



USE CASE GUIDE

HOW TO REPORT AND ALERT ON FILES BEING COPIED

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1. Introduction

Data breaches are a serious threat to any organization and so appropriate action must to be taken to keep the risk of these threats to a minimum. The focus at Lepide is to provide visibility over what's happening with your data and through visibility you can take the necessary steps to mitigate risk and stay compliant.

This guide is in two parts. The first explains the ways in which you can use Lepide Data Security Platform to reduce the chance of a data breach in the case of files being copied. The second section gives step-by-step instructions on how to configure the solution to meet your requirements.

2. Why Monitor the Copying of Files?

The ability to copy files is an essential requirement to many job roles within an organization.

However, when this functionality is misused and file copying activity is done for the wrong reasons, data security is compromised, and appropriate remedial action needs to be taken. To combat this ever-increasing insider threat of a data breach, it is essential to monitor all file activities, especially file copy actions, to spot malicious activity at the initial stages. While the constant monitoring of user behavior is achievable, it can be complex and time consuming without the right solution in place.

3. The Solution

The Lepide Data Security Platform provides a solution to this. It works in real time and allows you to view a summary of employee activity within a given timeframe to see which files have been copied.

It also provides the ability to set up real-time alerts so that immediate action can be taken. For example, if a certain number of files are copied in quick succession, this could indicate the start of a data breach. In this case, an alert would be triggered, and an immediate response implemented.

Once there is **visibility** is in place to warn of potential threats, action can be taken to reduce risk and remain compliant.

3.1. The File Copy Report

The summary of user file copy activity is provided using the **File Copy Report**. This report will show file copying activity within a given time scale and can be further filtered to focus on whatever data is required.

3.2. The Mass Data Copy Threat Model

This Threat Model can be activated and then customized to meet specific requirements. As well as providing an alert to suspicious activity, it can also be configured to respond to an event which could be, for example, to shut down a file server or revoke a user's permissions.

4. Configuring File Copy Reporting and Alerting

4.1. Prerequisites

Before reporting and alerting on files being copied, you will need to have added and configured [Windows File Server](#) to enable auditing.

Once this has been configured, you will immediately see all file copy events as the Lepide Data Security Platform provides alerting and reporting in real time.

4.2. Running the File Copied Report

- Click the User and Entity Behaviour Analytics  icon
- Expand File Server Reports (from the tree structure to the left side of the screen)
- Expand File Server Modification Reports
- Click on File Copied to display the File Copied Report

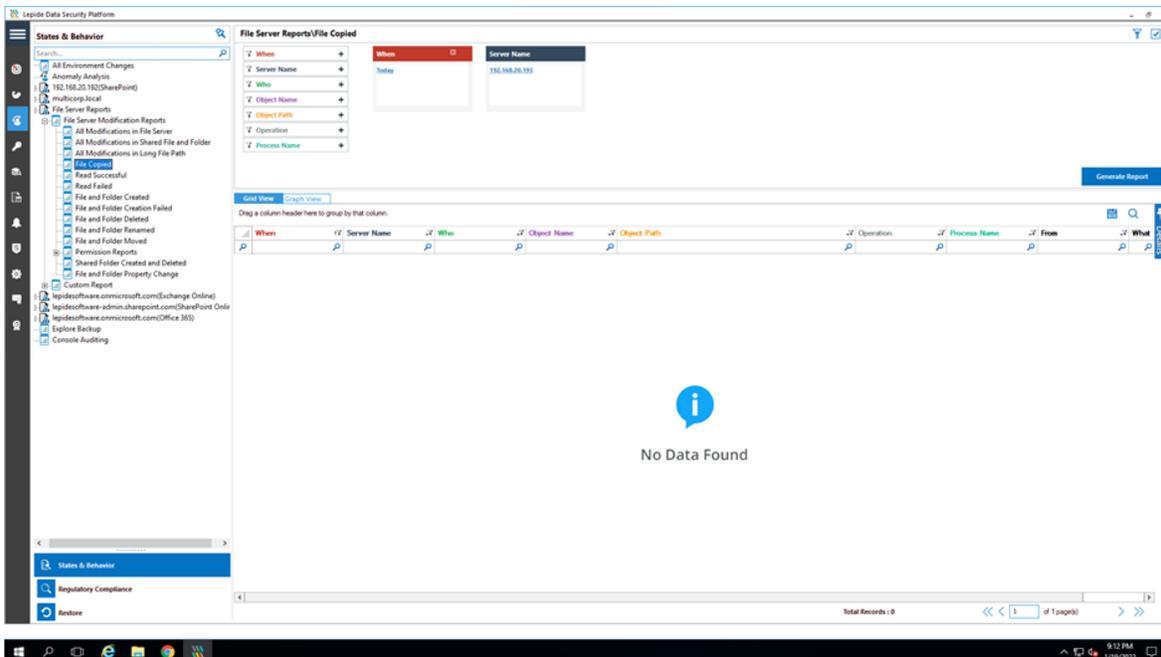


Figure 1: File Copied Report

Specify a Date Range

- From the top of the screen, under **When** click **Today** to choose a date range for the report

The following dialog box is displayed:

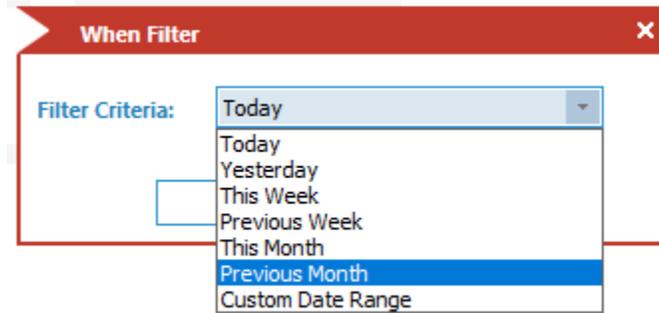


Figure 2: Date Range Filter

- Select a date range from the list
- Click **OK** and you will return to the File Copied screen

Specify a File Server

- From the top of the screen under **File Server**, click to select the required file server:

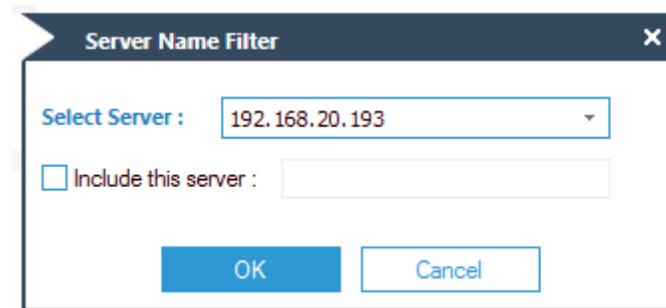


Figure 3: Server Name Filter

- Click **OK**
- Click **Generate Report**

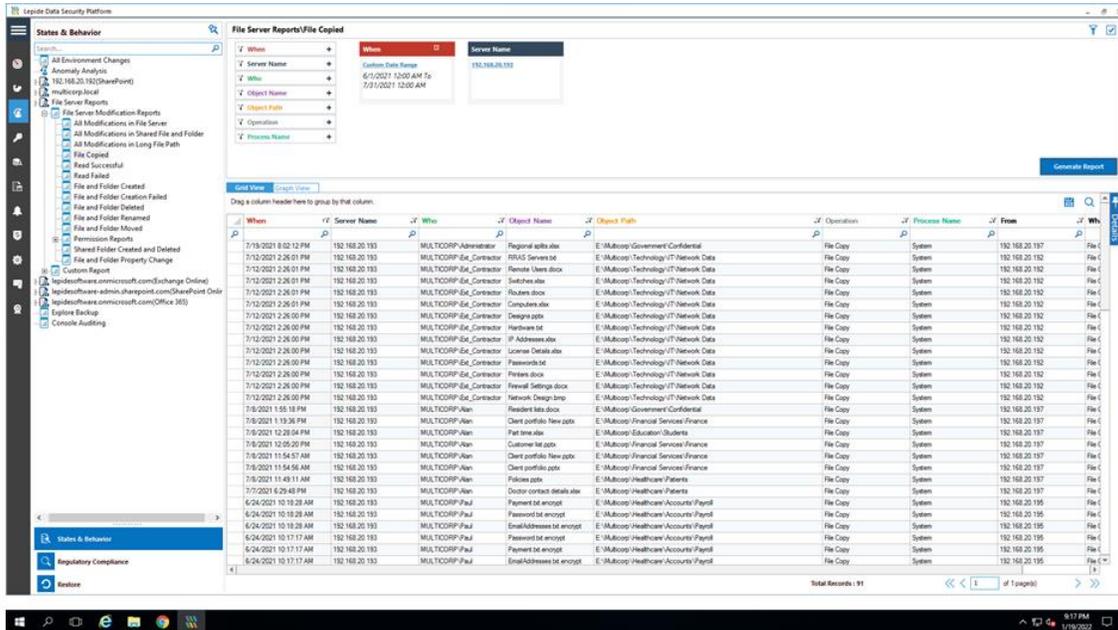


Figure 4: The Generated File Copy Report

The report runs and shows information including who copied the file, what was copied and the location of the file.

Filtering the Report

To add filters to the data, click on the filter area above the relevant column and type in the information you want to see.

For example, you may want to see data for a particular user - so click at the top of the **Who** column and type in the username:



Figure 5: Filter Area

In the example below, the report has been filtered to show both data for **Gemma** and where the content includes **SSN** (Social Security Numbers):

When	Server Name	Who	Client Name	Client Path	Content Type	Risk Level	Compliance	Monetary Value	Operation
6/23/2021 8:21:52 PM	192.168.20.193	MULTICORP\Genma	Confidential.pdf	E:\Account\Financial Serv...	SSN	1512	GLBA + NPPF	\$ 2472	File Copy
6/23/2021 8:21:52 PM	192.168.20.193	MULTICORP\Genma	Confidential.pdf	E:\Account\Financial Serv...	SSN	1512	GLBA + NPPF	\$ 2472	File Copy
6/23/2021 8:21:52 PM	192.168.20.193	MULTICORP\Genma	Expenses.xlsx	E:\Account\Financial Serv...	SSN + Names	706	GLBA + NPPF	\$ 2124	File Read
6/23/2021 8:21:52 PM	192.168.20.193	MULTICORP\Genma	Expenses.xlsx	E:\Account\Financial Serv...	SSN + Names	706	GLBA + NPPF	\$ 2124	File Copy
6/23/2021 8:21:52 PM	192.168.20.193	MULTICORP\Genma	Investments.pdf	E:\Account\Financial Serv...	SSN	459	GLBA + NPPF	\$ 1105	File Read
6/23/2021 8:21:52 PM	192.168.20.193	MULTICORP\Genma	Investments.pdf	E:\Account\Financial Serv...	SSN	459	GLBA + NPPF	\$ 1105	File Copy
6/23/2021 8:21:52 PM	192.168.20.193	MULTICORP\Genma	Legal.txt	E:\Account\Financial Serv...	SSN	864	GLBA + NPPF	\$ 2080	File Read
6/23/2021 8:21:52 PM	192.168.20.193	MULTICORP\Genma	Legal.txt	E:\Account\Financial Serv...	SSN	864	GLBA + NPPF	\$ 2080	File Copy
6/23/2021 8:21:52 PM	192.168.20.193	MULTICORP\Genma	Passport copies.pdf	E:\Account\Financial Serv...	SSN	1404	GLBA + NPPF	\$ 3380	File Read
6/23/2021 8:21:52 PM	192.168.20.193	MULTICORP\Genma	Passport copies.pdf	E:\Account\Financial Serv...	SSN	1404	GLBA + NPPF	\$ 3380	File Copy
6/23/2021 8:21:52 PM	192.168.20.193	MULTICORP\Genma	Investments.pdf	E:\Account\Financial Serv...	SSN	459	GLBA + NPPF	\$ 1105	File Copy
6/23/2021 8:21:52 PM	192.168.20.193	MULTICORP\Genma	Legal.txt	E:\Account\Financial Serv...	SSN	864	GLBA + NPPF	\$ 2080	File Copy
6/23/2021 8:21:52 PM	192.168.20.193	MULTICORP\Genma	Expenses.xlsx	E:\Account\Financial Serv...	SSN + Names	706	GLBA + NPPF	\$ 2124	File Copy
6/23/2021 8:21:52 PM	192.168.20.193	MULTICORP\Genma	Confidential.pdf	E:\Account\Financial Serv...	SSN	1512	GLBA + NPPF	\$ 2472	File Copy
6/23/2021 8:21:50 PM	192.168.20.193	MULTICORP\Genma	Passport copies.pdf	E:\Account\Financial Serv...	SSN	1404	GLBA + NPPF	\$ 3380	File Copy
6/23/2021 8:21:50 PM	192.168.20.193	MULTICORP\Genma	Expenses.xlsx	E:\Account\Financial Serv...	SSN + Names	706	GLBA + NPPF	\$ 2124	File Copy
6/23/2021 8:21:47 PM	192.168.20.193	MULTICORP\Genma	Confidential.pdf	E:\Account\Financial Serv...	SSN	1512	GLBA + NPPF	\$ 2472	File Read
6/23/2021 8:21:47 PM	192.168.20.193	MULTICORP\Genma	Confidential.pdf	E:\Account\Financial Serv...	SSN	1512	GLBA + NPPF	\$ 2472	File Copy
6/23/2021 8:21:47 PM	192.168.20.193	MULTICORP\Genma	Expenses.xlsx	E:\Account\Financial Serv...	SSN + Names	706	GLBA + NPPF	\$ 2124	File Read
6/23/2021 8:21:47 PM	192.168.20.193	MULTICORP\Genma	Expenses.xlsx	E:\Account\Financial Serv...	SSN + Names	706	GLBA + NPPF	\$ 2124	File Copy
6/23/2021 8:21:47 PM	192.168.20.193	MULTICORP\Genma	Investments.pdf	E:\Account\Financial Serv...	SSN	459	GLBA + NPPF	\$ 1105	File Read

Figure 6: File Copy Report with Filtered Data

The report can be scheduled, saved, and exported.

4.3. Threat Models

Real time alerts can be generated whenever a potential threat is detected by enabling one of many pre-defined Threat Models within the Lepide Data Security Platform.

To see all the threat models available, click the Alerts icon  and the following screen will be displayed:

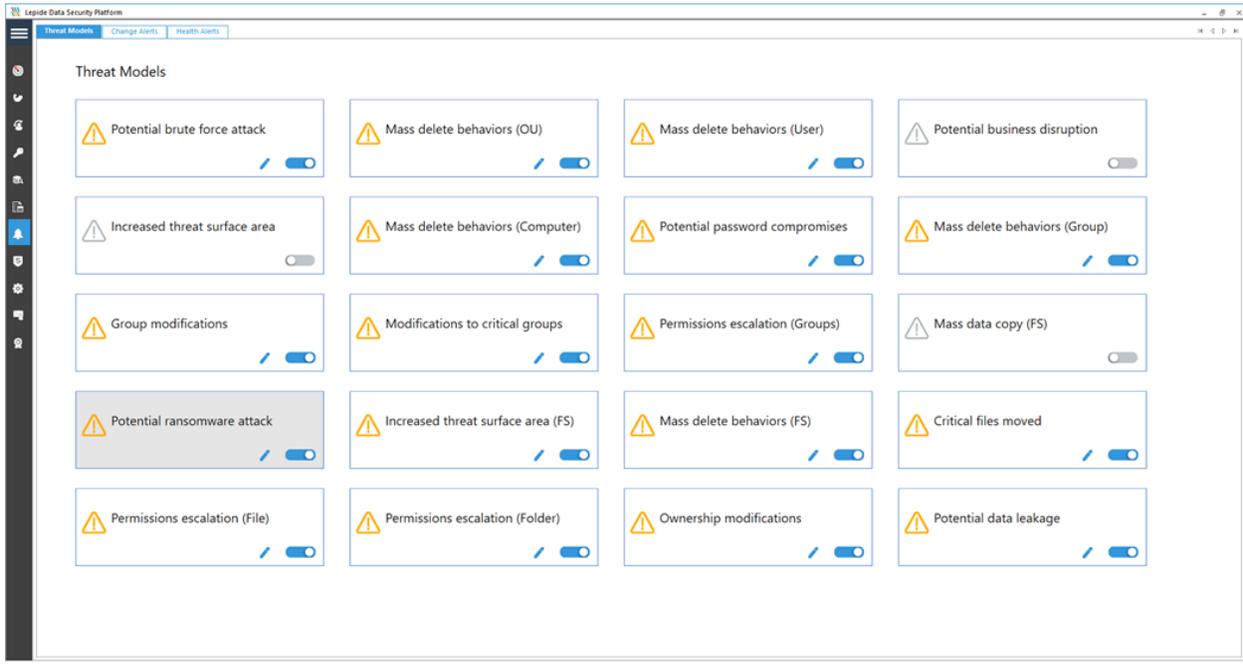


Figure 7: Threat Models

The Threat Models can be enabled as needed. They can then be configured to generate an alert and respond to a threat.

Responding to a Threat

Once an alert has been received, automated scripts can be executed to speed up the response time and address any threats immediately. Using custom script execution, user accounts and/or file servers can be shut down and other actions taken to prevent a potential data breach.

4.4. How to Enable and Configure the Mass Data Copy Threat Model

Click the **Alerts** icon  from the left-hand toolbar to display all the Threat Models available.

To enable the **Mass data copy (FS) Threat Model**, move the slide toggle to the right.



Figure 8: Mass Data Copy Threat Model

Click the  icon to configure the alerts and responses you require.

This will start a wizard:

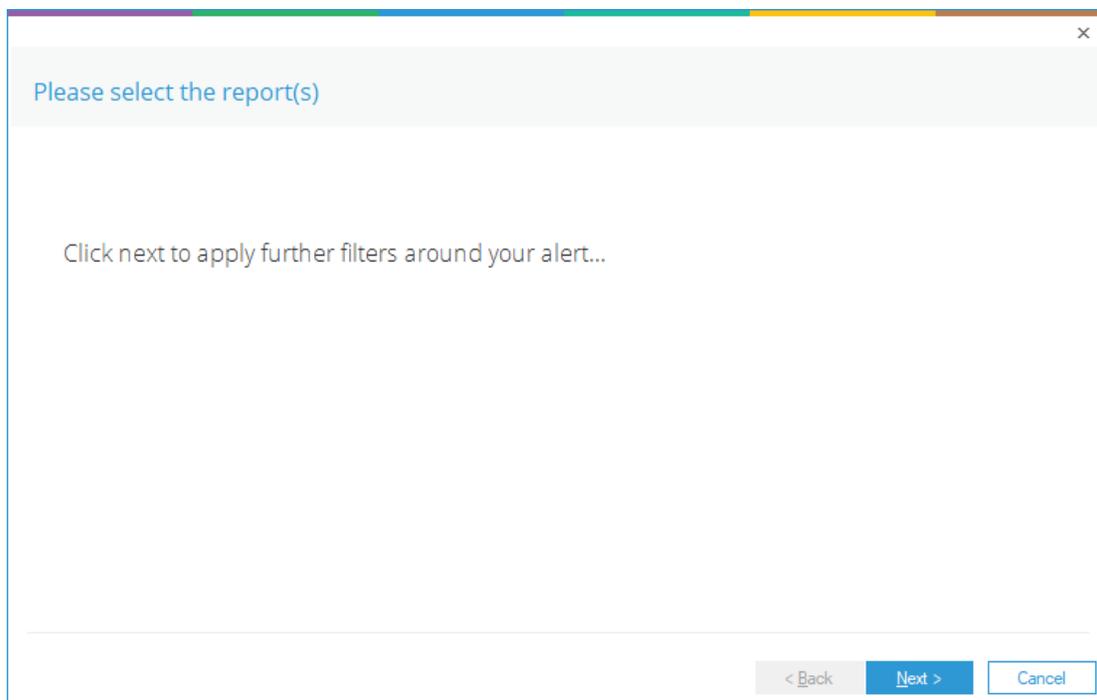


Figure 10: Threat Model Wizard

Click **Next** to display the Set Filter(s) dialog box:

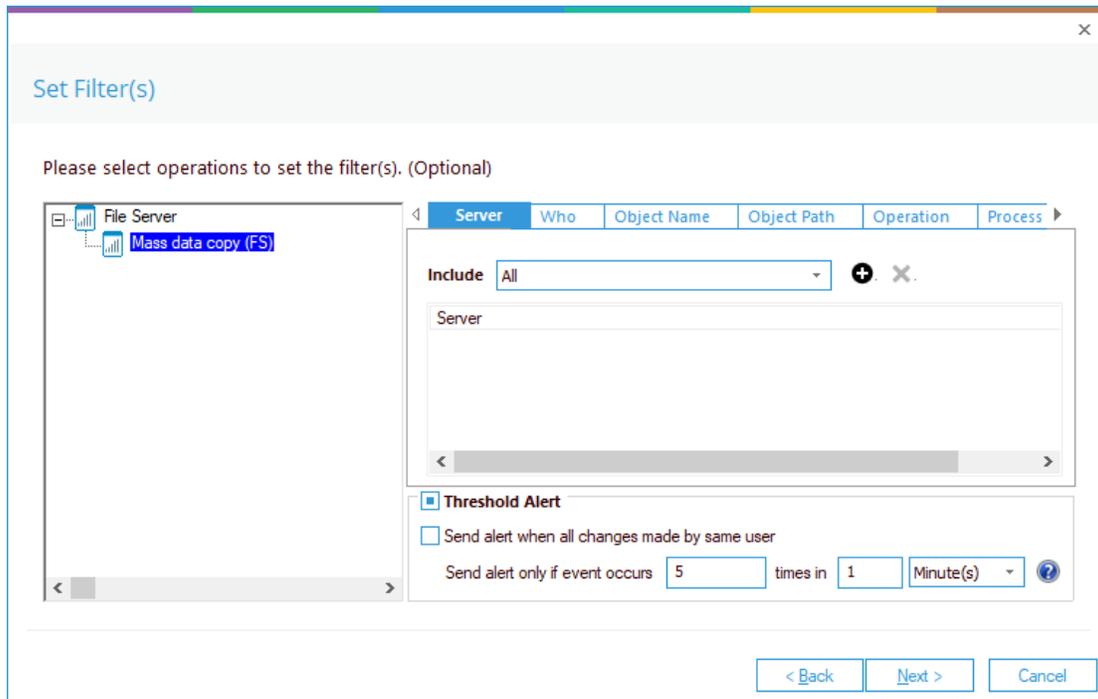


Figure 11: Set Filters for the Threat Model

The **Set Filter(s)** dialog box enables you to set up an alert.

On the left of the dialog box, you can see the Threat Model you are working on which is **Mass data copy (FS)**.

There are options to change the settings for **Server**, **User**, **Object Name**, **Object Path**, **Operation**, **Process** and **From** using the tabs at the top of this dialog box. The default setting for all these options is **All**.

The threshold alert options can be customized as follows:

Threshold Alert: Check this box to switch threshold alerting on

Send alert when all changes made by same user: Check this if you want an alert to be sent when all changes have been made by a single user

Send alert only if event occurs: Change the number of times the event occurs, the time value and time-period here

Click **Next**

The **Alert Settings** dialog box is displayed:

The Add Alert Action dialog box will be displayed:

Add Alert Action

Select Action : Send Email Alert

Please select or add new sender's email account, add recipient(s).

Sender/Recipient

Sender's Email Account : LEPIDEALERTS Add New Email Account

Recipient Email(s):

Send Email to user

Hello %USERNAME%,
you have received this notification because you have violated the user policy.

Use %USERNAME% for user name .

Note : Send Email to User option is applicable for File Server alerts only.

OK Cancel

Figure 13: Add Alert Action

Click the **Select Action** drop down arrow to see a list of actions available:

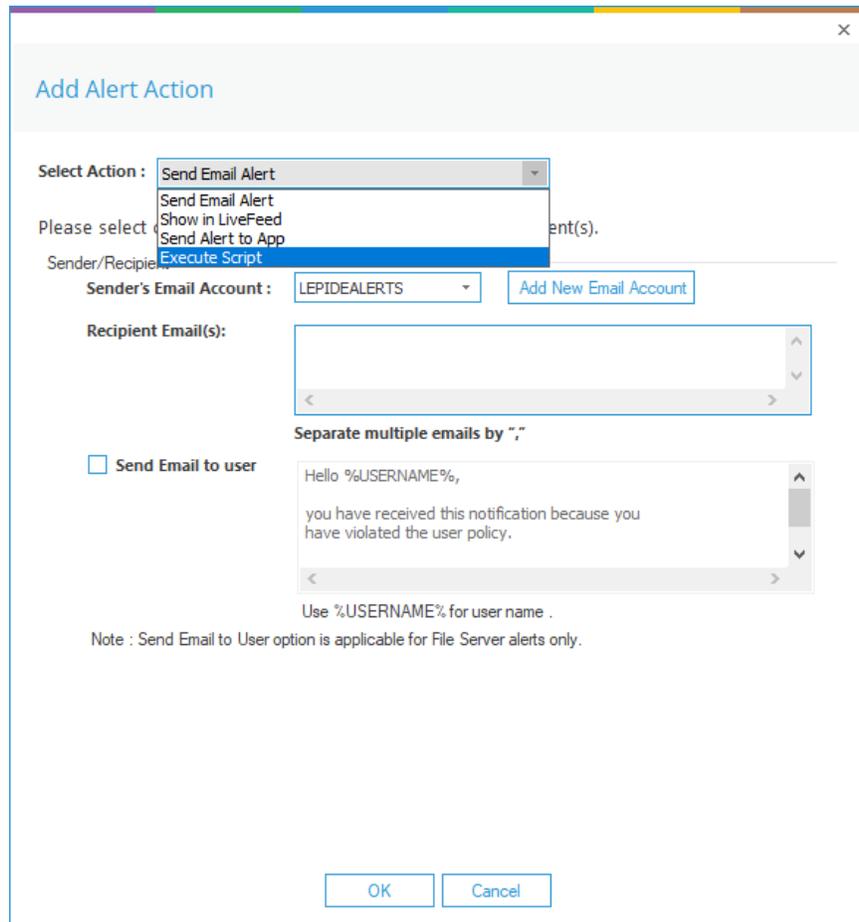


Figure 14: Add Alert Action Options

The Alert Actions are as follows:

- Send Email Alert
- Show in LiveFeed
- Send Alert to App
- Execute Script

The configuration of each of these actions is explained below:

1. Send Email Alert

The screenshot shows a dialog box titled "Add Alert Action" with a close button (X) in the top right corner. The "Select Action" dropdown menu is set to "Send Email Alert". Below this, a prompt reads "Please select or add new sender's email account, add recipient(s)". Under "Sender/Recipient", the "Sender's Email Account" dropdown is set to "LEPIDEALERTS", and there is an "Add New Email Account" button. The "Recipient Email(s)" field is an empty text box with scrollbars. Below it, the text "Separate multiple emails by ','" is displayed. There is a checkbox labeled "Send Email to user" which is currently unchecked. To its right is a text area containing the message: "Hello %USERNAME%,
you have received this notification because you
have violated the user policy." Below the text area, it says "Use %USERNAME% for user name ." and a note: "Note : Send Email to User option is applicable for File Server alerts only." At the bottom of the dialog are "OK" and "Cancel" buttons.

Figure 15: Add Alert Action – Send Email Alert

This option allows you to send an email once an alert has been triggered. The elements of the dialog box are as follows:

- Sender's Email Account: The Sender's email account will be displayed here if it has been selected. Click **Add New Email Account** to enter a new Sender's Email Account
- Recipient Email(s): Add recipient emails by typing the email addresses into the box. If there are multiple email addresses, separate them with a ','
- Send Email to user: Check this box to send an email to the user. The content of the email can be typed into the text box. To include the username within the content, use the variable %USERNAME%. **Note** that this option is only applicable to File Server alerts.

Click **OK** to save the alert action.

2. Show in LiveFeed

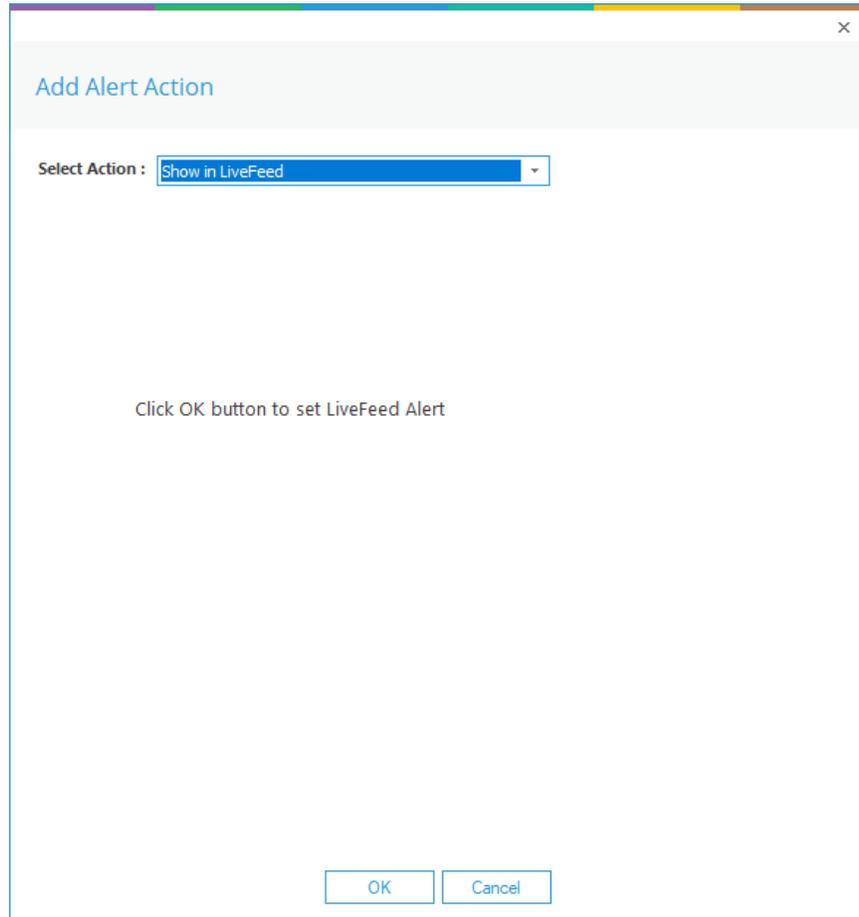


Figure 16: Add Alert Action – Show in LiveFeed

Show in LiveFeed means that the alert will be sent to the Lepide dashboard.

Click **OK** to switch the **LiveFeed** alert on.

3. Send Alert to App

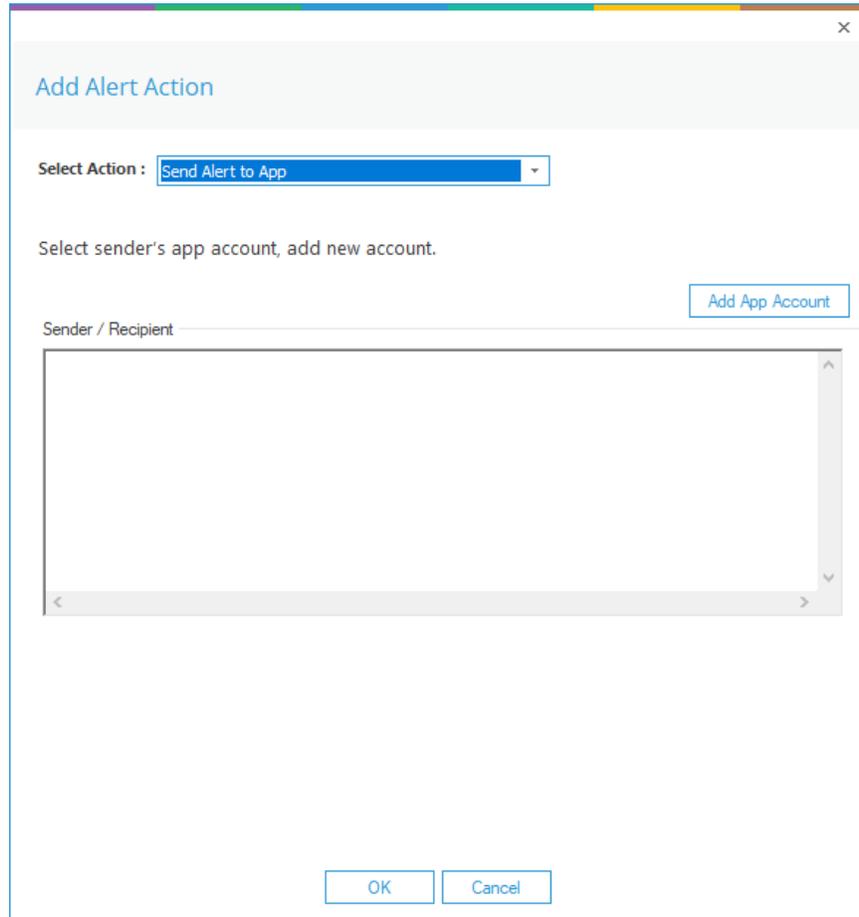


Figure 17: Add Alert Action – Send Alert to App

The **Send Alert to App** option sends the alert to a mobile device.

Click **Add App Account** to add a new mobile account. The following dialog box is displayed:

Add App Account

Please enter login credentials for using both Windows and Mobile App

User ID :

Password :

Mobile App ID :

NOTE : Use this App ID to configure App on Android, iOS and Windows.



Figure 18: Add App Account

Enter the **User ID** and **Password**

Enter the **Mobile App ID** which is generated by using the mobile device to scan the QR code displayed at the bottom of the dialog box.

Click **OK**

4. Execute Script

The screenshot shows a dialog box titled "Add Alert Action" with a close button (X) in the top right corner. The "Select Action" dropdown menu is set to "Execute Script". Below this is a "File Path" field with a browse button (...). There are three radio button options: "Run with SYSTEM account" (selected), "Run with selected account" (with a dropdown menu and an "Add Account" button), and "Notify me when script is executed" (with a "Configure" button). A large empty rectangular box is present below these options. At the bottom, there is a "Parameterized input file contains" dropdown menu set to "Who", an "Information" button, and a "Test Script" button. A note states: "Note: This option is applicable for file server reports." At the very bottom are "OK" and "Cancel" buttons.

Figure 19: Add Alert Action – Execute Script

The last action from the drop-down menu is **Execute Script**

This sets up the option to execute one of the predefined PowerShell scripts when an alert is triggered.

The elements of the dialog box are as follows:

File Path: Browse to choose the file path of the PowerShell script by clicking

Choose either **Run with SYSTEM account** or
Run with selected account.

If you choose **Run with selected account**, you can use the drop-down to select the account or click **Add Account** to specify the account to be used.

Choose **Notify me when a script is executed** to send an email on script execution.

When this option is checked, the **Configure** button becomes available. Choose **Configure** to set up the sender's account and recipient's email address.

Choose **Parameterized input file contains** to specify a variable to include in the script. When this option is checked, a drop-down menu becomes available to choose a variable:

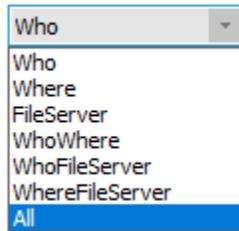


Figure 20: List of Variables

Click **Test Script** to test that the specified script runs with no errors.

Click **OK** to return to the **Alert Settings** dialog box.

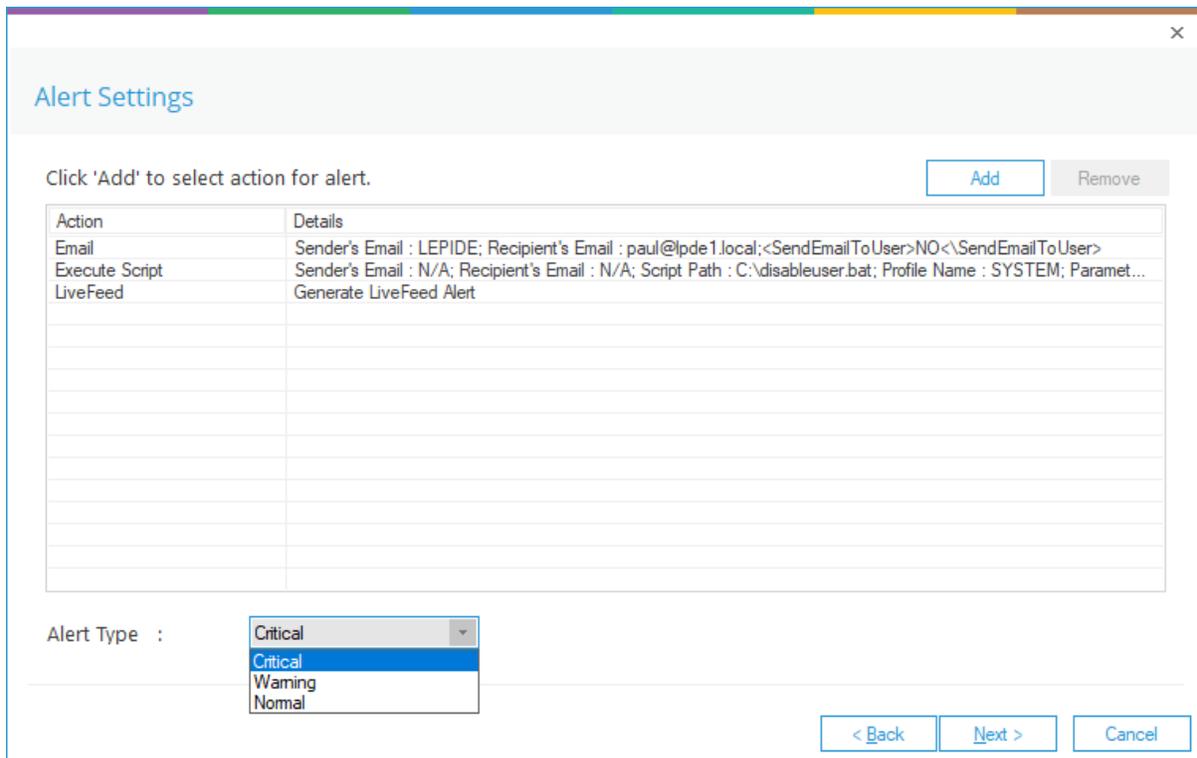


Figure 21: Alert Settings - Alert Type Options

Now choose the **Alert Type** which can be Critical, Warning or Normal

Click **Next** to continue

The **Confirmation** dialog box is displayed with the alert details:

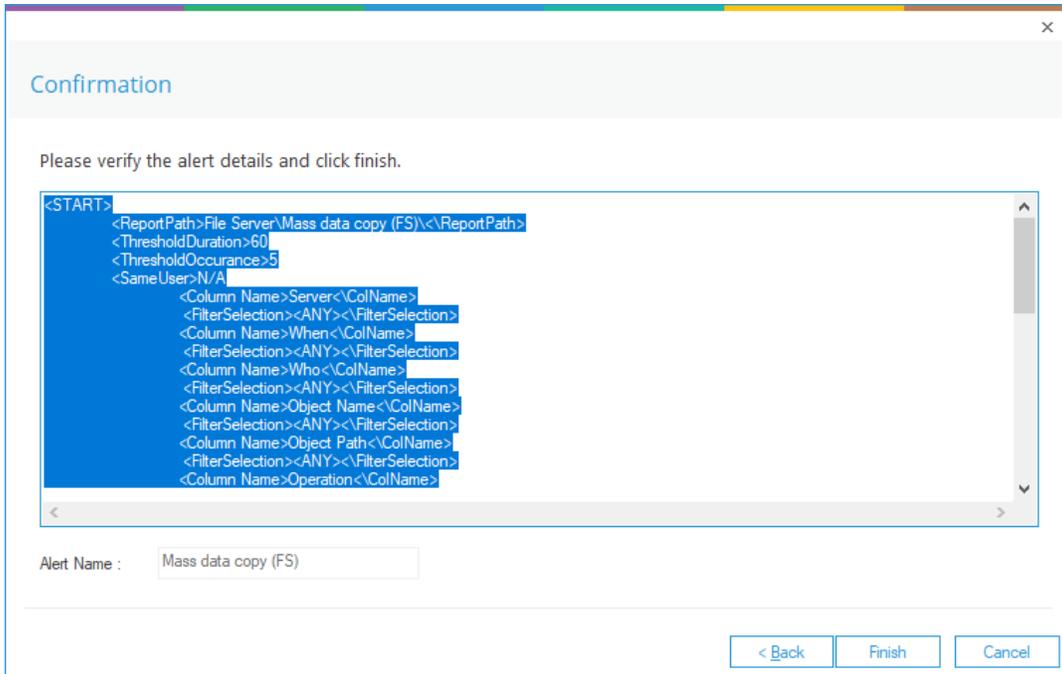


Figure 22: Confirmation of Alert Details

Click **Finish** to return to the Threat Models screen.

4. Support

If you are facing any issues whilst installing, configuring or using the solution, you can connect with our team using the below contact information.

Product Experts

USA/Canada: +1(0)-800-814-0578
UK/Europe: +44 (0) -208-099-5403
Rest of the World: +91 (0) -991-004-9028

Technical Gurus

USA/Canada: +1(0)-800-814-0578
UK/Europe: +44 (0) -208-099-5403
Rest of the World: +91(0)-991-085-4291

Alternatively, visit <https://www.lepide.com/contactus.html> to chat live with our team. You can also email your queries to the following addresses:

sales@Lepide.com

support@Lepide.com

To read more about the solution, visit <https://www.lepide.com/data-security-platform/>.

5. Trademarks

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