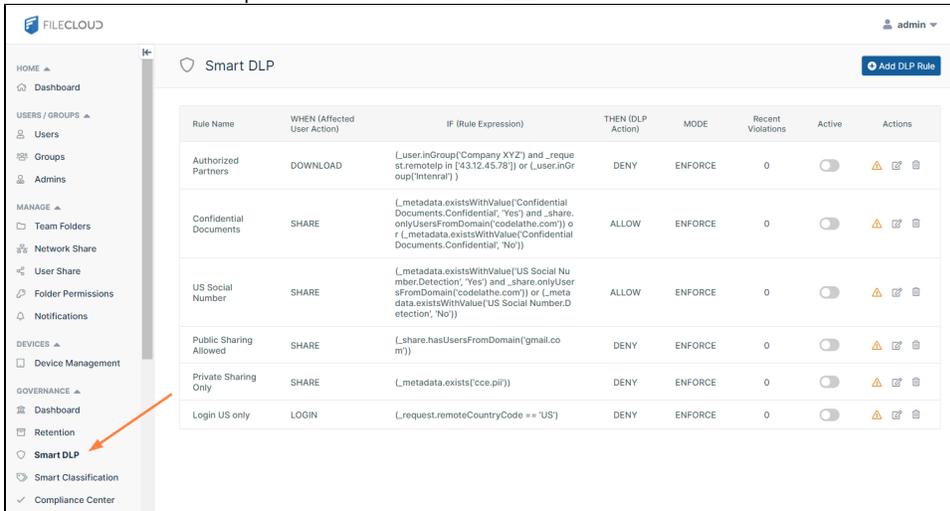


Creating Data Leak Prevention Rules

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

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

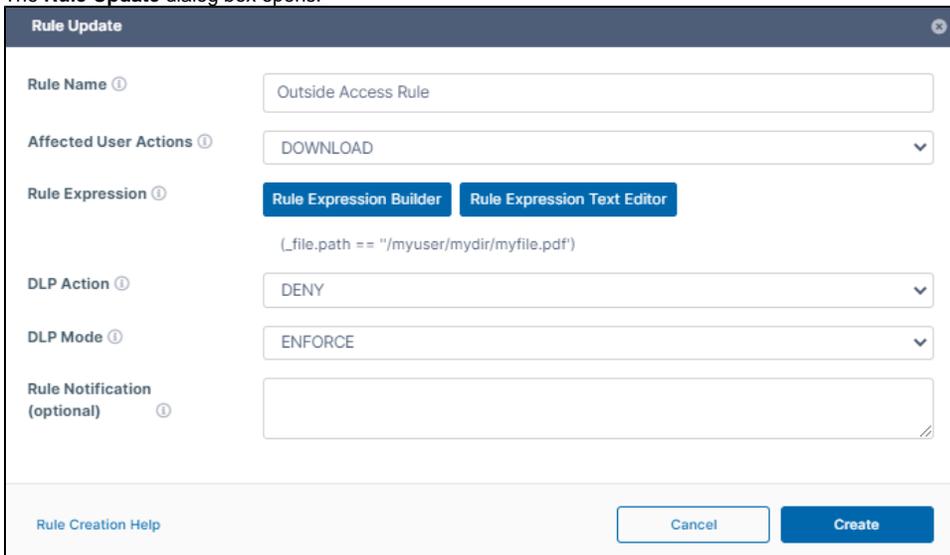
1. Access FileCloud's Admin portal > Governance > Smart DLP



Rule Name	WHEN (Affected User Action)	IF (Rule Expression)	THEN (DLP Action)	MODE	Recent Violations	Active	Actions
Authorized Partners	DOWNLOAD	{_user.inGroup('Company XYZ') and _request.remoteip in ['43.12.45.78']} or {_user.inGroup('Interatl')}	DENY	ENFORCE	0	<input type="checkbox"/>	  
Confidential Documents	SHARE	{_metadata.existsWithValue('Confidential Documents.Confidential', 'Yes') and _share.onlyUsersFromDomain('codelathe.com')} or {_metadata.existsWithValue('Confidential Documents.Confidential', 'No')}	ALLOW	ENFORCE	0	<input type="checkbox"/>	  
US Social Number	SHARE	{_metadata.existsWithValue('US Social Number.Detection', 'Yes') and _share.onlyUsersFromDomain('codelathe.com')} or {_metadata.existsWithValue('US Social Number.Detection', 'No')}	ALLOW	ENFORCE	0	<input type="checkbox"/>	  
Public Sharing Allowed	SHARE	{_share.hasUsersFromDomain('gmail.com')}	DENY	ENFORCE	0	<input type="checkbox"/>	  
Private Sharing Only	SHARE	{_metadata.exists('cce.pdf')}	DENY	ENFORCE	0	<input type="checkbox"/>	  
Login US only	LOGIN	{_request.remoteCountryCode == 'US'}	DENY	ENFORCE	0	<input type="checkbox"/>	  

2. To add or create a new rule, click **Add DLP Rule**.

The **Rule Update** dialog box opens:



Rule Update

Rule Name

Affected User Actions

Rule Expression

DLP Action

DLP Mode

Rule Notification (optional)

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 <p>. Only full urls (those beginning with http:// or https://) can be rendered.

4. Click **Create**.

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

Manage DLP Rules								Add DLP Rule
Rule Name	WHEN (Affected User Action)	IF (Rule Expression)	THEN (DLP Action)	MODE	Recent Violations	Active	Actions	
Outside Access Rule	DOWNLOAD	<code>_file.path == '/myuser/mydir/myfile.pdf'</code>	DENY	ENFORCE	0	<input checked="" type="checkbox"/>	Alert Edit Delete	

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.

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 **Rule Update** dialog box, enter a **Rule Name**, and choose **DOWNLOAD** in **Affected User Actions**.
3. Click **Rule Expression Builder**.

Rule Update

Rule Name

Affected User Actions

Rule Expression

DLP Action

DLP Mode

Rule Notification (optional)

[Rule Creation Help](#)

The **Rule Expression Builder** opens.

4. Click **ADD**.

Rule Expression Builder

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**.

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**.

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 appears in the **Smart DLP** list.

Block PII Downloading	DOWNLOAD	(_metadata.exists('cce.pii'))	DENY	ENFORCE	0	<input checked="" type="checkbox"/>			
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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**.

Rule Expression Builder

User

in group True False

Users

Example: managers

Cancel Save

ADD

7. Click **Save**.

Rule Expression Builder

if User in group Users

ADD

New Rule

New Rule Group

8. Click **ADD** again.

9. Since you are adding a two-condition rule, click **New Rule Group**.
Clicking **New Rule Group** will enclose the conditions that follow in parentheses.

10. Choose the indented **ADD** directly under **AND**.
Make sure you click the correct **ADD** link.

Rule Expression Builder

if User in group Users

AND

ADD

ADD

11. Click **New Rule**.

Rule Expression Builder

if User in group Users

AND

ADD

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**.

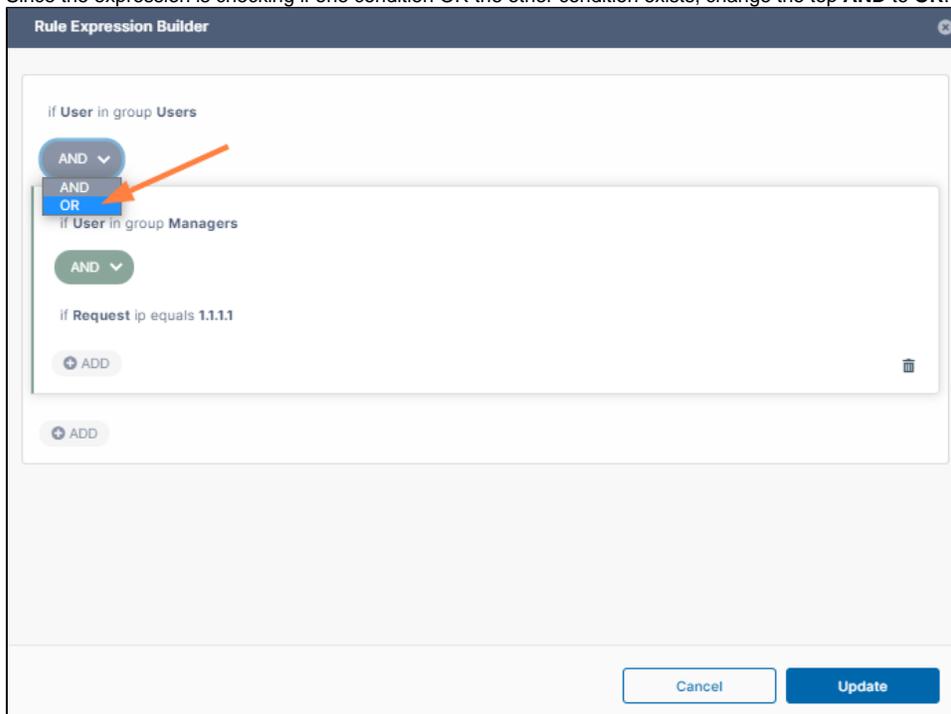
The screenshot shows the 'Rule Expression Builder' window. At the top, it says 'if User in group Users'. Below this is a dropdown menu set to 'AND'. The main condition is 'User in group' with a 'True' toggle switch. The 'Managers' field is empty, with an example 'managers' provided. At the bottom left of the condition box, there is a blue 'ADD' button with a plus sign. A dropdown menu is open below it, showing 'New Rule' and 'New Rule Group' options. At the bottom of the window are 'Cancel' and 'Update' buttons.

14. Enter the fields **Request**, **ip equals**, and **1.1.1.1**.
15. Click **Save** for each of the conditions.

The screenshot shows the 'Rule Expression Builder' window with two conditions. The first condition is 'User in group Users' with a 'True' toggle switch and an empty 'Managers' field. The second condition is 'Request ip equals' with a 'True' toggle switch and the value '1.1.1.1' in the field. Both conditions have 'Save' buttons highlighted with orange arrows. At the bottom left, there are 'ADD' buttons. At the bottom of the window are 'Cancel' and 'Update' buttons.

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**.



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.



! 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.