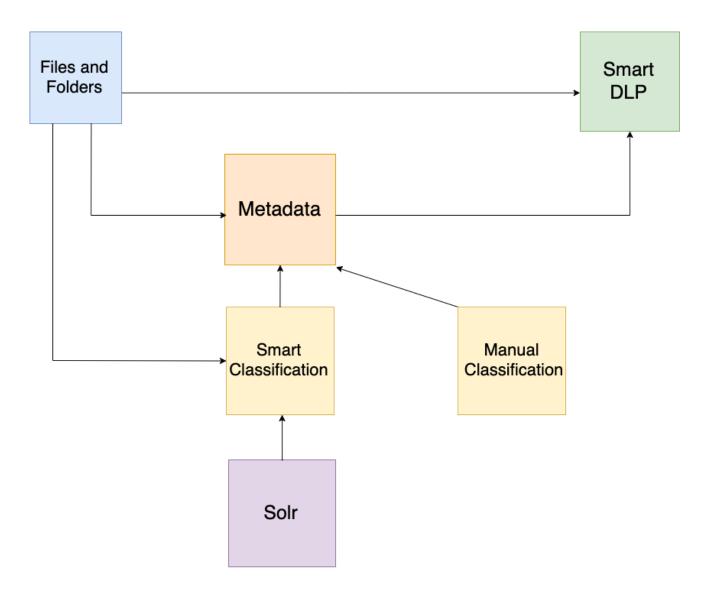
Example: Setting Up a Retention Policy to meet HIPAA Requirements

Monitor Retention and DLP: The Governance Dashboard

Secure Web Viewer for DRM

Metadata, Smart Classification, and Smart DLP

Metadata, Smart Classification, and Smart DLP are all part of FileCloud's advanced security technology. However, there are distinct differences between these features that affect how they are used and how they interact with one another.



Metadata

Metadata – information about files and folders – identifies what the file or folder contains and how much protection it should receive.

Examples of metadata include:

- Phone numbers
- Credit card numbers
- PII security priority

- EXIF image data
- Upload date
- Boolean values

Metadata can be created, edited, and applied with **no dependencies**.

<table-cell-rows> Learn more about metadata.

Smart Classification

The **Smart Content Classification Engine (CCE)** further refines how files are organized and tracked by FileCloud. With one or more sets of initial metadata, classification can **automatically** add or alter metadata. Examples of smart content classification rules include:

- For files containing nine-digit credit card numbers, mark PII security level as "HIGH"
- For images larger than 15MB, add the text attribute "PRINT PROOFS"
- For PDFs with the metadata text attribute "Holiday vacation requests" uploaded after October 1st, add the text attribute "HOLIDAY REQUESTS" and the number attribute "2019".

Smart Classification **relies on metadata** in order to operate. A minimum of **one set of metadata** is required to run CCE; using more than one smart classification rule allows for a greater degree of classification.

Learn more about Smart Classification.

(i) CCE scans **every file and folder** on the FileCloud installation. However, the parameters of the CCE rule determine which files undergo classification.

Smart DLP

Smart Data Leak Prevention (DLP) applies user-created rules in order to strictly control who can access the FileCloud installation, in addition to restricting which files and folders they can download or share. DLP rules can control access based on many different parameters, including user name, IP address, file path, and applied metadata. Smart DLP can also return information about who is attempting to access the FileCloud installation. Examples of DLP include:

- Deny users of the group "accounting" from downloading or sharing files.
- Allow users with emails from the domain "example.com" to login to the FileCloud installation and share files but **deny** users the ability to download files.
- Deny downloads of files with metadata attribute "GDPR" set to "YES".
- Return the usernames, IP addresses, user agents, and file paths for everyone accessing the FileCloud installation.

DLP can operate with or without metadata or prior classification.

Learn more about Smart DLP.

Compliance

- Compliance Center
- Guide to HIPAA Rules in the Compliance Center
- Guide to ITAR Rules in the Compliance Center
- Guide to GDPR Rules in the Compliance Center
- Guide to NIST Rules in the Compliance Center
- Guide to PDPL Rules in the Compliance Center
- FileCloud Web Accessibility (VPAT) Practices

Compliance Center

() NIST and PDPL compliance checks are available beginning in version 23.232 of FileCloud.

The **Compliance Center** enables you to check which regulatory requirements your system meets and which it fails to meet. It also provides information explaining why you haven't met certain requirements, and enables you to configure compliance settings.

The Compliance Center

To open the Compliance Center, in the navigation panel, click **Compliance Center**.

The Overview tab

The **Compliance Center** opens to the **Overview** tab. This tab lists your enabled configurations and recent compliance events.

In the image below, the box under **Enabled Configurations** displays an icon for each compliance and a slider that currently indicates that it is enabled. The box for each compliance also indicates the number of total compliance rules

that are being evaluated and how many of them failed the last evaluation.

FILECLOUD				🛔 admin 🔻
Admins . MANAGE ▲ Team Folders So Network Share	FileCloud Compliance Center		Click to export a CSV file of even	
User Share Folder Permissions	📑 Overview 😂 ITAR 🤎 HIPAA 🔅 GDPR 📩 NIST 👚 PDPL		Filter events listed.	٥
A Notifications DEVICES ▲	Overview		Events include failed rules,	Export Events
Device Management OVERNANCE Dashboard	Enabled Configurations 5 of 5 configurations enabled	Recent Events	disabled/enabled rules, and configuration changes.	C Refresh Events
Retention Smart DLP Smart passification	■ 13/14 rules enabled, 9 failed, 0 bypassed	Dec 19 2023	Compliance policy 'status' updated to enabled (HIPAA) by: admin (admin)	1:16 AM
Compliance Center MISC. Audit	▲ 12/13 rules enabled, 5 failed, 0 bypassed rules failed the most recent check.	0	Compliance policy 'status' updated to disabled (HIPAA) by: admin (admin)	1:15 AM
Alert User Locks Workflows	A 9/31 rules enabled, 5 failed, 1 bypassed	•	Share may not be public [/sarath/SARATH_J/SampleCSVFile_2kb.csv] NIST 800-171 Rule by: ADMN	12:00 AM
i Reports Q. Federated Search ☐ Metadata	▲ 17/18 rules enabled, 3 failed, 0 bypassed	•	Share may not be public [/sarath/A/file_example_XLS_10.xis] NIST 800-771 Rule by: ADMIN	12:00 AM
SETTINGS A Settings CUSTOMIZATION A	A 15/22 rules enabled, 6 failed, 0 bypassed	•	Share may not be public [/sarath/B] NIST 800-171 Rule by: ADMN	12:00 AM
Customization		A	Share may not be public [/sarath/A]	12:00 AM

Filtering Events

You can click **filters** above the **Recent Events** list to only display violation or information events, or to only display events for one compliance. In the following image, the filters are set so that only ITAR events that are informational

appear.		
		Export Events
Recent Ev	ents Tilters	C Refresh Events
	Policy filter Event type filter	
9 2021	ITAR INFO Filter	12:18 PM
	Compliance rule status updated to 'enabled' ITAR Rule by: admin (admin)	12:18 PM
	Compliance rule Metadata updated to 'PDF Tag metadata' ITAR Rule by: admin (admin)	12:18 PM
	Compliance rule status updated to 'enabled' ITAR Rule by: admin (admin)	12:18 PM
	Compliance rule Metadata updated to " ITAR Rule	12:18 PM

Compliance Tabs

There are currently compliance tabs for ITAR, HIPAA, GDPR, NIST, and PDPL. Each tab lists the rules for the particular regulation and whether the system is compliant with each rule or has issues.

You can enable or disable each rule, change the settings that are evaluated, and manually mark a rule as compliant in

each tab.

FileCloud Comp	liance Center				
📑 Overview 👙 ITAR	🤎 HIPAA 🔅 GDPR 🖞 NIST 🏦 PDPL				6
ITAR Compliance	Enable				Export Settings
▲ 13/14 rules o	and the second second first second	Click to enabled/c		If edit icon appoint to configure to for the rule.	
Rules 🕶		rule.	Effective Date 🕶	Status 🖓	Actions
ITAR Part 120 - Purpose a	and Definitions Click Edit to designate a metadata set to identify defense articles.				
120.6	Choose a metadata set for classifying defense articles.	O	25-08-2021 Click Issue	OK 14-09-2023 12:00 AM	₫ 0
120.10	Choose a metadata set for classifying technical data.	Ο	see details	S. A Issues 14-09-2023 12:00 AM	20
120.13	Choose a DLP rule that allows logins from within the US only.	O	13-09-2021	A Issues 14-09-2023 12:00 AM	20
120.15	Enable this rule as confirmation that all users are US residents.	O	31-08-2021	OK 14-09-2023 12:00 AM	0
120.17	Choose a DLP rule that only allows private sharing.	O	24-08-2021	▲ Issues 14-09-2023 12:00 ∧M	20
120.25	Promote at least one user to an Admin role with access to the Compliance Dashboar	rd.	18-08-2021	OK 14-09-2023 12:00 AM	0
120.50	Use DRM when downloading/previewing files.	•	18-08-2021	OK 14-09-2023 12:00 AM	0

Hover over the description under **FileCloud Configuration** for more details about how to configure the rule's setting. For even more information, click the row's information icon.

If **Status** indicates that there are issues, click the warning icon to see details of the issue.

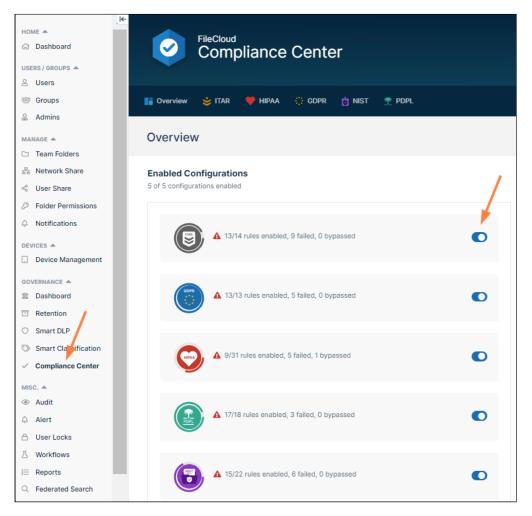
How to set up and check compliance

For each type of compliance that you want to manage, follow these steps to enable and configure compliance checking and review your compliance status.

1) Enable compliance checking

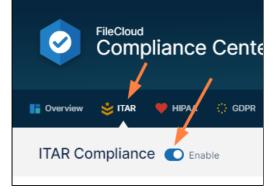
Enable compliance checking

- 1. In the Admin portal's navigation panel, click **Compliance Center**. The **Compliance Center** opens to the **Overview** tab.
- 2. Either: Under **Enabled Configurations**, click the slider for a compliance.



Or:

Click the tab for a compliance, and click the slider at the top of the screen.



Enable or disable compliance checking for a rule:

After checking has been enabled for a specific compliance, you can enable or disable checking for each of its rules by toggling the slider to the rule's right. Notice that compliance status is checked as soon as you enable the rule.



Sorry, the video is not supported in this export. But you can reach it using the following URL:

Movie URL not available.

Some rules prompt you to enter settings when you enable them. See the next procedure.

Enable a rule that prompts you for settings

When you enable certain rules, a dialog box opens and prompts you to enter a setting before the rule is enabled and **Status** indicates if it is OK or there are issues. You are not required to enter the setting, but if you do not **Status** indicates there are issues.



Sorry, the video is not supported in this export. But you can reach it using the following URL:

Movie URL not available.

2) Configure Compliance Settings

Compliance settings you can configure while in the Compliance Center

You can configure the compliance settings directly from the Compliance Center for any rules with an Edit icon under **Actions**. When you enable the rule, you are prompted to enter settings, but you are not required to enter them. See the video above, under **Enable a rule that prompts you for settings**.

After you configure the setting, you can change it by clicking the edit icon in the row for the rule:

4/14 rule	is enabled, 1 failed, 0 bypassed				C Refres
Rules -	FileCloud Configuration -	Enable	Effective Date -	Status 🏹	Action
ITAR Part 120 - Purpo	se and Definitions				
120.6	Choose a metadata set for classifying defense articles.		Nov 09, 2021	OK Nov 11, 2021 12:00 AM	26
120.10	Choose a metadata set for classifying technical data.		Nov 18, 2021	OK Nov 18, 2021 1:05 PM	26
120.13	Choose a DLP rule that allows logins from within the US only.		Nov 18, 2021	OK Nov 18, 2021 1:30 PM	▲ ♂ 6
120.15	Enable this rule as confirmation that all users are US residents.				0

Compliance settings you must configure outside the Compliance Center

For many rules, you must navigate to other pages in FileCloud and configure settings. The compliance tool will verify that the settings are configured correctly when you enable the rule.

For instructions on how to configure the settings, click the Information icon in the row for the rule.

Sorry, the video is not supported in this export. But you can reach it using the following URL:

Movie URL not available.

Rules you can mark as compliant

Some rules only need your verification that you are complying with them. Simply enable the rule to confirm that you have complied.

Sorry, the video is not supported in this export. But you can reach it using the following URL:

Movie URL not available.

Bypassing compliance checking

You have the option of bypassing FileCloud's compliance checking for most rules, so that whether or not the rule would be considered compliant by FileCloud's verification process, **Status** will display **BYPASSED** with a green check. Note that you cannot bypass rules that only require you to enable them to to make them compliant, as there is no validation to bypass.

To bypass a rule, enable it, then click the Information icon, and check Bypass check for this rule and mark as passed.

Sorry, the video is not supported in this export. But you can reach it using the following URL:

Movie URL not available.

3) Run compliance checks

FileCloud automatically checks a rule for compliance when it is enabled and rechecks compliance for all rules in once per day. If you make changes in your system or want to make sure you have the most recent check, you can manually run a compliance check.

Manually running a compliance check

To manually run a compliance check, in the tab for the compliance, click Refresh All.

Sorry, the video is not supported in this export. But you can reach it using the following URL:

Movie URL not available.

4) Review compliance status

Review your compliance status regularly to make sure all of your rules remain compliant.

Viewing the status summary

You can view a summary of the number of rules you have enabled for checking, and how many of them failed or were bypassed on the **Overview** tab or at the top of the compliance tab.

Cverview 📚 ITAR 🤎 HIPAA 🔅 GDPR 📩 NIST	n PDPL	PDPL C	😆 ITAR 🔎 HIPAA ompliance 🛭 🗨	🔆 GDPR 👌 NIST	T PDPL
Overview Enabled Configurations 4 of 5 configurations enabled			17/18 rules enabled, 7 fai		
(1) A 1/13 rules enabled, 1 failed, 0 bypassed			: General Provisions		onfiguration +
Disabled		Section 5	: Lawful Processing : Sensitive Personal Data 1: Principles of Processing Pe	Choose a m	t admins understand how personal d
♥ 0/14 rules enabled, 0 failed, 0 bypassed	€				
2/22 rules enabled, 1 failed, 0 bypassed					
▲ 17/18 rules enabled, 7 failed, 0 bypassed	0				

Checking a rule's compliance status

On a compliance tab, you can review whether each enabled rule's compliance check was OK, had issues, or was bypassed by viewing its **Status**.

FileCloud Compl	iance Center					
📑 Overview 👙 ITAR 🔍	🎔 HIPAA 🔅 GDPR 👌 NIST 👚 PDPL					0
HIPAA Complianc	e 💽 Enable			Exp	ort Settings	
€ 5/31 rules en	abled, 3 failed, 1 bypassed			c	Refresh All	
Rules 🕶	FileCloud Configuration -	Enable	Effective Date 🕶	Status	Actions	
Subpart C - 164.304 Defin	itions		×			
164.304 Definitions	Choose a metadata set to classify electronic protected health information.		Dec 18, 2023	OK Dec 18, 2023 2:23 PM	20	
164.306 Security standard	ds: General rules		•			
164.306 Security standards: General rules	Give at least one admin access to the Compliance Center."		Dec 18, 2023	Lssues Dec 18, 2023 2:23 PM	0	
164.308 Administrative sa	feguards					
164.308 Administrative safeguards.(a)(1)(ii)(A & B)	Enable this rule once all the other HIPAA rules are compliant		Dec 18, 2023	BYPASSED	0	
164.308 Administrative	Enable Governance Report Email to send the HIPAA admin an email		Dec 19 2022	A Issues		

Checking why a rule failed

If the **Status** column for a rule displays **Issues** and an error icon, click on the status to view information about the problem.

10 Choose a metadata set for classifying technical data. Sep 15, 2021 Sep 0K Sep 15, 2021 Sep	es 🔻	FileCloud Configuration -	Enable	Effective Date -	Status 🏹	Actions
.6 Choose a metadata set for classifying defense articles. Sep 15, 2021 sep 14, 204 sep 11, 2021 sep 15, 2021 sep 14, 204 sep 14, 204 sep 15, 2021 <	R Part 120 - Purpo	se and Definitions				
10 Choose a metadata set for classifying technical data. Sep 15, 2021).6	Choose a metadata set for classifying defense articles.		Sep 15, 2021	Sep 15, 2021	23
13 Choose a DLP rule that allows logins from within the US only. Sep 15, 2021 Sep 15, 2021 <td>0.10</td> <td>Choose a metadata set for classifying technical data.</td> <td></td> <td>Sep 15, 2021</td> <td>Sep 15, 2021</td> <td>28</td>	0.10	Choose a metadata set for classifying technical data.		Sep 15, 2021	Sep 15, 2021	28
1.15 Enable this rule as confirmation that all users are US residents. Sep 15, 2021 Sep 15, 20	0.13	Choose a DLP rule that allows logins from within the US only.		Sep 15, 2021	Sep 15, 2021	23
17 Choose a DLP rule that only allows private sharing. Sep 15, 2021 sep 15, 2021 <t< td=""><td>0.15</td><td>Enable this rule as confirmation that all users are US residents.</td><td></td><td>Sep 15, 2021</td><td>Sep 15, 2021</td><td>0</td></t<>	0.15	Enable this rule as confirmation that all users are US residents.		Sep 15, 2021	Sep 15, 2021	0
L25 Compliance Dashboard. Sep 15, 2021 BYPASSED .50 Use DRM when downloading/previewing files. Sep 15, 2021 Sep 15, 2021 Sep 15, 2021 .54(2)(3) Remove any existing public shares or change them to private. Sep 15, 2021 Sep 15, 2021 Sep 15, 2021 .54(5) Use settings for SSL and enable encryption. Sep 15, 2021 Sep 15, 2021 Sep 15, 2021	0.17	Choose a DLP rule that only allows private sharing.		Sep 15, 2021	Sep 15, 2021	23
.50 Use DRM when downloading/previewing files. Sep 15, 2021 sep 15, 2021 .54(2)(3) Remove any existing public shares or change them to private. Sep 15, 2021 Sep 15, 2021 .54(5) Use settings for SSL and enable encryption. Sep 15, 2021 Sep 15, 2021).25			Sep 15, 2021		0
.54(2)(3) Remove any existing public shares or change them to private. Sep 15, 2021 Sep 15, 2021 Sep 15, 2021 .54(5) Use settings for SSL and enable encryption. Sep 15, 2021 Sep 15, 2021 Sep 15, 2021).50	Use DRM when downloading/previewing files.		Sep 15, 2021	Sep 15, 2021	0
.54(5) Use settings for SSL and enable encryption.).54(2)(3)	Remove any existing public shares or change them to private.		Sep 15, 2021	Sep 15, 2021	0
).54(5)	Use settings for SSL and enable encryption.		Sep 15, 2021	Sep 15, 2021	0
.55 Confirm decryption keys are confidential. Confirm decryption keys are confidential. Sep 15, 2021 Sep 15, 2021).55	Confirm decryption keys are confidential.		Sep 15, 2021	Sep 15, 2021	0
R Part 123 - Licenses for the Export of Defense Articles	R Part 123 - Licens	ses for the Export of Defense Articles				
1 Choose policy settings that permit private sharing only or do not permit sharing. Sep 15, 2021 Sep 15, 2021 Sep 15, 2021	3.1			Sep 15, 2021	Sep 15, 2021	0

Getting more details on how to comply

Getting more details on how to comply

For basic information on how to comply with a rule, hover over the description under **FileCloud Configuration**. For more specific instructions, click the Information icon in the row for the rule. To see the text of the rule in the regulation document, click the rule number.

▲ 14/1	14 rules enabled, 4 failed, 1 bypassed			C	Refresh A
Rules -	FileCloud Configuration -	Enable	Effective Date 🔻	Status	Actions
ITAR Part 120 - P	urpose and Definitions				
120.6	\red{linear} Choose a metadata set for classifying defense articles.		Sep 15, 2021	OK Sep 15, 2021 9:59 AM	23
120.10	Choose a metadata set for classifying technical data.		Sep 15, 2021	OK Sep 15, 2021 10:27 AM	23
120.13	Choose a DLP rule that allows logins from within the US only.		Sep 15, 2021	OK Sep 15, 2021 10:29 AM	2
120.15	Enable this rule as confirmation that all users are US residents.		Sep 15, 2021	OK Sep 15, 2021 11:48 AM	0
120.17	Choose a DLP rule that only allows private sharing.		Sep 15, 2021	OK Sep 15, 2021 11:47 AM	23
120.25	Promote at least one user to an Admin role with access to the Compliance Dashboard.		Sep 15, 2021	Ø BYPASSED	0

Specific compliance rules and validation

For more details about the rules covered for each compliance and how they are handled in FileCloud, see:

Guide to HIPAA Rules in the Compliance Center

Guide to ITAR Rules in the Compliance Center

Guide to GDPR Rules in the Compliance Center

Guide to NIST Rules in the Compliance Center

Guide to PDPL Rules in the Compliance Center

Guide to HIPAA Rules in the Compliance Center

This table defines the HIPAA rules covered in FileCloud's Compliance Center, explains what steps you must take to be in compliance, and describes how FileCloud validates each rule.

Rule (click to see text)	Description	Steps for complying	Validation
164.304 Definitions	Identify which files have electronically protected health information (ePHI).	In the Compliance Center, click the Edit button for the rule, and select a metadata set with a tag that identifies ePHI files. (To carry out compliance, you must use smart classification to apply the metadata tag to ePHI files.)	If the metadata set exists and is enabled, status is OK ; if not, status is Issues .
164.306 Security standards: General rules	Allow at least one user access to the Compliance system.	 To enable at least one user to manage the Compliance Center: 1. Go to Admins and create a role with Compliance access to the Compliance center. 2. In Admins, add at least one user to the role with access to the Compliance Center. 	If one or more Admin users have access to the Compliance Center, status is OK ; if not, status is Issues .
164.308 Administrative safeguards. (a)(1)(ii)(A & B)	Confirm that all the FileCloud Compliance HIPAA rules are successful.	Enable this rule once all the other HIPAA rules are compliant.	If all rules are implemented and status of all rules is OK then the status of this rule OK ; if not, status is Issues .
164.308 Administrative safeguards. (a)(1)(ii)(D)	Implement a procedure to regularly review system activity records.	In Settings > Admin , check Send Admin Governance Report Emails .	If the Send Admin Governance Report Emails setting is enabled, status is OK ; if not, status is Issues .
164.308 Administrative safeguards.(a)(3)(ii)(A)	Allow users to login to access FileCloud content based on location or IP address.	Click the Edit button and select a DLP rule that blocks users from logging in from outside locations.	If the DLP rule exists and is enabled and GeoIP is not disabled, status is OK ; otherwise, status is Issues .

Rule (click to see text)	Description	Steps for complying	Validation
164.308 Administrative safeguards.(a)(5)(ii)(B)	Configure Anti-Virus protection against malicious file uploads.	 Go to Settings > Third Party Integration > Anti- Virus. Configure an Anti- Virus. 	If an Anti-Virus is configured, status is OK ; if not, status is Issues .
164.308 Administrative safeguards.(a)(5)(ii)(C)	Monitor log-in attempts.	 Go to Settings > Admin. Set Audit Logging Level to REQUEST or FULL. 	If Audit Logging Level is REQUEST or FULL status is OK; if Audit Logging Level is OFF, status is Issues.
164.308 Administrative safeguards.(a)(5)(ii)(D)	Set up password management procedures.	 Go to Settings > Misc > Password. Configure the settings as follows: Set Password Length to 8 or more. Check Enable Strong Passwords. Check Disallow Commonly Used Passwords. Set User Password Expires In Days to a value greater than 0. Set Number of Previous Passwords that cannot be reused to a value greater than 0. Set Reset password attempt interval to a value greater than 0. 	If the password settings are configured as indicated, status is OK ; if not, status is Issues .

Rule (click to see text)	Description	Steps for complying	Validation
164.308 Administrative safeguards.(a)(6)(ii)	Confirm all (HIPAA) violations can be exported from the Compliance Center.	Enable this rule as confirmation that all FileCloud Compliance HIPAA violations can be exported.	None
164.308 Administrative safeguards.(a)(7)(i)	Implement a contingency plan in case systems containing ePHI are damaged.	 Enable this rule as confirmation that you have done the following: 1. Go to Settings > Misc > General. 2. Disable DB Backup option should be disabled (by default it is disabled). 3. Set DB Backup Interval to daily. 4. Backup of the managed storage location should be planned and maintained by your team. 	None
164.308 Administrative safeguards.(a)(7)(ii)(B)	Establish procedures to restore loss of data.	Enable this rule as confirmation that admins understand the procedures to restore data given at Backing Up and Restoring FileCloud Server.	None
164.308 Administrative safeguards.(a)(7)(ii)(C)	Establish an emergency mode operation plan.	Enable this rule as confirmation that admins understand that they can configure a firewall proxy rule to prevent access to FileCloud to protect ePHI.	None

Rule (click to see text)	Description	Steps for complying	Validation
164.312 Technical safeguards.(a)(1)	Implement policies and procedures to only allow access to ePHI to people and programs with access rights.	To prevent data from being shared with unauthorized users: 1. For each policy, go to Settings > Policies and click the General tab. Set Share Mode to either Allow Private Shares Only or Shares Not Allowed. 2. Remove any existing public shares, or change them to private.	If Share Mode is Allow All Shares or any public shares exist, status is Issues .
164.312 Technical safeguards.(a)(2)(i)	Assign a unique name and/or number to each user.	Enable this rule as a confirmation that all users have unique usernames.	None
164.312 Technical safeguards.(a)(2)(iii)	Terminate sessions after a certain amount of time automatically.	 To confirm automatic logoff of sessions: Go to Settings > Server, and set Session Timeout to a value greater than 0. 	If Session Timeout is set to 0 or empty, status is Issues .
164.312 Technical safeguards.(a)(2)(iv)	Implement encryption and decryption of ePHI.	 To set up ePHI encryption: 1. Configure storage encryption. See Setting Up Managed Storage Encryption. 2. Go to Settings > Storage > My Files and click Manage next to Encryption; then enable encryption. 3. Encrypt all existing files. 	If storage is not fully encrypted, or any existing files are not fully encrypted, status is Issues .

Rule (click to see text)	Description	Steps for complying	Validation
164.312 Technical safeguards.(b)	Set up audit controls.	To implement audit controls: Go to Settings > Admin, and configure that following: Audit Logging Level - Set to to REQUEST or FULL. Auto Archive Audit Database - Check. Auto Archive Audit Records After (in days) - Enter a value. Storage Path For Archived Audit Records - Enter a valid path.	If any of the audit settings is not set as specified, status is Issues .
164.312 Technical safeguards.(c)(1)	Protect ePHI files from destruction.	 To protect ePHI files and folders from deletion: Click the Edit button, and select a retention policy to protect ePHI files and folders from deletion based on metadata. 	If the retention policy exists and is enabled, status is OK ; if not, or if modifications to the retention policy allow file or folder deletion, status is Issues .
164.312 Technical safeguards.(d)	Verify user identity of people seeking access to ePHI.	To confirm that all users have individual FileCloud user accounts, enable this rule.	None
164.312 Technical safeguards.(e)(1)	Guard against unauthorized access of ePHI that is being transmitted.	 To guard against unauthorized access to ePHI: 1. Click the Edit button, and select a DLP rule that blocks public shares. 2. Change any existing public shares to private. 	If the DLP rule exists and is enabled and there are no existing public shares, status is OK ; if not, or if modifications to the rule allow public shares, status is Issues .

Rule (click to see text)	Description	Steps for complying	Validation
164.312 Technical safeguards.(e)(2)(i)	Ensure that transmitted ePHI is not modified.	To confirm that users are educated about sharing permissions and folder level permissions, enable this rule.	None
164.316 Policies and procedures and documentation requirements.(b)(2)(i)	Retain files for 6 years.	To retain files for 6 years: • Click the Edit button, and select a retention policy to retain files for 6 years based on metadata. (The selected retention policy must have it's expiry set to 2192 days (6 years with 2 leap years) and must not renew on expiry.)	If the retention policy exists and is enabled, status is OK ; if not, status is Issues .
164.316 Policies and procedures and documentation requirements.(b)(2)(ii)	Make documentation available and accessible.	To confirm that Admins and users have access to support documentation for all features, enable this rule.	None
164.316 Policies and procedures and documentation requirements.(b)(2)(iii)	Maintain updated documentation.	To ensure the system is at the latest version, go to Upgrade screen in Admin and ensure there are no upgrades available	If the system is not upgraded to the latest available version, then status is Issues .
164.404 Notification to individuals. (b)	Create timely notifications in case of breaches.	To confirm that admins can use Audit logs, Alerts and Violation reports to generate breach notifications, enable this rule.	None

Rule (click to see text)	Description	Steps for complying	Validation
164.502 Uses and disclosures of protected health information: General rules.(a)(1)	Allow users to use and disclose ePHI according to regulations.	To prevent data from being shared with non-associates without proper permission: 1. Go to Settings > Policies, and edit each policy. a. On the General tab, set Share Mode to either Allow Private Shares Only or Shares Not Allowed. b. Remove any existing public shares or change them to private.	If Share Mode is Allow All Shares or any public shares exist, status is Issues .
164.504 Uses and disclosures: Organizational requirements.(e)(1)	Business associates must comply with standards.	To confirm that users who have access to ePHI are educated about sharing permissions, enable this rule.	None
<u>164.504 Uses and</u> <u>disclosures:</u> <u>Organizational</u> <u>requirements.(e)(2)(ii)(J)</u>	At the termination of a contract, all info shared with business associate should be destroyed or returned.	To confirm return or destruction of ePHI at the termination of contracts: • Go to Settings > Misc > Share and configure these settings: • Default Share Expiry in Days - Set to a value greater than 0. • Remove Expired Shares - Check. • Delete Files from Expired Shares - Check.	If all the settings are as specified, status is OK ; if not, status is Issues .

Rule (click to see text)	Description	Steps for complying	Validation
164.508 Uses and disclosures for which an authorization is required.(a)	Uses of ePHI requiring authorization.	To implement authorization for use and disclosures of ePHI: • Click the Edit button, and select a DLP rule that restricts sharing.	If the DLP rule exists and is enabled, status is OK ; if not, or if modifications to the rule allow public shares, status is Issues .
<u>164.522 Rights to request</u> privacy protection for protected health information. (a)(1)	Right of individual to request restriction of disclosure of their ePHI.	To implement the right of an individual to request restriction of uses and disclosures of ePHI: 1. Go to Settings > Misc > General . 2. If Disable Locking is checked, uncheck it, and save.	If Disable Locking is unchecked, status is OK ; if not, status is Issues .
164.528 Accounting of disclosures of protected health information.	Right of an individual to receive records of disclosures of PHI.	To confirm that admins understand how to use audit logs and reports to generate an account of disclosures of protected health information, enable this rule.	None

Guide to ITAR Rules in the Compliance Center

This table defines the ITAR rules covered in FileCloud's Compliance Center, explains what steps you must take to be in compliance, and describes how FileCloud validates each rule.

Rule (click to see text)	Description	Steps for complying	Validation
120.6	Identify which documents are defense articles.	In the Compliance Center, click the Edit button for the rule, and select a metadata set with a tag that identifies defense articles. (To carry out compliance, you must use smart classification to apply the metadata tag to defense articles.)	If the metadata set exists and is enabled, status is OK ; if not, status is Issues .

Rule (click to see text)	Description	Steps for complying	Validation
120.10	Identify which files contain technical data.	In the Compliance Center, click the Edit button for the rule, and select a metadata set with a tag that identifies technical data. (To carry out compliance, you must use smart classification to apply the metadata tag to technical data.)	If the metadata set exists and is enabled, status is OK ; If not, status is Issues .
120.13	Only allow access to the system from within the US.	In the Compliance Center, click the Edit button for the rule, and select a DLP rule that blocks users from logging in from outside locations. Only DLP rules for the LOGIN action are available for selection.	If the DLP rule exists and is enabled, status is OK ; if not, or if modifications to the rule allow log in from outside the US, status is Issues .
120.15	Only allow US residents to access the system.	Enabling the rule to confirm that your system checks if all users are US residents is all that is necessary to pass the compliance check.	None
120.17	Do not permit public sharing.	 In the Compliance Center, click the Edit button for the rule, and select a DLP rule that blocks public shares. Only DLP rules for the SHARE action are available for selection. Change any existing public shares to private. 	If the DLP rule exists and is enabled and there are no existing public shares, status is OK ; if not, or if modifications to the rule allow public shares, status is Issues .

Rule (click to see text)	Description	Steps for complying	Validation
120.25	Allow at least one user access to the Compliance system.	 To enable at least one user to manage the Compliance Center: 1. Go to Admins and create a role with Compliance access to the Compliance Center. 2. In Admins, add at least one user to the role with access to the Compliance Center. 	If one or more Admin users have access to the Compliance Center, status is OK ; if not, status is Issues .
120.50	Prevent unauthorized access to data by non-US residents.	Install FileCloud with an enterprise license or a license that includes a Digital Rights Management (DRM) component.	If a proper license is installed, status is OK ; if not, status is Issues .
120.54(2)(3)	Prevent data from being shared with non-US entities.	Remove any existing public shares or change them to private.	If any public shares exist, status is Issues .
120.54(5)	Confirm that data is only transferred between US entities.	 In the Admin portal, go to Settings > Server > Server URL. Use HTTPS for the Server URL. Configure storage encryption. See Setting up Managed Storage Encryption. Go to Settings > Storage > MyFiles and enable Encryption. Encrypt all existing files. 	If HTTPS is not used, storage is not fully encrypted, or any existing files are not fully encrypted, status is Issues .
120.55	Keep decryption methods secure.	Enabling the rule to confirm that decryption keys are kept confidential in your system is all that is necessary to pass the compliance check.	None.

Rule (click to see text)	Description	Steps for complying	Validation
123.1	Ensure that proper permission is given if data is shared with non-US entities	 In the Admin portal, go to Settings > Policies > General > Share Mode, and for Set Share Mode in all policies choose either Allow Private Shares Only or Shares Not Allowed. Remove any existing public shares or change them to private. 	If Set Share Mode is Allow All Shares or any public shares exist, status is Issues .
123.26	Maintain records of all data shared with non-US entities	In the Admin portal, go to Settings > Admin and set the Audit Logging Level to FULL .	If Audit Logging Level is set to OFF or REQUEST , status is Issues .
126.1	Deny access to the system by prohibited countries	In the row for the rule in the Compliance Center, click the Edit button and select a DLP rule that blocks users from logging in from those countries. Only DLP rules for the LOGIN action are available for selection.	If the DLP rule exists and is enabled, status is OK ; if not, or if modifications to the rule allow log in from those countries, status is Issues .
127.1	Confirm that reports of violations of compliance rules can be exported.	Enabling the rule to confirm that there is functionality to export reports of compliance rule violations from this page is all that is necessary to pass the compliance check.	None

Guide to GDPR Rules in the Compliance Center

This table defines the GDPR rules covered in FileCloud's Compliance Center, explains what steps you must take to be in compliance, and describes how FileCloud validates each rule.

Rule (click to see text)	Description	Steps for complying	Validation
Art 5	Principles for processing personal data.	 To set up data protection, customize Terms of Service: 1. Go to Customization > TOS. 2. Set up a TOS that is suitable for your organization. 	If the default TOS is not modified then status is Issues .
Art. 6 & 7	Lawfulness of processing	To confirm lawfulness of processing and conditions for consent: 1. For each policy: a. Go to Settings > Policies. b. Open the policy for editing. c. In the General tab, set Enable Privacy Settings to YES, and save. 2. After you have completed this configuration for each policy: a. Go to Settings > Misc > Privacy. b. Set Force users to accept TOS when changed to YES. c. Check Show TOS for every login.	If the settings are set as specified, status is OK ; if not, status is Issues .
Art. 12	Rights of data subject - transparent information	To maintain transparent information and communication: • Go to Settings > Misc > General , and uncheck Disable Action Panel if it is checked.	If Disable Action Panel is unchecked, status is OK ; if not, status is Issues .

Rule (click to see text)	Description	Steps for complying	Validation
Art. 13	Rights of data subject - information about collecting of personal data	To confirm that Terms of Service indicate where personal data are collected about the data subject, enable this rule.	None
Art. 17	Rights of data subject - right to be forgotten	 To set up the right to be forgotten: 1. Go to Settings > Misc > Privacy. 2. Set up Anonymous User Consent Dialog Text with information that provides rights of the data subject. 3. If a user requests to be forgotten, anonymize the data. Also see Anonymizing User Data. 	If the settings are configured as specified, status is OK ; if not, status is Issues .

Rule (click to see text)	Description	Steps for complying	Validation
Art. 20	Rights of data subject - right to data portability	To confirm the right to data portability, ensure the following options work in the Admin portal, and then enable this rule. • Exporting a user's file. a. In the navigation pane, click Users. b. Edit a user. c. In the User Details dialog box, click Manage Files . and then click My Files . d. Click Download as Zip for a file, and confirm that the zip download works. • Exporting audit log records. a. In the navigation pane, click Audit . b. In the upper-right corner of the screen, click Manage . c. In the Manage Audit Logs dialog box, enter a Start Date and an End Date . d. Click Export , and confirm that the file is exported correctly.	None.

Rule (click to see text)	Description	Steps for complying	Validation
Art. 21	Rights of data subject - right to object	To confirm users have right to object: • For each policy: a. Go to Settings > Policies . b. Open the policy for editing. c. In the General tab , set Enable Privacy Settings to Yes .	If the specified settings are set, status is OK ; if not, status is Issues .
		After you have completed this configuration for each policy: 1. Go to Settings > Misc . 2. Click the Privacy tab. 3. Check Show TOS for every login . This option forces users to accept the TOS for every login; if users do not want to accept the condition, they can close the TOS, but they will not be able to log in to the user portal.	
Art. 30	Controller and processor - Records of processing activities	To maintain records of processing activities: 1. Go to Settings > Admin . 2. Set Audit Logging Level to Request or Full .	If Audit Logging Level is set to Request or Full, status is OK; if Audit Logging Level is set to Off, status is Issues.

Rule (click to see text)	Description	Steps for complying	Validation
Art. 32	Controller and processor - Security of processing	Configure storage encryption. 1. See Setting Up Managed Storage Encryption in the support document. a. Go to Settings > Storage > MyFiles and enable encryption. b. Encrypt all existing files.	If storage is not fully encrypted or any existing files are not fully encrypted, status is Issues .
Art. 33	Controller and processor - Notification of a personal data breach to the supervisory authority	To confirm that admins can use audit logs, alerts, and violation reports to generate breach notification, enable this rule.	None
Art. 35	Controller and processor - Data protection impact assessment	Enable all GDPR compliance rules, and ensure that they pass.	If all GDPR compliance rules are enabled and pass, Status is OK . If any rules are not enabled or do not pass, Status is Issues .
Art. 37	Controller and processor - Designation of the data protection officer	 To enable at least one user to manage the Compliance Center: 1. Go to Admins and create a role with Compliance access to the Compliance Center. 2. In Admins, add at least one user to the role with access to the Compliance Center. 	If one or more users have access to the Compliance Center, status is OK ; if not, status is Issues .
Art. 45	Transfers of personal data to third countries or international organisations - Transfers on the basis of an adequacy decision	To allow users to log in to access FileCloud content based on location or IP address, click the Edit button and select a DLP rule that blocks users from logging in from outside locations.	If the DLP rule exists and is enabled, status is OK ; if not, or if modifications to the rule allow login from outside locations, status is Issues .

Guide to NIST Rules in the Compliance Center

This table defines the NIST rules covered in FileCloud's Compliance Center, explains what steps you must take to be in compliance, and describes how FileCloud validates each rule.

Rule (click to see text)	Description		Validation
Access Control 3.1.1	Choose a DLP rule to restrict public sharing of CUI.	 To guard against unauthorized access to CUI: 1. Click the edit button, and select a DLP rule that blocks public shares. 2. Change any existing public shares to private. 	If the DLP rule exists and is enabled and there are no existing public shares, status is OK ; if not, or if modifications to the rule allow public shares, status is Issues .
Access Control 3.1.8	Configure password settings to limit unsuccessful logon attempts.	 To set a limit on unsuccessful logon attempts: 1. Go to Settings > Misc > Password. 2. Configure the setting as follows: Incorrect Attempts Before Account Lockout - a value greater than 0. 	If the Incorrect Attempts Before Account Lockout setting is set as indicated, then status is OK ; if not, status is Issues .
Access Control 3.1.18	Set up a workflow that blocks the connection of a new mobile device until it is approved.	To set up a workflow to block the connection of a new mobile device: • Go to Workflow > Add Workflow and choose If any new client app connects > Block the device for admin approval. For information about this workflow, see: Admin Approval Required Workflow	If the workflow does not exist or is not enabled, the status is Issues .

Rule (click to see text)	Description		Validation
Audit and Accountability 3.3.1	Set the audit logging level.	To monitor log-in attempts: • Go to Settings > Admin , and set Audit Logging Level to REQUEST or FULL .	If Audit Logging Level is set to OFF , status is Issues .
Audit and Accountability 3.3.3	Confirm admin knows how to use and manage audit reports.	Enable this rule to confirm admin understands audit logs and has a process to regularly review audit records and remove unwanted records.	None
Audit and Accountability 3.3.8	Confirm admin understands how to disable the deletion of audit records.	To disable deletion of audit records see Delete Audit Log Entries.	None
Audit and Accountability 3.3.9	Give at least one admin user access to the Audit Reports.	 To enable at least one admin user to access the Audit Reports: 1. Go to Admins and create a role with read access to the Audit Reports. 2. Add at least one user to the role. 	If one or more users have access to the Audit Reports, the status is OK ; if not, the status is Issues .
Configuration Management 3.4.2	Confirm admin understands security settings and knows how to implement reCaptcha, 2FA, and password policies.	Enable this rule to confirm that admin can implement reCaptcha, 2FA, and password policies.	None
Configuration Management 3.4.7	Confirm admin knows how to disable or change non- essential ports and services.	Enable this rule to confirm that admin can disable or change non-essential ports and services. For information about changing default port or web server settings in FileCloud, see: Changing a Default Port or Web Server Setting.	None

Rule (click to see text)	Description		Validation
Identification and Authentication 3.5.2	Configure and enable the Authentication Type as Active Directory or LDAP or enable SSO.	To authenticate users during login: • Go to Settings > Authentication , and set Authentication Type to Active Directory or LDAP . To enable SSO, see: SAML Single Sign-On Support	If Authentication Type is set to Default and SSO is not enabled, status is Issues .
Identification and Authentication 3.5.7	Set up strong password management.	To set regulations for strong password management: 1. Go to Settings > Misc > Password. 2. Configure the settings as follows: Password Length - 8 or more. Enable Strong Passwords - check. Disallow Commonly Used Passwords - check. User Password Expires In Days - a value greater than 0.	If the password settings are set as indicated, status is OK ; if not, status is Issues .
Identification and Authentication 3.5.8	Disallow the reuse of previous passwords.	 To disallow the reuse of previous passwords: 1. Go to Settings > Misc > Password. 2. Configure the setting as follows: Number of Previous Passwords that cannot be reused - a value greater than 0. 	If Number of Previous Passwords that cannot be reused is set as indicated, then status is OK ; if not, status is Issues .

Rule (click to see text)	Description		Validation
Identification and Authentication 3.5.9	Require new accounts to change passwords.	To require new accounts to change passwords: 1. Go to Settings > Misc > Password . 2. Configure the setting as follows: New accounts must change password - check.	If New accounts must change password is set as indicated, then the status is OK ; if not, the status is Issues .
Incident Response 3.6.1	Confirm admin knows how to use audit, alerts, violation reports, and event reports to create notification reports.	Enable this rule to confirm that admin knows how to use audit logs, alerts and violation reports to generate breach notifications.	None
Maintenance 3.7.4	Configure anti-virus protection against malicious file uploads.	To protect CUI from malicious file uploads: 1. Go to Settings > Third Party Integrations > Anti- Virus. 2. Configure an Anti- Virus type.	If Anti-Virus is configured, status is OK ; if not, status is Issues .
Media Protection 3.8.4	Choose a metadata set to classify controlled unclassified information	To indicate which files are CUI, click the edit button and select a metadata set with a tag for identifying them. (Use smart classification to apply the metadata tag to the CUI.)	If the metadata set exists and is enabled, status is OK ; if not, status is Issues .

Rule (click to see text)	Description		Validation
Media Protection 3.8.6	Configure and enable encryption.	To maintain security: Configure storage encryption. 1. Go to Settings > Storage > Encryption and enable encryption. 2. Encrypt all existing files. See Setting Up Managed Storage Encryption in the support document.	If storage is not fully encrypted or any existing files are not fully encrypted, status is Issues .
Systems and Communications Protection 3.13.3	Give at least one user in an admin role access to the Compliance Center.	 To enable at least one user to manage the Compliance Center: 1. Go to Admins and create a role with Compliance access to the Compliance center. 2. In Admins, add at least one user to the role with access to the Compliance Center. 	If one or more users have access to the Compliance Center, status is OK ; if not, status is Issues .
Systems and Communications Protection 3.13.4	Choose a DLP rule that only allows private sharing.	 To guard against unauthorized access to CUI: 1. Click the edit button, and select a DLP rule that blocks public shares. 2. Change any existing public shares to private. 	If the DLP rule exists and is enabled and there are no existing public shares, status is OK ; if not, or if modifications to the rule allow public shares, status is Issues .
Systems and Communications Protection 3.13.9	Set session timeout for the user portal.	To confirm automatic logoff of sessions: 1. Go to Settings > Server , and set Session Timeout to a value greater than 0.	If Session Timeout is set to 0 or empty, status is Issues .

Rule (click to see text)	Description		Validation
Systems and Communications Protection 3.13.10	Confirm decryption keys are confidential.	To confirm that decryption keys are confidential, enable this rule.	None
System and Information Integrity 3.14.1	Enable Governance Report Email to send the admin an email reminder to check audit logs, reports, and security issues regularly.	To implement procedures to regularly review records such as audit logs and violation report: • Enable Send Admin Governance Report Emails option in Admin settings.	If the Send Admin Governance Report Emails setting is enabled, status is OK; if not, status is Issues.

Guide to PDPL Rules in the Compliance Center

This table defines the PDPL rules covered in FileCloud's Compliance Center, explains what steps you must take to be in compliance, and describes how FileCloud validates each rule.

Rule (click to see text)	Description	Steps for complying	Validation
Ch. 1, Section 4 Lawful Processing	Confirm that admins understand how personal data is processed.	Enable this rule to confirm that admins understand how personal data is processed to create or perform the following: • Audit records • Alerts • Reports • Activity and share activity in user portal • Notifications	None
Ch. 1 Section 5 Sensitive Personal Data	Choose a metadata set to classify sensitive personal data, and apply the metadata to files with a smart classification rule.	To indicate which files include sensitive personal data, click the edit button and select a metadata set with a tag for identifying them. Then confirm that a smart classification rule that applies the metadata is enabled.	If the metadata set and the classification rule both exist and are enabled, status is OK; if any part of the condition isn't met, status is Issues.

Rule (click to see text)	Description	Steps for complying	Validation
Ch. 2 Section 2 Withdrawal of Consent	Confirm admins and users understand the process for resetting consent information.	Enable this rule to confirm that admins understand the procedures for withdrawing user consent information.	None
Ch. 2 Section 8 Lawfulness, Fairness, and Transparency	Set up privacy regulations.	 To obtain explicit and informed consent from users before processing their data: For each policy: Go to Settings > Policies. Open the policy for editing. In the General tab, set Enable Privacy Settings to YES, and save. After you have completed this configuration for each policy: Go to Settings > Misc > Privacy. Set Force users to accept TOS when changed to YES. Check Show TOS for every login. 	If the specified settings are set, status is OK ; if not, status is Issues .
Ch. 2 Section 9 Purpose Limitation	Set up terms of service.	 To set up data protection principles: 1. Go to Customization > TOS. 2. Set up a TOS that is suitable for your organization. 	If the default TOS is not modified then status is Issues .
Ch. 2 Section 10 Data Minimization	Confirm admins know how to use audit reports.	Enable this rule to confirm admins have a process to regularly review audit records and remove unwanted records.	None

Rule (click to see text)	Description	Steps for complying	Validation
Ch. 2 Section 11 Accuracy	Ensure that system date and time are updated to the user's regional time zone.	Enable this rule to confirm that admins and users understand how to check that records like audit, share activity, and global activity show the system date and time in the correct regional time zone.	None
Ch. 2 Section 12 Storage Limitation	Set up a retention policy to protect files and folders from deletion.	 To protect personal data files and folders from deletion: Click the edit button, and select a retention policy to protect personal data files and folders from deletion based on metadata. Confirm admins understand that after the retention period, files will be completely deleted from the recycle bin. 	If the retention policy exists and is enabled, status is OK ; if not, or if modifications to the retention policy allow file or folder deletion, status is Issues .
Ch. 2 Section 13 Integrity and Confidentiality	Configure and enable encryption.	 To maintain security: 1. Configure storage encryption. See Setting Up Managed Disk Storage Encryption in the support document. 2. Go to Settings > Storage > Encryption and enable encryption. 3. Encrypt all existing files. 	If storage is not fully encrypted, or any existing files are not fully encrypted, status is Issues .
Ch. 3 Section 15 Right of Access	Confirm terms of service indicates where personal data are collected.	To confirm that terms of service indicates where personal data are collected from the data subject, enable this rule.	There are no system checks to verify this; your confirmation is the only verification.

Rule (click to see text)	Description	Steps for complying	Validation
Ch. 3 Section 16 Right of Correction	Confirm admins understand how to edit user accounts, and users are aware of the rectification request process.	Enable this rule to confirm that admins and users understand the process of amending personal data.	There are no system checks to verify this; your confirmation is the only verification.
Ch. 3 Section 17 Right to Erasure	Use Anonymize Data.	 To confirm the right to be forgotten: Go to Settings > Misc > Privacy. Set up Anonymous User Consent Dialog Text with information that provides rights of the data subject. If a user requests to be forgotten, anonymize the data. Also see Anonymizing User Data. 	If the specified settings are set, status is OK ; if not, status is Issues .

Rule (click to see text)	Description	Steps for complying	Validation
Ch. 3 Section 19 Right to Object to Processing	Confirm that admins and users know privacy TOS behavior.	To configure users' have right to object: For each policy: 1. Go to Settings > Policies. 2. Open the policy for editing. 3. In the General tab, set Enable Privacy Settings to Yes. After you have completed this configuration for each policy: 1. Go to Settings > Misc. 2. Click the Privacy tab. 3. Check Show TOS for every login. This option forces users to accept the TOS for every login; if users do not want to accept the condition, they can close the TOS. Please note that on not accepting the TOS, the user will not be able to log in to the user portal.	If the specified settings are set, status is OK ; if not, status is Issues .

Rule (click to see text)	Description	Steps for complying	Validation
Ch. 3 Section 20 Right to Data Portability	Confirm admins understand option to Export User Files and User activity.	 To configure the right to data portability, ensure the following options work in the admin portal, and then enable this rule. Exporting a user's file. In the navigation pane, click Users. Edit a user. In the User Details dialog box, click Manage Files. and then click My Files. Click Download as Zip for a file, and confirm that the zip download works. Exporting audit log records. In the upper-right corner of the screen, click Manage. In the Manage Audit Logs dialog box, enter a Start Date and an End Date. Click Export, and confirm that the file is exported correctly. 	None
Ch 3 Section 23 Right to be Informed of Data Breaches	Confirm Admin knows how to use audit, alerts, violation and event reports to create notification reports.	To confirm that admins can use audit logs, alerts, and violation reports to generate breach notifications, enable this rule.	None

Rule (click to see text)	Description	Steps for complying	Validation
Ch. 4 Section 29 Data Protection Officer	Give at least one admin access to the Compliance Center.	 To enable at least one user to manage the Compliance Center: 1. Go to Admins and create a role with Compliance access to the Compliance Center. 2. In Admins, add at least one user to the role with access to the Compliance Center. 	If one or more users have access to the Compliance Center, status is OK ; if not, status is Issues .
Ch. 6 Section 33 Transfers to Third Countries	Confirm that users and admins understand how to use and manage sharing and folder permissions.	Enable this rule to confirm that users and admins are educated about sharing and folder-level permissions.	None
Ch. 6 Section 34 Transfers to International Organizations	Confirm admins understand how to set up encryption and anonymization of data.	To confirm that admins understand how to use anonymization and encryption, enable this rule.	None

FileCloud Web Accessibility (VPAT) Practices

As of Version 20.2, FileCloud has complied with Voluntary Product Accessibility Template (VPAT) guidelines. Below is a list of the guidelines complied with

For a list of guidelines, see https://www.w3.org/TR/WCAG21/.

Guideline	Descriptions of requirement and FileCloud's compliance	FileC loud Versi on
1.1 Text alternatives	Requirement: Provide text alternatives for any non-text content so that it can be changed into other forms people need, such as large print, braille, speech, symbols or simpler language.	20.3
	FileCloud compliance:	
	 Images are associated with alt tags to act as image descriptions. Controls like checkboxes have aria attributes to describe their usage. 	

Guideline	Descriptions of requirement and FileCloud's compliance	FileC loud Versi on		
1.3 Adaptable content	Requirement: Create content that can be presented in different ways (for example simpler layout) without losing information or structure.			
	FileCloud compliance:			
	 The labels for required fields are displayed in red. The labels for checkboxes can be programmatically determined, as they are associated with aria-label attributes. The rows of files are navigable through the keyboard. Keyboard support is included for forms. Screen reader provides context about content when format in which it is presented changes from the original, for example, by indicating the number of search results found or by giving instructions about how to navigate options. Information in interactive elements (like File Operations box) is not marked as a header. Note: Added in FileCloud 23.1 for requirement 1.3.1. Wherever possible, data tables are programmatically marked to show relationships between table headers and table cells. Note: Added in FileCloud 23.1 for requirements 1.3.1 and 1.3.2. 			
1.4 Distinguishable	 Requirement: Make it easier for users to see and hear content including separating foreground from background. FileCloud compliance: The new UI enables high contrast mode, which makes the visual presentation of blocks of text and icons easily readable. 			
2.1 Keyboard Accessible	 Requirement: Make all functionality available from a keyboard. FileCloud compliance: Keyboard accessibility is supported in FileCloud, and enables users to submit forms or navigate using keyboard shortcuts and keyboard navigation. The Details section in My Files is keyboard accessible. Note: Added in FileCloud 23.1 for requirement 2.1.1. See Guide to Keyboard Shortcuts. 			

Guideline	Descriptions of requirement and FileCloud's compliance	FileC loud Versi on
2.2.5 Re-authenticating	Requirement:When an authenticated session expires, the user can continue the activity without loss of data after re-authenticating.FileCloud compliance:When an authenticated session expires, the user can continue the activity after re-authenticating.	
2.4 Navigable	 Requirement: Provide ways to help users navigate, find content, and determine where they are. FileCloud compliance: In FileCloud, keyboard accessibility enables users to navigate through file lists and tab through fields in forms. See Guide to Keyboard Shortcuts. A link for skipping navigation enables users to skip repetitive navigation information on pages and directly access the main content. Note: Added in FileCloud 23.1 for requirement 2.4.1. Interactive elements such as table headers are read in tab order, and focus order of tables is top to bottom and left to right. Note: Added in FileCloud 23.1 for requirement 2.4.3. 	
3.1 Readable	Requirement:Make text content readable and understandable.FileCloud compliance:The lang attribute in HTML tags changes so that it can be easily read in thelanguage of the site. Many non-text parts of the site are associated withalternative texts to make them readable.	
3.2 Predictable	 Requirement: Make Web pages appear and operate in predictable ways. FileCloud compliance: Drop-down lists are keyboard-navigable. Focus is set to the first input field in forms. 	
3.3 Input Assistance	Requirement: Help users avoid and correct mistakes. FileCloud compliance: All form input fields have proper labels and validation of inputs in place. Errors are shown if a form submission fails.	

Guideline	Descriptions of requirement and FileCloud's compliance	FileC loud Versi on
4.1 Compatible	Requirement : Maximize compatibility with current and future user agents, including assistive technologies. FileCloud compliance:	
	 Newest user interface uses well-formed HTML with proper Start and End tags. The tags have aria label, name, and role attributes associated with them. Screen reader indicates whether elements are buttons or links. Note: Added in FileCloud 23.1 for requirement 4.1.2. Screen reader informs users when new data is loaded on the page or dynamic content appears. Note: Added in FileCloud 23.1 for requirement 4.1.3. 	

Retention Policies

(i) Retention Policies are available for the Enterprise editions of FileCloud. Learn more about differences in features between editions.

As an administrator, you can create Retention policies to automate some of the processing related to protecting files and their folder groupings. This policy-based automation is designed to help secure digital content for compliance, but it can also enhance the management of digital content for other business reasons.

- Retention policies are created and attached to files and folders.
- These special policies allow you to define the conditions that enforce a set of restrictions on how each file or folder can be manipulated.
- For example, you can create a Retention Policy that disables a user's ability to delete any of the files and folders named in the policy.

🔶 How Retention Policies Function

Create a Type of Retention Policy

Are You Seeing This Screen?

This screen appears when the Retention features are not enabled for the system.

- Retention can be manually disabled by an Administrator. For more information, please contact Support
- Retention is available in Enterprises Licenses. To upgrade, please contact Support

FILECLOU:	D ▲ admin →
HOME	A Manage Retention Policies
USERS/GROUPS	Retention policy is available only for FileCloud Enterprise
Lusers	
& Admins	
MANAGE	
Network Folders	
How User Shares	
Q _€ Folder Permissions DEVICES	
Devices	
GOVERNANCE	
Retention	
MISC.	
Alerts	

Create a Type of Retention Policy

There are five different types of retention policies that can be configured and assigned.

Policy Type	Description
Admin Hold	 Prevents any update or delete of digital content for an indefinite period of time Admin Hold policies applied to folders can be removed Admin policies applied to files can be removed Create an Admin Hold policy
Legal Hold	 Freezes digital content to aid discovery or legal challenges During a legal hold, file modifications are not allowed Holds cannot be reversed once applied Create a Legal Hold policy
Retention	 Identifies digital content to be kept around for an unlimited amount of time before being deleted or released Retention policies cannot be reversed once applied Create a Retention policy
Archival	 Moves and stores old organizational content, for example, to a more cost effective systems for long term No Deletion is allowed until a specific time period is reached After the specified time period is reached, content gets moved to a specific folder or location Create an Archival policy
Trash Retention	 Controls if files can permanently be deleted off the FileCloud Server system Can be configured for automatic and permanent deletion of all files in the Trash bins or to expire with no actions Create a Trash Retention policy

Create a Legal Hold Policy

A Legal Hold is designed to retain data, therefore, there is no deletion or move option available when this policy is in effect.

Legal Holds cannot be removed once applied unless an expiration fixed date is set.

The following table identifies what actions are blocked for a Legal Hold type of retention policy.

Policy Type	Reads	Moves	Copies	Updates	Deletes	Policy	Expiration
	Blocked	Blocked	Blocked	Blocked	Blocked	Length	Actions
Legal Hold	NO	YES	NO	YES	YES	 Fixed Date Indefinit e 	• No Action

(i) Copies cannot be created if there is a retention hold on the destination folder that prevents updates.

What is a Use Case for a Legal Hold?

In the world of litigation, a legal hold is a notification

- It is sent from an organization's legal team to employees
- It instructs them not to delete electronically stored information (ESI)
- It also instructs then not to discard any paper documents that may be relevant to a new or imminent legal case.

FileCloud allows administrators to place a legal hold on ESI.

- FileCloud's Legal Hold policy prevents any of the attached file to be moved
- FileCloud's Legal Hold policy prevents any of the attached file to be changed in any way
- FileCloud's Legal Hold policy prevents any of the attached file to be deleted (either for a fixed number of days or indefinitely)

Creating the Policy

Mana	ige Re	tentio	on Policies		Cron Last Run Date/1	ïme: Jan 12, 2021 6:00 AM	C Effective Policy
Filter	Q	Filter by	policy name		Show 10 Items	~	
Policy Name			Description		Status	Policy Type	Actions
				No matching res	sults found		

To create a Legal Hold Policy:

- 1. Log in to the Admin Portal.
- 2. From the left navigation pane, select Retention.
- 3. On the Manage Retention Policies screen, click the Add Policy button.

4. Completely fill out the Policy Attributes section.

Policy Attributes	
Policy Name	
Policy Type	
Legal Hold	\sim
Locks digital content to aid discovery or legal challenges. This policy can be removed by the admin.	
Description	
Hide Policy From Users 🛈	
Enabled 🕄	\checkmark
Alert On Violation 🖲	
Send email alert 🛈	
Alerts	
Type in a comma-separated list of email addresses of users who need to know that a policy expires.	

Property	Description
Policy Name	A string of characters, letters, and numbers that provide a title for the policy
Policy Type	Select Legal Hold
Description	 Required A string of characters, letters, and numbers that provide details about why the policy is necessary This description is displayed in the User Portal when the cursor hovers over the Policy Name in the Details tab

Property	Description
Hide Policy from Users	 Prevents policy details from being shown and leaked. Selecting this option removes the display of applied policies and their expiration dates from the Details tab in the User Portal. Selecting this option also blocks the API call to the backend to find out which policies are applied. This is how data leaks are prevented. Although the policy name and expiration date are not shown, the restrictions are still enforced. For example, if the policy you are hiding from users prevents them from deleting the file, although the policy information is not shown, the user will not be able to delete the file.
	Administrators need to be aware that users might report issues with the system when a retention policy is blocking their ability to access or delete a file or folder. The user will not be aware of why certain options are greyed out if they don't see the policy restrictions listed. However, if the user is able to select the option and it is restricted by a policy, they will see an error message telling them why when they try to select the option.
Alert on Violation	Displays an alert in the Admin portal on the Governance dashboard. Administrators need to be aware that not all violations are logged here. The reason for this is that all permissions for a file are collected in one file- including user permissions and sharing permissions. In some cases, a sharing permission that was set first might stop a file from being deleted before a retention policy that was added later. The reason why the file cannot be deleted, or which set of permissions or policy is stopping the deletion, is not FileCloud's main priority. FileCloud's main concern is protecting the file and finding out if it cannot be deleted. This is why you might not always see a violation in the Dashboard, but the file will always be protected. If a user is constantly trying to delete a file that is protected by a retention policy then the chances of seeing the violation in the Governance Dashboard increase.
Send email alert	 Notifies all provided recipients that there are only 7 days until the policy expires. The same information is available on the Governance dashboard. The Governance Dashboard list each file individually, and displays the date and time when a policy will expire so the Admin knows and can take action if any is needed.
Alerts	A list of email addresses separated by a comma who will receive the email notification that there are only 7 days until the policy expires.

5. Attach folders or files in the Apply Policy To section.

The Path and the Metadata tabs allow you to define the conditions that specify how the policy will be applied in the system.

Apply Policy To	
Paths Metadata	
Add Path	
Path	Actions
/teams/Data Governance	×
Page 1 of 1 > M	

Add a Path

Add Path allows you to define a folder that a policy will apply to AS WELL AS all the files and sub-folders it contains

What you CAN do in the Path field	What you CANNOT do in the Path field
 Paths work for managed storage ONLY Since managed storage includes Team Folders, you CAN add a path to a Team Folder A Path takes the form of: /username/sub-folder You can add more than 1 path You can set BOTH a path and specify metadata 	 You CANNOT add a path to network folders You CANNOT add a path to external folders You CANNOT add a path to shared folders You CANNOT add a path to protected folders, such as /boot, /root, and /var in LINUX You CANNOT edit a path. If you make a mistake, you must first remove the path and click Add to specify the correct path
• The full path must exist before the policy will be enforced	• You CANNOT specify a path that does not exist
When creating the policy the full path doesn't have to exist, however. At a minimum:	This will prevent you from saving the policy ERROR ×
 The first component of the path has to already exist / username/ This means that the username or team folder has to already exist before you can save the policy 	Failed to add new retention policy. Failed to add new Retention policy definition. Reason: Retention policy definition is invalid. conditions: Incorrect path specified - only paths for existing users / team folders are accepted

Configure Metadata

Data that provides additional information about files and folders is called Metadata.

- To specify files and folders that this policy should apply to, you can use metadata sets, attributes, and tags.
- You can use metadata to apply a policy to all files that meet the metadata conditions even if they are not in the same folder.

You can select metadata from the following existing attributes or sets:

- Default sets = provided with FileCloud and applies to every folder and cannot be modified
- Built-In sets = provided with FileCloud and includes the Document Life Cycle and Image metadata sets
- Custom attributes and sets = created by administrators in the Admin Portal

For more information about metadata, see Managing Metadata.

6. Set the Expiry Actions

Legal holds can expire in either a Fixed Date or be set to Indefinite.

Actions	
Expiry Date 1	ate 🔿 Indefinite
Expiry Date	Expiry Date
Policy Expiry Actions (1) No Action]

To set a fixed date:

- 1. In the Actions section, click Fixed Date.
- 2. Click in the *Expiry Date* text box.
- 3. A calendar will be shown with the current month.
- 4. Select a date from the calendar.

Create an Admin Hold Policy

An Admin hold only blocks user access, it does not block other policies from expiring. However, if an Admin Hold is in place, any other policies will expire gracefully without completing any move or delete expiry options.

- For Admin Holds, a policy expiration date cannot be set
- The policy can only be removed by an administrator
- Since the policy does not expire on a specific date, there are no automatic actions on expiration

The following table identifies what actions are blocked for an Admin Hold type of retention policy.

Policy Type	Reads	Moves	Copies	Updates	Deletes	Policy	Expiration
	Blocked	Blocked	Blocked	Blocked	Blocked	Length	Actions
Admin Hold	NO	YES	NO	YES	YES	• Indefinit e	• No Action

(i) Copies cannot be created if there is a retention hold on the destination folder that prevents updates.

What is a Use Case for an Admin Hold?

For example:

- 1. An administrator looks at the Governance dashboard and sees that a Retention with Deletion policy is about to expire on files that have been kept for 3 years.
- 2. The Retention with Deletion policy will delete 200 files when it expires in 2 days.
- 3. However, the administrator notices that some of these files have been recently updated.
- 4. The Administrator puts an Admin Hold policy in place on the files in the Retention with Deletion policy that is about to expire.
- 5. The Administrator can now investigate the files without worrying about users updating them at the same time.
- 6. However, it takes the Administrator 3 days to identify which files should not be deleted and which can be deleted.
- 7. During this time, the Retention with Deletion policy expires, but because of the Admin Hold, no files are removed.
- 8. The Administrator removes the Admin Hold from the files.
- 9. The Administrator removes the files that don't need to be saved from FileCloud.
- 10. A new Retention with No Deletion policy is created for the remaining files that need to be saved.

Creating the Policy

Mana	age Retenti	on Policies		Cron Last Run Date/Tim	ie: Jan 12, 2021 6:00 AM	Seffective Policy
Filter Q Filter by policy name			Show 10 Items	~		
Policy Name Description			Status	Policy Type	Actions	
			No matching re	sults found		

To create an Admin Hold Policy:

- 1. Log in to the Admin Portal.
- 2. From the left navigation pane, select Retention.
- 3. On the Manage Retention Policies screen, click the Add Policy button.

4. Completely fill out the Policy Attributes section.

Add Retention Policy	×
Policy Attributes	
Policy Name	
DPO_Admin	
Policy Type	
Retention Archival Legal Hold Trash Retention Admin Hold	
Suspend any action to files due to other retention policies that might affect them.	
Description	
Hide Policy From Users 🖲	
Enabled 🚯	
Alert On Violation 🛈	
Send email alert 🛈	
Alerts	
Type in a comma-separated list of email addresses of users who need to know that a policy expires.	

Property	Description
Policy Name	A string of characters, letters, and numbers that provide a title for the policy
Policy Type	Select Admin Hold
Description	 Required A string of characters, letters, and numbers that provide details about why the policy is necessary This description is displayed in the User Portal when the cursor hovers over the Policy Name in the Details tab

Property	Description
Hide Policy from Users	 Prevents policy details from being shown and leaked. Selecting this option removes the display of applied policies and their expiration dates from the Details tab in the User Portal. Selecting this option also blocks the API call to the backend to find out which policies are applied. This is how data leaks are prevented. Although the policy name and expiration date are not shown, the restrictions are still enforced. For example, if the policy you are hiding from users prevents them from deleting the file, although the policy information is not shown, the user will not be able to delete the file.
	Administrators need to be aware that users might report issues with the system when a retention policy is blocking their ability to access or delete a file or folder. The user will not be aware of why certain options are greyed out if they don't see the policy restrictions listed. However, if the user is able to select the option and it is restricted by a policy, they will see an error message telling them why when they try to select the option.
Alert on Violation	Displays an alert in the Admin portal on the Governance dashboard. Administrators need to be aware that not all violations are logged here. The reason for this is that all permissions for a file are collected in one file- including user permissions and sharing permissions. In some cases, a sharing permission that was set first might stop a file from being deleted before a retention policy that was added later. The reason why the file cannot be deleted, or which set of permissions or policy is stopping the deletion, is not FileCloud's main priority. FileCloud's main concern is protecting the file and finding out if it cannot be deleted. This is why you might not always see a violation in the Dashboard, but the file will always be protected. If a user is constantly trying to delete a file that is protected by a retention policy then the chances of seeing the violation in the Governance Dashboard increase.
Send email alert	 Notifies all provided recipients that there are only 7 days until the policy expires. The same information is available on the Governance dashboard. The Governance Dashboard list each file individually, and displays the date and time when a policy will expire so the Admin knows and can take action if any is needed.
Alerts	A list of email addresses separated by a comma who will receive the email notification that there are only 7 days until the policy expires.

5. Attach folders or files in the Apply Policy To section.

The Path and the Metadata tabs allow you to define the conditions that specify how the policy will be applied in the system.

Apply Policy To	
Paths Metadata	
Add Path	
Path	Actions
/teams/Data Governance	×
Page 1 of 1 🕨 🕅	

Add a Path

Add Path allows you to define a folder that a policy will apply to AS WELL AS all the files and sub-folders it contains

What you CAN do in the Path field	What you CANNOT do in the Path field			
 Paths work for managed storage ONLY Since managed storage includes Team Folders, you CAN add a path to a Team Folder A Path takes the form of: /username/sub-folder You can add more than 1 path You can set BOTH a path and specify metadata 	 You CANNOT add a path to network folders You CANNOT add a path to external folders You CANNOT add a path to shared folders You CANNOT add a path to protected folders, such as /boot, /root, and /var in LINUX You CANNOT edit a path. If you make a mistake, you must first remove the path and click Add to specify the correct path 			
• The full path must exist before the policy will be enforced	• You CANNOT specify a path that does not exist			
When creating the policy the full path doesn't have to exist, however.	This will prevent you from saving the policy ERROR ×			
At a minimum:				
 The first component of the path has to already exist / username/ This means that the username or team folder has to already exist before you can save the policy 	Failed to add new retention policy. Failed to add new Retention policy definition. Reason: Retention policy definition is invalid. conditions: Incorrect path specified - only paths for existing users / team folders are accepted			

Configure Metadata

Data that provides additional information about files and folders is called Metadata.

- To specify files and folders that this policy should apply to, you can use metadata sets, attributes, and tags.
- You can use metadata to apply a policy to all files that meet the metadata conditions even if they are not in the same folder.

You can select metadata from the following existing attributes or sets:

- Default sets = provided with FileCloud and applies to every folder and cannot be modified
- Built-In sets = provided with FileCloud and includes the Document Life Cycle and Image metadata sets
- Custom attributes and sets = created by administrators in the Admin Portal

For more information about metadata, see Managing Metadata.

6. Set the Expiry Actions

An administrative hold is designed to help an administrator block access to files and folders so that they can determine what should happen next.

- For Admin Holds, a policy expiration date cannot be set
- The policy can only be removed by an administrator
- Since the policy does not expire on a specific date, there are no automatic actions on expiration

Actions	
Expiry Date 1 Time Period Fixed Date Indefinit	te
Policy Expiry Actions 1 No Action	

Create an Archival Policy



An Archival policy type is designed to help you create a more cost effective systems for long term.

Therefore, you can create a policy to move and store old organizational content in the following ways:

- If you choose No Action, you will see an error that it is not supported and you will not be able to create the policy
- After the specified time period is reached, content gets moved to a specific folder or location (Archive)

The following table identifies what actions are blocked for an Archival type of retention policy.

Policy Type	Reads Blocked	Moves Blocked	Copies Blocked	Updates Blocked	Deletes Blocked	Policy Length	Expiration Actions
Retention	NO	NO	NO	NO	YES	 Time Period Fixed Date 	 Move files to a specific location

What is a use case for an Archival Policy?

This type of policy helps an administrator plan for the future by setting up a process to run automatically when the time comes.

For example:

- 1. If phone records only have to be accessible in the system for 5 years, but stored for at least 10 years, then the Administrator doesn't have to just remember to move the current phone records in 5 years into storage.
- 2. The administrator can just create an Archival policy to move them automatically in 5 years.

This also allows a process to run independent of an employee's length of service.

For example: if the same employee is no longer an Administrator in 5 years, but the old records still need to be moved, they will be.

Creating the Policy

Manage Retention Policies					Cron Last Run Date/	Time: Jan 12, 2021 6:00 AM	Seffective Policy Add Policy
Filter	Q	Filter k	y policy name		Show 10 Items	~	
Policy Name			Description		Status	Policy Type	Actions
				No matching res	sults found		

To create an Archival Policy:

- 1. Log in to the Admin Portal.
- 2. From the left navigation pane, select *Retention*.
- 3. On the Manage Retention Policies screen, click the Add Policy button.

4. Completely fill out the Policy Attributes section.

Policy Attributes	
Policy Name	
Policy Type	
Archival	\sim
Moves and stores files in specified directories. This policy cannot be modified or removed once set by the admin.	
Description	
Hide Policy From Users 🖲	
Enabled 🖲	\checkmark
Alert On Violation 🖲	
Send email alert 🖲	
Alerts	
Type in a comma-separated list of email addresses of users who need to know that a policy expires.	

Property	Description
Policy Name	A string of characters, letters, and numbers that provide a title for the policy
Policy Type	Select Archival
Description	 Required A string of characters, letters, and numbers that provide details about why the policy is necessary This description is displayed in the User Portal when the cursor hovers over the Policy Name in the Details tab

Property	Description
Hide Policy from Users	 Prevents policy details from being shown and leaked. Selecting this option removes the display of applied policies and their expiration dates from the Details tab in the User Portal. Selecting this option also blocks the API call to the backend to find out which policies are applied. This is how data leaks are prevented. Although the policy name and expiration date are not shown, the restrictions are still enforced. For example, if the policy you are hiding from users prevents them from deleting the file, although the policy information is not shown, the user will not be able to delete the file.
	Administrators need to be aware that users might report issues with the system when a retention policy is blocking their ability to access or delete a file or folder. The user will not be aware of why certain options are greyed out if they don't see the policy restrictions listed. However, if the user is able to select the option and it is restricted by a policy, they will see an error message telling them why when they try to select the option.
Alert on Violation	Displays an alert in the Admin portal on the Governance dashboard. Administrators need to be aware that not all violations are logged here. The reason for this is that all permissions for a file are collected in one file- including user permissions and sharing permissions. In some cases, a sharing permission that was set first might stop a file from being deleted before a retention policy that was added later. The reason why the file cannot be deleted, or which set of permissions or policy is stopping the deletion, is not FileCloud's main priority. FileCloud's main concern is protecting the file and finding out if it cannot be deleted. This is why you might not always see a violation in the Dashboard, but the file will always be protected. If a user is constantly trying to delete a file that is protected by a retention policy then the chances of seeing the violation in the Governance Dashboard increase.
Send email alert	 Notifies all provided recipients that there are only 7 days until the policy expires. The same information is available on the Governance dashboard. The Governance Dashboard list each file individually, and displays the date and time when a policy will expire so the Admin knows and can take action if any is needed.
Alerts	A list of email addresses separated by a comma who will receive the email notification that there are only 7 days until the policy expires.

5. Attach folders or files in the Apply Policy To section.

The Path and the Metadata tabs allow you to define the conditions that specify how the policy will be applied in the system.

Apply Policy To	
Paths Metadata	
Add Path	
Path	Actions
/teams/Data Governance	×
Page 1 of 1 > >	

Add a Path

Add Path allows you to define a folder that a policy will apply to AS WELL AS all the files and sub-folders it contains

What you CAN do in the Path field	What you CANNOT do in the Path field
 Paths work for managed storage ONLY Since managed storage includes Team Folders, you CAN add a path to a Team Folder A Path takes the form of: /username/sub-folder You can add more than 1 path You can set BOTH a path and specify metadata 	 You CANNOT add a path to network folders You CANNOT add a path to external folders You CANNOT add a path to shared folders You CANNOT add a path to protected folders, such as /boot, /root, and /var in LINUX You CANNOT edit a path. If you make a mistake, you must first remove the path and click Add to specify the correct path
• The full path must exist before the policy will be enforced	• You CANNOT specify a path that does not exist
When creating the policy the full path doesn't have to exist, however.	This will prevent you from saving the policy
At a minimum:	ERROR ×
 The first component of the path has to already exist / username/ This means that the username or team folder has to already exist before you can save the policy 	Failed to add new retention policy. Failed to add new Retention policy definition. Reason: Retention policy definition is invalid. conditions: Incorrect path specified - only paths for existing users / team folders are accepted

Configure Metadata

Data that provides additional information about files and folders is called Metadata.

- To specify files and folders that this policy should apply to, you can use metadata sets, attributes, and tags.
- You can use metadata to apply a policy to all files that meet the metadata conditions even if they are not in the same folder.

You can select metadata from the following existing attributes or sets:

- Default sets = provided with FileCloud and applies to every folder and cannot be modified
- Built-In sets = provided with FileCloud and includes the Document Life Cycle and Image metadata sets
- Custom attributes and sets = created by administrators in the Admin Portal

For more information about metadata, see Managing Metadata.

6. Set the Expiry Actions

You can configure an Archival policy to expire in a set Time Period or at a Fixed Date.

10 Se	et a Time Period:
Expiry Date ● ime Period O Fixed Date ● Indefinite ime Period of Retention Custom No. of Days Renew Expiry On Access ● Policy Expiry Actions ● No Action Archival Path Path to which file must be archived To see 3 3 3 3 3 3 3 3 3 3 3 3	 In the Actions section, click Time Period. In Time Period of Retention, click the down arrow. From the list, you can select a built-in option: a. 30 days b. 60 days c. 1year d. 2years From the list, you can also select Custom. a. In No. of days, type in a whole number greater than 0. et a fixed date: In the Actions section, click Fixed Date. Click in the Expiry Date text box. A calendar will be shown with the current month. Select a date from the calendar.

Actions Expiry Date Fixed Date Indefinite	Renew Expiry on Access: this is a set numb when the policy expires based on the <u>last a</u>	access date.		
Time Period of Retention	Available only if the <i>Time Period</i> option is set, and selected by default.			
No. of Days	Renew Expiry on Access	Expiration Date		
Renew Expiry On Access 🛛 🗹				
Policy Expiry Actions No Action o No Action Archiva Archival Path	For example, if on March 2, 2019, for an X-ray, you set expiry to:	Then the policy will expire on May 2, 2019 UNLESS:		
Path to which file must be archived	Time Period = 60 daysRenew on Access = selected	 If a doctor previews the file before May 2, say on May 1, 2019 		
		Then the 60-day time period will be reset to July 1, 2019.		
The ACTUAL date is reset by a user every time they access the file				
	To set Renew Expiry On Access:			
	1. In the <i>Actions</i> section, next to Rene is selected.	w Expiry on Access, make sure the checkbc		
Actions Expiry Date	When a Retention policy expires, you can a attached files and folders.	configure it to allow access to or delete the		
Time Period Fixed Date Indefinite Time Period of Retention	To set Policy Expiry Actions:			
30 days Policy Expiry Actions • O No Action • Archive Archival Path Path to which file must be archived	an error and will not be able b. <i>Archive</i> : After the specified is moved to a specific folder	tion is available, if you select it you will get e to save the policy time period or fixed date is reached, conter		

Create a Retention Policy

A Retention policy allows an organization to identify specific content that is required to be stored for a specific period of time before it can be accessed. During the retention period, the content cannot be deleted.

A Retention policies cannot be removed once applied unless an expiration fixed date is set.

The following table identifies what actions are blocked for a retention policy.

FileCloud Online Version 23.232 Governance

Policy Type	Reads	Moves	Copies	Updates	Deletes	Policy	Expiration
	Blocked	Blocked	Blocked	Blocked	Blocked	Length	Actions
Retention	NO	NO	NO	NO	YES	 Time Period Fixed Date Indefinit e 	DeleteNo Action

Creating the Policy

Manage Retention Policies				Cron Last Run Date/Tim	Seffective Policy + Add Policy	
Filter	Q Filter by	policy name		Show 10 Items	~	/
Policy Name		Description		Status	Policy Type	Actions
			No matching resul	lts found		

To create a Retention Policy:

- 1. Log in to the *Admin Portal*.
- 2. From the left navigation pane, select *Retention*.
- 3. On the Manage Retention Policies screen, click the Add Policy button.

4. Completely fill out the Policy Attributes section.

Policy Attributes	
Policy Name	
Policy Type	
Retention	\sim
Retention allows an organization to identify specific content that is required to be stored for a specific period of time before it can be accessed. Durin retention period, the content cannot be deleted or archived.	g the
Description	
Hide Policy From Users 🖲	
Enabled 🖲	\checkmark
Alert On Violation	
Send email alert 🛈	
Alerts	
Type in a comma-separated list of email addresses of users who need to know that a policy expires.	

Property	Description
Policy Name	A string of characters, letters, and numbers that provide a title for the policy
Policy Type	Select Retention
Description	 Required A string of characters, letters, and numbers that provide details about why the policy is necessary This description is displayed in the User Portal when the cursor hovers over the Policy Name in the Details tab

Property	Description
Hide Policy from Users	 Prevents policy details from being shown and leaked. Selecting this option removes the display of applied policies and their expiration dates from the Details tab in the User Portal. Selecting this option also blocks the API call to the backend to find out which policies are applied. This is how data leaks are prevented. Although the policy name and expiration date are not shown, the restrictions are still enforced. For example, if the policy you are hiding from users prevents them from deleting the file, although the policy information is not shown, the user will not be able to delete the file.
	Administrators need to be aware that users might report issues with the system when a retention policy is blocking their ability to access or delete a file or folder. The user will not be aware of why certain options are greyed out if they don't see the policy restrictions listed. However, if the user is able to select the option and it is restricted by a policy, they will see an error message telling them why when they try to select the option.
Alert on Violation	Displays an alert in the Admin portal on the Governance dashboard. Administrators need to be aware that not all violations are logged here. The reason for this is that all permissions for a file are collected in one file- including user permissions and sharing permissions. In some cases, a sharing permission that was set first might stop a file from being deleted before a retention policy that was added later. The reason why the file cannot be deleted, or which set of permissions or policy is stopping the deletion, is not FileCloud's main priority. FileCloud's main concern is protecting the file and finding out if it cannot be deleted. This is why you might not always see a violation in the Dashboard, but the file will always be protected. If a user is constantly trying to delete a file that is protected by a retention policy then the chances of seeing the violation in the Governance Dashboard increase.
Send email alert	 Notifies all provided recipients that there are only 7 days until the policy expires. The same information is available on the Governance dashboard. The Governance Dashboard list each file individually, and displays the date and time when a policy will expire so the Admin knows and can take action if any is needed.
Alerts	A list of email addresses separated by a comma who will receive the email notification that there are only 7 days until the policy expires.

5. Attach folders or files in the Apply Policy To section.

The Path and the Metadata tabs allow you to define the conditions that specify how the policy will be applied in the system.

Apply Policy To	
Paths Metadata	
Add Path	
Path	Actions
/teams/Data Governance	×
Page 1 of 1 D	

Add a Path

Add Path allows you to define a folder that a policy will apply to AS WELL AS all the files and sub-folders it contains

What you CAN do in the Path field	What you CANNOT do in the Path field
 Paths work for <i>managed storage</i> ONLY Since managed storage includes Team Folders, you CAN add a path to a Team Folder A Path takes the form of: <u>/username/sub-folder</u> You can add more than 1 path You can set BOTH a path and specify metadata 	 You CANNOT add a path to network folders You CANNOT add a path to external folders You CANNOT add a path to shared folders You CANNOT add a path to protected folders, such as /boot, /root, and /var in LINUX You CANNOT edit a path. If you make a mistake, you must first remove the path and click Add to specify the correct path
 The full path must exist before the policy will be enforced 	• You CANNOT specify a path that does not exist This will prevent you from saving the policy
When creating the policy the full path doesn't have to exist, however.	ERROR ×
At a minimum:	
 The first component of the path has to already exist / username/ This means that the username or team folder has to already exist before you can save the policy 	Failed to add new retention policy. Failed to add new Retention policy definition. Reason: Retention policy definition is invalid. conditions: Incorrect path specified - only paths for existing users / team folders are accepted

Configure Metadata

Data that provides additional information about files and folders is called Metadata.

- To specify files and folders that this policy should apply to, you can use metadata sets, attributes, and tags.
- You can use metadata to apply a policy to all files that meet the metadata conditions even if they are not in the same folder.

You can select metadata from the following existing attributes or sets:

- Default sets = provided with FileCloud and applies to every folder and cannot be modified
- Built-In sets = provided with FileCloud and includes the Document Life Cycle and Image metadata sets
- Custom attributes and sets = created by administrators in the Admin Portal

For more information about metadata, see Managing Metadata.

6. Set the Expiry Actions

When you configure a Retention policy's expiration actions, all of the options are available.

Actions Expiry Date Expiry Date Fixed Date Imme Period Fixed Date Imme Period of Retention Custom No. of Days Renew Expiry On Access Expiry On Access Expiry On Access Expiry Actions Expiry Actio	 To set a Time Period: In the Actions section, click Time Period. In Time Period of Retention, click the down arrow. From the list, you can select a built-in option: a. 30 days b. 60 days c. 1year d. 2years
Time Period O Fixed Date O Indefinite Time Period of Retention Custom	 3. From the list, you can select a built-in option: a. 30 days b. 60 days
Renew Expiry On Access ● ☑ Policy Expiry Actions ● ● No Action ● Permanently Delete	
	 To set a fixed date: In the Actions section, click Fixed Date. Click in the Expiry Date text box. A calendar will be shown with the current month. Select a date from the calendar.
	To set an Indefinite date: 1. In the Actions section, click Indefinite.

Expiry Date expiry Date rime Period Fixed Date Indefinite Time Period of Retention 30 days	when the policy expires based on the <u>last</u>			
Renew Expiry On Access Policy Expiry Actions	Renew Expiry on Access	Expiration Date		
No Action Permanently Delete	For example, if on March 2, 2019, for an	Then the policy will expire on May 2,		
	X-ray, you set expiry to:	2019 UNLESS:		
	Time Period = 60 daysRenew on Access = selected	 If a doctor previews the file before May 2, say on May 1, 2019 		
		Then the 60-day time period will be reset to July 1, 2019.		
	P The ACTUAL date is reset by a user every time they access the file.			
	To set Renew Expiry On Access: 1. In the Actions section, next to Rene is selected.	ew Expiry on Access, make sure the checkbo		
Actions	When a Retention policy expires, you can o attached files and folders.	configure it to allow access to or delete the		
Expiry Date 🖲	To set Policy Expiry Actions:			
Time Period of Retention 30 days	1. In Policy Expiry Actions, select eith	er:		
Renew Expiry On Access 🖲 🖂	a. <i>No Action</i> : Allow users to access the files again and delete the want			
No Action Permanently Delete	b. <i>Permanently Delete</i> : Delete all the files that have this policy attached from the system, without retaining them in the Trash bin			

Create a Trash Retention Policy

2

A Trash Retention policy is designed to help you control if files in the Trash Bin can be permanently deleted from FileCloud.

If files in the Trash Bin are permanently deleted from FileCloud, they cannot be recovered

The following table identifies what actions are blocked for a Trash Retention policy.

Policy Type	Reads	Moves	Copies	Updates	Deletes	Policy	Expiration
	Blocked	Blocked	Blocked	Blocked	Blocked	Length	Actions
Trash Retention	NO	NO	NO	NO	YES	 Time Period Fixed Date Indefinit e 	 Permanentl y Delete No Action

Creating the Policy

Manag	ge R	etenti	on Policies		Cron	Last Run Date/	Time: Jan 12,	2021 6:00 AM	Seffective Policy	+ Add Policy
Filter	Q	Filter by	/ policy name		Show 10) Items	~			/
Policy Name			Description			Status	P	olicy Type	Act	ions
			-	No matching re	esults found					

To create a Trash Retention Policy:

- 1. Log in to the *Admin Portal*.
- 2. From the left navigation pane, select *Retention*.
- 3. On the Manage Retention Policies screen, click the Add Policy button.

4. Completely fill out the Policy Attributes section.

Policy Attributes	
Policy Name	
Policy Type	
Trash Retention	\sim
Trash Retention allows administrators to control who can permanently delete files off the system where they cannot be recovered.	
Description	
Hide Policy From Users 🛈	
Enabled	\checkmark
Alert On Violation 🔀	
Send email alert 🖲	
Alerts	
Type in a comma-separated list of email addresses of users who need to know that a policy expires.	

Property	Description
Policy Name	A string of characters, letters, and numbers that provide a title for the policy
Policy Type	Select Trash Retention
Description	 Required A string of characters, letters, and numbers that provide details about why the policy is necessary This description is displayed in the User Portal when the cursor hovers over the Policy Name in the Details tab

Property	Description
Hide Policy from Users	 Prevents policy details from being shown and leaked. Selecting this option removes the display of applied policies and their expiration dates from the Details tab in the User Portal. Selecting this option also blocks the API call to the backend to find out which policies are applied. This is how data leaks are prevented. Although the policy name and expiration date are not shown, the restrictions are still enforced. For example, if the policy you are hiding from users prevents them from deleting the file, although the policy information is not shown, the user will not be able to delete the file.
	Administrators need to be aware that users might report issues with the system when a retention policy is blocking their ability to access or delete a file or folder. The user will not be aware of why certain options are greyed out if they don't see the policy restrictions listed. However, if the user is able to select the option and it is restricted by a policy, they will see an error message telling them why when they try to select the option.
Alert on Violation	Displays an alert in the Admin portal on the Governance dashboard. Administrators need to be aware that not all violations are logged here. The reason for this is that all permissions for a file are collected in one file- including user permissions and sharing permissions. In some cases, a sharing permission that was set first might stop a file from being deleted before a retention policy that was added later. The reason why the file cannot be deleted, or which set of permissions or policy is stopping the deletion, is not FileCloud's main priority. FileCloud's main concern is protecting the file and finding out if it cannot be deleted. This is why you might not always see a violation in the Dashboard, but the file will always be protected. If a user is constantly trying to delete a file that is protected by a retention policy then the chances of seeing the violation in the Governance Dashboard increase.
Send email alert	 Notifies all provided recipients that there are only 7 days until the policy expires. The same information is available on the Governance dashboard. The Governance Dashboard list each file individually, and displays the date and time when a policy will expire so the Admin knows and can take action if any is needed.
Alerts	A list of email addresses separated by a comma who will receive the email notification that there are only 7 days until the policy expires.

5. Attach folders or files in the Apply Policy To section.

The Path and the Metadata tabs allow you to define the conditions that specify how the policy will be applied in the system.

Apply Policy To	
Paths Metadata	
Add Path	
Path	Actions
/teams/Data Governance	×
🛛 🗨 Page 🔢 1 🕞 🕅	

Add a Path

Add Path allows you to define a folder that a policy will apply to AS WELL AS all the files and sub-folders it contains

What you CAN do in the Path field	What you CANNOT do in the Path field		
 Paths work for managed storage ONLY Since managed storage includes Team Folders, you CAN add a path to a Team Folder A Path takes the form of: /username/sub-folder You can add more than 1 path You can set BOTH a path and specify metadata 	 You CANNOT add a path to network folders You CANNOT add a path to external folders You CANNOT add a path to shared folders You CANNOT add a path to protected folders, such as /boot, /root, and /var in LINUX You CANNOT edit a path. If you make a mistake, you must first remove the path and click Add to specify the correct path 		
 The full path must exist before the policy will be enforced 	• You CANNOT specify a path that does not exist This will prevent you from saving the policy		
When creating the policy the full path doesn't have to exist, however.	ERROR ×		
 At a minimum: The first component of the path has to already exist / username/ This means that the username or team folder has to already exist before you can save the policy 	Failed to add new retention policy. Failed to add new Retention policy definition. Reason: Retention policy definition is invalid. conditions: Incorrect path specified - only paths for existing users / team folders are accepted		

Configure Metadata

Data that provides additional information about files and folders is called Metadata.

- To specify files and folders that this policy should apply to, you can use metadata sets, attributes, and tags.
- You can use metadata to apply a policy to all files that meet the metadata conditions even if they are not in the same folder.

You can select metadata from the following existing attributes or sets:

- Default sets = provided with FileCloud and applies to every folder and cannot be modified
- Built-In sets = provided with FileCloud and includes the Document Life Cycle and Image metadata sets
- Custom attributes and sets = created by administrators in the Admin Portal

For more information about metadata, see Managing Metadata.

6. Set the Expiry Actions

When you configure a Retention policy's expiration actions, all of the options are available.

	To set a Time Period:
Actions Expiry Date Fixed Date Ime Period Fixed Date Ime Period of Retention Custom Custom Renew Expiry On Access O Policy Expiry Actions O Policy Expiry Actions O Policy Expiry Delete	 In the Actions section, click Time Period. In Time Period of Retention, click the down arrow. From the list, you can select a built-in option: a. 30 days b. 60 days c. 1year d. 2years From the list, you can also select Custom. a. In No. of days, type in a whole number greater than 0. To set a fixed date: In the Actions section, click Fixed Date. Click in the Expiry Date text box. A calendar will be shown with the current month. Select a date from the calendar. To set an Indefinite date: In the Actions section, click Indefinite.

Actions Expiny Date Time Period O Fixed Date O Indefinite Time Period of Retention Custom V	Renew Expiry on Access: this is a set numb when the policy expires based on the <u>last a</u> Available only if the <i>Time Period</i> option	
No. of Days	Renew Expiry on Access	Expiration Date
Renew Expiry On Access Policy Expiry Actions No Action Permanently Delete	For example, if on March 2, 2019, for an X-ray, you set expiry to:	Then the policy will expire on May 2, 2019 UNLESS:
	 Time Period = 60 days Renew on Access = selected 	 If a doctor previews the file before May 2, say on May 1, 2019
		Then the 60-day time period will be reset to July 1, 2019.
	 The ACTUAL date is reset by a user eve To set Renew Expiry On Access: In the Actions section, next to Reneis selected. 	ew Expiry on Access, make sure the checkbox
Actions	When a Trash Retention policy expires, you permanently delete the attached files and	
Expiry Date 🗐 Time Period O Fixed Date O Indefinite	To set Policy Expiry Actions:	
Time Period of Retention Custom No. of Days Renew Expiry On Access ①	want	er: ccess the files again and delete them if they all the files that have this policy attached
Policy Expiry Actions () No Action Permanently Delete	-	taining them in the Trash bin

How Retention Policies Work

Retention policy is a name that can apply to any of these types of policies:

- Admin Hold
- Legal Hold
- Archival
- Retention
- Trash Retention

Retention policy types allow you to:

- 1. Block specific actions on files and folders
- 2. Specify what happens when the policy expires

What Do You Want to Understand?

What All Policies Have In Common
 How Policies Differ
 How Policies Interact
 Monitor retention policy activity

What All Policies Have In Common

All Retention Policy types have these attributes:

Policies Inherit

If you set a policy on a folder, all sub-files and sub-folders inherit the policy when it is enabled.

A policy setting inside a hierarchical structure is:

- passed from parent to children
- from children to grandchildren

This is termed *inheritance*. Inheritance will always occur, but it can be blocked or enforced based on the policies that are applied at each level.

For example, The Cherry Road Brokerage company creates this folder structure in FileCloud:

,	 Company Resources 	^	Name
	Accounts Payable		💼 2367 W Main Building
	Expenses		
	🗸 📙 Legal Contracts		
	📙 RealEstate Holdings		
	Personnel Files		

PARENT to CHILD INHERITANCE	CHILDREN to GRANDCHILDREN INHERITANCE

In the folder for all of the company's real estate holdings, all of these contracts are for leases that last for 1 year.

• This means the Administrator needs to keep all the files in the RealEstate Holdings folder for 1 year.

To do this, the Administrator creates a retention policy that blocks any file in this folder from being deleted for 1 year.

When the policy is created:

- The RealEstate Holdings folder cannot be deleted for 1 year
- The document in this folder cannot be deleted for 1 year: 2367 W Main Building.docx
- Any new files added to the RealEstate Holdings folder cannot be deleted for 1 year

To prevent a file with a longer retention period than its folder from being deleted when the folder's retention period is reached:

• A folder with a retention policy on it can only be deleted when the file it contains with the longest retention period is deleted. Therefore, the retention policy on a folder can change when a file it contains is given a longer retention period. But the other files the folder contains maintain their original briefer retention period.

For example, The RealEstate Holdings folder has a 1 year retention period which is applied to all its files. Then the retention policy on one file is increased to 5 years. As a result, the retention policy on the RealEstate Holdings folder is increased to 5 years, but the retention policies on the other files it contains remain at 1 year.

Now let's say that due to tax regulations, all legal contracts need to be retained for 5 years.

• This means the Administrator needs to keep all the files in the Legal Contracts folder for 5 years.

To do this, the Administrator creates a retention policy that blocks any file in this folder from being deleted for 5 years.

When the policy is created:

- No file in the Legal Contracts folder can be deleted for 5 years
- The RealEstate Holdings folder now cannot be deleted for 5 years
- No file in the RealEstate Holdings folder can be deleted for 5 years
- The document in the RealEstate Holdings folder: 2367 W Main Building.docx now has 2 policies applied
- On the 2367 W Main Building.docx file, the retention policy to block any files from being deleted for 5 years becomes effective and the policy to retain the file for 1 year is not effective
- The document in the RealEstate Holdings folder: 2367 W Main Building.docx now cannot be deleted for 5 years

Policies Stick

Once you apply a policy to a file or folder, no matter where that object goes in the FileCloud System, the policy information will be retained.

• The policy will be retained, but may not be in effect if a higher-ranking policy is inherited or applied *Note*: *When a file is restored from the recycle bin, it does not maintain the retention policy.*

For example, The Cherry Road Brokerage company creates this folder structure in FileCloud:

 Company Resources Accounts Payable Expenses Legal Contracts RealEstate Holdings Personnel Files 	^		ame 2367 W Main Building	
ORIGINAL POLICY ASSIGNMENT			POLICY ASSIGNMENT	AFTER MOVES
 In the folder for all of the company's real estate holdings, all these contracts are for leases that last for 1 year. This means the Administrator needs to keep all the files RealEstate Holdings folder for 1 year. To do this, the Administrator creates a retention policy that any file in this folder from being deleted for 1 year. When the policy is created: The RealEstate Holdings folder cannot be deleted for 1 year whan Building.docx Any new files added to the RealEstate Holdings folder can be deleted for 1 year 	in the block /ear r: 236	:s	 their rent for the entire The administrator file to the Accounts The building will st file still needs to be The Accounts Paya retention policy ba metadata set for fi When the file is moved The document 236 now lives in the Account the document 236 keeps the retention The document 236 inherits the Account policy based on metadata 	is asked to move the s Payable folder till be occupied, so the e retained for 1 year able folder has a ased on a custom nancial documents : 57 W Main Building.docx counts Payable folder 57 W Main Building.docx n policy for 1 year 57 W Main Building.docx nts Payable retention etadata even though it metadata condition of

Files and Folders Are Attached to Policies

The Path and the Metadata tabs allow you to define the conditions that specify how the policy will be applied in the system.

Apply Policy To	
Paths Metadata	
Add Path	
Path	Actions
/teams/Data Governance	×
Page 1 of 1 D	

Add a Path

Add Path allows you to define a folder that a policy will apply to AS WELL AS all the files and sub-folders it contains

What you CAN do in the Path field	What you CANNOT do in the Path field	
 Paths work for managed storage ONLY Since managed storage includes Team Folders, you CAN add a path to a Team Folder A Path takes the form of: /username/sub-folder You can add more than 1 path You can set BOTH a path and specify metadata 	 You CANNOT add a path to network folders You CANNOT add a path to external folders You CANNOT add a path to shared folders You CANNOT add a path to protected folders, such as /boot, /root, and /var in LINUX You CANNOT edit a path. If you make a mistake, you must first remove the path and click Add to specify the correct path 	
• The full path must exist before the policy will be enforced	• You CANNOT specify a path that does not exist	
When creating the policy the full path doesn't have to exist, however.	This will prevent you from saving the policy	
At a minimum:		
 The first component of the path has to already exist / username/ This means that the username or team folder has to already exist before you can save the policy 	Failed to add new retention policy. Failed to add new Retention policy definition. Reason: Retention policy definition is invalid. conditions: Incorrect path specified - only paths for existing users / team folders are accepted	

Configure Metadata

Data that provides additional information about files and folders is called Metadata.

- To specify files and folders that this policy should apply to, you can use metadata sets, attributes, and tags.
- You can use metadata to apply a policy to all files that meet the metadata conditions even if they are not in the same folder.

You can select metadata from the following existing attributes or sets:

- Default sets = provided with FileCloud and applies to every folder and cannot be modified
- Built-In sets = provided with FileCloud and includes the Document Life Cycle and Image metadata sets
- Custom attributes and sets = created by administrators in the Admin Portal

For more information about metadata, see Managing Metadata.

For example, The Cherry Road Brokerage company creates this custom metadata in FileCloud:

Term	Description	Cherry Road Example
Set	A set of metadata attributes that might be logically grouped and can be attached as a single entity to File Objects. In this example, The Cherry Road Brokerage company creates a set called <i>Building Profile</i> that contains 5 attributes	 Building Profile Address Photo Square Feet Leasing Status Maintenance Status
Attribute	A single piece of information that describes the File Object. In this example, The Cherry Road Brokerage company creates an attribute called <i>Address</i> which identifies where the building is, such as 2367 W Main A tag is also defined called <i>State</i> which allows searches for properties by <i>State</i> , such as Texas.	Address • State
Attribute	A single piece of information that describes the File Object. In this example, The Cherry Road Brokerage company creates an attribute called <i>Photo</i> A tag is also defined called <i>Color</i> which allows searches for properties that have color photos.	Photo • Color

Term	Description	Cherry Road Example
Attribute	A single piece of information that describes the File Object. In this example, The Cherry Road Brokerage company creates an attribute called <i>Square Feet</i> Two tags are also defined to allow for property searches by a range of square feet.	Square Feet • 0-1500 • 1500-3000
Attribute	A single piece of information that describes the File Object. In this example, The Cherry Road Brokerage company creates an attribute called <i>Leasing Status</i> which identifies the building as occupied or vacant.	Leasing Status
Attribute	A single piece of information that describes the File Object. In this example, The Cherry Road Brokerage company creates an attribute called <i>Maintenance Status</i> which identifies the building as In Repair or No Repair.	Maintenance Status

Now, when an administrator needs to configure a Legal Hold policy for properties that are 1,500 square feet or larger in the state of Texas, they can use this metadata to apply the policy to all files that meet these conditions even if they are not in the same folder.

Attribute	Value	Actions
Texas		0

General Attributes

The following properties exist for all retention policy types and do not change how the policy functions.

Add Retention Policy		×
Policy Attributes		
Policy Name		
DPO_Admin		
Policy Type		
Retention Archival Legal Hold Trash Retention Admin Hold		
Suspend any action to files due to other rete Description	ntion policies that might affect them.	
Hide Policy From Users 🛈		
Alert On Violation		1
Send email alert]
Alerts		
Type in a comma-separated list of email add	resses of users who need to know that a policy expires.	
roperty	Description	
blicy Name	A string of characters, letters, and numbers that provide a title for the poli	су
escription	 Required A string of characters, letters, and numbers that provide details about the policy is necessary This description is displayed in the User Portal when the cursor hovers the Policy Name in the Details tab. 	-

Property	Description
Hide Policy from Users	 Prevents policy details from being shown and leaked. Selecting this option removes the display of applied policies and their expiration dates from the Details tab in the User Portal. Selecting this option also blocks the API call to the backend to find out which policies are applied. This is how data leaks are prevented. Although the policy name and expiration date are not shown, the restrictions are still enforced. For example, if the policy you are hiding from users prevents them from deleting the file, although the policy information is not shown, the user will not be able to delete the file.
	Administrators need to be aware that users might report issues with the system when a retention policy is blocking their ability to access or delete a file or folder. The user will not be aware of why certain options are greyed out if they don't see the policy restrictions listed. However, if the user is able to select the option and it is restricted by a policy, they will see an error message telling them why when they try to select the option.
Alert on Violation	Displays an alert in the Admin portal on the Governance dashboard. Administrators need to be aware that not all violations are logged here. The reason for this is that all permissions for a file are collected in one file- including user permissions and sharing permissions. In some cases, a sharing permission that was set first might stop a file from being deleted before a retention policy that was added later. The reason why the file cannot be deleted, or which set of permissions or policy is stopping the deletion, is not FileCloud's main priority. FileCloud's main concern is protecting the file and finding out if it cannot be deleted. This is why you might not always see a violation in the Dashboard, but the file will always be protected. If a user is constantly trying to delete a file that is protected by a retention policy then the chances of seeing the violation in the Governance Dashboard increase.
Send email alert	 Notifies all provided recipients that there are only 7 days until the policy expires. The same information is available on the Governance dashboard. The Governance Dashboard list each file individually, and displays the date and time when a policy will expire so the Admin knows and can take action if any is needed.
Alerts	A list of email addresses separated by a comma who will receive the email notification that there are only 7 days until the policy expires.

Notes:

Retention Policies and Versioning

When a file is protected by any type of retention policy, file versions are updated using the following logic:

- Users will not have the option to 'Make version live' to protect the current file version from being deleted
- Files with a retention policy assigned will automatically work as if the 'Unlimited number of versions' setting is selected

Files without a retention policy applied will follow normal versioning behavior.

How Policies Differ

The most important ways that policy types differ is:

- 1. What actions are blocked
- 2. How long the policy is effective
- 3. What happens when a policy expires

The following table identifies what actions are blocked for each type of retention policy.

Policy Type	Read s Block ed	Move s Block ed	Copi es Block ed	Upda tes Block ed	Delet es Block ed	Policy Length	Expiration Actions
Admin Hold	NO	YES	NO	YES	YES	Indefinite	No Action
Legal Hold	NO	YES	NO	YES	YES	Fixed DateIndefinite	• No Action
Archival	NO	NO	NO	NO	YES	Time PeriodFixed Date	Archive to a path
Retentio n	NO	NO	NO	NO	YES	Time PeriodFixed DateIndefinite	DeleteNo Action
Trash Retentio n	NO	NO	NO	NO	YES	Time PeriodFixed DateIndefinite	Permanently DeleteNo Action

How Policy Lengths Differ

Any time you configure when a policy should expire, keep in mind that all expiration dates are dictated by when the next Cron job is run.

You can specify when a policy should expire.

- This helps an administrator set up a process to run automatically in the future. For example, if phone records only have to be kept for 5 years, then the Administrator doesn't have to remember to delete current records in 5 years.
- This allows a process to run independent of an employee's length of service. For example, if the same employee is no longer an Administrator in 5 years, but the old records still need to be deleted, they will be.

The following options can be selected depending on which type of Retention Policy you are creating:

Policy Length	Available on Types	Description	
Indefinite	 Admin Hold Legal Hold Retention Trash Retention 	A policy never expires. For example, if you are required to retain accounting records for the entire length of your company's existence, you can never delete your accounting records	Expiry Date 1
Fixed Date	 Legal Hold Archival Retention Trash Retention 	The date a policy expires with no exceptions. This means you are locked out of the policy at 11:59:59 PM on that calendar date. Policy expiration is end of day	Expiry Date Fixed Date Fixed Date Fixed Date Expiry Date Expiry Date
		(midnight), UTC adjusted. The ACTUAL expire time is the time of the next Cron run.	
		 If the next Crom run isn't for another 24 hours, the policy will expire 24 hours later at midnight If you want the policy to expire exactly at midnight, you can always force a Cron run 	

FileCloud Online Version 23.232 Governance

Policy Length	Available on Types	Description	
Time Period - not Renewed on Access	ArchivalRetentionTrash Retention	A set number of days or years that is used to calculate when the policy expires based on the <u>creation date.</u> For example, if a file is created on March 1, 2019 and you select 30 days, the policy on that file will expire on April 1, 2019.	Expiry Date Expiry Date Fixed Date Indefinite Time Period Retention 30 days Renew Expiry On Access
		You can select from: • 30 days • 60 days • 90 days • 1 year • 2 years • Custom	
	ArchiveRetentionTrash Retention	A set number of days or years that is used to calculate when the policy expires based on the <u>last</u> access date.	Expiry Date Ex
		For example, if on March 2, 2019, for an X-ray, you set expiry to:	60 days V Renew Expiry On Access
		Time Period = 60 daysRenew on Access = selected	
		Then the policy will expire on May 2, 2019 UNLESS:	
		 If a doctor previews the file before May 2, say on May 1, 2019 	
		Then the 60-day time period will be reset to July 1, 2019.	
		The ACTUAL date is reset by a user every time they access the file.	

How Expiration Actions Differ

When a policy expires, you can configure it to move or delete files. This is another way that policies interact with files. Expiration actions allow you to provide any special instructions for use of the content after the policy expires.

Policy Type	Expiration Actions	Notes
Admin Hold	Actions Expiry Date ① © Time Period © Fixed Date @ Indefinite	An administrative hold is designed to help an administrator block access to files and folders so that they can determine what should happen next.
	Policy Expiry Actions No Action	An Admin hold only blocks user access, it does not block other policies from expiring. However, if an Admin Hold is in place, any other policies will expire gracefully without completing any move or delete expiry options.
		 For Admin Holds, a policy expiration date cannot be set The policy can only be removed by an administrator Since the policy does not expire on a specific date, there are no automatic actions on expiration
		For example:
		 An administrator looks at the Governance dashboard and sees that a Retention with Deletion policy is about to expire on files that have been kept for 3 years. The Retention with Deletion policy will delete 200 files when it expires in 2 days. However, the administrator notices that some of these files have been recently updated. The Administrator puts an Admin Hold policy in place on the files in the Retention with Deletion policy that is about to expire. The Administrator can now investigate the files without worrying about users updating them at the same time. However, it takes the Administrator 3 days to identify which files should not be deleted and which can be deleted. During this time, the Retention with Deletion policy expires, but because of the Admin Hold, no files are removed. The Administrator removes the Admin Hold from the files. The Administrator removes the files that don't need to be saved from FileCloud. A new Retention with No Deletion policy is created for the remaining files that need to be saved.

Policy Type	Expiration Actions	Notes
Legal Hold	Actions Expiry Date 0 • Time Period • Fixed Date 0 Indefinite Expiry Date Expiry Date Policy Expiry Actions 0 • No Action	 A Legal Hold is designed to retain data, therefore, there is no deletion or move option available when the policy expires. Legal Holds cannot be reversed once applied unless they are set to expire after a fixed number of days
Retention	Actions Expiry Date ① © Time Period O Fixed Date O Indefinite Time Period of Retention 30 days Renew Expiry On Access ① Policy Expiry Accions ① Policy Expiry Accions ① Policy Expiry Delete	 Retention policies are designed to keep digital content around for a specified amount of time. When a retention policy expires, it can automatically: Allow users to access the files again and delete them if they want (No Action) Delete all the files that have this policy attached from the system, without retaining them in the Trash bin (Permanently Delete) Retention policies cannot be reversed once applied

Policy Type	Expiration Actions	Notes
Archival	Actions Expiry Date ()	An Archival policy type is designed to help you create a more cost effective systems for long term.
	Time Period O Fixed Date Indefinite Time Period of Retention 30 days	Therefore, you can create a policy to move and store old organizational content in the following ways:
	Policy Expiry Actions Policy Expiry Actions No Action Archive Archival Path Path to which file must be archived	 If you choose No Action, you will see an error that it is not supported and you will not be able to create the policy After the specified time period is reached, content gets moved to a specific folder or location (Archive)
		This type of policy helps an administrator plan for the future by setting up a process to run automatically when the time comes.
		For example:
		 If phone records only have to be accessible in the system for 5 years, but stored for at least 10 years, then the Administrator doesn't have to just remember to move the current phone records in 5 years into storage. The administrator can just create an Archival policy to move them automatically in 5 years.
		This also allows a process to run independent of an employee's length of service.
		For example: if the same employee is no longer an Administrator in 5 years, but the old records still need to be moved, they will be.
Trash Retention	Actions Expiry Date ① ● Time Period ○ Fixed Date ○ Indefinite Time Period of Retention 30 days Renew Expiry On Access ① Policy Expiry Actions ① ● Permanently Delete	 The Trash Retention policy is designed to help you control if files in the Trash Bin can be permanently deleted from FileCloud. You can allow the policy to automatically and permanently delete all files in the Trash bin when the policy expires You can allow the policy to expire with no actions - thereby using this policy to control how long files and folders are retained in the trash before being completely removed

Policy Types Cheat Sheet

An as administrator, you can create Retention policies to automate some of the processing related to protecting files and their folder groupings. This policy-based automation is designed to help secure digital content for compliance, but it can also enhance the management of digital content for other internal reasons.

• Retention policies are created and attached to files and folders.

- These special policies allow you to define the conditions that enforce a set of restrictions on how each file or folder can be manipulated.
- For example, you can create a Retention Policy that disables a user's ability to delete or edit any of the files and folders named in the policy.

To resolve the issue of conflicting policies, FileCloud ranks retention policies by what best protects and retains the digital content. There are five different types of retention policies that can be configured and assigned.

Policy Type	Rank	Description
Admin Hold	 1 Outranks all other policies Is outranked by no other policy 	 Prevents any update or delete of digital content for an indefinite period of time Admin Hold policies applied to folders can be removed Admin policies applied to files can be removed Create an Admin Hold policy
Legal Hold	 2 Outranks policies 3,4,5,6,7 Is outranked by Admin Hold 	 Freezes digital content to aid discovery or legal challenges During a legal hold, file modifications are not allowed Holds cannot be reversed once applied Create a Legal Hold policy
Retention - Indefinite	 3 Outranks policies 4,5,6,7 Is outranked by Admin and Legal Holds 	 Allows an organization to identify specific content that is required to be stored for a specific period of time before it can be disposed. During the retention period, the content cannot be deleted. Retention - Indefinite keeps the content indefinitely Retention policies cannot be reversed once applied Create a Retention policy
Archival	 4 Outranks policies 5,6,7 Is outranked by Admin Hold Is outranked by Legal Hold Is outranked by Retention -Indefinite 	 Moves and stores old organizational content, for example, to a more cost effective systems for long term No Deletion is allowed until a specific time period is reached After the specified time period is reached, content gets moved to a specific folder or location Create an Archival policy

Policy Type	Rank	Description
Retention - No delete on expiry	 5 Outranks policies 6 and 7 Is outranked by Admin Hold Is outranked by Legal Hold Is outranked by Retention - Indefinite Is outranked by Archival 	 Allows an organization to identify specific content that is required to be stored for a specific period of time before it can be disposed. During the retention period, the content cannot be deleted. Retention - No delete on expiry doesn't delete the content upon policy expiration Retention policies cannot be reversed once applied Create a Retention policy
Retention - Delete on expiry	 Outranks policy 7 Is outranked by Admin Hold Is outranked by Legal Hold Is outranked by Retention - Indefinite Is outranked by Archival Is outranked by Retention - No delete on expiry 	 Allows an organization to identify specific content that is required to be stored for a specific period of time before it can be accessed. During the retention period, the content cannot be deleted. Retention - Delete on expiry deletes the content upon policy expiration Retention policies cannot be reversed once applied Create a Retention policy
Trash Retention	 7 Outranks no other policies Is outranked by all other policies 	 Controls if files can permanently be deleted completely from FileCloud Can be configured for automatic and permanent deletion of all files in the Trash bins or to expire with no actions Create a Trash Retention policy

How Policies Interact

As an administrator, you can configure how policies interact with file objects and each other in the following ways:

- Using the Enabled Setting to apply a policy to all files or only to keep it on existing files
- Using the Effective property to manage multiple policies attached to a single file or folder

Enabled Setting

Using the Enabled Setting, policies can interact with new and existing files differently.

This setting determines whether new files and folders that meet ANY of the policy conditions will have the policy assigned.

If enabled, the policy is assigned to files and folders

If not enabled, FileCloud will:

- 1. Stop applying the policy to new file objects
- 2. Keep the policy in place for file objects already attached

The Enabled Setting

Policy Attributes	
Policy Name	
Policy Type	
Retention	\sim
Retention allows an organization to identify specific content that is required to be stored for a specific period of time before it can be accessed. During the retention period, the content cannot be deleted or archived.	2
Description	
Hide Policy From Users 🖲	
Enabled 🖲	

- This option is available for all policy types
- By default, it is selected

The Enabled setting does not stop any currently assigned policies from being in effect, it only stops the application of the policy to any new file objects (files and folders).

For example, The Cherry Road Brokerage company creates this folder structure in FileCloud Server:

🗸 🔤 Company Resources	^	Name
Accounts Payable		💼 2367 W Main Building
Expenses		
✓ Legal Contracts		
📙 RealEstate Holdings		
Personnel Files		

- 1. The administrator creates a retention policy to stop any file from being deleted in the RealEstate Holdings folder.
- 2. The file for 2367 W Main Building is added to the RealEstate Holdings folder, and the retention policy is applied to it.
- 3. Now, the administrator wants to allow any new files added to the RealEstate Holdings folder to be deleted.
- 4. The administrator edits the retention policy, and clears the checkbox for *Enabled*, thereby disabling the policy.

How does the original retention policy interact with files when DISABLED?

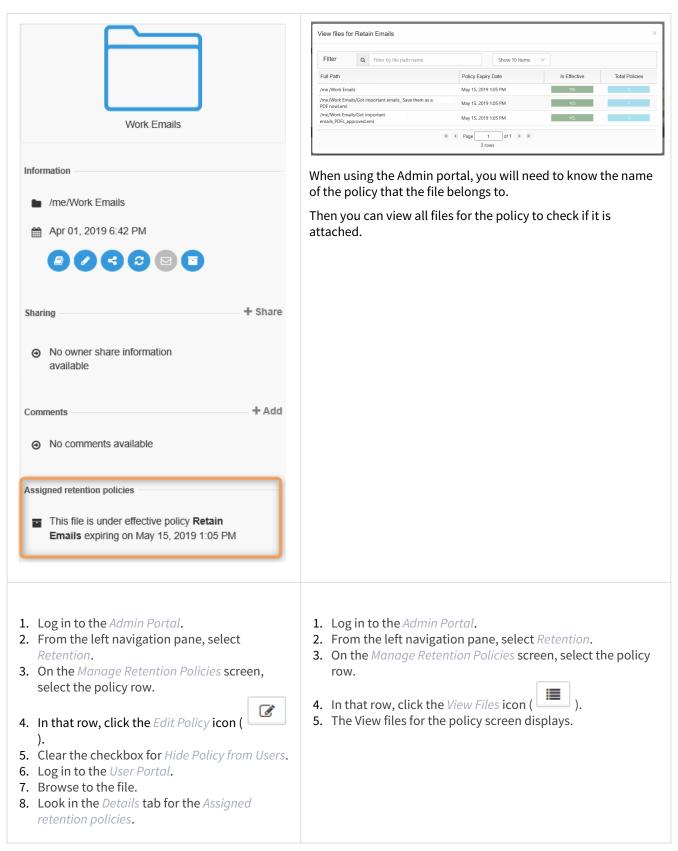
- 1. A new file called 98675 E Orchard Drive is added to the RealEstate Holdings folder, and the retention policy is NOT applied.
- 2. Since the new file, 98675 E Orchard Drive does not have the retention policy applied, it CAN be deleted.
- 3. However, the 2367 W Main Building file still has the policy applied and CANNOT be deleted.

How does the original retention policy interact with files when RE-ENABLED?

- 1. The administrator edits the retention policy, and selects the checkbox for *Enabled*, thereby re-enabling the policy.
- 2. FileCloud re-applies the policy to all files in the RealEstate Holdings folder.
- 3. The 2367 W Main Building file still has the policy applied and CANNOT be deleted.
- 4. The new file, 98675 E Orchard Drive now has the policy applied and CANNOT be deleted.
- 5. Now, another new file is added to the RealEstate Holdings folder for 3654 S Blossom Road, and the policy is applied and the file CANNOT be deleted.

To determine if a specific file has a policy applied to it:

In the USER Portal	In the ADMIN Portal



Effective Property

You can attach multiple policies to a single file or folder, however, only one policy will be in effect at a time. You can tell which policy is active by the Effective label.

Multiple Policies Interaction

Since you can create different types of policies and attach multiple types of policies to one file or folder, policies will interact with each other.

To manage this, FileCloud ranks retention policies by what best protects and retains the digital content.

- If a file or folder has more than one policy applied to it, only one policy will be in effect.
- This is determined by policy rankings and is displayed on the Retention dashboard as Effective.

The Effective Property

The following table describes what will happen if multiple policies are applied to a file or folder. Once a policy expires or is removed, the next policy in order of rank, will become effective. However, some policies can never be removed and will block the other policies from becoming effective.

For example, The Cherry Road Brokerage company adds the file called 2367 W Main Building.docx to FileCloud Server.

Let's see what happens when different policies are attached to it.

	Admin Hold	Legal Hold	Retenti on No Deletio n	Archiv al	Retenti on with Deletion	Trash Bin Retention	Which Policy is Effective?
Rank	1	2	4	5	6	7	
Attac hed?	Yes	Yes expires = Indefinit e	No	No	Yes expires = Indefinit e Renew on Access is not selected	No	 Admin Hold - until it is removed Legal Hold - set to never expire Retention with Deletion - will never take effect unless the Legal Hold is removed by the admin

No	No	Yes = 90 days Renew on Access is not selecte d	Yes expires = 30 days	No	No	 Retention No Deletion until it expires in 90 days Archival, although it was set to move files in 30 days, must wait for the Retention No Deletion policy to expire first, so it will actually take effect in 91 days
Yes	No	No	No	Yes expires = 30 days Renew on Access is selected	Yes set to permanently Delete in 30 days Renew on Access is not selected	 Admin Hold - until it is removed Retention with Deletion - deletes files on next Cron run unless a file or folder with this policy attached is accessed, and then the expiration date is moved out 30 more days Trash Bin Retention - permanently deletes files off the system when the Retention with Deletion policy actually expires

Applying a Retention Policy to All Files

You may be required to apply a retention policy to all documents imported into FileCloud. If you have a large number of users in your system, the following method is especially useful, since it provides you with an alternative to putting a retention policy on each user's My Files path.

To use this method, you can take advantage of the fact that the Default metadata set is applied to every file, and add an attribute to the metadata set that will always be set to a certain value.

To apply a retention policy to all files:

In the example shown here, a 7-day retention policy is applied to all uploaded files. 7 days after a file is uploaded, it is deleted from FileCloud.

1. In the admin portal navigation pane, click **Metadata**. The **Manage Metadata Sets** screen opens.

2. Click the Edit icon for the Default metadata set.

🛔 Manage Meta	data Sets			Files Without	Metadata	Add Metadata Set
Filter Q Filte	er by metadata set name	Show 1	0 Items 🗸			
Metadata Set Name	Description	Status	Set Type	User Count	Group Count	Actions
Default	Default metadata set definition will be automatically bound to every single File and Folder.	Enabled	DEFAULT	1	1	Z ×
Image metadata	Image metadata (EXIF)	Enabled	Built-in	1	1	C ×
Document Life Cycle metadata	Stores information regarding document life cycle	Enabled	Built-in	1	1	✓ ×
Microsoft Office Tag metadata	Microsoft Office Tag metadata (MSOT)	Enabled	Built-in	1	1	I ×



Metadata Set		Permissions				
Name*		Users Groups	Paths			
Default						
Description*		Add User				
Default metadata se automatically bound	•		Name		Read Permission	Write Permission
Disabled		jenniferp				
			N • Page	1 of 1 ()		
Attributes			🕅 🕢 Page	1 of 1)		
Attributes			Page	1 of 1)		

- 4. As long as the attribute has a default value that you don't change, it can be any attribute type. In this example, create a **Boolean** attribute named **Document Retention** that has **Default Value** checked, which sets it to **true**.
- 5. Click **Create**, and then click **Save** in the **Edit Metadata Set Definition** dialog box to save the attribute in the Default metadata set.

Add Attribute		×
Name	Document Retention	
Description		
Attribute Type	Boolean 🗸	
Disabled		
Required		
Default Value		
	Create Clo	se

Now the **Document Retention** attribute, with a value of **true**, will be applied to every file that is uploaded to FileCloud.

6. To test that you have set up the metadata correctly, log in to the user portal as any user, upload a file, select it, and view the **Metadata** tab in the details pane, to make sure **Document Retention** has a value of **true**.

🖀 🗸 🖒 My Files		→ ① Details Activity Metadata Comments
My Files 3 items	1 item selected Download C :	
□ Name ~ ∀ img	Modified Size	IMG_20220611_105052026_HDR.jpg
✓ IMG_20220611_105052026_H	Jun 13, 2022 1:20 PM 214 KB	Add Metadata
IMG_20190720_131358329_HDR.jpg	Aug 28, 2020 4:19 PM 314 KB	Author ~ Add
IMG_20190720_130548272.jpg	Aug 28, 2020 4:19 PM 594 KB	Default 🔺 🚺
		Tags 🌖
		Document Retention
		Save
		Document Life Cycle metadata 👻 🚺
		Image metadata 👻 🚯

Once you have confirmed that the metadata is being applied correctly, create the retention policy.

- 7. In the admin portal navigation pane, click **Retention**. The **Manage Retention Policies** screen opens.
- 8. Click Add Policy.

Manage Re	tention Policies		Cron Last Run Date	/Time: Jun 27, 2022 12:02 PM	Seffective Policy Add Policy
Filter Q	Filter by policy name	Sho	ow 10 Items	~	
Policy Name	Description		Status	Policy Type	Actions
Test	This is a test retention policy		Disabled	Retention	Image: Section 1 and a sec
30 Day Expiry	expiry date 30 days		Disabled	Retention	Image: Image
6 year retention policy	Does not allow a file to be deleted for 6 yea	rs after it is created.	Enabled	Retention	୮ 🗉 🗉 🗙

The Add Retention Policy dialog box opens.

9. In the upper portion, give the policy a name and description and leave the **Type** of policy set to **Retention**.

Policy Attributes	
Policy Name*	
Global Retention Policy (7 days)	
Policy Type	
Retention	
Retention allows an organization to identify specific content that is required to be stored for a specific period of time before it can be accessed. During etention period, the content cannot be deleted or archived.	the
Description*	
Delete all documents 7 days.	
lide Policy From Users 🖲	
nabled 🛛	
Nert On Violation 🖲	
Alerts*	
1617	

- 10. In the middle portion, click the **Metadata** tab, and set the condition that the retention policy will apply to each uploaded file.
 - a. In the first drop-down list, choose **Default** to indicate the **Default** metadata set.
 - b. In the next drop-down list, choose **Document Retention** or the name you have given the new attribute.

c. Enter the default value you have given the new attribute. For this example, select the **Document Retention** check box to set it to **true**.

Paths Metadata		
Default		
Document Retention		
Document Retention		

11. Click **Add**.

The condition is	s addec
------------------	---------

Add			
Set	Attribute	Value	Actions
Default	Document Retention	true	8

- 12. In the lower portion, enter the details of what the retention policy will do when the condition is true.
 - a. In **Expiry Date**, choose an option. For this example, choose **Time Period** since we want all files to be deleted a specific number of days after they are uploaded.
 - b. Since a preset option of 7 days does not exist, in **Time Period of Retention** choose **Custom**, and in **No. of Days**, choose **7**.
 - c. In Policy Expiry Options, choose Permanently Delete.

Actions			
Expiry Date*			
🖲 Time Period 🔘 Fixed Date 🔘 Ind	efinite		
Time Period of Retention			
Custom			~
No. of Days*			
7			
Renew Expiry On Access 🚯			
Policy Expiry Actions 🚯			
 No Action Permanently Delete 			

13. Click Save.

Filter	Q Filter by	policy name	Show 10 Items 🗸		
Policy Name		Description	Status	Policy Type	Actions
Test		This is a test retention policy	Disabled	Retention	Image: Image
30 Day Expiry		expiry date 30 days	Disabled	Retention	x 🗉 🤊 x
6 year retention poli	cv.	Does not allow a file to be deleted for 6 years after it is created	Enabled	Retention	🖉 🔳 🤊 🗙

14. To test the the retention policy is working properly, log in to the user portal as any user, upload a file, select it, and view the **Details** tab in the details pane, to make sure the retention policy is applied to the document.

<pre></pre>	1 item selected Download	C :	→ O Details Activity Metadata Comments
Name ~ V bank	Modified Size		bank statement1.xlsx
✓ bank statement1.xlsx	Oct 15, 2021 11:24 AM 34 KB		Info 🔺
bank statement1.pdf	May 17, 2021 2:24 PM 70 KB	0	Modified Oct 15, 2021 11:24 AM
bank statement.xltx	Мау 29, 2020 1:16 РМ 39 КВ _{Ву уои}		Path /jenniferp/bank statement1.xlsx Copy path Permissions E C* C < E 4
			Share Share Not shared
			Versions • Manage Version 1 by jenniferp 2021-Oct-15 10:24:07
			Retention Policy This file is under effective policy Global Retention Policy (7 days) expiring on Jul 4, 2022 2:15 PM

Smart Classification

Beginning in FileCloud 23.232, an updated version of the Smart Classification user interface is available. This section of the documentation covers the new user interface. If you prefer to use the classic user interface, see Smart Classification Classic.

(i) Smart Classification is only available for Advanced licenses, or Essentials licenses with CCE+PATTERNSEARCH components. For information on the different license types, read about the key features on the Pricing page.

Smart Classification in FileCloud

FileCloud's Smart Classification system (also referred to as the content classification engine or CCE) searches for files with specific content or content patterns and tags them with metadata values. Once the files are marked with metadata, they can be identified for further actions, such as processing in FileCloud's data leak prevention (DLP) system.

To use Smart Classification, set up rules that search for content in files and apply metadata to them depending on the search results. When rules are initially enabled, they apply to files added before the rules were created. After that, they apply to newly added and uploaded files.

Example:

You create a rule to mark all files that contain content with 6 consecutive numbers by setting their metadata field **CompanyID** to **yes**. Smart Classification tries to locate instances of 6 consecutive numbers in the content of each new and modified file in FileCloud, and when it finds a match, sets the file's **CompanyID** metadata field to **yes**. Now, FileCloud's Smart DLP can prevent files with **CompanyID=yes** from being read and downloaded.

Setting up Smart Classification

To set up content classification, you create rules in the **Add Content Classification Rule** wizard. These rules specify the patterns to match and the metadata to apply to files if a pattern is matched or is not matched.

odate Content Classification Rule	
1	2 3
General	Classifier Action
Classifier condition Switch to code editor	Number of matches is greater than \bullet 0 \times
After scanning the document for patterns, the match action is executed if the condition is satisfied. Otherwise, the non-match action takes place.	h Add condition Add group
Match action Switch to code editor	Set metadata CompanyID > found > to yes
	Add action
Non-match action Switch to code editor	Set metadata CompanyID > found v to no ×
	Add action
	Back Save rule
	Back Save rule

The saved rules appear in the Smart Classification screen.

FileCloud Smart Classification						
Rules # Patterns			💍 Switch t	o classic	?	Learn more
Filter Q. Filter by rule name					Ad	d rule
Rule name 🔻	Status	Enabled	Last run	Ļ	Actions	
Company ID number	_		Never	Ç (> 🕸	Ĩ
Patient names	~		2 hours ago	Ç (> 🕸	Ū
US ID data	~		3 hours ago		> 🕸	ÎÌ

When a rule runs, it applies metadata to files with content that match its conditions:

🗙 Info			
i Details		É Metadata	Comments
	Missed Ap	opts.docx	
Add Metad	ata a available to	add to item	
Microsoft	Office Tag r	metadata 🔻	0
Company	ID 🔺		0 ×
found			
yes			
			Save

Other FileCloud operations look at this metadata to perform their actions. For example, Smart DLP can prevent a file from being downloaded if **CompanyID** is set to **yes**. Or a search can return all files where **CompanyID** is set to **no**.

Running content classification rules

To automate and schedule running of content classification rules, you must set up a Cron Job. You can also run a rule manually from the **Smart Classification** screen..

(i) Requirements

- Files greater than 10 MB are not available for Smart Classification.
- Administrators must have created at least one set of metadata for the Smart Classification process to operate.

Setting Up Smart Classification

To set up Smart Classification:

- 1. If you have not set up metadata for tagging your Smart Classification content, set it up.
- 2. If you plan to use the ICAP DLP classifier, configure ICAP DLP integration in FileCloud.
- 3. If you plan to use the AI Classifier, configure AI Integration in FileCloud.
- 4. Smart Classification has several predefined regex patterns that you can use in your rules. In addition, you may create and save regex patterns.

For help creating your own regex patterns, see Adding Smart Classification Regex Patterns.

- 5. To put your smart classification regex patterns into groups, so you can refer to multiple patterns at once, see Creating Smart Classification Regex Pattern Groups.
- 6. Create and Test Smart Classification Rules.

Adding Smart Classification Regex Patterns

Smart Classification looks at a pattern you have added and checks if the content of uploaded and modified files includes that pattern. Patterns can be expressed in different ways - for example, in regex format, as text in a query, or as an AI match term.

In a large number of cases, the patterns to be matched are expressed in regex format and locate common identification information such as national ID numbers. To make it easier for you to set up rules, Smart Classification has predefined a number of these commonly-used regex patterns.

There may be regex patterns that are common in your organization but are not included in the predefined patterns, so Smart Classification enables you to define and save any number of regex patterns so you don't have to type them manually each time you enter them in a rule.

You also have the option of entering a regex pattern manually into a rule, which may be efficient for patterns that you are planning to use only once or infrequently.

Selecting from predefined regex patterns

The predefined patterns in Smart Classification are all in regex format. You can view all of them by clicking the **Patterns** link in the **Smart Classification** page menu bar. If you add your own patterns, they will also appear here.

FileCloud Smart Classificatio	on	
E Rules # Patterns		🖔 Switch to classic 🔹 🤋 Learn more
Filter Q Filter by pattern name		Add pattern
All Patterns Add pattern group		
Pattern name 💌	Regex	Actions
Belgium National Number	[0-9]{2}.[0-9]{2}.[0-9]{2}.[0-9]{3}.[0-9]{2}	ç û û
Croatia Identity Card Number	-[0-9]{ 9}	r c' i
Croatia Personal Identification (OIB) Number	Predefined patterns	r C Ó
Denmark Personal Identification Number	[0-9]{6}-[0-9]{4}	y c û
EU Debit Card Number	[0-9]{16}	(1) (1) (1)

Next to the name of each pattern is the regex for the pattern. For example, if you choose to match on the **EU Debit Card Number**, Smart Classification looks for files with content that matches the regex **[0-9]{16}** (which is equivalent to any 16 numerals in a row).

If you are looking for a pattern that matches one of the predefined patterns, choose it in the **Add Content Classification Rule** wizard as the **Classifier pattern** by selecting **Match pattern by name** and choosing the pattern name. **Note**: You can only choose regex patterns with the **Default** and **Solr Pattern Match** classifiers, which use regex

patterns.

Add Content Classification Rule		8
General Cl	2 assifier	3 Action
Classifier Select a classifier to categorize your file's content.	Default Match con	☑ • Intent using regular expressions. •
Classifier patterns Switch to code editor The classifier will search for patterns within the content of your file.		attern by name Choose a pattern
JS ID info		[0-9]{2}.[0-9]{2}.[0-9]{2}-[0-9]{3}.[0-9]{2} Croatia Identity Card Number [0-9]{9} Croatia Personal Identification (OIB) Number [0-9]{10}
• •	« P	Denmark Personal Identification Number [0-9]{6}-[0-9]{4} EU Debit Card Number [0-9]{16}
		Finland National ID [0-9]{6}[-+a][0-9]{3}[0-9a-zA-Z]{1} Finland Passport Number [a-zA-Z]{2}[0-9]{7}
		France Driver's License Number [0-9]{12} France National ID Card (CNI) [0-9]{12} France Passport Number

Creating your own regex pattern before adding it to a rule

The following procedure for creating and saving your own regex pattern uses the example of medical record numbers in the format of 6 digits in pairs of 2 separated by dashes, such as 12-34-56.

To create your own pattern:

1. In the menu bar of the Smart Classification screen, click Patterns to open the Patterns screen, and then click Add Pattern.

FileCloud Online Version 23.232 Governance

Rules # Patterns		U Sv 2 to classic	?	Lear
ter Q Filter by pattern name			Add p	patteri
I Patterns Add pattern group				
	Pagay		Actions	
I Patterns Add pattern group Pattern name German Driver's License Number	Regex [a-zA-Z0-9]{1}[0-9]{2}[a-zA-Z0-9]{6}[0-9]{1}[a-zA-Z0-9]{1}	, ,	Actions	s
Pattern name 💌	-			
Pattern name 💌	[a-zA-Z0-9]{1}[0-9]{2}[a-zA-Z0-9]{6}[0-9]{1}[a-zA-Z0-9]{1}	Ţ	ď	Û

New Content Classification Pattern	8
Pattern name	
Medical Record Number	
Regular Expression (RegEx)	
[0-9]{2}-[0-9]{2}-[0-9]{2}	
Enter a regular expression (RegEx) to match content for the classification engine.	
🖙 Test the pattern 🗸 🗸	
Enter a sentence that includes the pattern.	
Cancel Add patt	ern

- 2. In **Pattern name**, enter a name for a pattern.
- 3. In **Regular Expression (RegEx)** enter the regex for the pattern.
- If you're not familiar with writing regular expressions, you can find a number of sites with information online, such as those at https://www.geeksforgeeks.org/write-regular-expressions/ and https://learn.microsoft.com/en-us/dotnet/standard/base-types/regular-expression-language-quick-reference.
- 4. To see if your regex matches the correct patterns, click **Test the pattern**. The field expands.
- 5. Type in some text that contains content matching your regex into the box and click **Check**.

New Content Classification Pattern	8
Pattern name	
Medical Record Number	
Regular Expression (RegEx)	
[0-9]{2}-[0-9]{2}-[0-9]{2}	
Enter a regular expression (RegEx) to match content for the classification engine.	
☑ Test the pattern	
Default PatternMatch	
Please send me the files for 12-34-56 and 78-91-00	/
Enter a sentence that includes the pattern.	
Check	
Cancel Add patter	0

If your regex is working as expected, the matches you entered are highlighted and a count of the matches

appears below the box.

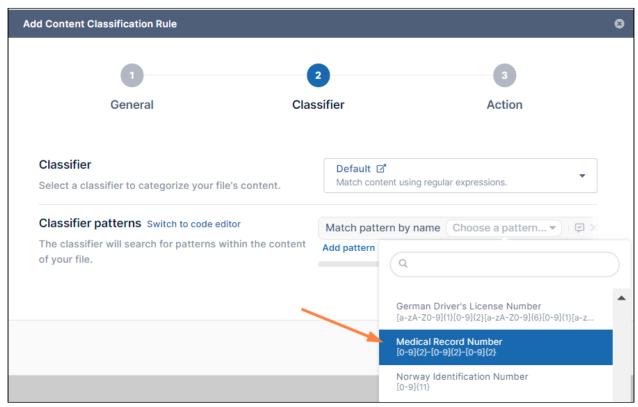
ew Content Classification Pattern	8
Pattern name	
Medical Record Number	
Regular Expression (RegEx)	
[0-9]{2}-[0-9]{2}-[0-9]{2}	
Enter a regular expression (RegEx) to match content for the classification engine.	
Default PatternMatch Please send me the files for 12-34-56 and 78-91-00	
Enter a sentence that includes the pattern.	
✓ 2 matches Check	
Cancel Add pattern	h

If the test for your pattern was successful, click Add pattern.
 The pattern appears in the list of patterns and in the drop-down list of the Add Content Classification Rule
 wizard when you choose a Classifier pattern for the Default or Solr Pattern Match classifier and choose Match pattern by name.

FileCloud Smart Classifica	ation
E Rules	
Filter Q Filter by pattern name	
All Patterns Add pattern group	
Pattern name 💌	Regex
Oerman Driver's License Number	[a-zA-Z0-9]{1}[0-9]{2}[a-zA-Z0-9]{6}[0-9]{1}[a-zA-Z0-9]{1}
Medical Record Number	[0-9]{2}-[0-9]{2}-[0-9]{2}
Norway Identification Number	[0-9]{11}

The new Medical Record Number pattern appears in the list of patterns on the Patterns tab.

FileCloud Online Version 23.232 Governance



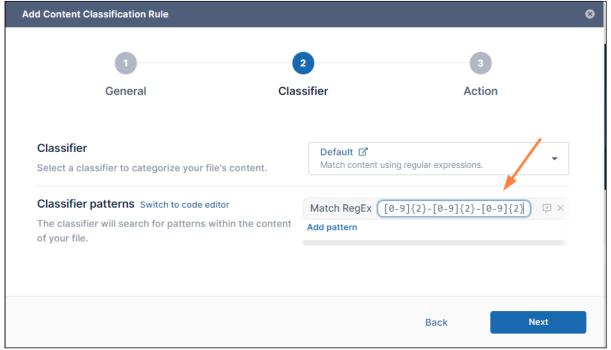
The new Medical Record Number pattern appears in the Choose a pattern drop-down list in the Add Content Classification Rule wizard.

Adding a pattern as you create a rule

You are not required to give regex patterns names and add them to the list of saved patterns to use them in a content classification rule; instead, you can enter the regex manually when you create a rule that uses the **Default** or **Solr Pattern Match** classifier.

For instructions on adding a regex pattern manually to a rule, see the Match with Regex videos for the Default and Solr

Pattern Match classifiers in Guide to Classifiers.



Creating Smart Classification Regex Pattern Groups

You can group regex patterns together in pattern groups, which enables you to add them to Content Classification Rules together. This is useful if you have multiple regex patterns that you frequently add together to rules, for example, if you have multiple rules that search for personally identifiable information (PII), you could add a regex pattern group that includes patterns for national ID number, passport number, and driver's license numbers, and add the group each time you add a new PII rule.

When you create a regex pattern group, you can either create new patterns and add them to the group as you create it or you can add existing patterns to the group.

Creating a regex pattern group

The steps for creating a regex pattern group below use the example of a company that is creating a pattern group for PII that includes:

- The predefined patterns France Driver's License Number, France National ID Card, and France Passport Number
- The new pattern **Company ID**, a 6 digit numerical pattern.

To add a regex pattern group:

1. In the Smart Classification screen, click Patterns in the menu bar, and then click Add pattern group.

Smart Classification	
E Rules # Patterns	
Filter Q Filter by pattern name	
All Patterns Add pattern group	
Pattern name 🔻	Regex
Belgium National Number	[0-9]{2}.[0-9]{2}.[0-9]{2}-[0-9]{3}.[0-9]{2}
Croatia Identity Card Number	[0-9]{9}
Croatia Personal Identification (OIB) Number	[0-9]{10}
Denmark Personal Identification Number	[0-9]{6}-[0-9]{4}

The New Pattern Group dialog box opens.

2. Enter a **Group name**.

New Pattern Group		8
Group name		
PII		
	Canc	el Add pattern group

3. Click Add pattern group.

The new pattern group name is added above the list of patterns.

FileCloud Smart Classification	
E Rules	
Filter Q Filter by pattern name All Patterns PII Add pattern group	
Pattern name 🔻	Regex
Belgium National Number	[0-9]{2}.[0-9]{2}.[0-9]{2}-[0-9]{3}.[0-9]{2}
Croatia Identity Card Number	[0-9]{9}
Croatia Personal Identification (OIB) Number	[0-9]{10}

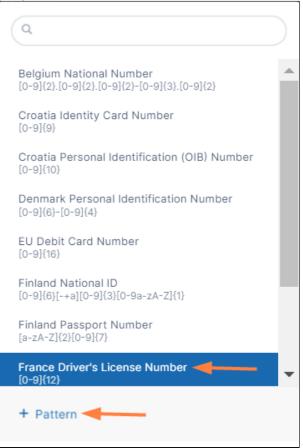
 Click the pattern group name. At this point, the pattern group is empty.

5. Click Add pattern to group.

Smart Classification		
E Rules # Patterns	U Switch to classic	2 Learn more
Filter Q Filter by pattern name		Add pattern
All Patterns PII Add pattern group		
There are no patterns in this group		
You can group similar patterns, making it simpler for you to find them when building content classification rules.		
Add pattern to group		

A drop-down list opens. It lists existing pattern groups for you to choose and enables you to add new pattern

groups and include them.



6. Click France Driver's License Number.

The dialog box closes and France Driver's License Number is added to the list for the group. Another Add

pattern to group link appears below it.

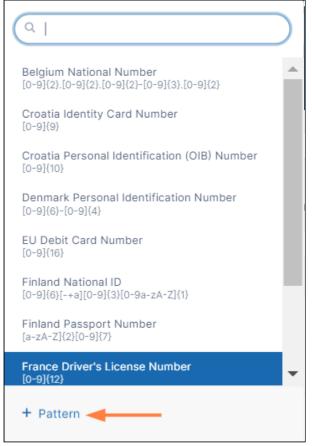
Smart Classification		
E Rules		
Filter Q Filter by pattern name		
All Patterns PII Add pattern group		
Pattern name 💌	Rege	x
France Driver's License Number	[0-9]	{12}
+ Add pattern to group		
	<pre></pre>	

7. Click the Add pattern to group link and click France National ID Card. France National ID Card is added to the group. 8. Click the **Add pattern to group** link below it, and click **France Passport Number**. Now all three of the predefined patterns are added to the **PII** pattern group.

FileCloud Smart Clas	sification	
\Xi Rules 🛱 Patterns		
Filter Q Filter by pattern name	ttern group	
Pattern name 🔻		Regex
France Driver's License Number		[0-9]{12}
France National ID Card (CNI)		[0-9]{12}
France Passport Number		[0-9]{2}[a-zA-Z]{2}[0-9]{5}
+ Add pattern to group		

9. Below the three patterns, click **Add pattern to group**.

10. To create the new **Company ID** pattern, click + **Pattern** at the bottom of the drop-down list.



A New Content Classification Pattern dialog box opens. The checkbox Add to PII Group is automatically

checked to enable you to add the pattern and include it in the group at the same time.

New Co	ntent Classification Pattern	8
De	ttern name	
Pa	ttern name	
	Enter a pattern name	
Re	gular Expression (RegEx)	
Ent	ter a regular expression (RegEx) to match content for the classification engine.	
	♥ Test the pattern Enter a sentence that includes the pattern.	
🗸 Ad	Id to PII Group Cancel Add pattern	

11. In Pattern name, enter Company ID.

12. In Regular Expression (RegEx) enter [0-9]{6}.

13. To open a test box, click **Test the pattern**.

Notice that the box has two tabs: **Default** and **PatternMatch** which correspond to the **Default** and **Solr Pattern Match** classifiers. Test it in the tab that corresponds with the classifier you plan to use, or test it in both. For descriptions of the classifiers, see Guide to Classifiers. 14. Type text that includes a 6-digit number into the **Test the pattern** box.

w Content Classification Pattern	G
Pattern name	
Company ID	
Regular Expression (RegEx)	
[0-9]{6}	
Enter a regular expression (RegEx) to match content for the classification engine.	
🔁 Test the pattern	^
Default PatternMatch	
Please add 123456 to the company list.	
Enter a sentence that includes the pattern.	
Check	
Add to PII Group Cancel	Add pattern

15. To test the pattern, click **Check**.

If the test is successful, the dialog box is similar to the following, with the 6-digit number highlighted and a

message below it indicating the number of matches.

w Content Classification Pattern	8
Pattern name	
Company ID	
Regular Expression (RegEx)	
[0-9]{6}]
Enter a regular expression (RegEx) to match content for the classification engine.	
Default PatternMatch	
Please add 123456 to the company list.	
Enter a sentence that includes the pattern.	
✓ One match Check	
Add to PII Group Cancel Add patter	rn

16. If the test is successful, click **Add pattern**. The pattern is added to the pattern group.

Smart Classification	
E Rules	
Filter Q Filter by pattern name All Patterns PII Add pattern group	
Pattern name 💌	Regex
France Driver's License Number	[0-9]{12}
France National ID Card (CNI)	[0-9]{12}
France Passport Number	[0-9]{2}[a-zA-Z]{2}[0-9]{5}
Company ID	[0-9]{6}
+ Add pattern to group	

It is also added to the list **All Patterns**, so you can add it to a rule individually or as part of the pattern group.

Smart Classification	
E Rules # Patterns	
Filter Q Filter by pattern name All Patterns PII Add pattern group	
Pattern name 💌	Regex
Belgium National Number	[0-9]{2}.[0-9]{2}.[0-9]{2}-[0-9]{3}.[0-9]{2}
Company ID	[0-9]{6}
Croatia Identity Card Number	[0-9]{9}

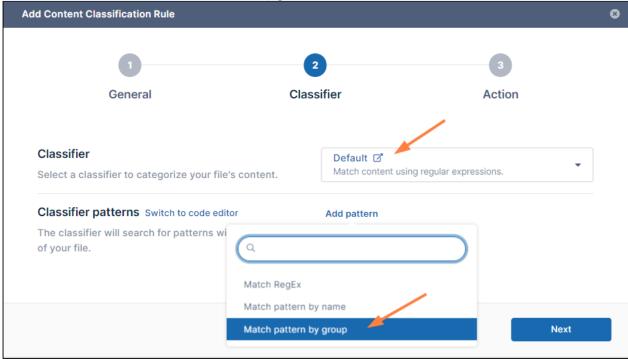
Adding a regex pattern group to a rule

The following procedure shows you how to add a regex pattern group to a rule on the second page of the rule wizard. For full instructions on adding a rule, see Creating a Smart Classification Rule.

To add a regex pattern group to a rule:

1. On the second page of the Add a Content Classification Rule wizard, choose either of the regex classifiers, Default or Solr Pattern Match.

2. Click Add pattern, and choose Match pattern by group.



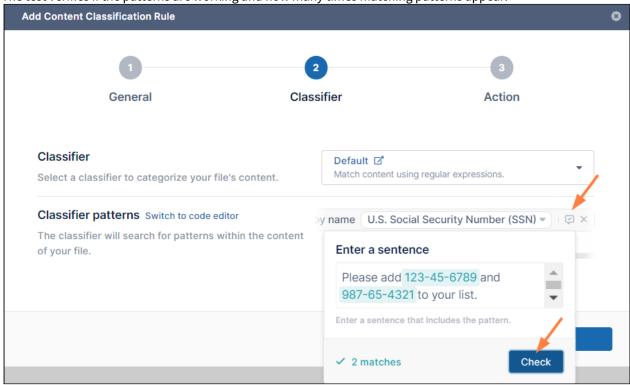
Match pattern by group is now listed in **Classifier patterns**.

- Click the drop-down list next to it. Any groups you have added are listed under the search box.
- 4. Click the group you want to use for the rule:

d Content Classification Rule	
1	23
General Cla	assifier Action
Classifier Select a classifier to categorize your file's content.	Default ☑ → Match content using regular expressions.
Classifier patterns Switch to code editor	Match pattern by group Choose a group ▼ □ ♀ ×
The classifier will search for patterns within the content of your file.	Add pattern
	PII
	Back Next

Once the group is selected, you can test the different patterns in the group together.

- 5. To test the pattern group, click the comment check icon next to the group name.
- 6. Enter a sentence or phrase that includes any number of patterns from the group, and click check.
 - The test verifies if the patterns are working and how many times matching patterns appear:



Creating a Smart Classification Rule

A Smart Classification rule specifies:

- The classifier that categorizes your content a certain way (for example, by regex or by AI)
- The pattern to match
- The metadata to apply to the file depending on whether a pattern match is found For example, a rule could specify that Smart Classification should attempt to match an ID number pattern in the content of a file, and to set the metadata variable **PII** to **yes** or **no** depending on whether or not there is a match.
- (i) When you automate running of a Smart Classification rule, it classifies all existing files in FileCloud, and then runs on each file that is added or updated. The initial run may be lengthy since many files may have to be classified. If you don't automate running of a rule, and only run it manually, during each manual run it classifies all content in FileCloud. If you have a large number of files, each manual run may take a long time.

The following procedure uses an example in which the **Default** classifier, a regex classifier, is used with the predefined pattern for U.S. social security number.

To create a smart classification rule:

- 1. In the navigation panel, click **Smart Classification**. The **Smart Classification** screen opens.
- 2. In the menu bar, click **Rules** if it is not already selected.
- 3. Click **Add rule**.

FILECLOUD				💄 admin 🔻
Device Management GOVERNANCE Dashboard Retention	FileCloud 2 mart Classification			3
Smart DLP Smart Classification	Rules # Patterns		💍 Switcl	n to classic 😮 Learn more
Compliance Center	Filter Q Filter by rule name			Add rule
Audit				
↓ Alert	Rule name 💌	Status Enabled	Last run	Actions
🔒 User Locks	PII - Names	¢ 💽	5 days ago	I D 🕸 🗊
 ☑ Workflows I≡ Reports 	US ID info	¢ 💽	5 days ago	⊊ ⊳ ‡ û
Q. Federated SearchD. Metadata	< -	Page 1 of 0 > >>		

The General screen of the Add Content Classification Rule wizard opens.

- 4. In **Rule name**, enter a name for the rule.
- 5. In most cases, you will enable **Automatic execution** so the rule runs automatically on a schedule on files added and updated since the last run.

If you only want to run the rule manually, leave it disabled.

2	3	
Classifier	Action	
to find it later.		
ecuted erwise, it will		
Add filter Add g	roup	
ins.		
	Cancel	ext
6	to find it later. PII	to find it later. ecuted erwise, it will Add filter Add group ns.

6. Click **Add Filter,** and choose a predefined condition, and set the numerical value.

Note: The final filter value in the drop-down list, Anything, applies no filter (allows all files to be classified).

FileCloud Online Version 23.232 Governance

Add Content Classification Rule					8
1 General C	2 lassifier		3 Actio	n	
Rule name Describe the new rule so it's easier for you to find it late	PII				
Automatic execution If enabled, the classification rule will be executed whenever a file is created or updated. Otherwise, it will					
only run manually. Filters Switch to code editor Set filters that determine if the classifier runs.	Add filter	Add group			
				Mout -	
		C	ancel	Next	

In this example, the predefined condition **File size is less than value** is chosen.

odate Content Classification Rule	Q			8
1 General	File extension File extension is equal to value File extension is not equal to value File extension is in value	Ĵ	3 Action	
Rule name	File extension starts with value			
Describe the new rule so it's easier for	File size			
	File size is equal to value			
Automatic execution	File size is not equal to value	- 11		
If enabled, the classification rule will be whenever a file is created or updated.	File size is less than value		C)
only run manually.	File size is less or equal to value			
	File size is greather than value			
Filters Switch to code editor Set filters that determine if the classifi	File size is greather or equal to value			
Set filters that determine if the classifi	File words			
	File word count is equal to value			
	File word count is not equal to value	•		
		Cancel	Next	

For this example, the value is set to 5 MB.
 Note: Files greater than 10 MB are not available to be classified.

FileCloud Online Version 23.232 Governance

0	2	3	
General	Classifier	Action	
Rule name Describe the new rule so it's easier for you to find it	PII		
Automatic execution			
If enabled, the classification rule will be executed whenever a file is created or updated. Otherwise, it only run manually.	will		C
Filters Switch to code editor	File size is less	than 👻 5 MB 👻	
Set filters that determine if the classifier runs.	Add filter Add g	roup	

Notes:

- You can add complex conditions by using the Add filter and Add group options together. Clicking Add filter ANDs another condition to the first.
 Clicking Add group adds a group of conditions that are ANDed to each other, and as a whole, ANDed to the previous condition.
- Alternately, you can click **Switch to code editor**, and write your condition in Expression Language if you are familiar with it. For help with expression language, see https://symfony.com/doc/current/reference/ formats/expression_language.html.
- If you want to switch an AND condition to an OR condition click the word AND (and click OR to toggle it back to AND).

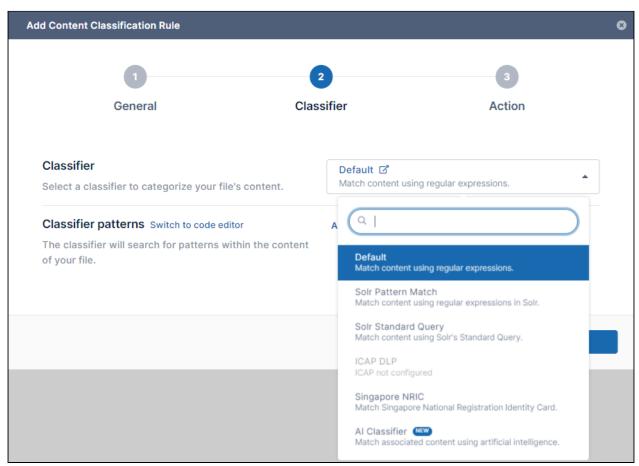
8. Click Next.

The **Classifier** screen of the wizard opens.

9. In the **Classifier** drop-down list, choose a classifier.

In the example below, the classifier **Default** is chosen.

FileCloud Online Version 23.232 Governance



For help using classifiers, see Guide to Classifiers

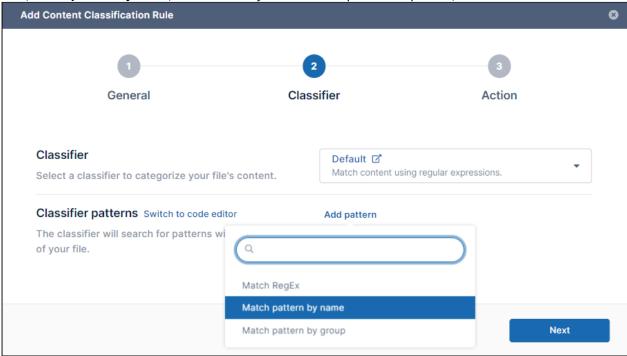
Note: If you choose the ICAP DLP or the Singapore NRIC classifiers, the classifier pattern is preset, so the Add Pattern option below no longer appears on the screen.

 After you choose a Classifier, if Classifier patterns still appears below it, click Add Pattern. The options vary depending on the classifier you have chosen. For help entering the pattern for each option, see Guide to Classifiers.

In this example where the **Default** classifier is used, when **Add Pattern** is clicked, the options **Match RegEx**, **Match pattern by name**, and **Match pattern by group** are shown.

11. Click one of the options.

Here, **Match pattern by name**, which enables you to choose a predefined pattern, is chosen.



12. Choose a predefined pattern in the **Choose a pattern** drop-down list.

U.S. Social Security Number is chosen.

Add Content Classification Rule		•
		3
General	Classifier	Action
Classifier Select a classifier to categorize your f	Default Match co	☑ • ntent using regular expressions. •
Classifier patterns Switch to code e	ditor Match pat	tern by name Choose a pattern 💌 🛙 🖾 🛛
The classifier will search for patterns of your file.	Add pattern	Q [0-9]{2}-[0-9]{2}-[0-9]{2} Norway Identification Number [0-9]{11} Poland Identity Card [a-zA-Z]{3}[0-9]{6}
		Poland National ID (PESEL) [0-9]{11} Poland Passport [a-zA-Z]{2}[0-9]{7} Portugal Citizen Card Number [0-9]{8} Sweden Passport Number [0-9]{8} U.K. Electoral Roll Number
		[a-zA-Z]{2}[0-9]{1,4} U.S. Bank Account Number [0-9]{4,17} U.S. Social Security Number (SSN) [0-9]{3}-[0-9]{2}-[0-9]{4}

13. To test the pattern, click the Test Pattern icon next to the pattern.

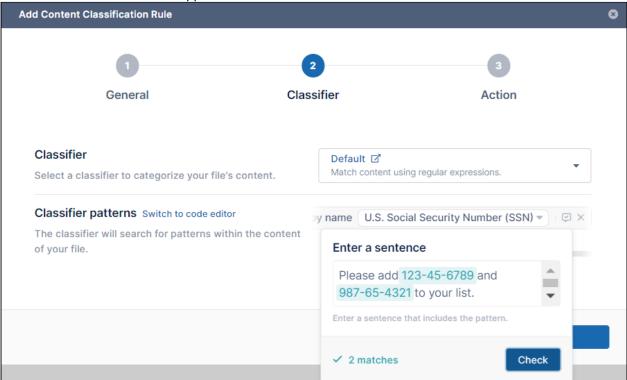
Add Content Classification Rule			8
	2 ssifier	3 Action	
Classifier Select a classifier to categorize your file's content.		ault 🗗 ch content using regular expressions.	
Classifier patterns Switch to code editor The classifier will search for patterns within the content of your file.	by name	e U.S. Social Security Number (SSN) - 定 ×	
		Back Next	

You are prompted to enter a sentence that includes your pattern in the box that opens. Include the pattern any number of times.

dd Content Classification Rule		٥
0	2	3
General	Classifier	Action
Classifier Select a classifier to categorize your file's content.	Default 🗗 Match content	using regular expressions.
Classifier patterns Switch to code editor	by name U.S. Se	ocial Security Number (SSN) 💌 🖙 🔀
The classifier will search for patterns within the con of your file.	Enter a sen	tence
	Please add 65-4321 to	1 123-45-6789 and 987-
	Enter a sentend	e that includes the pattern.
		Check

14. Click Check.

If the **Classifier pattern** is working, the terms that match the pattern in your sentence are highlighted and a count of the number of matches appears below the sentence.



15. If the pattern is successful, click Next.

The Action screen of the Add Content Classification Rule wizard opens.

16. Add a **Classifier condition**.

Notes:

- In many cases you can click Add condition and choose Number of matches is greater than value, and set value to **0.**
- In most cases, there is no need for a complex condition, and choosing Add group is not necessary.
- If you add multiple **Classifier conditions**, you can switch an **AND** condition to an **OR** condition by clicking the word **AND**. Click **OR** to toggle it back to **AND**.
- If you are familiar with Expression Language, you can click **Switch to code editor** and add a condition in Expression Language.

In this example the condition Number of matches is greater than value is added.

FileCloud Online Version 23.232 Governance

d Content Classification Rule		
1	2	3
General	Classifier	Action
Classifier condition Switch to code edit	or Add condition Add group	
After scanning the document for pattern action is executed if the condition is satis Otherwise, the non-match action takes p	Q	\mathbf{O}
	Classifications	
Match action Switch to code editor	Number of matches is equal to value	
Non-motch action of the sector du	Number of matches is not equal to value	
Non-match action Switch to code editc	Number of matches is not equal to value Number of matches is less than value	
Non-match action Switch to code edito		
Non-match action Switch to code edito	Number of matches is less than value	

The classifier condition is added and by default set to **0**. In most cases, you can leave the value of **0**, but if you only want the classifier to treat the result as a match if more than 1 matches are found, enter a number greater than .

Id Content Classification Rule			e
1	2	3	
General Cla	assifier	Action	
Classifier condition Switch to code editor	Number of matches is	greather than 🔹 0 🗙	
After scanning the document for patterns, the match action is executed if the condition is satisfied. Otherwise, the non-match action takes place.	Add condition Add group		
Match action Switch to code editor	Add action		
Non-match action Switch to code editor	Add action		
	В	ack Add rule	

17. Add a **Match action** either by clicking **Add action** and choosing **Set metadata to value**, or, if you are familiar with JSON, by clicking **Switch to code editor**, and adding an action in JSON. Any number of actions may be added.

In this ex	ample, Add action	is clicked and the only	y current option,	, Set metadata to valı	ı e , is chosen.
Add (Content Classification R	lule			

d Content Classification Rule		
0	2	3
General	Classifier	Action
Classifier condition Switch to code editor	Number of match	es is greather than
After scanning the document for patterns, the ma action is executed if the condition is satisfied. Otherwise, the non-match action takes place.	Add condition Add	d group
Match action Switch to code editor	Add action	
Non-match action Switch to code edi		\square
Set me	tadata to value	
		Back Add rule

18. Click in the **Choose a metadata** field. **Color Tagging metadata** and any custom metadata you have created is listed with its attributes below it.

19. Click one of the metadata attributes.

In this example, the **PII** metadata attribute **found** is selected.

d Content Classification Rule	
1	2 3
General	Classifier Action
Classifier condition Switch to code editor After scanning the document for patterns, the match	Number of matches is greather than O × Add condition Add group
action is executed if the condition is satisfied. Otherwise, the non-match action takes place.	
Match action Switch to code editor	Set metadata Choose a metadata to value
Non-match action Switch to code editor	A Color Tagging metadata Color Color
	PII

- 20. Set a value for the metadata attribute.
 Here **found** is set to **yes**.
 In another process, such as DLP or a search, this enables FileCloud to locate files with PII information in them by looking for files with **PII.found** set to **yes**.
- 21. Repeat the process for **Non-match action**. In this example, the same metadata attribute is chosen, but it is set to **no**.

FileCloud Online Version 23.232 Governance

dd Content Classification Rule	
1	2 3
General	Classifier Action
Classifier condition Switch to code editor	Number of matches is greather than \bullet 0 \times
After scanning the document for patterns, the match action is executed if the condition is satisfied. Otherwise, the non-match action takes place.	Add condition Add group
Match action Switch to code editor	Set metadata PII > found to yes Add action
Non-match action Switch to code editor	Set metadata PII > found > to no ×
	Add action
	Back Add rule

Your rule is complete.

22. Click Add rule.

The wizard closes and your rule is added to the Smart Classification page.

Smart Classification						
Rules # Patterns			🖒 Switch	n to classic	? I	Learn more
Filter Q Filter by rule name				I	Ado	d rule
Rule name 💌	Status	Enabled	Last run	Ad	tions	
Pil	-		Never	9 🗅	\$	Û
US ID info	Ð		6 days ago	y D	\$	Ū
	≪ < Page 1 of 0 >	»				

Since you created the rule to run automatically, it appears as enabled, and will run according to the Cron schedule. However, you can run it manually at any time by clicking the arrow under **Actions**.

Running Smart Classification Rules

If you set the **Automatic Execution** switch on when you create a Smart Classification rule, the rule will run at scheduled times. If you have left the **Automatic Execution** switch off, you can only run the rule manually. At any time, you can also manually run a rule that is set to automatically execute (and it will continue to run on schedule as well).

Id Content Classification Rule	0
1 General Cla	2 3 ssifier Action
Rule name Describe the new rule so it's easier for you to find it later.	Detect Personal Info
Automatic execution If enabled, the classification rule will be executed whenever a file is created or updated. Otherwise, it will only run manually.	
Filters Switch to code editor Set filters that determine if the classifier runs.	File size is less than 10 MB × Add filter Add group
	Cancel Next

The Automatic execution switch in the on position.

To run a Smart Classification rule manually:

- 1. In the navigation panel, click **Smart Classification** The **Smart Classification** screen opens to the **Rules** page.
- 2. In the row for the rule that you want to run, click the arrow icon under Actions.

 ➢ Folder Permissions ▲ Notifications DEVICES ▲ □ Device Management 	FileCloud Smart Classif	ication			
GOVERNANCE ▲ 畲 Dashboard	Rules # Patterns		ڻ sw	vitch to classic	2 Learn more
 Retention Smart DLP 	Filter Q Filter by rule name				Add rule
🖏 Smart Classification					
✓ Compliance Center	Rule name 🔻	Status Enal	bled Last run	Act	ions
MISC.	Company ID	~ (5 hours ago	₽ ⊳	\$\$ <u><u></u></u>
④ Audit			-		
. ↓ Alert	US ID info	0	11 days ago	\$	® 🔟
🔒 User Locks					
乙 Workflows		<pre>《 < Page 1 o</pre>	ofo > >>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>		

While the rule is running, the **Status** column shows a rotating arrow icon. When running is complete, the **Status** column shows a check. The **Last Run** column shows how many minutes or days ago the rule was last run.

FileCloud Smart Clas	sification							
Rules # Patterns				💍 Switch t	o classic	?	Learn moi	re
Filter Q Filter by rule name						A	dd rule	
Rule name 🔻		Status	Enabled	Last run		Actions	ŝ	
Company ID number	Rule is currently running —	0		a few seconds ago	Ţ	> 4	3 🔟	
Patient names	Run completed 2 hours ago —	~		2 hours ago	Ţ	> 4	3 🔟	
US ID data		~		4 hours ago	Ţ	> @	3 🔟	

If the rule ran successfully, files containing the pattern searched for should now be tagged with the metadata value specified in the rule.

🗙 Info			
i Details	- \- Activity	n Metadata	Comments
Add Metad No metadat		name.txt	
PII 🔺			0 ×
found yes			
			Save

Testing a Smart Classification Rule

You can test a rule that is listed on the **Rules** tab of the **Smart Classification** page and see what metadata tags the rule would apply to a file containing your test content.

To test a Smart Classification rule:

1. In the row for the rule, click the Test Pattern icon.

FileCloud Smart Classificat	ion					
Rules # Patterns			💍 Switch	to classic	? I	Learn more
Filter Q Filter by rule name				I	Ado	d rule
Rule name 🔻	Status	Enabled	Last run	Ad	ctions	
Company ID	Ð		5 hours ago	\$	\$	Ē
US ID info	Ð		11 days ago	ç D	©	Ē

The Content Classification Playground opens and shows the content of the rule in the bulleted steps on the

right.

ontent Classification Playground	
Drop or choose a file, or write some	Filters File size is less than 10 MB Default Match content using regular expressions. Match pattern by name Company ID
content. By providing a file or content, you can easily test whether your rule is correctly set up. Image: Write content Image: Choose from your computer	 Classifier condition Number of matches is greater than 0
File Path	Result Result of applying classifier to test file or content.
/playground	
	Close

- 2. You may either:
 - Drop a file with content that you want to test into the box on the left
 - Click Write content to manually write the test text
 - Click Choose from your computer to open file explorer and choose a file.
 Note: If you drop a file or choose it from your computer, the test begins running automatically, but if you write content manually, you must click the Execute link at the top of the box:

Cor	tent Classification Playground	/
	< Testing with Written Content	A Execute
	The two patients have been treated.	

3. As the test runs through each step it highlights it.

When the test is complete, the second step shows the number of matches, and the final step, **Result**, shows the outcome. In the following screenshot, the test finds one match, **Default** shows **1** and **Result** displays **Match action would be executed** and lists the result of the match action, **Set metadata CompanyID.found to yes**.

Content Classification Playground			8
< Testing with a File	C' Retry	 ✓ Filters File size is less than 10 MB 	
		Default Match content using regular expressions. Match pattern by name Company ID	
Insurance Policy.docx 37.88 KB		Classifier condition Number of matches (is greater than •) 0	
		Result Match action would be executed	7
File Path		Set metadata CompanyID > found to yes	
/playground			
		Close	

Examples

The first example test the same rule as the one shown in the procedure above. The rule uses the **Default** (regex) classifier. The admin drags and drops a file with text that contains one instance of the pattern (a 6-digit Company ID). The test begins automatically. Each bulleted test step on the right is highlighted when it is reached. The number **1** appears next to **Default** to indicate that there was one match. **Result** states that the **Match action would be executed** and that the rule would **Set metadata Company ID.found to Yes**.

Sorry, the video is not supported in this export. But you can reach it using the following URL: Movie URL not available. The next example tests a rule that uses the **AI Classifier**. The admin clicks **Write Content** and first enters text that does not include the match term **first or last names**. Since the text is entered manually, the admin must click **Execute**. **0** appears next to **AI Classifier** to indicate that there were no matches. **Result** states that **Match action would not be executed** and that the rule would **Set metadata PII.found to No**.

Then the admin changes the text to include two first and last names, and clicks **Execute** again. Now **4** appears next to **AI Classifier** to indicate that there were 4 matches (2 first names and 2 last names). **Result** states that **Match action would be executed** and that the rule would **Set metadata PII.found to Yes**.

> Sorry, the video is not supported in this export. But you can reach it using the following URL:

Movie URL not available.

Guide to Classifiers

Default

Default

Definition

Classifies by whether content is an exact match for a regex PCRE pattern or is not an exact match for a regex PCRE pattern.

Comparison to Solr Pattern Match

A more powerful classifier that can match patterns with spaces and special characters and returns the text that has been matched as well as the number of times the text was matched.

Result schema to use if using code editor:

(_classifications): [{term: "term that matched a regex", count: "number of times the term appears in the doc"}, ...]

Pattern options:

Any number of patterns may be added. Each pattern is connected to the previous pattern with OR.

- Match RegEx Match with a manually-entered regular expression
- Match pattern by name Match with predefined regular expression
- Match pattern by group Match with a predefined group of regular expressions

Examples:

Match with RegEx:



Sorry, the video is not supported in this export. But you can reach it using the following URL:

Movie URL not available.

Match pattern by name:



Sorry, the video is not supported in this export. But you can reach it using the following URL:

Movie URL not available.

Match pattern by group:



Sorry, the video is not supported in this export. But you can reach it using the following URL:

Movie URL not available.

Code editor example:

{"SEARCH_PATTERN_SET":["[0-9]{6}"]}

Solr Pattern Match

Solr Pattern Match

Definition

Classifies by whether content is an exact match for a Solr regex pattern or is not an exact match for a Solr regex pattern.

Comparison to Default

Not as powerful as Default, but faster. Cannot match patterns with spaces and special characters. Does not return the text that has been matched.

Result schema to use if using code editor:

```
(_classifications): ["regex pattern", ...]
```

Pattern options:

Any number of patterns may be added. Each pattern is connected to the previous pattern with OR.

- Match RegEx Match with a manually-entered regular expression
- Match pattern by name Match with predefined regular expression
- Match pattern by group Match with a predefined group of regular expressions

Examples:

Match with RegEx:

Sorry, the video is not supported in this export. But you can reach it using the following URL:

Movie URL not available.

Match pattern by name:

Sorry, the video is not supported in this export. But you can reach it using the following URL:

Movie URL not available.

Match pattern by group:

Sorry, the video is not supported in this export. But you can reach it using the following URL:

Movie URL not available.

Code editor example: {"SEARCH_PATTERN_SET":["[0-9]{16}"]}

Solr Standard Query

Solr Standard Query

Definition

Classifies by whether content matches a Solr standard query. For help writing Solr standard queries, see https://solr.apache.org/guide/6_6/the-standard-query-parser.html

Result schema to use if using code editor:

```
(_classifications): ["expression"] or []
```

Pattern option:

Any number of patterns may be added. Each pattern is connected to the previous pattern with OR.

Match Standard Query expression - Match with a specific term or number such as confidential or 514367A

Example:

Sorry, the video is not supported in this export. But you can reach it using the following URL:

Movie URL not available.

Code editor example:

{"STANDARD_QUERY_EXPRESSION":["confidential"]}

ICAP DLP

ICAP DLP

To enable selection of the the ICAP DLP classifier, you must enable ICAP DLP in FileCloud.

For the ICAP DLP classifier to function properly in FileCloud, you must set up rules in ePolicy Orchestrator that specify if a file is authorized or not authorized.

Definition

Classifies by results on file authorization returned from ICAP DLP. ICAP DLP either authorizes or does not authorize a file, so the metadata you define for the rule should indicate if the file was authorized or not. Your actions might appear as:

1	2	3
General	Classifier	Action
Classifier condition Switch to code editor	Number of matches	is greater than 0 ×
After scanning the document for patterns, the material action is executed if the condition is satisfied. Otherwise, the non-match action takes place.	Add condition Add g	roup
Match action Switch to code editor	Set metadata DLP all Add action	lowed > dlp-allowed • to
Non-match action Switch to code editor	Set metadata DLP al Add action	llowed > dlp-allowed 👻 to 🌔

Result schema to use if using code editor:

(_classifications): []

Example

Sorry, the video is not supported in this export. But you can reach it using the following URL:

Movie URL not available.

SingaporeNRIC

SingaporeNRIC

Definition

Classifies content by whether or not it matches a Singapore National Registration Identity Card.

Example:

Sorry, the video is not supported in this export. But you can reach it using the following URL:

Movie URL not available.

AI Classifier

AI Classifier

To enable selection of the the AI Classifier, you must integrate FileCloud with an AI-based provider.

Definition

Classifies content into terms that match an AI prompt

Pattern option:

Any number of patterns may be added. Each pattern is connected to the previous pattern with OR.

Match instances of prompt - Match with a manually entered prompt, such as PII or first or last names

Example:

Sorry, the video is not supported in this export. But you can reach it using the following URL:

Movie URL not available.

Code editor example: {"SEARCH_AI_MATCHES":["PII"]}

Editing a Smart Classification Rule

To edit a Smart Classification rule, change any of the settings you entered in the wizard when you created it. For information about the fields in the wizard, see Creating a Smart Classification Rule

To edit a Smart Classification rule:

1. Click the gear icon to the right of the rule.

FileCloud Smart Classification				
Rules # Patterns			💍 Switcl	n to classic 🛛 😯 Learn more
Filter Q Filter by rule name				Add rule
Rule name 🔻	Status	Enabled	Last run	Actions
Company ID number	Ð		14 days ago	Ç ▷ ‡ û

The Update Content Classification Rule wizard opens to the General screen.
--

date Content Classification Rule		8
1 General	2 3 Classifier Action	
Rule name Describe the new rule so it's easier for you to find it	Company ID number t later.	
Automatic execution If enabled, the classification rule will be executed whenever a file is created or updated. Otherwise, it only run manually.	t will	
Filters Switch to code editor Set filters that determine if the classifier runs.	File size is less than 10 MB × Add filter Add group	
	Cancel	Next

- 2. Make any changes to the values on the screen.
- 3. Click **Next**, and make any changes to the **Classifier** screen.
- 4. Click **Next**, and make any changes to the **Action** screen.
- 5. Click Save Rule.

The rule now applies the changed settings when it runs.

Note: Metadata added to files and folders when the rule ran previously is not removed when the rule is edited.

Deleting a Smart Classification Rule

To delete a smart classification rule:

1. Click the delete icon to the right of the rule.

Smart Classification						
Rules # Patterns			🖔 Switch	to classic	? L	earn more
Filter Q Filter by rule name					Add	rule
Rule name 🔺	Status	Enabled	Last run	Å	Actions	
US ID data	0		14 days ago	Ţ	> Ø	Ū
Patient names	ø		14 days ago	¥ (Ø	Û

You are prompted to confirm that you want to delete the rule.

- 2. Click **Delete**.
 - The rule is deleted.

Note: Metadata added to files and folders when the rule was run previously is not deleted.

Smart Classification Examples

The following examples refer to custom metadata that would have to be created before creating the Smart Classification rule; a Smart Classification rule cannot be saved unless you specify which metadata field to set.

Identifying files less than 5 MB containing US social security numbers
--

Rule name	Tag files <5 MB with US social security numbers
Automatic execution	Enable
Filters	File size is less than [5 MB]
Classifier	Default
Classifier patterns	Match pattern by name [U. S. Social Security Number (SSN)]

Classifier condition	Number of matches is greater than [0]
Match action	Set metadata [SSN.found] to yes
Non-match action	Set metadata [SSN.found] to no

Identifying files with extensions .txt and .pdf containing US social security numbers

Rule name	Tag txt and pdf files with US social security numbers
Automatic execution	Enable
Filters	File extension is equal to [txt] OR File extension is equal to [pdf] Note: Click AND to change it to OR.
Classifier	Default
Classifier patterns	Match pattern by name [U. S. Social Security Number (SSN)]
Classifier condition	Number of matches is greater than [0]
Match action	Set metadata [SSN.found] to yes
Non-match action	Set metadata [SSN.found] to no

Identifying all files containing US social security numbers

Rule name	Tag all files with US social security numbers
Automatic execution	Enable
Filters	Anything
Classifier	Default

Classifier patterns	Match pattern by name [U. S. Social Security Number (SSN)]
Classifier condition	Number of matches is greater than [0]
Match action	Set metadata [SSN.found] to yes
Non-match action	Set metadata [SSN.found] to no

Identifying files in the Team Folder HumanResources containing US social security numbers

Rule name	Tag all Human Resources files containing US social security numbers
Automatic execution	Enable
Filters	File path starts with [TeamFolderAdmin/HumanResources] Note: See Identifying a FileCloud Specific Path for help writing FileCloud folder paths.
Classifier	Default
Classifier patterns	Match pattern by name [U. S. Social Security Number (SSN)]
Classifier condition	Number of matches [is greater than 0]
Match action	Set metadata [SSN.found] to yes
Non-match action	Set metadata [SSN.found] to no

Identifying files containing any pattern in the custom pattern group France ID numbers

Rule name	France ID numbers
Automatic execution	Enable
Filters	Anything

Classifier	Default
Classifier patterns	Match pattern by group [France ID numbers]
Classifier condition	Number of matches [is greater than 0]
Match action	Set [metadata ID.found] to yes
Non-match action	Set [metadata ID.found] to no

Identifying files with Singapore National Registry Identity Card (NRIC)

Rule name	Tag files with Singapore NRIC
Automatic execution	Enable
Filters	Anything
Classifier	Singapore NRIC
Classifier condition	Number of matches [is greater than 0]
Match action	Set [metadata ID.found] to yes
Non-match action	Set [metadata ID.found] to no

Identifying files with patterns matching American Express credit cards

Rule name	Tag files with American Express card numbers
Automatic execution	Enable
Filters	Anything
Classifier	Default

Classifier patterns	Match RegEx [3[47]{1}[0-9]{13}] OR Match RegEx [3[47]{1}[0-9]{2}-[0-9]{6}-[0-9]{5}] OR Match RegEx [3[47]{1}[0-9]{2} [0-9]{4} [0-9]{4} [0-9]{3}] Note: Smart Classification automatically inserts OR when you add multiple Classifier patterns.
Classifier condition	Number of matches [is greater than 0]
Match action	Set [metadata ID.found] to yes
Non-match action	Set [metadata ID.found] to no

Identifying files with the exact phrase "Confidential - for internal use only"

Rule name	Tag files marked as confidential
Automatic execution	Enable
Filters	Anything
Classifier	Default
Classifier patterns	Match RegEx [Confidential - for internal use only]
Classifier condition	Number of matches [is greater than 0]
Match action	Set [IncludesText.Confidential] to yes
Non-match action	Set [IncludesText.Confidential] to no

Mark files with different tags depending on the number of matches

In this rule, if a file has 0-2 five-digit numbers, it is marked as having a low possibility of personal ID information. If it has >2 five-digit numbers, it is marked as having a high possibility of personal ID information. This enables you to perform different operations on files with low and high likelihood of having a match. For example, you might choose to manually review files with low possibility, but automatically block files with high possibility.

Rule name	Tag files based on number of 5-digit numbers
Automatic execution	Enable
Filters	Anything
Classifier	Default
Classifier patterns	Match RegEx [[0-9]{5}]
Classifier condition	Number of matches [is greater than 2]
Match action	Set [ID.found] to high
Non-match action	Set [ID.found] to low

Identifying files with a phrase that is the same or similar to "Confidential - for internal use only"

Rule name	Tag files with confidentiality phrases
Automatic execution	Enable
Filters	Anything
Classifier	Solr Standard Query
Classifier patterns	 Match Standard Query ["Confidential - for internal use only"~4] (include "" around phrase) Note: ~4 indicates that all words in the phrase must appear, but may be within 4 words of each other. For example "Confidential - use for internal only" would be a match.
Classifier condition	Number of matches [is greater than 0]
Match action	Set [IncludesText.Confidential] to yes
Non-match action	Set [IncludesText.Confidential] to no

Rule name	Tag files with words spelled similarly to confidential
Automatic execution	Enable
Filters	Anything
Classifier	Solr Standard Query
Classifier patterns	Match Standard Query [Confidential~1] (do not include "" around word)Note: ~1 indicates that there may be 1 letter different in the spelling, for example "Confidental" and "Confidentials" would match, but "Confidentail" would not.
Classifier condition	Number of matches [is greater than 0]
Match action	Set [Spelling.similar] to yes
Non-match action	Set [Spelling.similar] to no

Identifying files with a word that matches or is one letter different from "Confidential"

Identifying files with the word "classified" and not the word "declassified"

Rule name	Tag classified files
Automatic execution	Enable
Filters	Anything
Classifier	Solr Standard Query
Classifier patterns	Match Standard Query ["CLASSIFIED" NOT "DECLASSIFIED"]
Classifier condition	Number of matches [is greater than 0]
Match action	Set [Classified.found] to yes

Identifying files marked for blocking by ICAP-DLP

In the case of the ICAP-DLP classifier, the pattern is checked by ICAP-DLP, which tags the file if it is sensitive and does not tag it if it is not sensitive. Therefore, if the file is tagged by ICAP-DLP as sensitive, it is a match, and the following rule sets **File.allowed** to **false**, indicating that the file is not allowed to be downloaded, uploaded, or shared.

Rule name	Identifying files flagged by ICAP-DLP
Automatic execution	Enable
Filters	Anything
Classifier	ICAP-DLP
Classifier condition	Number of matches [is greater than 0]
Match action	Set [File.allowed] to false
Non-match action	Set [File.allowed] to true

Identifying files with the names or addresses (AI Classifier example)

Rule name	Tag files with names or addresses
Automatic execution	Enable
Filters	Anything
Classifier	AI Classifier
Classifier patterns	Match instances of [people names] OR Match instances of [addresses]
Classifier condition	Number of matches [is greater than 0]

Match action	Set [Personal Info.found] to yes
Non-match action	Set [Personal Info.found] to no

Identifying files with company names (AI Classifier example)

Rule name	Identify files with company names
Automatic execution	Enable
Filters	Anything
Classifier	AI Classifier
Classifier patterns	Match instances of [company names]
Classifier condition	Number of matches [is greater than 0]
Match action	Set [CompanyName.detected] to yes
Non-match action	Set [CompanyName.detected] to no

Identifying files with contact information (AI Classifier example)

Rule name	Identify files with contact information
Automatic execution	Enable
Filters	Anything
Classifier	AI Classifier
Classifier patterns	Match instances of [phone numbers] OR Match instances of [email addresses]

Classifier condition	Number of matches [is greater than 0]
Match action	Set [ContactInfo.detected] to yes
Non-match action	Set [ContactInfo.detected] to no

Smart Classification Classic

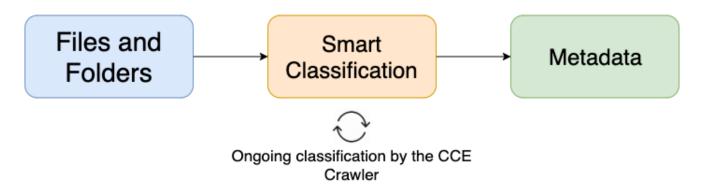
Beginning in FileCloud 23.232, an updated version of the Smart Classification user interface is available. Please see Smart Classification to view instructions for the new user interface.

(i) Content Classification Engine is available from 19.2 and later

The Content Classification Engine is only available for enterprise licenses, or standard licenses with CCE+PATTERNSEARCH components. For information on the different license types, read about the Key Features on the Pricing page.

Overview

The Content Classification Engine (CCE) is a rule-driven content classification system that enables the generic labeling of files with metadata. This labeling enables key operations within FileCloud such as contextual file search and Data Leak Prevention.



CCE automates, streamlines, and strengthens the overall level of data leak prevention for an organization. Administrators and users can upload files and folders with the knowledge that they can be automatically classified according to their content, which helps ensure that sensitive data is immediately covered by the criteria outlined in the DLP plan. CCE rules are also applied retroactively to data that was uploaded before the rules were created, helping organizations protect legacy data. (i) Smart Classification is only available for files that are 1MB or larger.

Read more about managing metadata.

Read more about Smart DLP.

Before You Start

CCE will only function properly if Solr has been configured and your storage has been indexed. Additionally, administrators must have created at least one set of metadata in order for the classification process to operate.

A Caution

Understand these Limitations before you begin using CCE or update it

- 1. Since rules that apply to the same metadata attribute often result in unexpected classification, each rule should have a unique metadata attribute.
- 2. To prevent overwriting metadata intentionally added by users, as of FileCloud Version 19.3.3.6309, CCE does not overwrite metadata it didn't add itself. Users must remove manually added metadata set values to allow CCE to add its own metadata.
- 3. As of FileCloud Version 19.3.3.6309, CCE uses Perl Compatible Regular Expressions (PCRE), which enables it to support a richer set of regular expressions. For example, the character class \d which represents a single number, is now usable.

If you upgrade from a previous version of FileCloud, review your CCE rules and existing patterns to confirm that they still classify as expected.

- 4. As of FileCloud Version 19.3.3.6309, CCE updates classification if a file no longer meets the condition of a rule after it is updated and re-uploaded. For example, if a file with a credit card number that is classified as PII is re-uploaded without the credit card number, the PII classification is removed.
- 5. Empty files cannot be indexed and classified.
- 6. As of FileCloud Version 19.3.3.6309, the default maximum size for indexed files is 10MB; therefore, by default, files larger than 10MB are not classifiable by CCE and are not available for content search.
- 7. As of FileCloud Version 20.3, if you have OCR enabled, CCE scans image and PDF files for matching patterns. To enable OCR, see Enabling Solr OCR.

Create New Metadata Set

Get Started with CCE

Creating and Managing Content Classification Engine Rules

<table-cell-rows> CCE Rule Examples

Creating a Pattern

🔫 Creating a Pattern Group

CCE Crawler

The CCE Crawler is an automated tool that classifies files and folders after a rule has been enabled. This helps to ensure that all content is classified according to the defined **and** enabled rules regardless of when the upload occurred or will occur.

• The CCE crawler **will not run** unless manually enabled or executed by a Cron job.

Manually Run the Crawler

To manually run the crawler, click the blue button on the row of the rule you would like the crawler to use for classification. The amount of time needed for the completion of the crawl will depend on the number and size of files being classified, as well as the complexity of enabled CCE rules.

A Manage C Classification	Content Rules				
Rules					lanage Pattern Group
Rule Name	Match Action	Status	Auto- classification Enabled	Last Run Date/Time	Actions
Confidential Documents	{"Confidential Documents":{"Confidential":"Yes"}}	UNEXECUTED	YES	>	>

1 Manage Content Classification Rules screen, manual run button

A You may manually execute a rule that is not enabled (Auto-classification Enabled is FALSE). After you click the arrow, your screen displays the message *This rule is disabled but it can classify files when manually executed. Proceed to execute the rule?* Click **OK** to execute the rule.

A If you edit a currently executing rule and click **Save**, rule execution is aborted and **Status** is set to **Unexecuted**.

More Information:

FileCloud Videos	FileCloud Blogs
	 Classify Documents in FileCloud using Smart Classification

Creating and Managing Content Classification Engine Rules

Keyword Definitions

Below are the keywords used in creating the rule definition:

Classifier	Classifier used to classify the file content.
	Note: Classification is not case sensitive.
	In most cases, you can use:
	 Default - Classify content into terms that match the supplied regex patterns. Supported parameters: SEARCH_PATTERN_SET, SEARCH_PATTERN_NAME or SEARCH_PATTERN_GROUP Result Schema (_classifications): [{term: "term that matched a regex", count: "number of times the term appears in the doc"},]
	Also supported are:
	 PatternMatch - Classify content into regex patterns found. Supported parameters: SEARCH_PATTERN_SET, SEARCH_PATTERN_NAME or SEARCH_PATTERN_GROUP Result Schema (_classifications): ["regex pattern",]
	 StandardQuery - Classify content as matching the query or not. Supported parameters: STANDARD_QUERY_EXPRESSION Result Schema (_classifications): ["expression"] or []
	 IcapDLP - Classify content based on results returned from ICAP DLP. Supported parameters: none Result Schema (_classifications): []
	 SingaporeNRIC- Classify content into terms that match a Singapore NRIC. Supported parameters: none Result Schema (_classifications): [{term: "NRIC term", count: "number of times the NRIC term appears in the doc"},]
Pre-condition	Rules that must be met by a file before the file is evaluated through the classifier.
Condition	Criteria to take a match action or default action on the files. Currently it must be count(_classifications) > 0 that indicates the file contains the search pattern, or the file must have applied metadata based on the presence of unique numbers or values.
Parameters	Regular Expression search criteria. Regular Expressions can be specified using SEARCH_PATTERN_SET, SEARCH_PATTERN_NAME or SEARCH_PATTERN_GROUP.
SEARCH_PATTE RN_SET	Any Valid Regular Expressions e.g. /[0-9]{9}/

SEARCH_PATTE RN_NAME	Regular Expression assigned a name through Manage Pattern Group - Available Patterns
SEARCH_PATTE RN_GROUP	Regular Expressions grouped through Manage Pattern Group - Pattern Group.
Match Action	Actions taken when the classifier finds a file based on precondition, condition and parameters. For example, assign metadata set PII and metadata attribute Confidential to 1.
Default Action	Actions taken when the classifier finds a file based on precondition but did not meet the condition based on parameters. For example, assign metadata set PII and metadata attribute Confidential to 0.

Creating and Editing CCE Rules

(i) A CCE Rule is a **self-contained specification** for classifying **one or more files.**

To create a CCE rule:

- 1. To open the Manage Content Classification Rules page, in the Admin portal's navigation pane, click Smart Classification.
- 2. To add or create a new rule, click Add Rule.

Qe Folder Permissions Image: Notifications DEVICES	A Manage C Classification F	ontent Rules			Ļ	
	Rules				+ Add rule	Manage Pattern Group
GOVERNANCE ① Dashboard Image: Retention Image: Retention	Rule Name	Match Action	Status	Auto- classification Enabled	Last Run Date/Time	Actions
Smart DLP	Confidential Documents	{"Confidential Documents":{"Confidential":"Yes"}}	UNEXECUTED	YES		> 🌣 🗙
Smart Classification MISC. Audit						

2 Manage Content Classification Rules screen, Add Rule button

- 3. In the Add Rule dialog box, fill in the fields:
 - Name: Naming detail for the rule to be created.
 - Event Triggers: Criteria that enables the CCE to automatically execute rules for certain events.
 - **Enable Auto-classification**: When enabled, the rule defined will start classifying files based on the definition.

• **Definition**: Set of rules which defines the action to be taken.

SolrStandardQuery	
FILEINDEXED	
{ "classifier": "StandardQuery", "precondition": "false", "condition": "count(_classifications) > 0 && 0 <= 1", "matchaction": { "eu_debit_card": { "Level": "HIGH" . .	
Rule Template:	
<pre>{ "classifier": "Default", "precondition": "#PRE CONDITION RULES#", "condition": "count(_classifications) > 0", /* available functions are join() & count() */ "matchaction": { "#METADATASET_NAME#": { "#METADATASET_NAME#": {</pre>	
	<pre>FILEINDEXED FILEINDEXED</pre>

4. Click Save.

```
See Example Rules.
```

(i) If you want the rule to immediately begin auto-classifying files when you save it, be sure to check the **Enable Auto-classification** box.

CCE Rule Examples

• Note: Allowed paths defined for a metadata do not prevent CCE classification from applying that metadata.

How to identify files based on size containing U.S Social Security Numbers

Criteria:

- Files under 5MB
- Set Metadata PII.Level = "HIGH" if there is a pattern match or as PII.Level = "LOW"

Pre-Requisite:

- Have Metadata set PII defined with Level attribute
- Have Pattern defined with the name "US Social Security Number"

```
{
  "classifier": "Default",
  "precondition": "_file.size < 5000000",
  "condition": "count(_classifications) > 0",
  "matchaction": {
    "PII": {
      "Level": "HIGH"
    }
 },
  "defaultaction": {
    "PII": {
      "Level": "LOW"
    }
 },
  "parameters": {
    "SEARCH_PATTERN_NAMES": [
      "US Social Security Number"
    ]
 }
}
```

How to identify files based on extensions and containing US Social Security Numbers

Criteria:

- Apply to files with extensions .txt & .pdf
- Set Metadata PII.Level = "HIGH" if there is a pattern match or as PII.Level = "LOW"

Pre-Requisite:

- · Have Metadata set PII defined with Level attribute
- Have RegExp pattern for US Social Security Numbers

```
{
  "classifier": "Default",
  "precondition": "_file.ext in ['txt', 'pdf']",
  "condition": "count(_classifications) > 0",
  "matchaction": {
    "PII": {
      "Level": "HIGH"
   }
 },
  "defaultaction": {
    "PII": {
      "Level": "LOW"
   }
 },
  "parameters": {
    "SEARCH_PATTERN_SET": [
      "/[0-9]{9}/"
 }
}
```

How to identify files containing US Social Security Numbers

Criteria:

- Apply to all files
- Set Metadata PII.Level = "HIGH" if there is a pattern match or as PII.Level = "LOW"

Pre-Requisite:

- Have Metadata set PII defined with Level attribute
- Have Pattern defined with the name "US Social Security Numbers"

```
{
  "classifier": "Default",
  "precondition": "true",
  "condition": "count(_classifications) > 0",
  "matchaction": {
   "PII": {
     "Level": "HIGH"
   }
 },
  "defaultaction": {
   "PII": {
     "Level": "LOW"
   }
 },
  "parameters": {
   "SEARCH_PATTERN_NAMES": [
     "US Social Security Number"
   1
 }
}
```

How to identify files containing one of the patterns in the pattern group

Criteria:

- Apply to all files
- Set Metadata PII.Level = "HIGH" if there is a pattern match or as PII.Level = "LOW"

Pre-Requisite:

- Have Metadata set PII defined with Level attribute
- Have Pattern Group GDPR defined

```
{
    "classifier": "Default",
    "precondition": "true",
    "condition": "count(_classifications) > 0",
    "matchaction": {
    "GDPR": {
        "Level": "HIGH"
    }
}
```

```
}
}
,
"defaultaction": {
    "GDPR": {
        "Level": "LOW"
}
},
"parameters": {
        "SEARCH_PATTERN_GROUPS": [
        "GDPR"
]
}
```

How to identify files containing US Social Security Numbers inside the user folder / my.user/PII/

Criteria:

- Apply to all files inside /my.user/PII/
- Set Metadata PII.Level = "HIGH" if there is a pattern match or as PII.Level = "LOW"

Pre-Requisite:

- Have Metadata set PII defined with Level attribute
- Have Pattern defined with the name "US Social Security Number"

```
"classifier": "Default".
"precondition": "starts_with(_file.fullPath, '/my.user/PII/')",
"condition": "count(_classifications) > 0",
"matchaction": {
  "PII": {
    "Level": "HIGH"
  }
},
"defaultaction": {
  "PII":{
   "Level": "LOW"
  }
},
"parameters": {
  "SEARCH_PATTERN_NAMES": [
   "US Social Security Number"
 1
}
```

How to identify files containing white spaces within words or sentences

Criteria:

• Apply to text and pdf files

• Set Metadata PII.Level = "HIGH" if there is a pattern match or as PII.Level = "LOW" otherwise

Pre-Requisite:

1. Have Metadata set PII defined with Level attribute.

```
"classifier": "Default",
"precondition": "_file.ext in ['txt', 'pdf']",
"condition": "count(_classifications) > 0",
"matchaction": {
 "PII":{
    "Level": "HIGH"
 }
},
"defaultaction": {
 "PII":{
    "Level": "LOW"
},
"parameters": {
 "SEARCH_PATTERN_SET": [
 "\/[0-9]{4} [0-9]{4} [0-9]{4} \/"
 1
```

How to identify files containing Singapore National Registry Identity Card (NRIC)

Criteria:

- Apply to all files
- Set metadata NRIC.Confidentialilty Level = "HIGH" if there is a pattern match or NRIC.Confidentiality Level = "LOW"

Pre-Requisite:

• Have metadata set NRIC defined with Confidentiality Level attribute



Creating a Pattern

Patterns are named sets of regular expressions that allow administrators to easily label and identify commonly used or important regexes.

Creating and Modifying a Pattern

1. Click on 'Manage Pattern Group'

A Manage C Classification	ontent Rules				
Rules				+ Add rule	Manage Pattern Group
Rule Name	Match Action	Status	Auto- classification Enabled	Last Run Date/Time	Actions
US Social Number	{"US Social Number":{"Detection":"Yes"}}	EXECUTED	YES	Jan 12, 2021 9:36 AM	> • ×
Confidential Documents	0	EXECUTED	FALSE	Jan 12, 2021 9:36 AM	> \$ ×

2. To create a new Pattern, click on Add New Pattern.

Manage Pattern Gro	oups : GDPR			×
Pattern Group	GDPR		Ŧ	• New Pattern Group
 Available 	Patterns		Mer	mber Patterns
Belgium National Numb	ber	-	Belgium National	l Number
Croatia Identity Card Nu	umber		Denmark Persona	al Identification Number
Croatia Personal Identifi Number	ication (OIB)			
Denmark Personal Ident	tification Number			
EU Debit Card Number		>		
Finland National ID				
Finland Passport Numbe	er			
France Driver's License I	Number			
France National ID Card	(CNI)			
France Passport Numbe	r			
R R Page 1	of 2 🕟 🕅		🛚 🕢 Page	1 of 1 🕟 🕅
			la la rage	2 rows
Add New Pattern	-			Delete Close

3. Click on +Add button and enter the pattern details in the modal that pops up.

■ Manage PII Patterns	3	O Add 2
Name	Regex	Actions
Belgium National Number	[0-9]{2}.[0-9]{2}.[0-9]{2}-[0-9]{3}.[0-9] {2}	×
Croatia Identity Card Number	[0-9]{9}	×
Croatia Personal Identification (OIB) Number	[0-9]{10}	×
Denmark Personal Identification Number	[0-9]{6}-[0-9]{4}	×
EU Debit Card Number	[0-9]{16}	×
Finland National ID	[0-9]{6}[-+a][0-9]{3}[0-9a-zA-Z]{1}	×
Finland Passport Number	[a-zA-Z]{2}[0-9]{7}	×
France Driver's License Number	[0-9]{12}	×
France National ID Card (CNI)	[0-9]{12}	×
France Passport Number	[0-9]{2}[a-zA-Z]{2}[0-9]{5}	×
	Page 1 of 2) 1 20 rows	

New PII Search Patt	ern	×
Name	Enter Pattern Name	
Regex	Enter Pattern Regex	
	Create	CANCEL

4. Once you have created your pattern, you should now be able to use it in a Content Classification rule or group it together with other patterns in a Pattern Group.

Creating a Pattern Group

Pattern groups allow administrators and users to save information identification patterns in order to streamline the classification process.

Creating and Modifying a Pattern Group

1. Click on 'Manage Pattern Group'

A Manage C Classification	Content Rules				Ļ
Rules				+ Add rule	Manage Pattern Group
Rule Name	Match Action	Status	Auto- classification Enabled	Last Run Date/Time	Actions
US Social Number	{"US Social Number":{"Detection":"Yes"}}	EXECUTED	YES	Jan 12, 2021 9:36 AM	> 🔹 🗙
Confidential Documents	0	EXECUTED	FALSE	Jan 12, 2021 9:36 AM	> ¢ ×

2. To add or create a new rule Pattern Group, click on New Pattern Group.

FileCloud Online Version 23.232 Governance

FILECLOUT)	Manage Pattern Groups	🔺 admin 👻
USERS/GROUPS			
💄 Users	A Ma Class	Pattern Group	
Groups	Class		
admins 🔝	Rules	No pattern groups available. Please create a group first.	Add rule 📃 Manage Pattern Group
MANAGE			
🍃 Team Folders	Rule Nam		aled Actions
🔒 Network Folders			
How User Shares		Add New Pattern	Close
🗛 Folder Permissions			
DEVICES			
Devices			
GOVERNANCE			
💼 Dashboard			
Retention			
Smart DLP			
Smart Classification			
MISC.			

3. Click on New Pattern Group, enter a Group Name and click Save.

Man	New Group		×	×
Pat	Group Name	GDPR		pup
No			Save Close	
O A	dd New Pattern		C	Close

4. Once you have created your group, you can add Available Patterns by selecting them from the left-side panel and moving them with the middle arrows to the Members Patters on the right. Once completed, click Close.

In the below example, we have created the Pattern Group *GDPR* that includes patterns such as Belgian National Numbers and Denmark Personal Identification Numbers.

Pattern Group	GDPR		,	·	New Patt	tern Group
Available Pat	terns			Membe	r Patterns	
Belgium National Number			Belgium Nat	tional Nu	mber	
Croatia Identity Card Numb	er		Denmark Pe	ersonal Id	entification N	Number
Croatia Personal Identificati Number	on (OIB)					
Denmark Personal Identifica	ation Number					
U Debit Card Number		>				
Finland National ID						
inland Passport Number		~				
France Driver's License Num	nber					
France National ID Card (CN	JI)					
France Passport Number						
Page 1 20 rows	of 2 🕟 関				1 of 1	
			a a r	age 2	1 of 1 rows	ю н

Step 5. Once saved, you can add your new group to a Content Classification Rule.

More CCE Rule Examples

Generally, CCE can be used for a number of classification purposes such as:

- Identification of files containing certain patterns of textual content e.g. credit card numbers, employee numbers, and social security numbers
- Identification of files containing exact phrases
- Classification of files into different tiers of security, privacy, etc.
- Setting default values for custom metadata or Color Tagging metadata
- Classification of files based on word proximity
- Classification of files based on word similarity
- Classification of files based on a boolean combination of SOLR queries

Identifying text patterns.

E.g. identifying files with Amex credit card numbers:

```
{
    "classifier": "Default",
    "precondition": "true",
    "condition": "count(_classifications) > 0",
    "matchaction": {
        "PII": {
            "Credit Card": "Amex"
        }
   },
    "parameters": {
        "SEARCH_PATTERN_SET": [
            "3[47]{1}[0-9]{13}",
            "3[47]{1}[0-9]{2}-[0-9]{6}-[0-9]{5}",
            "3[47]{1}[0-9]{2} [0-9]{4} [0-9]{4} [0-9]{3}"
        1
   }
}
```

Identifying exact phrases.

E.g. identifying files containing confidentiality phrases

```
"Confidentiality": "CONFIDENTIAL"
}
},
"parameters": {
    "SEARCH_PATTERN_SET": [
    "CONFIDENTIAL - FOR CODELATHE PERSONNEL ONLY"
    ]
}
```

Classification into tiers:

(1) Classifying files into different tiers of security using pattern occurrence

```
/* Tier 1 */
{
   "classifier": "Default",
   "precondition": "true",
   "condition": "count(_classifications) < 5 && count(_classifications) > 0",
   "matchaction": {
       "PII": {
           "Security": "MONITOR"
  }
   },
   "defaultaction": [],
   "parameters": {
       "SEARCH_PATTERN_SET": [
           "3[47]{1}[0-9]{13}",
           "3[47]{1}[0-9]{2}-[0-9]{6}-[0-9]{5}"
    ]
}
}
/* Tier 2 */
{
```

```
"classifier": "Default",
"precondition": "true",
"condition": "count(_classifications) >= 5",
"matchaction": {
    "PII": {
        "Security": "RESTRICT"
        }
    },
    "parameters": {
        "SEARCH_PATTERN_SET": [
            "3[47]{1}[0-9]{13}",
            "3[47]{1}[0-9]{2}-[0-9]{6}-[0-9]{5}"
        ]
    }
}
```

(2) Classifying files into different tiers of security using pattern match

```
/* Tier 1 */
{
   "classifier": "PatternMatch",
   "precondition": "true",
   "condition": "count(_classifications) == 1",
   "matchaction": {
        "PII": {
            "Security 2": "MONITOR"
   }
   },
   "defaultaction": [],
    "parameters": {
        "SEARCH_PATTERN_SET": [
            "3[47]{1}[0-9]{13}",
            "3[47]{1}[0-9]{2}-[0-9]{6}-[0-9]{5}"
    1
    }
```

}
/* Tier 2 */
{
"classifier": "PatternMatch",
"precondition": "true",
<pre>"condition": "count(_classifications) == 2",</pre>
"matchaction": {
"PII": {
"Security 2": "RESTRICT"
}
},
"parameters": {
"SEARCH_PATTERN_SET": [
"3[47]{1}[0-9]{13}",
"3[47]{1}[0-9]{2}-[0-9]{6}-[0-9]{5}"
]
}
}

Setting default metadata.

CCE can set custom metadata parameters values for files. Beginning in FileCloud 21.1, CCE can also set color tag metadata values for files.

Ensure file has been classified

ł

```
{
    "classifier": "Default",
    "precondition": "true",
    "condition": "count(_classifications) == 0",
    "matchaction": {
        "PII": {
            "PII": {
               "Status": "Classified"
            }
        },
        "parameters": {
```

Classifying files based on word proximity (phrase similarity)

```
{
    "classifier": "StandardQuery",
    "precondition": "true",
    "condition": "count(_classifications) > 0",
    "matchaction": {
        "PII": {
            "Confidentiality %": 99.9
        }
    },
    "defaultaction": [],
    "parameters": {
        "STANDARD_QUERY_EXPRESSION": "\"CONFIDENTIAL - FOR CODELATHE PERSONNEL
ONLY\"~2"
    }
}
```

Classifying files based on word similarity

```
{
    "classifier": "StandardQuery",
    "precondition": "true",
    "condition": "count(_classifications) > 0",
    "matchaction": {
        "PII": {
            "Confidentiality 2 %": 99.9
            "
}
```

```
}
},
'defaultaction": [],
'parameters": {
    "STANDARD_QUERY_EXPRESSION": "CONFIDENTIAL~1"
}
```

Classifying files based on a boolean combination of SOLR queries

```
{
    "classifier": "StandardQuery",
    "precondition": "true",
    "condition": "count(_classifications) > 0",
    "matchaction": {
        "PII": {
            "PII": {
                "Confidentiality 3 %": 99.9
            }
            // defaultaction": [],
            "defaultaction": [],
            "parameters": {
                "STANDARD_QUERY_EXPRESSION": "\"CONFIDENTIAL\" NOT \"NOT CONFIDENTIAL\""
        }
}
```

Using ICAP DLP with CCE

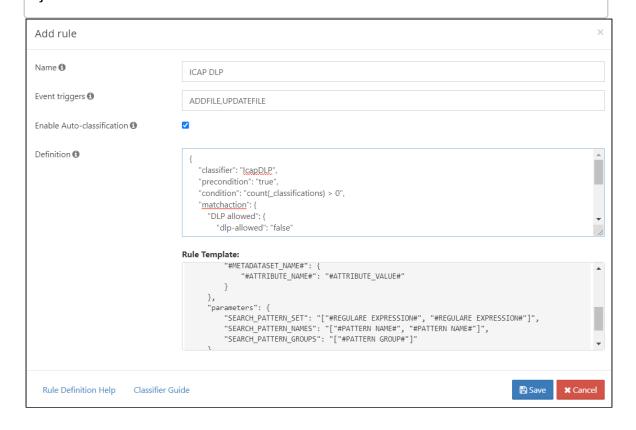
If you have integrated ICAP DLP with FileCloud, you can create a content classification rule that flags files, thereby enabling DLP to prevent downloading or sharing of those files.

To set up your system to use ICAP DLP with CCE:

- In ePolicy Orchestrator, add rules for flagging files to block from downloads or shares.
 For example if file contains 10 or more bank account numbers, flag it for blocking (since it may be a data leak).
- 2. Add custom metadata that can be set to true or false depending on whether or not McAfee authorizes the file. For example add the metadata parameter **dlp-allowed** with possible values of **true** and **false**.
- 3. Set up a FileCloud CCE rule that uses the classifier **IcapDLP**. The CCE rule is applied each time a file is uploaded. It sets **dlp-allowed** to **true** or **false** depending on whether or not McAfee authorizes it.

- a. To go to the Manage Content Classification Rules screen, in the Admin portal navigation panel, click Smart Classification.
- b. Click Add rule. The Add rule dialog box opens.
- c. In Name, enter a name for the rule.
- d. In Event triggers, enter ADDFILE, UPDATEFILE.
- e. In **Definition**, enter a rule similar to:

```
{
    "classifier": "IcapDLP",
    "precondition": "true",
    "condition": "count(_classifications) > 0",
    "matchaction": {
        "DLP allowed": {
            "dlp-allowed": "false"
        }
    },
    "defaultaction": {
        "DLP allowed": {
            "dlp-allowed": "true"
        }
    },
    "parameters": []
}
```



f. Click Save.

A Manage Content Classification Rules							
Rules				🕀 Add ru	le 📃 Manage Pattern Group		
Rule Name	Match Action	Status	Auto-classification Enabled	Last Run Date/Time	Actions		
Condential Documents	{"Confidential Documents":("Confidential":"Yes")}	EXECUTED	YES	May 6, 2021 1:10 PM	> 🔅 🗙		
ICAP DLP	{"DLP allowed":{"dlp-allowed":"false"}}	UNEXECUTED	YES		A 1		

Now, in FileCloud Smart DLP, add rules that prevent download or sharing for files with the **dlp-allowed** metadata parameter set to false.

Smart DLP

(i) Data leak prevention (DLP) features are only available in some versions of FileCloud Online.

(i) Data Leak Prevention is available in FileCloud version 19.2 and later.

DLP crawlers run on all daily cron jobs and remove shares that violate any SHARE ENFORCE rules.

Overview

Due to increasing privacy requirements, it is important for organizations to be able to monitor neglectful or malicious activity that can result in the loss of confidential data. The data leak or loss can occur at end points due to user actions, during transit, or while at rest. Data at rest leak prevention relies on encryption technologies and physical security of media, whereas endpoint leak prevention refers to the ability to prevent data leak from an application's end point (e.g. the recipient of a data transfer).

Data leak prevention (DLP) is a FileCloud feature that enables administrators to closely control the degree to which users can access, edit, download, and transfer their organization's files and folders. While DLP can be useful for many different kinds of data, it can be especially critical for the secure handling of Personal Identification Information (PII), Personal Health Information (PHI), and Payment Card Information (PCI). DLP also offers greater security to organizations

that are required to operate in compliance with HIPAA or GDPR.

Smart Classification works in conjunction with DLP to streamline, automate, and strengthen data security.

More Information:

FileCloud Videos

FileCloud Blogs

• Enforce data protection in FileCloud with Smart DLP

In this section

- Creating Data Leak Prevention Rules
- Example Rules
- Rule Expressions
- How to secure documents with Smart DLP & CCE
- Troubleshooting DLP

Creating Data Leak Prevention Rules

() Only administrators with DLP privileges are able to create, modify, and delete DLP rules.

To create and edit DLP rules, follow the steps below:

1. Access FileCloud's Admin portal > Governance > Smart DLP

FILECLOUD									💄 admin 🔻
HOME ▲ ŵ Dashboard	*) Smart DLP							• Add DLP Rule
USERS / GROUPS 🔺 온 Users		Rule Name	WHEN (Affected User Action)	IF (Rule Expression)	THEN (DLP Action)	MODE	Recent Violations	Active	Actions
양 Groups & Admins		Authorized Partners	DOWNLOAD	(_user.inGroup('Company XYZ') and _reque st.remotelp in ['43.12.45.78']) or (_user.inGr oup('Intenral'))	DENY	ENFORCE	0		<u>A</u> 2° ü
MANAGE 🔺 다 Team Folders 중 Network Share		Confidential Documents	SHARE	(_metadata.existsWithValue('Confidential Documents.Confidential', 'Yes') and _share. onJyUsersFromDomain('codelathe.com')) o r (_metadata.existsWithValue('Confidential Documents.Confidential', 'No'))	ALLOW	ENFORCE	0		<u>A</u> 2° ü
 Solder Permissions Notifications 		US Social Number	SHARE	(_metadata.existsWithValue('US Social Nu mber.Detection', 'Yes') and _share.onlyUser sFromDomain('codelathe.com')) or (_meta data.existSWithValue('US Social Number.D etection', 'No'))	ALLOW	ENFORCE	0		⚠ ๔ ฃ
DEVICES		Public Sharing Allowed	SHARE	(_share.hasUsersFromDomain('gmail.co m'))	DENY	ENFORCE	0		▲ ໕ 🏛
Device Management		Private Sharing Only	SHARE	(_metadata.exists('cce.pii'))	DENY	ENFORCE	0		▲ ໕ 🏛
Dashboard		Login US only	LOGIN	(_request.remoteCountryCode == 'US')	DENY	ENFORCE	0		A C Ū
 Retention Smart DLP Smart Classification 									
 Compliance Center 									

2. To create a new rule, click **Add DLP Rule.** The **Create Rule** dialog box opens:

Create Rule		0
Rule Name 🕕	Outside Access Rule	
Affected User Actions ①	DOWNLOAD	~
Rule Expression ①	Rule Expression Builder Rule Expression Text Editor	
DLP Action ①	DENY	~
DLP Mode ①	ENFORCE	~
Rule Notification (optional) ③		li
Rule Creation Help	Cancel	Create

- 3. Fill in the fields.
 - Rule Name: A name that identifies the DLP rule.
 - Affected User Actions: User actions that trigger the DLP rule (DOWNLOAD, SHARE, or LOGIN).
 - **Rule Expression**: Criteria for triggering the DLP rule. A minimum of one expression is required in order to create a DLP rule.

You can either use the **Rule Expression Builder** to help you construct a rule expression or type it in manually using the **Rule Expression Text Editor**.

For help using the **Rule Expression Builder,** see Create a rule with the rule expression builder, below. See a list of Rule Expressions.

- **DLP Action**: Allow or Deny the user action if the parameters of the rule expression are triggered.
- **DLP Mode**: If a rule is violated, whether or not the action will be prevented. Regardless of the mode, the system creates an audit log.

Options are:

- **Enforce** (Default) The action will be prevented.
- **Permissive** The action will not be prevented.
- **Rule Notification**: Message displayed to users when a rule is violated. Does not apply to log-in rules. The following HTML tags are supported: <a>,
, and . Only full urls (those beginning with http:// or https://) can be rendered.
- 4. Click **Create**.

The rule appears in the **DLP Rules** table.

Rule Name	WHEN (Affected User Action)	IF (Rule Expression)	THEN (DLP Action)	MODE	Recent Violations	Active	Actions
Outside Access Rule	DOWNLOAD	_file.path == '/myuser/mydir/myfile.pdf'	DENY	ENFORCE	0	0	A 🕑 🗙

Create a rule with the rule expression builder

The Rule Expression Builder helps you ensure that your rules have the right parameters and correct formatting. The first example demonstrates how to use the expression builder to create a simple single-condition rule. The second example shows how to create a more complex rule that contains several conditions.

To create a rule with a simple condition

This rule blocks downloading of files with metadata indicating that they contain personal identification information (PII).

- 1. Go to the DLP page and click **Add DLP**.
- 2. In the Create Rule dialog box, enter a Rule Name, and choose DOWNLOAD in Affected User Actions.

Block PII Downloading	
DOWNLOAD	
Rule Expression Builder Rule Expression	n Text Editor
DENY	
ENFORCE	
	Cancel Create
	DOWNLOAD Rule Expression Builder Rule Expression DENY

The Rule Expression Builder opens.

4. Click ADD.

Rule Expression Builder	8
• ADD	

You are given two choices: **New Rule** and **New Rule Group**.

- 5. Since this is a simple rule, choose **New Rule**. Fields for creating a rule appear.
- 6. The top field shows options based on the Affected User Action. Since the Affected User Action is DOWNLOAD, the options are Request, File, Metadata, and User.

Request					-
ip equals	True	False			
43.12.45.78					
Example: 43.12.45.78	0				
				Cancel	Save
O ADD					

7. Choose Metadata.

8. In the next field, choose **exists**, and in the last field, choose the metadata set and the parameter that indicates that the file contains PII.

For this example, the metadata set is cce and the parameter is pii.

Rule Expression Builder		8
Metadata		•
exists True 🔵 False		
cce.pii		
Example: cce.pli 🖞 🛈		
	Cancel	Save
O ADD		

- 9. Click **Save**, and then click **Update**.
- 10. In the **Rule Update** dialog box, choose a **DLP Action**, **DLP Mode**, and optionally enter a **Rule Notification**, and click **Create**.

The rule appea	ars in the Smar	t DLP list.				
Block PII Downloading	DOWNLOAD	(_metadata.exists('cce.pii'))	DENY	ENFORCE	0	⚠ ⊄ 🗓

To create a rule with multiple conditions

This rule blocks downloading of a file either:

- Sent from a user in the group User OR
- Sent from a user in the group Manager and sent from the Server address 1.1.1.1.
- 1. Go to the DLP page and click **Add DLP**.
- 2. In the Rule Update dialog box, enter a Rule Name, and choose DOWNLOAD in Affected User Actions.
- 3. Click **Rule Expression Builder**.
- 4. Click Add.

You are given two choices: New Rule and New Rule Group.

5. To add the condition that only checks if the user is in the **User** group, choose **New Rule**.

6. Fill the fields with **User**, **in group**, and **Users**.

tule Expression Builder		
User		
in group	True False	
Users		
Example: managers ()	1	
		Cancel Save
O ADD		

7. Click Save.

Rule Expression Builder	8
if User in group Users	
New Rule New Rule Group	

- 8. Click **ADD** again.
- Since you are adding a two-condition rule, click New Rule Group.
 Clicking New Rule Group will enclose the conditions that follow in parentheses and embed it one level.
 You may embed up to four levels of rule groups.
- 10. Choose the indented **ADD** directly under **AND**.

Make sure you click the correct **ADD** link.

Rule Expression Builder	8
if User in group Users	
AND V	
	â
O ADD	

11. Click New Rule.

Rule Expression Builder	8
if User in group Users	
AND V	
G ADD	â
I New Rule	
New Rule Group	

- 12. Fill in the fields with **User**, in group, and Managers.
- 13. Click **ADD** directly under the fields for this condition, and choose **New Rule**.

Rule Expression Builder					
if User in group Users					
AND V					
User					•
in group	True 🚺 False				
Managers					
Example: managers 🔘 (D				
	• • • • • • • • • • • • • • • • • • •			Cancel	Save
(ADD					ā
New Rule					
😂 New Rule Group					
		r			
		l	Cancel	U	pdate

14. Enter the fields **Request**, **ip equals**, and **1.1.1.1**.

15. Click **Save** for each of the conditions.

User in group Users			
AND V			
User			•
in group	True False		
Managers			
Example: managers	0		
			-
		Cancel	Save
AND V		Cancel	Save
AND V		Cancel	Save
AND V Request		Cancel	Save
	True False	Cancel	
Request	True False	Cancel	
Request ip equals	i de la se	Cancel	
Request ip equals	i de la se	Cancel	

16. The rule expression is saved.

17. Since the expression is checking if one condition OR the other condition exists, change the top **AND** to **OR**.

Rule Expression Builder	0
if User in group Users	
AND V	
AND OR	
if User in group Managers	
AND Y	
if Request ip equals 1.1.1.1	
O ADD	â
O ADD	
	Cancel Update

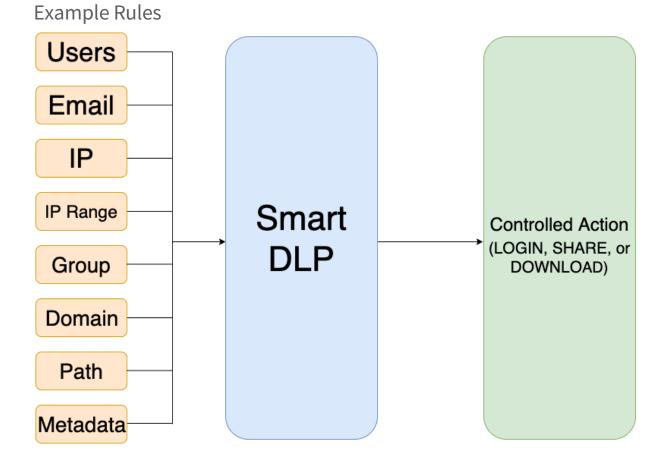
- 18. Click Update.
- 19. Make sure your **Rule Expression** is correct, then fill in values for **DLP Action**, **DLP Mode**, and **Rule Notification**, and click **Create**.

The rule appears in the **Smart DLP** list.

Download by internal managers only	DOWNLOAD	(_user.inGroup('Users') (_user.inGroup('Manager s') && _request.remotelp == '1.1.1.1'))	DENY	ENFORCE	0	<u>A</u> C İ

• If the Rule Expression is not valid, an error will be thrown.

DLP crawlers run on all daily cron jobs and remove shares that violate any SHARE ENFORCE rules.



(i) Multiple DLP Actions

Each affected user action requires its own individual DLP rule. For instance, if an admin wanted to use the same Rule Expressions to control both DOWNLOAD and SHARE, two rules using the same Rule Expressions would be required.

DLP crawlers run on all daily cron jobs and remove shares that violate any SHARE ENFORCE rules.

Read how to create your own DLP rules

Learn more about DLP Rule Expressions

ecti ve	Affe cted User Acti on	Rule Expressions	Example Rule Expression	D L P A ct io n	RESUL T
rol	DO WNL OAD	 _file.path _file.pathStartsWit _file.ext _file.pathContains _file.pathMatches _file.fileNameCont ains 	<pre>_file.path == '/myuser/mydir/myfile.pdf' OR _file.pathStartsWith('/myuser/mydir') OR _file.ext == 'pdf' OR _file.pathContains('/myuser/mydir') OR _file.pathMatches('/myuser/mydir') OR _file.fileNameContains('mrn')</pre>	D E N Y	Users cannot downl oad files from the path expres sed in the rule or with the extens ion or term in the filena me.

Obj ecti ve	Affe cted User Acti on	Rule Expressions	Example Rule Expression	D L P A ct io n	RESUL T
Cont rol dow nloa ds and shar es of files base d on met adat a	DO WNL OAD SHA RE	 _metadata.exists('metadataValue") _metadata.existsAll('metadataValue") _metadata.existsWithValue(metadataValue, value) _metadata.existsWithValueInArray(metadataValue, value) _metadata.existsWithCondition(metadataValue, value) _metadata.existsWithCondition(metadataValue, operator, value) Mote: The metadataset and the attribute specified cannot contain periods within their names. For example, cce.pii is valid, but cce.x.pii.y is not valid. 	<pre>_metadata.exists('cce.pii') OR _metadata.existsAll('cce.pii') OR _metadata.existsWithValue('content.catego ry', 'confidential') OR _metadata.existsWithValueInArray('content .categories', 'pii') OR _metadata.existsWithCondition('content.Ri sk Level', '>', 6)</pre>	A LL W	Users can downl oad and share files with associ ated metad ata.

Obj ecti ve	Affe cted User Acti on	Rule Expressions	Example Rule Expression	D L P A ct io n	RESUL T
Cont rol logi n/ acce ss and dow nloa ding of files base d on IP/ Devi ce/ IP Ran ge/ cou ntry cod e	DO WNL OAD LOGI N	 _request.remotelp _request.agent _request.inlpv4Ra nge(lowlp, highlp) _request.remoteC ountryCode Note: To use this expression, the Show Geo IP Chart setting in the Settings > Admin screen must be set to TRUE. _request.inlpV4Ci drRange(cidrRang e) 	<pre>_request.remoteIp == '43.12.45.78'" OR _request.agent == 'Unknown'" OR _request.inIpv4Range('138.204.26.1', '138.204.26.254)" OR _request.remoteCountryCode == 'US' OR _request.inIpV4CidrRange('10.2.0.0/16')</pre>	D E N Y	Users from the given IP, agent, IP range, countr y code, or CIDR ip range will not be permit ted to login or downl oad.
	LOGI N	 _request.isAdminL ogin 	_request.isAdminLogin	D E N Y	If the

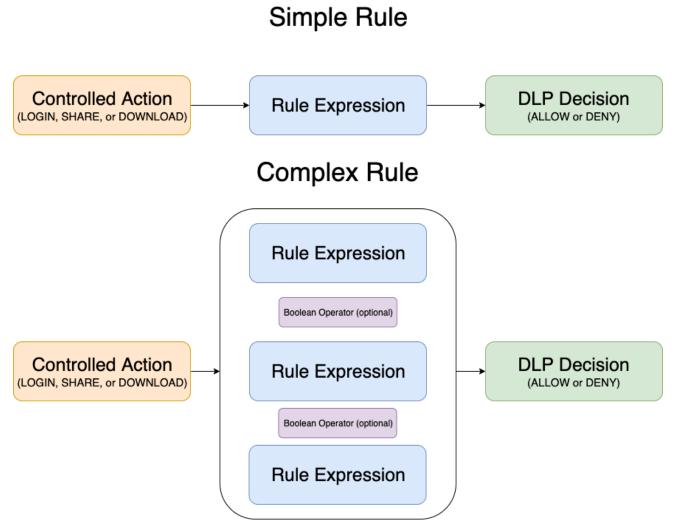
Obj ecti ve	Affe cted User Acti on	Rule Expressions	Example Rule Expression	D L P A ct io n	RESUL T
Cont rol logi n/ acce ss, dow nloa ding and shar ing of files base d on user attri bute s	DO WNL OAD LOGI N SHA RE	 _user.username _user.userType !_user.inGroup _user.isMasterAd min 	<pre>_user.username =='FileCloudUser1' OR _user.email == 'john.Doe@mail.com' OR user.userType == 'Guest Access' OR !_user.inGroup('managers') OR _user.isMasterAdmin DLP Action: ALLOW/DENY</pre>	A U W	Users with the given userna me, email addres s, user type, any user not in the group 'mana gers', and the master Admin will be permit ted to login, as well as downl oading and sharin g files.

Obj ecti ve	Affe cted User Acti on	Rule Expressions	Example Rule Expression	D L P A ct io n	RESUL T
Cont rol file shar ing	DO WNL OAD SHA RE	 _share.path _share.public _share.onlyAllowe dEmails _share.allowedUs ers _share.allowedGr oups _share.hasUsersFr omDomain(domai n) _share.onlyUsersF romDomain(doma in) _share.pathStarts With(start) _share.pathContai ns(text) _share.pathMatch es(pattern) Note: share.pathMatches(pa ttern) supports the wildcards:	<pre>Rule Expression: _share.public OR _share.onlyAllowedEmails OR _share.allowedUsers OR _share.allowedGroups OR _share.hasUsersFromDomain('gmail.com') OR _share.onlyUsersFromDomain('mycompany.com ') OR _share.pathStartsWith('/myuser/mydir') OR _share.pathContains('sometext') OR _share.pathMatches('*sometext*')</pre>	A LL O W	Select users select groups , and users comin g from a partic ular domai n can access a specifi ed or matchi ng path.

Obj ecti ve	Affe cted User Acti on	Rule Expressions	Example Rule Expression	D L P A ct io n	RESUL T
Cont rol file dow nloa d and logi n com bina tion s	DO WNL OAD LOGI N	 !_user.inGroup _metadata.exists WithValue _request.remotelp _request.isAdminL ogin ! _request.inIpV4Ci drRange 	<pre>Rule Expression: !_user.inGroup('superadmin') and _metadata.existsWithValue('PII.Confidenti ality Level', 'HIGH') OR _user.inGroup('external') or _request.remoteIp in ['45.45.45.1', '45.45.45.2', '45.45.45.7'] OR _request.isAdminLogin && ! _request.inIpV4CidrRange('10.2.0.0/16') DLP Action: ALLOW/DENY</pre>	DENY	Users in (or not in) the given groups or IP ranges will not be able to downl oad files or access paths with the given metad ata (in this case, a HIGH value for the attribu te 'PII.Co nfiden tiality Level' OR Users loggin g into the admin portal in the given IP range will not be

Obj ecti ve	Affe cted User Acti on	Rule Expressions	Example Rule Expression	D L P A ct io n	RESUL T
Cont rol shar ing base d on dom ain of user doin g the shar ing	SHA RE	 _user.isEmailInDo main(domainsToC heck) 	Rule Expression: _user.isEmailInDomain('example.com', 'mail.com')	A LL O W	Users with one of the specifi ed email domai ns are per mitted to share files.

Rule Expressions



Rule Expressions are the parameters by which DLP policies determine a user or group's ability to login into the FileCloud system, as well as to download or share files. Rule Expressions also enable administrators to access detailed information about user activity on their FileCloud installations.



DLP Rule Expressions

Expression	What does the expression do?	Sample returned value	Applic able action s
_request.remotelp	Returns the IP address that was used to execute the action.	_request.remotelp == '43.12.45.78'	DOWN LOAD, LOGIN
_request.isAdminLogin	Returns true for admin login request.	_request.isAdminLogin	LOGIN
_request.agent	Returns the user agent that was used to execute the action. The possible values are: 'Cloud Drive', 'Cloud Sync', 'Unknown', 'Web browser', 'Android', 'iOS', 'MS Outlook' and 'MS Office'.	_request.agent == 'Unknown'	DOWN LOAD, LOGIN
_request.inIpv4Range(lowI p, highIp)	Checks if the IP address that was used to execute the action is part of a given IP range, represented by limits of the range (given with the parameters).	_request.inlpv4Range('138.2 04.26.254', '138.204.26.1')	DOWN LOAD, LOGIN
_request.remoteCountryCo de	Returns the two-character uppercase ISO country code. Returns "Unknown" if country could not be determined. Note : To use this expression, the Show Geo IP Chart setting in the Settings > Admin screen must be set to TRUE .	_request.remoteCountryCod e == 'US'	DOWN LOAD, LOGIN
_request.inIpV4CidrRange(cidrRange)	Checks if the IP address used to execute the action matches the given CIDR range.	_request.inlpV4CidrRange('1 0.2.0.0/16')	DOWN LOAD, LOGIN
_user.username	Returns the name of the user trying to execute an action. Note: This cannot be used to identify the master Admin since "admin" is not stored as a user. Instead use user.isMasterAdmin (see below).	_user.username == 'FileCloudUser'	DOWN LOAD, LOGIN , SHARE

Expression	What does the expression do?	Sample returned value	Applic able action s
_user.email	Returns the email of the user trying to execute an action.	_user.email == 'john.doe@mail.com'	DOWN LOAD, LOGIN , SHARE
_user.userType	Returns the type of user that is trying to execute the action. The available types are: 'Full Access', 'Limited Access', 'Guest Access'. Note : Prior to FileCloud 22.1, the three user types were Full, Limited , and Guest . Beginning in FileCloud 22.1 Limited users are referred to as External users; however, the DLP rule expression still requires the use of the value 'Limited Access' to refer to these users.	_user.userType == 'Guest Access'	DOWN LOAD, LOGIN , SHARE
_user.inGroup(groupName)	Checks if a user is part of a given group.	!_user.inGroup('managers')	DOWN LOAD, LOGIN , SHARE
user.isEmailInDomain(dom ainsToCheck)	Checks if a user's email id matches a given list of domains. The 'domainsToCheck' parameter can be a single domain, or a comma-separated domains list.	_user.isEmailInDomain('exa mple.com', 'mail.com')	SHARE
user.isMasterAdmin	Checks if user is the master Admin. Note: _user.username =='admin' cannot be used in place of this to identify the master Admin since "admin" is not stored as a user.	user.isMasterAdmin	DOWN LOAD, LOGIN , SHARE
_file.path	Returns the path that was accessed.	_file.path == '/myuser/ mydir/myfile.pdf'	DOWN LOAD
_file.pathStartsWith(start)	Returns true when the path has been accessed. Starts with the given `start` parameter.	_file.pathStartsWith('/ myuser/mydir')	DOWN LOAD

Expression	What does the expression do?	Sample returned value	Applic able action s
_file.ext	Checks if the file has the extension specified.	_file.ext == 'pdf'	DOWN LOAD
_file.pathContains(path)	Checks if the file path contains the sub-path specified.	_file.pathContains('/myuser/ mydir')	DOWN LOAD
_file.pathMatches(path)	Checks if the file path matches the path specified.	_file.pathMatches('/myuser/ mydir')	DOWN LOAD
_file.fileNameContains(text)	Checks if the filename includes the given text.	_file.fileNameContains('mrn')	DOWN LOAD
	data rule, the metadata set and the attribute sp e.pii is valid, but cce.x.pii.y is not valid.	ecified cannot contain periods w	vithin
_metadata.exists(metadat aValue)	Checks if the path or one of its children, have the given metadata attribute set. The metadata attribute must be provided using the `metadataSet.attribute` notation.	_metadata.exists('cce.pii')	DOWN LOAD, SHARE
_metadata.existsAll(metad ataValue)	Checks if the path or all of its children, have the given metadata attribute set. The metadata attribute must be provided using the `metadataSet.attribute` notation.	_metadata.existsAll('cce.pii')	DOWN LOAD, SHARE
_metadata.existsWithValue (metadataValue, value)	This function is similar to the _metadata.exists(metadataValue) function, but it checks if the metadata attribute (first parameter) exists, and if its value is equal to a given value (second parameter).	_metadata.existsWithValue(' content.category', 'confidential')	DOWN LOAD, SHARE
_metadata.existsWithValue InArray(metadataValue, value)	This function is similar to the `_metadata.existsWithValue(metadataValu e, value) function, but checks whether an array metadata attribute contains the specified value.	_metadata.existsWithValueI nArray('content.categories', 'pii')	DOWN LOAD, SHARE

Expression	What does the expression do?	Sample returned value	Applic able action s
_metadata.existsWithCond ition(metadataValue, operator, value)	This function is similar to the _metadata.existsWithValue(metadataV alue, value) function, but it takes an operator parameter (second parameter) that will be used to compare the metadata attribute value (first parameter) with the provided value (third parameter). The available operators are: `==` (equals), `!=` or `<>` (not equal), `>` (greater than), `<` (less than), `>=` and `<=`. When the metadata and the third operator are numbers, they'll be compared as numbers. If any parameter is not a number, it will be compared alphabetically (dates, for example, cannot be compared using `>, <, >=, <=`). The sample checks if the risk level of a document is greater than 6.	_metadata.existsWithCondit ion('content.Risk Level', '>', 6)	DOWN LOAD, SHARE
_share.path	Returns the path of the share.	_share.path == '/myuser/ mydir/myfile.pdf'	SHARE
_share.public	Returns true or false if the share is public or not.	_share.public	SHARE
_share.onlyAllowedEmails	Checks if all users receiving a share match one of the emails or one of the domains specified in the rule. A domain may be specified instead of an email by using *, for example *@gmail.com. If any recipients do not match an email or domain specified, the share is denied.	'true' if all share recipients are in a domain or email in the onlyAllowedEmails list. 'false' if any share recipient is not in any of the domains or emails in the onlyAllowedEmails list.	SHARE
_share.allowedUsers	Returns a list of the allowed users of the share (including the users in an allowed group). The list contains the users' email addresses.	'john.snow@mail.com' in _share.allowedUsers	SHARE
_share.allowedGroups	Returns a list of the allowed groups of the share.	'EVERYONE' in _share.allowedGroups	SHARE

Expression	What does the expression do?	Sample returned value	Applic able action s
_share.hasUsersFromDom ain(domain)	Checks if the allowed users list has any users with an email domain that matches the given domain. In the provided sample, the expression will return true if any user with a gmail domain is included as an allowed user (directly or through a group). This method only makes sense with DENY rules.	_share.hasUsersFromDomain('gmail.com')	SHARE
_share.onlyUsersFromDom ain(domain)	Similar to the _share.hasUsersFromDomain(domain) function, but checks if the allowed users list has any user with an email domain that doesn't match the given domain. In the provided sample, the expression only returns true if all users have their emails in the `mycompany.com` domain. This method only makes sense with ALLOW rules.	_share.onlyUsersFromDoma in('mycompany.com')	SHARE
	 Do not use this expression in an OR condition with another expression; this could cause shares to be denied unintentionally. Instead use _share.onlyAllowedEmails with a wildcard. For example, instead of: 		
	(_share.onlyUsersFromDomain('g mail.com') _share.onlyAllowedEmails('testus er@test.com'))		
	use: _share.onlyAllowedEmails('*@gm ail.com','testuser@test.com')		
_share.pathStartsWith(star t)	Returns true when the shared path starts with the given `start` parameter.	_share.pathStartsWith('/ myuser/mydir')	SHARE

Expression	What does the expression do?	Sample returned value	Applic able action s
_share.pathContains(text)	Returns true when the shared path contains the given `text` parameter.	_share.pathContains('somet ext')	SHARE
_share.pathMatches(patter n)	Returns true when the shared path matches the given `pattern` parameter. Wildcards are supported: `*` for any sequence of characters and `#` for a single character.	_share.pathMatches('*some text*')	SHARE

Logical Operators

DLP allows users to implement logical operators to further refine and specify their data leak prevention rules.

Logical Operator Examples

Applicabl e Action	DLP Rulin g	Rule Expressions	Result
DOWNLO AD	DENY	_user.username == 'john' && _user.inGroup('engineers')	User 'john' in group 'engineers' will not be permitted to download any files.
DOWNLO AD	ALLO W	_user.inGroup('accounting') _request.remotelp == '69.89.31.226.'	Users in group 'accounting' or users from the listed IP will be permitted to download files, but no other users will be permitted.
SHARE	DENY	!_user.inGroup('designers')	Users who are not a member of group 'designers' will not be permitted to share files.

How to secure documents with Smart DLP & CCE

- Allow downloading files from authorized partners only
- Detect documents with US Social Security Number and allow sharing only with specific domains
- Limit Web Login to a specific group of users

Allow downloading files from authorized partners only

Overview:

The purpose of this example is to create a Smart DLP rule that allows downloading of files from authorized partners of your company initiated from a specific public IP address or a list of public IP addresses.

In the example, a FileCloud group is named after the partner company, "Company XYZ", and contains users from this company.

Another FileCloud group named "Internal" contains all the internal users from your company.

Configuration Steps:

1. Create Smart DLP Rule

- Open the FileCloud Admin portal, and in the navigation panel, click **Smart DLP**.
- Add a new DLP rule.
- Configure the rule to allow downloads from users in the group "Company XYZ" when requests are initiated from a specific IP or multiple specific IPs. In the second image below, multiple specific IPs would appear as _request.remotelp in ['IP1', 'IP2', 'IP3'])
- In the image below, (_user.inGroup('Internal')) allows downloads from users in group "Internal" initiated from any IP.

FILE	CLOUD					Add DL	.P rule		å admin ◄
Network Fo User Share:		Manage DL	P Rules						+ Add DLP Rule
Rest Folder PerrNotification		Rule Name	WHEN (Affected User Action)	IF (Rule Expression)	THEN (DLP Action)	MODE	Recent Violation	Active	Actions
DEVICES	1	US Social Security Number	DOWNLOAD	_metadata.existsWithValue('US Social Security Number.Detection', 'Yes')	DENY	ENFORCE	0		▲
GOVERNANCE		Go to smar	t DLP						
Smart DLP Smart Class	_								

Create Rule		8
Rule Name (i)	Authorized Partners	
Affected User Actions (i)	DOWNLOAD	•
Rule Expression (i)	Rule Expression Builder Rule Expression Text Editor	
	(_user.inGroup('Company XYZ') && _request.remotelp == '43.12.45.78' _user.inGroup('I nternal'))]
DLP Action	DENY	•
DLP Mode 🕄	ENFORCE	•
Rule Notification (optional)		1.
Rule Creation Help	Cancel Create	

2. Test Smart DLP rule

- As a user in the "Internal" group, log in to the FileCloud user portal.
- Share a file with a user from the group "Company XYZ".
- Log in to the user portal as a user from the group "Company XYZ" from a public IP that is allowed by the DLP rule. Confirm that the file downloads successfully.
- Log in to the user portal as a user from the group "Company XYZ" from a public IP that is not allowed by the DLP rule. Confirm that file download is forbidden.

FileCloud Online Version 23.232 Governance

			Q Search		•	🌲 🛭 🕈 Gaby 🕶
	 > jenniferp nniferp ms 			S Erro Dov ner	wnload forbidden by	DLP rule 'Authorized Part
	Name A	Modified	Size			jenniferp
☆	User Info.txt		Ø □ →	â A	No	activities found

Detect documents with US Social Security Number and allow sharing only with specific domains

Overview:

The purpose of this example is to create a classification rule that detects and tags documents with US Social Security Numbers, and then create a DLP rule to prevent sharing the tagged documents with email addresses other than those using your company domain. For documents that do not contain US Social Security Numbers, sharing is allowed with all domains.

Configuration Steps:

1. Create Metadata Set

• In the navigation pane, click Metadata, then click Add Metadata Set.

Notifications	🛔 Manage N	/letadata S	ets			etadata Set		Add Metadata
VICES] Devices	Filter	Q Filter by me	tadata set name	Show 10) Items 👻			
VERNANCE	Metadata Set Name	De	cription	Status	Set Type	User Count	Group Count	Actions
Dashboard Retention	Default		ult metadata set definition will be automatically nd to every single File and Folder.	Enabled	DEFAULT	0	0	Z ×
Smart DLP	Image metadata	Ima	ge metadata (EXIF)	Enabled	Built-in	0	1	8 ×
Smart Classification	Document Life Cycle meta	adata Stor	es information regarding document life cycle	Enabled	Built-in	0	0	8 ×
SC.	Microsoft Office Tag metae	data Mic	osoft Office Tag metadata (MSOT)	Enabled	Built-in	0	1	8 ×
Audit	Color Tagging metadata	Cole	r Tagging metadata set	Enabled	Built-in	1	1	Z ×
Alerts	DLP allowed		ates whether DLP should be able to prevent nloading or sharing of these files.	Enabled	Custom	0	0	×
User Locks	Confidential Documents	Con	fidential Documents	Enabled	Custom	0	1	Z ×
Workflows								
Reports	Click Metadata							
Federated Search								

- Create a metadata set with the attribute **Detection** of type text.
- Choose the Users/Groups that can see this metadata and provide read permission.

Metadata Set		Permissions			
Name*		Users Groups	Paths		
US Social Number					
Description*		Add Group			
US Social Number Detection	ו //		Name	Read Permission	Write Permission
Disabled		EVERYONE			
			R Page 1	of 1 🕨 🕅	
Attributes			R Page 1	of 1 🕩 🕅	
Attributes			R Page 1	of 1 🕑 街	
	Attribute Type	Description	Rege 1	of 1 🕨 🕅 Status	Actions
	Attribute Type	Description	Rege 1		Actions

2. Create US Social Number regex pattern

- In the navigation panel, click Settings, then click the Content Search tab.
 Check Enable PII Search.

- Admins NEW		Authentication Admin Database Email Endpoint Backup License Policies SSO Content Search Web Edit Team Folders Third Party Integratic
MANAGE	Server Storage	
🗁 Team Folders	A Solr server has to be up	and running before FileCloud can be configured for content search.
Network Folders		Click Content Search
产 User Shares	Solr Configuration	
🕰 Folder Permissions	Content Search Status	Solr configured DReset
Notifications		Content Search Component Status Reset Soir configuration.
DEVICES		
Devices	URL*	http://127.0.0.1
GOVERNANCE		URL of the Soir server
1 Dashboard	Port*	8983
Retention	Port-	useds Listening port of the Solr server
Smart DLP		usening port of the soft server
Smart Classification	App Context*	solr
MISC.		Soir application context. For typical use no need to change the default
Audit	Config Prefix*	
Alerts	Conlig Prenx*	fccore1
User Locks		Soir configuration prefix. For typical use no need to change the default
A Workflows	Managed Storage	Managed : 232, Indexed : 232
Reports	Index Status	Current index status of files in managed storage
Q Federated Search	Click settings	Reindex Sync Check
🚯 Metadata	Search Tokenizer	Update
SETTINGS	-	Search tokenizer update available, Click to update.
Settings		
CUSTOMIZATION	Enable Solr OCR	
Customization		OCR is disabled 3 Enable PII Search
SYSTEM	Enable PII Search	
 Checks 	chable Pil Search	Enable/Disable searching by advanced Personally Identifiable Information(PII)
↑ Upgrade		patterns

• Add a PII pattern for US Social Number.

	Enable/Disable search patterns	ning by advanced Personally Identifia	ble Information PII)
	≡ Manage PII Pa	O Add C	
	Q Filter b	y name or pattern	
	Name	Regex	Actions
	Belgium National Number	[0-9]{2}.[0-9]{2}.[0-9]{2}-[0-9] {3}.[0-9]{2}	×
	Croatia Identity Card Number	[0-9]{9}	✓ ×
	Croatia Personal Identification (OIB) Number	[0-9]{10}	2 ×
	Denmark Personal Identification Number	[0-9]{6}-[0-9]{4}	2 ×
	EU Debit Card Number	[0-9]{16}	Z ×
	Finland National ID	[0-9]{6}[-+a][0-9]{3}[0-9a-zA- Z]{1}	✓ ×
	Finland Passport Number	[a-zA-Z]{2}[0-9]{7}	Z ×
	France Driver's License Number	[0-9]{12}	Z ×
	France National ID Card (CNI)	[0-9]{12}	Z ×
	France Passport Number	[0-9]{2}[a-zA-Z]{2}[0-9]{5}	x
	(H	Page 1 of 3 21 rows	H

Edit Pll Search Patte	m	×
Name	U.S. Social Security Number (SSN)]
Regex	[0-9]{3}-[0-9]{2}-[0-9]{4}	
	Update	CANCEL

3. Create Smart Classification Rule

- Log in to the FileCloud Admin portal, and in the navigation panel, click **Smart Classification**.
- Add a new classification rule

FILECLO	UD				Click	Add rule	🛓 admin 🗸
 leam Folders Network Folders 	•	A Manage Conte	ent Classification Rules			2	
User Shares Solder Permissions		Rules				🕀 Add rule	■ Manage Pattern Group
Notifications DEVICES		Rule Name	Match Action	Status	Auto- classification Enabled	Last Run Date/Time	Actions
Devices GOVERNANCE	I.	Legal document metadata classification	0	EXECUTED	FALSE	Dec 11, 2020 6:01 AM	
Dashboard	L						
Retention	C	Click Smart Classificat	tion				
Smart DLP Smart Classification							
MISC.	I.						

• Make sure to specify the exact name of the metadata along with attribute name and PII Regex pattern. In the **Add Rule** dialog box, enter the following into **Definition:**

```
{
  "classifier": "Default",
  "precondition": "true",
  "condition": "count(_classifications) > 0",
  "matchaction": {
  "US Social Number": {
  "Detection": "Yes"
  }
  },
  "defaultaction": {
```

```
"US Social Number": {
  "Detection": "No"
  }
  },
  "parameters": {
  "SEARCH_PATTERN_NAMES": [
  "U.S. Social Security Number (SSN)"
  ]
  }
}
```

Add rule		×
Name	US Social Number	
Event triggers	FILEINDEXED	
Enable Auto-classification		
Definition 9 Enter the rule definition	{ "classifier": "Default", "precondition": "true", "condition": "count(_classifications) > 0", " <u>matchaction</u> ": { "US Social Number": { "Detection": "Yes" Rule Template:	•
	<pre>{ "classifier": "Default", "precondition": "#PRE CONDITION RULES#", "condition": "count(_classifications) > 0", /* available functions are join() & count() */ "matchaction": { "#METADATASET_NAME#": { "#ATTOTOTION NAME#": { "#ATTOTOTOTOTOTOTOTOTOTOTOTOTOTOTOTOTOTOT</pre>	*
Rule Definition Help Classifier G	iuide 🛛 🖹 Save	K Cancel

4. Create Smart DLP Rule

- Log in to the FileCloud Admin portal. In the navigation panel, click Smart DLP.
- Add a new DLP rule
- For Documents that contain US Social Number, the rule will check for metadata attributes "Detection" = "Yes" and allow sharing with only domain "codelathe.com"
- For Documents that do not contain US Social Number, the rule will check for metadata attributes "Detection" = "No" and allow sharing with all domains.

 User Shares Folder Permissions 	Manage DLP	Rules			Click Add	DLP Rule	2	Add DLP Rule
Notifications DEVICES	Rule Name	WHEN (Affected User Action)	IF (Rule Expression)	THEN (DLP Action)	MODE	Recent Violations	Active	Actions
Devices GOVERNANCE Dashboard	Authorized Partners	DOWNLOAD	(_user.inGroup('Company XYZ') and _request.remoteIp in ['43.12.45.78']) or (_user.inGroup('Intenral'))	DENY	ENFORCE	0		A 🗷 ×
 Retention Smart DLP Smart Classification 	Click Smart DLP	SHARE	<pre>(_metadata.existsWithValue('Confidential Documents.Confidential', 'Yes') and _share.onlyUsersFromDomain('Codelathe.com ')) or (_metadata.existsWithValue('Confidential Document: Confidential', 'Wo'))</pre>	ALLOW	ENFORCE	0		A Z ×

Create Rule		8
Rule Name ③	US Social Number	
Affected User Actions	SHARE	~
Rule Expression (i)	Rule Expression Builder Rule Expression Text Editor	
	(_metadata.existsWithValue('US Social Number.Detection') && _share.hasUsersFromDo main('codelathe.com') !_metadata.existsWithValue('US Social Number.Detection'))	
DLP Action (i)	ALLOW	~
DLP Mode 🕄	ENFORCE	~
Rule Notification (optional)		h
Rule Creation Help	Cancel	

5-Upload documents to Filecloud's User interface

- Log in to the FileCloud user portal.
- Upload multiple documents to My Files or to a Team Folder. Some of the files should contain US Social Number examples.
- The classification rule will detect document that contains US Social Numbers and tag them with the attribute "Detection" = "Yes".

• The documents that do not contain US Social Numbers will be tagged with "Detection" = "No".

FILECLOUD		Q Search		👻 🌲 🌒 Emma 🗸
All Files A		1 item selected Download	C :	Details Activity Metadata Comments
 > Network Shares • > Shared with Me • Recent Documents • 	Vame ~	Modified Size		bank statement1.xlsx
★ Starred -	✓ bank statement1.xlsx	Jun 24, 2021 10:42 AM • 34 KB	0	No metadata available to add to item
Shared by Me File Operations				Microsoft Office Tag metadata 👻 🕄
		Classification	detected US	Confidential Documents 👻 🚯 🗙
			er in the docum	ent US Social Number 🔺 🚯 🗙
Notice FileCloud Data Leak Prevention: Ensure				Detection Yes

6-Test Smart DLP rule

- Log in to the FileCloud User Portal.
- Share a file that contains US Social Number
- Confirm that sharing is only allowed only with users from the domain "codelathe.com"

☆ → My F 1 items	My Files		1	item selected	Download	C :
\checkmark	Name V	Мо	dified Share [.]	Size		
∷ ☆ 🗸	bank statement1.xlsx	© & Z		$\square \rightarrow \square$	≙ … ◄	• • •

FileCloud C	Dnline V	/ersion	23.232	Governance
-------------	----------	---------	--------	------------

Share Link			
http://127.0.0.1/url	/2svsfjwivqrvbmaq	Modify Link 🔳 🔀 📼	
Shared File /jenniferp/bank stat	Invite users to this share	0	
Share Options		mail domain is not odelathe.com	
Share Name:	gabrielle95@example.com	Q	
Expires:	Invited Users	Sharing forbidden by DLP rule 'US	-
Send Email Not	not	P rule does allow adding ail to share	
Sharing Permis	Send Email	Cancel Add Users to this Share	
		Manage No entries	

Limit Web Login to a specific group of users

Overview:

The purpose of this Example is to create a Smart DLP rule that allows login to Filecloud account for a certain group from only the web browser. Users from another group will be able to login to their Filecloud account using different methods.

Assuming that a partner company name is "Company XYZ", we created a FileCloud group called "Company XYZ" containing users from this company.

Another group called "Internal" which contains all the internal users from your company.

Users from the group "Company XYZ" will be limited to log in only through the Web browser.

Users from group "Internal" will be able to log in through the web browser, Filecloud Sync, Drive, mobile phone applications ...etc

Configuration Steps:

1-Create Smart DLP Rule

- AccessFileCloud's Admin portal > Smart DLP
- Add a new Dlp rule
- The rule allows downloads from users in the group "Company XYZ" and requests must be initiated from the web browser.
- The second part of the rule allows downloads from users in group Internal from any client.

User Shares Folder Permissions	Manage DLP	Rules			Click Add	DLP Rule	2-	Add DLP Rule
Notifications DEVICES	Rule Name	WHEN (Affected User Action)	IF (Rule Expression)	THEN (DLP Action)	MODE	Recent Violations	Active	Actions
Devices GOVERNANCE Dashboard	Authorized Partners	DOWNLOAD	(_user.inGroup('Company XYZ') and _request.remoteIp in ['43.12.45.78']) or (_user.inGroup('Intenral'))	DENY	ENFORCE	0		A C ×
 Retention Smart DLP Smart Classification 	Click Smart DLP	SHARE	(_metadata.existsWithValue('Confidential Documents.Confidential', 'Yes') and _share.onlyUsersFromDomain('codelathe.com ')) or (_metadata.existsWithValue('Confidential Documenter_Confidential', 'No'))	ALLOW	ENFORCE	0		A Ø ×

Create Rule		8
Rule Name	Limited login methods for external users	
Affected User Actions (i)	LOGIN	~
Rule Expression (i)	Rule Expression Builder Rule Expression Text Editor	
	(_user.inGroup('Company XYZ') && _request.agent == 'Web browser' (_user.inGroup('I ternal') && _request.agent == 'FileCloud Drive','Cloud Sync','Web browser','Android','iO S','MS Outlook','MS Office'))	n
DLP Action	ALLOW	~
DLP Mode (i)	ENFORCE	~
Rule Notification (optional) ③		1.
	 * Does not apply to login rules * Does not apply to permissive rules. 	
Rule Creation Help	Cancel Create	

2-Test Smart DLP rule

Test case 1:

- Open the Filecloud Drive application.
- Try to login with user John who is part of the group "Company XYZ".
- User John will not be able to log in using the Filecloud Drive application.

ilerei 🐔	FileCloud Drive		—	×	esung
	FILECLC	CUC		錼	
	Password	Dev Auth	SSO		
	Server URL (e.g. https://y	ourserver)			
	Account john				
up "(tiateo	Password				
fron	Mount Point	G:		•	
		Login			
S File	Cloud Drive				×
⊗	Trouble connecting to netwo CLFC-00035-00166	ork. Reason: CLFC-90020-Serve	er Connection : Log	in not allowe	d
				OK	
	© 2020		3	-	

Test case 2:

- Access FileCloud's User Interface .
- Try to login with user John which is part of the group "Company XYZ".
- User John will be able to log in to the web interface.

Test case 3:

- Open the Filecloud Drive application.
- Try to login with user Wail which is part of the group "Internal".

• User Wail will not be able to log in using the Filecloud Drive application.

Test case 3:

- Access FileCloud's User Interface.
- Try to login with user Wail which is part of the group "Internal".
- User Wail will be also able to log in to the web interface.

Troubleshooting DLP

Problem: Combined rules don't deny or allow actions as expected.

Possible cause:

Incorrect use of combined expressions in different rules

Use of multiple rules leads to their expressions being combined, and there is a misunderstanding about the results they achieve.

The following clarifies how combined expressions work together:

• When you use multiple DENY expressions in different rules:

If any of the DENY expressions is true, the action is blocked.

If none of the DENY expressions is true, the action is allowed.

In other words, DENY expressions coming from different rules have an **OR** combination:

Example:

Download DENY expression rule 1: **_file.pathStartsWith('/teamaccount/TeamFolder_01/FolderA')** Download DENY expression rule 2: **_file.pathStartsWith('/teamaccount/TeamFolder_01/FolderB')** To clarify how these work together, imagine them in a single rule, combined. These would appear as:

TeamFolder_01/FolderB')

Download is blocked from FolderA **OR** FolderB, but downloads from other folders are allowed.

• When you use multiple ALLOW expressions in different rules:

The ALLOW expressions must be different or the combined expression can never be true (that is, you cannot use 2 or more _file.pathStartsWith expressions, 2 or more request.remoteIp expressions, and so on, that you set to different values.)

ALLOW expressions coming from different rules have an **AND** combination:

Example:

Download ALLOW expression rule 1: _file.pathStartsWith('/teamaccount/TeamFolder_01') Download ALLOW expression rule 2: _user.inGroup('internalUsers')

To clarify how these work together, imagine them in a single rule, combined. These would appear as: _______file.pathStartsWith('/teamaccount/TeamFolder_01') && user.inGroup('internalUsers')

Only downloads in the TeamFolder_01 directory for users in the internalUsers group are allowed. All other downloads are blocked.

Example: Setting Up a Retention Policy to meet HIPAA Requirements

The customer we'll look at in this example is Community HMO, a health maintenance organization whose FileCloud users are both health care professionals and administrative personnel. In this example, your role is the FileCloud admin.

To meet the requirements for passing two of the rules in the Compliance Center's HIPAA screen, you must choose a retention policy that ensures you retain ePHI data. These rules are:

- 164.312(c)(1) Technical Safeguards Set up a retention policy to protect files and folders from deletion.
- 164.316(b)(2)(i) Policies and procedures and documentation requirements Use Retention Policy to retain files for 6 years.

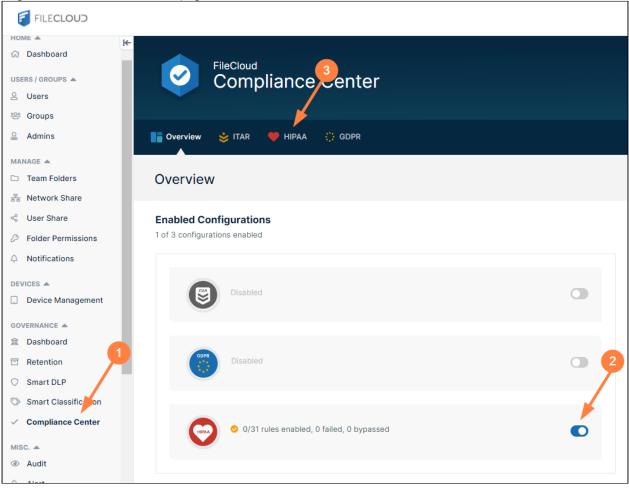
This example will walk you through the process necessary to pass these requirements. The broader steps involve:

- 1. Enabling the HIPAA retention policy rules in the Compliance Center.
- 2. Creating a metadata attribute to tag files with ePHI data.
- 3. Creating a pattern group that identifies file content as ePHI.
- 4. Setting up a Smart Classification rule to locate and tag ePHI files.
- 5. Setting up a retention policy that prevents these files from being deleted for 6 years after their creation.
- 6. Choosing the retention policy in the Compliance Center for each of the requirements listed above.

Step 1: Enable the HIPAA retention policies rules in the Compliance Center.

- 1. In the Admin portal's navigation panel, click **Compliance Center**. The **Compliance Center** opens to the **Overview** tab.
- 2. Under **Enabled Configurations**, click the slider next to the HIPAA icon.

3. To go to the **HIPAA Compliance** page, click the **HIPAA** link in the menu bar.



-			-		
The LIDAA nega energy	In this overnels	you have not enabled	nunf	VOUR LIDAA rulocy	10t
THE HIPAA Daye Obens.	. In this example.	you have not enabled a	IIIV OI	VOUL HIPAA LUIES V	Jet.
ine in the page opene.		Jeanare		j • • • • • • • • • • • • • • • • • • •	,

Comp	liance Center				
Overview 👙 ITAR	HIPAA () GDPR				
HIPAA Compliar	ICE DEnable			Ex	port Settings
● 0/31 rules (enabled, 0 failed, 0 bypassed			с	Refresh All
© 0/31 rules (Rules ▼	enabled, 0 failed, 0 bypassed FileCloud Configuration •	Enable	Effective Date *	C Status V	Refresh All
V	FileCloud Configuration •	Enable	Effective Date 🕶	Status	
Rules •	FileCloud Configuration •	Enable	Effective Date 🕶	Status	
Rules • Subpart C - 164.304 De	FileCloud Configuration - finitions Choose a metadata set to classify electronic protected health information.		Effective Date 🕶	Status	Actions

4. Scroll down so you can see rules **164.312(c)(1)** and **164.316(b)(2)(i)**. These are the two rules that you will set up retention policies for.

5. Enable each rule.

For each rule, you are prompted to choose a retention policy that enables you to pass the rule.

Rule Update	8
Update Rule	
Choose the Retention Policy for protecting ePHI	
No Retention available	~
Click Edit to choose a retention policy to retain files for a certain time period.	
	/
Retention Close	Update

6. Since you have not set up the retention policy yet, click **Update** without attempting to select a retention policy. The row for each rule will indicate that FileCloud has failed the rule.

safeguards.(a)(2)(iv)	configure and enable encryption.			
164.312 Technical safeguards.(b)	Configure settings for efficient audit logging and storing audit records.			(
164.312 Technical safeguards.(c)(1)	Set up a retention policy to protect files and folders from deletion.	May 09, 2022	A Issues May 09, 2022 8:23 AM	Z (
164.312 Technical safeguards.(d)	Confirm all users have FileCloud user accounts.			(
164.312 Technical safeguards.(e)(1)	Choose a DLP rule to restrict public sharing of ePHI.			2
164.312 Technical safeguards.(e)(2)(i)	Confirm users have been educated about sharing permissions and folder level permissions.			
164.316 Policies and pro	ocedures and documentation requirements			
164.316 Policies and procedures and documentation requirements.(b)(2) (i)	Use Retention Policy to retain files for 6 years.	May 09, 2022	Amula	C (
164.316 Policies and procedures and documentation requirements.(b)(2) (ii)	Confirm support documentation is available and accessible.			(
164.316 Policies and procedures and				

Step 2: Create a metadata attribute to tag files with ePHI data

The function of HIPAA compliance is to protect electronic protected health information, such as individuals' medical records and insurance information. Before you can place safeguards on this information, it's necessary that you identify which files contain it. You can do this by configuring FileCloud's smart classification system to flag files that contain the wide range of information considered ePHI, for example, medical diagnoses and insurance policy numbers.

When the smart classification system finds a file with ePHI, it tags it with metadata to let FileCloud know that the file contains ePHI.

To identify a file as containing ePHI, you must tell the content search engine what patterns (character strings) to look for in the file's contents. For example, if the file contains the pattern "**Ins Policy ID**" that could indicate that the file contains ePHI. You must include all of the possible patterns that indicate a file contains ePHI, and then flag each of these files with a metadata tag.

There are also files with handwritten diagnostic information that doctors scan into your system. This is ePHI that smart classification cannot locate, and must be flagged with metadata manually. Therefore, you must give some users permission to add the metadata manually when you create it.

- 1. Create the metadata to tag the file with.
 - a. To open the **Metadata** page, in the admin portal navigation pane, click **Metadata**.

b. Click Add Metadata Set.

FILECLOUD							2 adı
Retention Smart DLP	Anage Meta	data Sets		Ê	Files Without Met	adata	Add Metadata Set
 Smart Classification Compliance Center 	Filter Q Filter by me	tadata set name		Show 10 Items	~		
ISC. 🔺	Metadata Set Name	Description	Status	Set Type	User Count	Group Count	Actions
Alert User Locks	Default	Default metadata set definition will be automatically bound to every single File and Folder.	Enabled	DEFAULT	1	1	ß ×
Workflows Reports	Image metadata	Image metadata (EXIF)	Enabled	Built-in	1	1	ď ×
FederatorySearch	Document Life Cycle metadata	Stores information regarding document life cycle	Enabled	Built-in	1	1	c ×
Metadata	Microsoft Office Tag metadata	Microsoft Office Tag metadata (MSOT)	Enabled	Built-in	1	1	ď ×
Settings	Color Tagging metadata	Color Tagging metadata set	Enabled	Built-in	1	1	¢ ×
USTOMIZATION	PDF Tag metadata	PDF Tag metadata set	Enabled	Built-in	1	1	ľ ×

The Add Metadata Set Definition dialog box opens.

- c. Enter the values for the metadata set.
 - For this example:
 - In Name, enter Files with ePHI.
 - In Description, enter Tag files with electronically protected health information.

d Metadata Set Definition	¢
Metadata Set	
Name*	
Files with ePHI	
Description*	
Tag files with electronically protected health information.	
Disabled	

• In the Attributes box, click Add Attribute.

For this example, in the Add Attribute dialog box, in Name, enter ePHI and in Attribute type, choose Boolean.

Add Attribute		8
Name	ePHI	
Description		
Attribute Type	Boolean 🗸	
Disabled		
Required		
Default Value		
	Create	e

d. Click Create.

etadata Set		Permissions				
ame*		Users Gr	oups Paths			
Files with ePHI		Add User				
escription*		Add User				
Tag files with electronic health information.	ally protected		Name		Read Permission	Write Permission
sabled						
tributes						
ttributes	/					
ttributes	/					
	Attribute Type	Description		St	atus	Actions
+ Add Attribute	Attribute Type Boolean	Description			atus	Actions
Add Attribute		Description				
Add Attribute		Description				
Add Attribute		Description				
Add Attribute		Description				
Add Attribute		Description				
Add Attribute		Description				
Add Attribute		Description				
Add Attribute		Description				

Now add a user who can manually flag files with the ePHI metadata:

- e. In the Permissions box, click Add User.
- f. Enter the user or users who will be manually marking scanned doctor notes as having ePHI data, and give them **Read** and **Write** permissions.

Read permission enables the user(s) to view the metadata, but Write permission enables them to change

	hition				
etadata Set		Permissions			
eme*	<u>\</u>				
Files with ePHI		Users Groups	Paths		
scription*		Add User			
Tag files with electron health information.	nically protected		Name	Read Permission	Write Permission
abled		jari1		C	•
			H + Page 1	of 1 🕨 🖻	
tributes					
	Attribute Type	Description		Status	Actions
+ Add Attribute	Attribute Type	Description		Status	Actions
Add Attribute Name		Description			
Add Attribute Name		Description			
Add Attribute Name		Description			
Add Attribute Name		Description			
• Add Attribute		Description			
Name		Description			

it, so the user(s) you add should have a good understanding of what constitutes ePHI in your system.

Step 3: Create a a pattern group that identifies file content as ePHI

Community HMO has the following types of files that contain PHI:

- Medical records that all have the string Medical Record Number in them.
- Insurance records that all have the string **Insurance Policy ID** in them.
- Scanned doctor diagnosis notes.

You have determined that the scanned doctor diagnosis notes will have to be tagged with metadata manually, and that smart classification can automatically search for the identifying strings in the medical records and insurance records.

To configure the pattern group for identifying PHI:

- 1. In the admin portal navigation pane, click **Smart Classification.** The **Manage Content Classification Rules** screen opens.
- 2. Click Manage Pattern Group.

FILECLOUD				
	A Manage Content Cla	ssification Rules		
Device Management GOVERNANCE Dashboard	Rules 🛨 Add rule 🗮 Mar	nage Pattern Group		
Retention Smart DLP	Rule Name Mar	tch Action	Status	Auto-classificati Enabled
 Smart Classification Compliance Center 				

anage Pattern Groups	s:test			(
Pattern Group	test		~	• New Pattern Group
▲ Available	Patterns		Μ	lember Patterns
Belgium National Nu	mber			
Croatia Identity Card	Number			
Croatia Personal Ider Number	tification (OIB)			
Denmark Personal Id	entification Number			
EU Debit Card Numb	er	\rightarrow		
Finland National ID		~		
Finland Passport Nur	nber			
France Driver's Licens	e Number			
France National ID Ca	ard (CNI)			
France Passport Num	ber			
(Page 1 21 ro				
Add New Pattern ■				Delete S Close

3. Click New Pattern Group.

4. For this example, name the new group **ePHI Patterns**.

New Group		8
Group Name	ePHI Patterns	
	Save	Close

Click Save, and in the Pattern Group drop-down list, choose ePHI Patterns. Now, you are ready to add the patterns that smart classification will search for in your files. When it finds any of these patterns in a file, it will tag it with the ePHI metadata attribute.

6. Click Add New Pattern.

Manage Pattern Gro	ups : ePHI Patterns		
Pattern Group	ePHI Patterns	-	✓ New Pattern Group
▲ Availa	ble Patterns		Member Patterns
Belgium National	Number		
Croatia Identity C	ard Number		
Croatia Personal I Number	dentification (OIB)		
Denmark Persona	I Identification Number		
EU Debit Card Nu	mber	\rightarrow	
Finland National I	D	\	
Finland Passport I	Number		
France Driver's Lic	ense Number		
France National II	D Card (CNI)		
France Passport N	lumber		
Page 2	1 of 3 🕟 🗎 1 rows		
Add New Pattern	h	2	Delete S Close

The New Pattern dialog box opens.

7. Click Add.

New Pattern		8
■ Manage PII Patter	ns	O Add S
Name	Regex	Actions
Belgium National Number	[0-9]{2}.[0-9]{2}.[0-9]{2}-[0-9]{3}.[0-9] {2}	
Croatia Identity Card Number	[0-9]{9}	
Croatia Personal Identification (OIB) Number	[0-9]{10}	
Denmark Personal Identification Number	[0-9]{6}-[0-9]{4}	
EU Debit Card Number	[0-9]{16}	
Finland National ID	[0-9]{6}[-+a][0-9]{3}[0-9a-zA-Z]{1}	× ×
Finland Passport Number	[a-zA-Z]{2}[0-9]{7}	
France Driver's License Number	[0-9]{12}	
France National ID Card (CNI)	[0-9]{12}	
France Passport Number	[0-9]{2}[a-zA-Z]{2}[0-9]{5}	
	№ ● Page 1 of 3 ● ■ 21 rows	
		Close

The New PII Search Pattern dialog box opens.8. Enter MRN in Name, and enter MRN in Regex.

New PII Search Patt	ern	×
Name	MRN	
Regex	MRN	
	_	
	Creat	e Cancel

9. Click Create.

- 10. Click Add again, and in the New PII Search Pattern dialog box enter Ins Policy ID in both Name and Regex.
- 11. Click Create.
- 12. Close the **New Pattern** dialog box.
- 13. In the Manage Pattern Groups dialog box, confirm that you still have ePHI Patterns selected in the Pattern Group field.
- 14. In the Available Patterns box, scroll to the last page, and click MRN, then click the right arrow.

Pattern Group	ePHI Patterns	← New Pattern Grou
Avail	able Patterns	Member Patterns
Confidential State	ement	
MRN		3
Ins Policy ID		
	→	
	<	
	1	
	2	
(N • Page	3 of 3 (F) (F)	

The pattern appears in the **Member Patterns** box.

15. In the **Available Patterns** box, click **Ins Policy Number**, and then click the right arrow. Both patterns now appear in the **Member Patterns** box.

Dattara Group					
Pattern Group	ePHI Patterns		~	+ New	Pattern Grou
 Availab 	le Patterns		Mer	mber Patter	ms
Confidential Staten	nent		MRN		
MRN			Ins Policy ID		
Ins Policy ID					
		>			
		<			
	3 of 3 🕟 🕅				
231	rows				
			🕅 💽 Page	1	of 1 🕨 🗎
				2 rows	

16. Click Close.

Step 4: Set up a Smart Classification rule to locate and tag ePHI files

Now that you have configured the search patterns for identifying ePHI in files, you can set up a smart classification rule that uses the patterns to find and tag the files.

To set up the smart classification rule:

1. In the admin portal navigation pane, click **Smart Classification.** The **Manage Content Classification Rules** screen opens.

2. Click Add Rule.

FILECLOU	C					🛓 admin 👻
Notifications DEVICES Devices	A Manage Rules	Content Classification				
GOVERNANCE	Rules				+ Add rule	🗮 Manage Pattern Group
Retention Smart DLP NEW	Rule Name	Match Action	Status	Auto- classification Enabled	Last Run Date/Time	Actions
Smart Classification						
MISC.						

An **Add Rule** dialog box opens.

- 3. Fill in values for the fields.
 - a. In Name, enter Classify files with PHI.
 - b. In **Event triggers**, choose **FILEINDEXED**. This indicates that when the file is indexed, smart classification should apply this rule (that is, set the **ePHI** metadata attribute to **true**).
 - c. Check Enable Auto-classification.
 - d. In **Definition**, define the rule. To simplify setting it up, copy and paste the **Rule Template** from the space under it, and modify the template.

```
Enter the rule as:
{
  "classifier": "Default",
  "precondition": "true",
  "condition": "count(_classifications) > 0",
  "matchaction": {
    "Files with ePHI": {
      "ePHI": true
   }
  },
  "defaultaction": [],
  "parameters": {
    "SEARCH_PATTERN_GROUPS": [
      "ePHI Patterns"
   ]
 }
}
```

The rule indicates that if either of the search patterns (MRN and Ins Policy ID) in the search pattern group

ePHI Patterns are found in the file being indexed, the metadata attribute ePHI is set to true.

Add rule		×
Name 🕄	Classify files with PHI	
Event triggers 🛈	FILEINDEXED	
Enable Auto-classification		
Definition	<pre>{ "classifier": "Default", "precondition": "true", "condition": "count(classifications) > 0", /* available functions are join() & count() */ "matchaction": { "matchaction": { "files with ePHI": {</pre>	•
Rule Definition Help Classifier Gui	de Save 🗙 Cano	el

4. Now, test the smart classification rule.

٠

- a. Obtain or create some files that contain the ePHI patterns. We include:
 - a test file with an MRN, Patient 2457.txt:

[]] P	atient	2457 - N	lotepad	ł
File	Edit	Format	View	Help
MRN :	350	522319	0	
a test fi	le with	and insura	nce poli	cy id, Ins file 839.tx 1
II 🛄	ns file	839 - No	tepad	
File	Edit	Format	View	Help
Ins	Poli	icy ID	: 147	235641

• a test scanned handwritten note, **Doctor Notes.pdf**:

Hom	ie T	ools		Doctor	Notes.pdf	× ?	Ļ.
B		എ		\odot	1 / 1	•••	Ô.
Þ		Te	est	- De	Cfoz	Scan	

- b. Log in to the FileCloud user portal as the user you gave permissions to read and write the **Files with ePHI** metadata.
- c. Upload the files into FileCloud.
- d. Check the checkbox for the file **Patient 2457.txt** and click **Metadata** in the details pane. Confirm that **Files with ePHI** is listed and that the **ePHI** metadata attribute is checked.

 V → My Files > Medical Records				→ Details Activity Metadata Comments
 ledical Records		1 item selected Download	G :	
Name Filter Items	Modified \lor	Size		Patient 2457.txt
Doctor Notes.pdf	Jun 20, 2022 12:31 PM • by you	48 KB		Add Metadata
Ins file 839.txt	Jun 20, 2022 12:24 PM • by you	24 B	0	Author V Add
Patient 2457.txt	Jun 20, 2022 12:23 PM • by you	16 B	0	Default 🔺 🚺
Patient 245.txt	Jun 17, 2022 1:39 PM by you	42 B	0	Tags 🕕
Patient 622.txt	Jun 16, 2022 10:01 AM by you	40 B	0	
Patient 555.txt	Jun 16, 2022 9:49 AM by you	38 B	0	Save
Patient 839.txt	Jun 15, 2022 3:55 PM by you	40 B	0	Document Life Cycle metadata 👻 🚯
Patient 324.txt	Jun 15, 2022 3:54 PM by you	40 B	0	Files with ePHI 🔺 🚺 🗙
				Save

e. Then check the checkbox for the file **Ins file 839.txt**, and click **Metadata** in the details pane. Confirm that **Files with ePHI** is listed and that the **ePHI** metadata attribute is checked.

	My Files > Medical Records		1 item selected Download	C' i	H Details Activity Metadata Commer
	Name Filter Items	Modified \lor	Size		Ins file 839.txt
A	Doctor Notes.pdf	Jun 20, 2022 12:31 PM • by you	48 KB		Add Metadata
	Ins file 839.txt	Jun 20, 2022 12:24 PM • by you	24 B	0	Author ~ Add
	Patient 2457.txt	Jun 20, 2022 12:23 PM • by you	16 B	0	Default 🔺
	Patient 245.txt	Jun 17, 2022 1:39 PM by you	42 B	0	Tags 🕕
	Patient 622.txt	Jun 16, 2022 10:01 AM by you	40 B	0	
	Patient 555.txt	Jun 16, 2022 9:49 AM by you	38 B	0	Save
٦	Patient 839.txt	Jun 15, 2022 3:55 PM by you	40 B	0	Document Life Cycle metadata 👻
	Patient 324.txt	Jun 15, 2022 3:54 PM by you	40 B	0	Files with ePHI oPHI
					Save

- f. Next, check the checkbox for the file **Doctor Notes.pdf**, and click **Metadata** in the details pane. **Files** with ePHI is not yet listed since you are required to check it manually.
- g. In the Add Metadata drop-down list, choose Files with ePHI and click Add.

A → My Files > Medical Records Medical Records Items		1 item selected Download	G :	Details Activity Metadata Comments
Name Tilter Items	Modified \lor	Size		Doctor Notes.pdf
Doctor Notes.pdf	Jun 20, 2022 12:31 PM • by you	48 KB		Add Metadata
Ins file 839.txt	Jun 20, 2022 12:24 PM • by you	24 B	0	Author V Add
Patient 2457.txt	Jun 20, 2022 12:23 PM • by you	16 B	0	Project Files with ePHI
Patient 245.txt	Jun 17, 2022 1:39 PM by you	42 B	0	Tags 🕕
Patient 622.txt	Jun 16, 2022 10:01 AM by you	40 B	0	
Patient 555.txt	Jun 16, 2022 9:49 AM by you	38 B	0	Save
Patient 839.txt	Jun 15, 2022 3:55 PM by you	40 B	0	Document Life Cycle metadata 👻 🕚
Patient 324.txt	Jun 15, 2022 3:54 PM by you	40 B	0	PDF Tag metadata 👻 🚺

Files with ePHI is added to the list of included metadata.

h. Check **ePHI** to indicate that the file has ePHI.

Medical Records Medical Records 8 tems		1 item selected Download	G :	Details Activity Metadata Comments
Name Filter Items	Modified \lor	Size		Doctor Notes.pdf
✓ Doctor Notes.pdf	Jun 20, 2022 12:31 PM • by you	48 KB		Add Metadata
Ins file 839.txt	Jun 20, 2022 12:24 PM • by you	24 B	0	Author V Add
Patient 2457.txt	Jun 20, 2022 12:23 PM • by you	16 B	0	Default 🔺 🚺
Patient 245.txt	Jun 17, 2022 1:39 PM by you	42 B	0	Tags 🕘
Patient 622.txt	Jun 16, 2022 10:01 AM by you	40 B	0	
Patient 555.txt	Jun 16, 2022 9:49 AM by you	38 B	0	Save
Patient 839.txt	Jun 15, 2022 3:55 PM by you	40 B	0	Document Life Cycle metadata 👻 🕕
Patient 324.txt	Jun 15, 2022 3:54 PM by you	40 B	0	PDF Tag metadata 👻 🚺
				Files with ePHI • 0 ×
				ePHI
				Save

Step 5: Set up a 6 year retention policy

The next step is to create the 6 year retention policy that is applied to files with an **ePHI** metadata attribute of **true**.

To create the 6 year retention policy:

- 1. In the admin portal navigation pane, click **Retention**. The **Manage Retention Policies** screen opens.
- 2. Click Add Policy.

FILECLOUD)						🛔 admin 👻
Notifications DEVICES	Manage Rete	ntion Policies		Cron Last Run Date	/Time: Jun 6, 2022 11:54 AM	C Effective Policy	• Add Policy
Devices GOVERNANCE	Filter Q Filt	er by policy name	5	how 10 Items	~	2	
🏛 Dashboard	Policy Name	Description		Status	Policy Type	Acti	ons
Retention	Test	This is a test retention policy		Disabled	Retention	0	3 ×
Smart DLP NEW	30 Day Expiry	expiry date 30 days		Disabled	Retention	8	ອ ×
Smart Classification							
Compliance NEW							
MISC.							
Audit							

The Add Retention Policy form opens.

- 3. Fill out the **Policy Attributes** section of the form.
 - a. In Policy Name, enter 6-year expiry.
 - b. In **Policy Type**, leave **Retention** selected.

A **Retention** type policy prevents a file from being deleted, and this fulfills our requirements.

- c. In Description, enter, Files are kept for at least 6 years.
- d. Leave the checkboxes in this section at their default values (only **Enabled** should be checked).

ld Retention Policy	
Policy Attributes	
Policy Name*	
6-year expiry	
Policy Type	
Retention	
Retention allows an organization to identify specific content that is required to be stored for a specific period of time before it can be accessed. During the etention period, the content cannot be deleted or archived.	
Description*	
Files are kept for at least 6 years.	
Hide Policy From Users 🖲	
Enabled 🖲	
Alert On Violation 🖲	
Send email alert 🖲	
Alerts*	
Type in a comma-separated list of email addresses of users who need to know that a policy expires.	

4. Add the metadata condition to the **Apply Policy To** section:

- a. Click the **Metadata** tab.
- b. In the drop-down list of metadata sets, choose the metadata set you created for personal health information, **Files with ePHI**.

A drop-down list of metadata attributes appears.

- c. Choose **ePHI**. **ePHI** is listed below the drop-down list with a checkbox.
- d. Select the checkbox to indicate that the retention policy should be applied if **ePHI** is **true**.

Paths Metadata		
Files with ePHI		
ePHI		
PHI		
1		
Add		

e. Click Add.

pply Policy To			
Paths Metadata			
AIP Sensitivity Label metadata			
Set	Attribute	Value	Actions

- 5. Fill out the **Actions** section.
 - a. Leave **Time Period** selected.
 - b. In **Time Period of Retention** choose custom so you can set a period that is more than 6 years.
 - c. The time period required in rule 164.316(b)(2)(i) is **over** six years, so in **No. of Days** enter **2193** [2190 (365 x 6 years) + 2 (for 2 possible leap years) + 1(to make the period over, not equal to 6 years).
 - d. Uncheck **Renew Expiry on Access** since the HIPAA rule requires that the records be saved 6 years after creation, not 6 years after access.
 - e. For **Policy Expiry Actions** leave **No Action** selected since files must be saved for a minimum of 6 years, but are not required to be deleted after that.

🕽 Time Period 🔘 Fixed Date 🔘 Ind	efinite		
lime Period of Retention			
Custom			
No. of Days*			
2193			
Renew Expiry On Access 🟮			
Policy Expiry Actions 🚯			
No Action			
Permanently Delete			

6. At the bottom of the form, click **Save**.

The retention policy is added and enabled by default. Now, each time a file is indexed, FileCloud will check if

ePHI is true, and if it is, it will apply the 6-year retention policy to the file.

Manage Retention	on Policies	Cron Last Run Date/Tin	ne: Jun 14, 2022 11:46 AM	Stflective Policy Add Policy
Filter Q Filter by	policy name	Show 10 Items	~	
Policy Name	Description	Status	Policy Type	Actions
Test	This is a test retention policy	Disabled	Retention	୮ 🔳 ୭ 🗙
30 Day Expiry	expiry date 30 days	Disabled	Retention	୮ 🗐 🖉 🖉
6-year expiry	Files are are not deleted for over 6 years.	Enabled	Retention	☑ III III III IIII

- 7. Now test the retention policy.
 - a. Obtain some files with ePHI content, like the ones you used for testing in Step 4.
 Our examples include the content MRN and Ins Policy ID, and a scanned file that must be tagged manually:

Patient 6663.txt	Ins file 453.txt	Doctor Summary.pdf
Patient 6663 - Notepad	🥅 Ins file 453 - Notepad	Doctor Summary.pdf - Adobe Acrobat Reader DC (64-bit) File Edit View Sign Window Help
File Edit Format View Help	File Edit Format View Help	Home Tools Doctor × < > (?) 🔔
MRN: 872134566	Ins Policy ID: 233512954	🖺 🏠 ବ 🖶 🔍 👖 / ነ … 🛛 🔏
		, Visit Summony CK

- b. Log in to the user portal as the user you gave permissions to read and write the **Files with ePHI** metadata.
- c. Upload the files into FileCloud.

d. Select the checkbox for the file **Patient 6663.txt** and click **Details** in the details pane. Confirm that the retention policy is listed at the bottom of the details.

	> My Files > Medical Records		1 item selected Download	c : /	→ O → C F → Details Activity Metadata Commen
11 items	s Name 🛛 Filter Items	Modified \sim	Size		Patient 6663.txt
Å	Doctor Summary.pdf	Jun 20, 2022 1:38 PM • by you	86 KB		Info 🔺
	Ins file 453.txt	Jun 20, 2022 1:34 PM • by you	24 B	0	Modified Jun 20, 2022 1:34 PM
2	Patient 6663.txt	Jun 20, 2022 1:34 PM • by you	16 B	0	Path /jenniferp/Medical Records/Patient 6663.txt Copy path
	Doctor Notes.pdf	Jun 20, 2022 12:31 PM • by you	48 KB	0	Permissions
	Ins file 839.txt	Jun 20, 2022 12:24 PM • by you	24 B	0	Share A Sha
	Patient 2457.txt	Jun 20, 2022 12:23 PM • by you	16 B	0	Not shared
	Patient 245.txt	Jun 17, 2022 1:39 PM by you	42 B	0	Versions Manag
٦	Patient 622.txt	Jun 16, 2022 10:01 AM by you	40 B	0	Version 1 by jenniferp 2022-Jun-20 12:57:57
	Patient 555.txt	Jun 16, 2022 9:49 AM by you	38 B	0	Retention Policy This file is under effective policy 6-year expiry
	Patient 839 txt	Jun 15, 2022 3:55 PM	40 B	0	expiring on Jun 28, 2028 12:57 PM

e. Next select the checkbox for the file **Ins file 453.txt** and click **Details** in the details pane. Confirm that the retention policy is listed at the bottom of the details.

4	¥->	My Files > Medical Records				→ B Details		🖒 Metadata	Comments
	ledi	cal Records		1 item selected Download	G :				
		Name Filter Items	Modified ${\scriptstyle \smallsetminus}$	Size			Ins file	453.txt	
	٨.	Doctor Summary.pdf	Jun 20, 2022 1:38 PM • by you	86 KB		Info 🔺			
		Ins file 453.txt	Jun 20, 2022 1:34 PM • by you	24 B	0	Modified Jun 20, 2022	1:34 PM		
		Patient 6663.txt	Jun 20, 2022 1:34 PM • by you	16 B	0	Path /jenniferp/Me Copy path	dical Record	ts/Ins file 453.	txt
	A	Doctor Notes.pdf	Jun 20, 2022 12:31 PM • by you	48 KB	0	Permissions	2 11 4		
		Ins file 839.txt	Jun 20, 2022 12:24 PM • by you	24 B	0	Share •	• • •		Share
		Patient 2457.txt	Jun 20, 2022 12:23 PM • by you	16 B	0	Not shared			
		Patient 245.txt	Jun 17, 2022 1:39 PM by you	42 B	0	Versions -			Manage
		Patient 622.txt	Jun 16, 2022 10:01 AM by you	40 B	0	Version 1 by jenniferp	2022-Jun-	20 12:57:56	
☆		Patient 555.txt	◎ & ♂ ☆ ♂ □ →	ⓐ △ ··· < >	4 9 A	Retention P	-	live policy 6-ye	
		Patient 839 tyt	Jun 15, 2022 3:55 PM	40 B		expiring on Ju			загехрігу

- f. Next, select the file **Doctor Summary.pdf**. It does not have a retention policy attached to it yet because you have not manually added an **ePHI** metadata tag yet.
- g. Click **Metadata** in the details pane.
- h. Follow the same steps you completed in **Step 4** to add the ePHI tag to the file:
 - In the Add Metadata drop-down list, choose Files with ePHI and click Add. Files with ePHI is added to the list of included metadata.

• Check **ePHI** to indicate that the file has ePHI.

☆ → My Files > Medical Records Medical Records		_		Details Activity Metadata Comments
11 items		1 item selected Download	G :	
Name Filter Items	Modified ~ Si	ze		Doctor Summary.pdf
Doctor Summary.pdf	Jun 20, 2022 1:38 PM • by you	86 KB		Add Metadata
Ins file 453.txt	Jun 20, 2022 1:34 PM • by you	24 B	0	Author V Add
Patient 6663.txt	Jun 20, 2022 1:34 PM • by you	16 B	0	Default 🔺 🚺
Doctor Notes.pdf	Jun 20, 2022 12:31 PM • by you	48 KB	0	Tags 🕜
Ins file 839.txt	Jun 20, 2022 12:24 PM • by you	24 B	0	-
Patient 2457.txt	Jun 20, 2022 12:23 PM • by you	16 B	0	Save
Patient 245.txt	Jun 17, 2022 1:39 PM 4	2 B	0	Document Life Cycle metadata 👻 🕻
Patient 622.txt	Jun 16, 2022 10:01 AM 4(DB	0	PDF Tag metadata 👻
Patient 555.txt	Jun 16, 2022 9:49 AM 34 by you	B B	0 🦯	Files with ePHI 🔺 🕕 🕽
Patient 839.txt	Jun 15, 2022 3:55 PM 4(D B	•	ePHI
Patient 324.txt	Jun 15, 2022 3:54 PM 40	DВ	0	Save

i. Click the **Details** tab.

j. Confirm that the retention policy is now listed at the bottom of the details.

1	* - - :	My Files > Medical Records				→ Details		Č Metadata	Comments
	Med 11 items	ical Records		1 item selected Download	C :				
		Name Filter Items	Modified $\scriptstyle{\smallsetminus}$	Size			Doctor Sur	nmary.pdf	
		Doctor Summary.pdf	Jun 20, 2022 1:38 PM • by you	86 KB		Info 🔺			
		Ins file 453.txt	Jun 20, 2022 1:34 PM • by you	24 B	0	Modified Jun 20, 202	2 1:38 PM		
		Patient 6663.txt	Jun 20, 2022 1:34 PM • by you	16 B	0	Path /jenniferp/M Copy path	ledical Record	s/Doctor Sum	mary.pdf
	Å	Doctor Notes.pdf	Jun 20, 2022 12:31 PM • by you	48 KB	0	Permissions	< 11 A		
		Ins file 839.txt	Jun 20, 2022 12:24 PM • by you	24 B	0	Share •	• • •		Share
		Patient 2457.txt	Jun 20, 2022 12:23 PM • by you	16 B	0	Not shared			
		Patient 245.txt	Jun 17, 2022 1:39 PM by you	42 B	0	Versions -			Manage
		Patient 622.txt	Jun 16, 2022 10:01 AM by you	40 B	0	Version 1 by jenniferp	2022-Jun-2	0 12:58:26	
		Patient 555.txt	Jun 16, 2022 9:49 AM by you	38 B	0	Retention	Policy	ve policy 6-w	ar expiry
		Patient 839.txt	Jun 15, 2022 3:55 PM	40 B	0		Jun 28, 2028 1		or expline

Step 6: Choose the retention policy in the Compliance Center

You have now reached the last step, adding the retention policy to rules in the Compliance Center as proof that you are in compliance.

To add the retention policy to compliance rules:

- 1. In the Admin portal's navigation panel, click **Compliance Center**. The **Compliance Center** opens.
- 2. To go to the **HIPAA Compliance** page, click the **HIPAA** link in the menu bar.

FILECLOUD						💄 admii	n 🔻
HOME ▲ 슈 Dashboard USERS / GROUPS ▲ 은 Users	FileCloud	pliance Center					
뿅 Groups	📑 Overview 🛭 👙 ITAR	HIPAA () GDPR					(
MANAGE	HIPAA Complia	INCE 💽 Enable			Expo	ort Settings	
Team Folders							
器 Network Share							
Subser Share	(HPA), 🛕 2/31 rule	s enabled, 2 failed, 0 bypassed			C F	Refresh All	
Polder Permissions							
A Notifications							
	Rules 🕶	FileCloud Configuration -	Enable	Effective Date -	Status	Actions	
Device Management	Subpart C - 164.304 [Definitions					
	164.304	Choose a metadata set to classify electronic protected					
	Definitions	health information.				2 🚯	
Retention	164.306 Security star	ndards: General rules					
Smart DLP	164.306 Security standards: General rules	Promote at least one user to an Admin role with access to the Compliance Dashboard.				0	

3. Scroll down so you can see rules **164.312(c)(1)** and **164.316(b)(2)(i)**. You enabled them in Step 1, but since there were no retention policies that you could associated with them, they

both fail.

				💄 ao
safeguards.(a)(2)(iv)	Configure and enable encryption.			U
164.312 Technical safeguards.(b)	Configure settings for efficient audit logging and storing audit records.			0
164.312 Technical safeguards.(c)(1)	Set up a retention policy to protect files and folders from deletion.	May 09, 2022	A Issues May 09, 2022 8:23 AM	20
164.312 Technical safeguards.(d)	Confirm all users have FileCloud user accounts.			0
164.312 Technical safeguards.(e)(1)	Choose a DLP rule to restrict public sharing of ePHI.			2 3
164.312 Technical safeguards.(e)(2)(i)	Confirm users have been educated about sharing permissions and folder level permissions.			0
164.316 Policies and pr	ocedures and documentation requirements			
164.316 Policies and procedures and documentation requirements.(b)(2) (i)	Use Retention Policy to retain files for 6 years.	May 09, 2022	A Issues May 09, 2022 8:25 AM	2 9
164.316 Policies and procedures and documentation requirements.(b)(2) (ii)	Confirm support documentation is available and accessible.			0
164.316 Policies and procedures and documentation	Keep the system updated with the latest version.			0

4. Click the edit button for rule **164.312 (c) (1)**. The **Rule Update** dialog box opens.

5. In the drop-down list, choose the 6-year policy that you just created.

Rule Update	8
Update Rule	
opuate Rule	
Choose the Retention Policy for protecting ePHI	
Please select	~
6-year expiry	
Retention	Close Update

OK 14-06-

2022 9:25

A Issues

14-06-

2022

8:52

💄 admin 🔻

0

0

0

23

6

0

23

2 i

6. Click **Update**. The rule now passes

164.312 Technical safeguards.(e)(1)

164.312 Technical

safeguards.(e)(2)

164.316 Policies

and procedures and

documentation

164.312 Technical safeguards.(a)(2) (iii)	Set session timeout for the user portal.	
164.312 Technical safeguards.(a)(2) (iv)	Configure and enable encryption.	
164.312 Technical safeguards.(b)	Configure settings for efficient audit logging and storing audit records.	
164.312 Technical safeguards.(c)(1)	Set up a retention policy to protect files and folders from deletion.	09-05-
164.312 Technical safeguards.(d)	Confirm all users have FileCloud user accounts.	

Choose a DLP rule to restrict public sharing of ePHI.

Confirm users have been educated about sharing

permissions and folder level permissions.

164.316 Policies and procedures and documentation requirements

14-06-2022

requirements.(b)

(2)(i)

7. Now edit rule 164.316 (b)(2)(i), and choose the same retention policy. Both rules now pass:

Use Retention Policy to retain files for 6 years.

Example: Setting Up a Retention Policy to meet HIPAA Requirements

				💄 adm
164.312 Technical safeguards.(a)(2) (iii)	Set session timeout for the user portal.			0
164.312 Technical safeguards.(a)(2) (iv)	Configure and enable encryption.			6
164.312 Technical safeguards.(b)	Configure settings for efficient audit logging and storing audit records.			0
164.312 Technical safeguards.(c)(1)	Set up a retention policy to protect files and folders from deletion.	09-05-2022	OK 14-06- 2022 9:25	23
164.312 Technical safeguards.(d)	Confirm all users have FileCloud user accounts.			0
164.312 Technical safeguards.(e)(1)	Choose a DLP rule to restrict public sharing of ePHI.			23
164.312 Technical safeguards.(e)(2) (i)	Confirm users have been educated about sharing permissions and folder level permissions.			0
164.316 Policies and	procedures and documentation requirements			
164.316 Policies and procedures and documentation requirements.(b) (2)(i)	Use Retention Policy to retain files for 6 years.	14-06-2022	OK 14-06- 2022 10:52	2

By creating and applying the 6-year retention policy and selecting it for the two requirements, you have demonstrated that you are in compliance with the two rules, which now indicate that you have passed.

Monitor Retention and DLP: The Governance Dashboard

The Governance Dashboard displays retention alerts as well as retention and DLP statistics to help you keep track of retention policies and violations of DLP rules.

Retention Ale	erts						3 Statistics	
Filter Q Filter by file path name		Show 10 Item		Total Policies / File Objects				
							Retention / File Objects	14/3
Full Path		Date	Alert	A	ctions	Archival / File Objects	6/2	
/teams/Data Governance/Partnership/Need Analysis/FileCloud - Account Directors		/Partnership/Need	Retention policy	Retention policy Partnership - Folder			Legal Hold / File Objects	4/1
		04/27/2019 1:00 AM	Retention will expire on 2019-05-04 with no		k 🖒 Ack	Trash Retention / File Objects		
List.docx /teams/Data Governance/Partnership/Need Analysis/FileCloud - Austin Summit			action Retention policy Partnership - Folder	ershin - Folder -		Admin Hold / File Objects	5/56	
			Retention will expire on 2019-05-04 v		k 🖒 Ack	File Objects affected in 7 days	1	
Notes.docx			action			File Objects deleted in 7 days	0	
/teams/Data Governance/Partnership/Need Analysis/FileCloud - Competition.docx		04/27/2019 1:00 AM	Retention policy Partnership - Folder Retention will expire on 2019-05-04 v action		k 🖒 Ack	File Objects archived in 7 days	0	
/teams/Data Governance/Partnership/Need Analysis/FileCloud - Marketing Actions.docx		04/27/2019 1:00 AM	Retention policy Partnership - Folder Retention will expire on 2019-05-04 v action		k 🖒 Ack	4 Realtime DLP Statistics		
/teams/Data Governance/Partnership/Need Analysis/FileCloud - On-Premise Box.docx 0-		04/27/2019 1:00 AM	Retention policy Partnership - Folder -		1.000	Active Downloads	N/A	
			Retention will expire on 2019-05-04 with no action		k 🖒 Ack	Active Uploads	N/A	
/teams/Data Governance/Partnership/Need Analysis/FileCloud - Pros.xlsx		04/27/2019 1:00 AM	Retention policy Partnership - Folder - Retention will expire on 2019-05-04 with no	-	10-00	Active Shares	N/A	
				vith no 🛛 🞯 🔿	k 🖒 Ack	Active Users	N/A	
/teams/Data Governance/Partnership/Need Analysis/FileCloud At CES.docx		04/27/2019 1:00 AM	action Retention policy Partnership - Folder - Retention will expire on 2019-05-04 with no action	-		Violations	0	
					k 🖒 Ack	A		
/teams/Data Governance/Partnership/Need Analysis/FileCloud PR.docx 04/27/		04/27/2019 1:00 AM			k 🖒 Ack	Quick Actions Add Policy		
		action Retention policy Partnership - Folder				Effective Policies		
/teams/Data Governance/Partnership/Need Analysis/FileCloud-8.0-Release.docx		04/27/2019 1:00 AM	Retention will expire on 2019-05-04 v		k 🖒 Ack	View Audit		

1) Retention Alerts	 Lists current alerts for files and folders that have retention policies added to them. To the right of an alert: Click OK to archive the alert and move it to the Archived Alerts listing. Click Ack to acknowledge the alert and move it to the Acknowledged Alerts listing.
2) Alert type buttons	Clicking each button displays a list of the alert type (New , Acknowledged , or Archived) in the Retention Alerts table.

3) Statistics	 Statistics of : Number of retention policies of each type and how many files and folders they are added to. Number of files and folders receiving a certain action in the last 7 days.
4) Realtime DLP Statistics	DLP violations occurring currently.
5) Quick Actions	 Add Policy - Add a retention policy, and apply it to files and folders. Effective Policies - View a list of retention policies and the files and folders they affect. View Audit - View system audit logs. Defaults to displaying retention audit logs.

Secure Web Viewer for DRM

(i) The Secure Web Viewer (Beta version) is available in FileCloud versions 23.232 and later. Note: The Secure Web Viewer is not included with some licenses, such as the FileCloud Community Edition license and the FileCloud Essentials license.

Users have the ability to publicly share certain file types (jpg, png, pdf, docx, and pptx) with the protection of digital rights management (DRM) by requiring them to be viewed through FileCloud's Secure Web Viewer. The Secure Web Viewer requires share recipients to enter a password to view the share, and may limit access in other ways, such as only permitting small portions of the file to be viewed at a time.

FileCloud's Secure Web Viewer for viewing securely shared files is not the same as FileCloud's Secure Document Viewer for viewing securely exported files. The Secure Document Viewer is a stand-alone app, while the Secure Web Viewer is web-based, and open to further refinement based on user input.

Only files of 20MB or less can be viewed through the Secure Web Viewer.

For more information about how a Secure Web Viewer share is created, see Public Share Options for Files. For more information about how the Secure Web Viewer functions, see Using the Secure Web Viewer.



File viewed through the Secure Web Viewer with limited view (partial file viewing) enabled.

The Secure Web Viewer option

When **Enable WebDRM** is enabled, an option for creating shares that must be viewed through the Secure Web Viewer is available in the **Share link** dialog box for jpg, png, pdf, docx, and pptx files of 20 MB or less. For other file types and files greater than 20 MB, the option appears disabled.

Share Link				
		Modify Link	ê (3'	
Shared File /jennifer/FileCloud Online Dat	aSheet - copy.pdf			
Share Options	Share History			
Share Name:	C7YnczNJveKk6fg6 Change			
Expires:	Never Expires Change			
Sharing Permissions:	 Allow anyone with link 			
	\bigcirc Allow anyone with link and a password			
This share is password protected	 Allow selected users or groups 			
public share with enhanced	Allow anyone with Secure Web Viewer link and a password			
protection. Only users with the secure web viewer	Password: 🛛 🕢			Save
link and password can access.	Enable Protected View			
	Max Access Time: Unlimited Limited			

To disable/re-enable use of the Secure Web Viewer option:

- 1. In the admin portal, go to **Settings > Misc > General**.
- 2. Scroll down to the setting **Enable WebDRM**.

3. Uncheck the box to disable it or check to box to re-enable it.



4. Click Save.