Lepide CONFIGURATION GUIDE

NUTANIX QUICK START GUIDE

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1 Introduction

The Lepide Data Security Platform provides a comprehensive way to provide visibility across Active Directory, Group Policy, Exchange on-premises, M365, SharePoint, SQL Server, Windows File Server, NetApp Filer, EMC Isilon, Nasuni (NMC), Nutanix and every platform which can provide an integration with Syslogs and RestAPI.

This guide takes you through the process of standard configuration of the Lepide Data Security Platform for Nutanix.

If you have any questions at any point in the process, you can contact our Support Team. The contact details are listed at the end of this document.

2 Requirements and Prerequisites

Before you start installing the Lepide Data Security Platform for File Server (Nutanix), make sure that your computer meets the following requirements:

2.1 Basic System Requirements

- Required Processor
 - Minimum dual-core processor
 - Recommended quad-core processor
- Required RAM
 - Minimum 4 GB RAM
 - Recommended 8 GB RAM
- Required free disk space
 - Minimum 1 GB
 - Recommended 2 GB
- Any of the following 32-bit or 64-bit Windows Operating Systems.
 - Windows Server OS: 2016, 2019 and 2022 (latest)
- Any of the following SQL Servers (local or network hosted) for storing auditing logs:
 - Any SQL Server above and including SQL Server 2016 (standard or enterprise)
- .NET Framework 4.6.2 developer pack and above

2.2 Supported Servers for Auditing

Audited Servers	Supported Versions
Nutanix	3.7 or above.

2.3 Pre-requisites to Audit Nutanix

- If you have given the denied permission to the file then if you select on file and then right click, the default event is triggered that is "Open Modify\fail".
- If you configure the Nutanix file server on a machine, if you do changes in Nutanix share from the same machine, you are not able to see the changes which you have done
- Port range lies between (1024-65535)
- Supported Protocols:

TCP (Transmission Control Protocol) is a reliable, connection-oriented protocol that ensures data is delivered accurately and in order over a network. It uses error checking, flow control, and retransmission mechanisms to guarantee data integrity and delivery.

2.4 Steps to Create a User for RestApi in Nutanix

PRISM
Lusername password Having Issues logging in?

Login to the Nutanix web console

Figure 1: Nutanix Web Console Login

No Santosh	Home ~	♥ ▲ ⑤ · · ○	ř.						Q ? v 🌣 🛛 admin v
Hypervisor Summa	Home Health	Central	Cluster-wide Controller IOPS		214 IOPS	Health		Critical Alerts	
AHV VERSION NUTANIX 20		Connected 2.168.30.72 Launch	OE30 PM	02:30 PM	03:30 PM	CRITIC	AL		5 CRITICAL
Storage Summary		Logical ~	Cluster-wide Controller IO B/	N	2.23 MBps	Hosts	•1 •0 •0	Host 192.168.30.	68 is using default password 6 hours ago
1.48 TIB Total Capacit		_				Services	• 1 • 0 • 0	CVM 192.168.30	69 is using default password 6 hours ago
	Alerts		01:30 PM	02:30 PM	03:30 PM	Storage Containers	• 0 • 0 • 6	File Server SantoshESa VM	192168.30.74 is using default password
VM Summary			Cluster-wide Controller Laten	cy 🕐	3.55 ms	Data Resiliency Status		Warning Alerts	
3 viv(s)	LCM Settings • Sus • Dou	lity Best Effort 3 0 pend 0	792 ms 01:30 PM	02:30 PM	03:30 PM	Critic	cal	2 WARNING 6 hours ago	File Server time is out of sync with the Active Directory Detected Incompatible AHV version
Hardware Summary	y		Cluster CPU Usage	Cluster Memory	Usage	Configuration supports	s no Disk resiliency	Info Alerts	Events
1	1 0	CommunityEdition	44%	89.9	3%	Failure Domain 😭	Disk	1	30
HOST BL	DCK	MODEL	OF 31.92 GHz	OF 70.53	I GIB	Fault Tolerance 🝘	c	INFO 23 hours ago	EVENTS Last event few seconds ago

• After logging into the Nutanix web console, click on the Gear icon

Figure 2: Nutanix Web Console

• Select the File Server and then click the Launch Files Console

Ng Santosh File Server -	* * 6								Q ? - 🌣 admir
								+ File Server Depl	oy File Analytics Network Config
File Servers								0 1 File Server 0	🕸 🗸 🔹 search in table 🛛 🔍
* Name		Version	Share/Export Count	Open Connections	Space Used (Logical) 🗇	Space Used By Snapshots (Logical)	Protection Status	Recommendations	Actions
SantoshFSa		4.4.0.3	2	4	3.21 MB		Protected		Launch Files Console
Summary FILE SERVER SUMMARY			File Server Alerts	6			File Se	rver Events	
File Server(s) SantoshFSo Share/Export Count 2						Unresolved X			✓ · ③ 3 Alerts ③ · ✿ ✓
Licensable/Used Capacity ① 3.21 MIB	🗍 Sev	arity Issue			Create Time	Last Occurred	Status	Entitles	Documentation

Figure 3: Select File Server

• After clicking on the Launch File Console

SantoshFSa 🔺 👩 🧿 🔞		× Nutanix Files		admin
Dashboard Monitoring - Shares & Export	s Data Management v Alerts & Events Tasks Configuration v			
Capacity Summary				File Server Health
1.37 MiB Total Data (Logical)	1.37 MiB Total Used (Physical)	1.00 : 1 Data Reduction	Smart Tiering	Status Healthy
\cap	Live data	1.37 MiB	Not Configured	Alerts • 2 • 1 • 0
1024 GiB	Snapshot data	0 B	0 GiB	
	Free Capacity	1024 GIB		
	View Usage Details			
Performance Summary			Last 24 Hours	File Analytics
534 Bps Max Throughput	Throughput 427 Dpn			File Analytics provides deep insights, analytics and greater visibility for your data that includes audit trails, user access, custom reporting, anomaly detection and ransomware protection.
5 Max Total IOPS				Status Disabled
1925 μs Max Latency	04.25 PM 06:40 PM 08:55 PM 11:10 PM 01:25 AM	03:40 AM 05:55 AM 08:10 AM 10: at 😰 Read Throughput	KK 25 AM 12:40 PM 03:45 PM	Edition FA On-Premises

Figure 4: Dashboard

• Click on the **Configuration** dropdown and then select **Manage Roles**

SantoshFSa 🛛 🐥 🧿	0 💿	× Nutanix Files	admin
Dashboard Monitoring	Shares & Exports Data Management Alerts & Events Tasks Configuration		
Manage Roles			
	Add Admins Add AD users as File Admins Or Backup Admins.		+ New User
		No data found	
	Nebsi API access users in Manage users on the file server with REST API access.		+ New User
	USERNAME	PASSWORD	
	aadesh		L

Figure 5:Manage Roles

- To create a new user, click on **New User** and then enter the **username** and **password**
- After adding a new user, you can access the RestAPI

2.5 Required User Rights

- Users should be Domain users (required for Permission and Property Changes in Auditing)
- A member of Domain Admins Group (required for DDC)

2.6 Local System Rights

The user should have the following permissions on the local computer where the software is installed:

- Full access permission to the drive on which the operating system is installed
- Read/Write permissions in the registry

3 Add Nutanix

After you have installed the Solution and configured the Lepide service to run with administrative credentials, you can add an Nutanix File Server for auditing.



Figure 6: Component Management Window

From the Component Management window, under the **Add Component** section, click on the **File Server** icon to add this component to the solution.

The File Server Settings Console dialog box is displayed:

Settings						
Component Management G Component Management G 192.168.30.180 G 192.168.30.8(SQL) G v wfromhome.onmicrosoft.con	File Servers					
P lepides I-admin.sharepoint.co						
E-III File Servers III 192.168.30.232(File Server)	W LepideDSP for File Server - Settings Cons	sole				- 🗆 ×
- == 192.168.30.79(File Server)	HLE VIEW HELP					
General Settings	Add File Server + 🕐 Help					
- Current Permission Scan Settings						
Message Delivery Settings Default SQL Server Settings	dif LepideDSP for File Server	All File Servers				
- 🐻 UEBA			invition Ure options to add, modify	lile repair and options in tasks page for	s other settings	
Agent Settings	- Valit Policies		garanten est opnom to aud, mouny	the sector and options in tasks party for		
- 10 Archive & Import						0 - 2 X
		File Server Name/IP	Domain/Workgroup	Agent Status	Auditing Status	Tasks
		0 192.168.30.232	CHILY	Installed	Auditing Stopped	
		192.168.30.79	LDSP2/WETAPP	File Server Unavailable or Acce	ess Den Auditing Stopped	Nort Settings
						Sefresh
						🚺 Install Agent
						🔓 Uninstall Agent
						Start Auditing
						o Stop Auditing
						🧐 Update Agent
						Upgrade Agent(s)
						💗 Modify File Server(s)
						Remove File Server(s)
						Service Rights
		File servers are the mach	ines that are being audited for change	s. Agent must be installed and auditing	should be started to audit all the changes per	ormed on file servers.

Figure 7: File Server Console

Here, you can click **Add File Server** icon \bigcirc on the toolbar to add either of the following file servers:

- Windows File Server •
- NetApp Filer •
- EMC Isilon •
- Nasuni
- Nutanix •
- 1. Click the Add File Server icon, ••• select Single then select Nutanix.

G+ 🖉 🗙		
Single	• 🗐	Windows
Multiple	• 🖫	Netapp 7-Node
	1	Netapp Cluster Mode
52	Refre 🕒	EMC Server
	Insta 😂	Nasuni Serrer
	Unin ×	Nutanix Server

Figure 8: Option to Add Nutanix Server

2. The **Add File Server** wizard starts:

Please Provide Nutanix	information	
Nutanix File Server		
Nutanix File Server Name/IP :		
Syslog Listing Port :		?
User Name :		
Password :		
Note: Enter User Name in "D	omain\\UserName" format.	
Nutanix File Server REST API		
User Name :		
Password :		
Note: Enter Nutanix details to	access Nutanix File Server REST API	

Figure 9: Nutanix Information

- 3. Add all the details for the Nutanix file server:
 - Enter the Nutanix File Server IP or Name
 - Enter Any Syslog Port to start the auditing please enter a number more than 0

Click the 🕐 icon to see information about the Syslog Listing Port

- Enter the Username and Password for the domain user to share access
- Enter the Username and Password for Nutanix file Server Rest API

		×
Please Provide Nutanix	information	
Nutanix File Server		
Nutanix File Server Name/IP :	192.235.54.363	
Syslog Listing Port :	413	(?)
User Name :	ldsp\\Rams09	
Password :	*****	
Note: Enter User Name in "Do	main\\UserName" format.	
Nutanix File Server REST API		
User Name :	Rams@ldsp	
Password :	****	
Note: Enter Nutanix details to	access Nutanix File Server REST API	
	< Back Next >	Cancel

Figure 10: Nutanix File Information Completed

4. Click **Next** to go to the next step, to provide the details of SQL Server to create a database for storing auditing logs.

Server Name :	192.235.54.363 Browse	
O Windows Authenti	cation (Recommended)	
User Name :	Rams@ldsp	
Password :	******* Test Connec	tion 🔂
Password : Database Option :	***** Test Connec	tion
Password : Database Option :	***** Test Connec	tion 💼
Password : Database Option : - Create Database Select Database		tion 💽
Password : Database Option : Create Database Select Database Note : If you do not have	Rams19 SQL Server installed then click this link to download SQL Expres	tion 🗟
Password : Database Option : Create Database Select Database Note : If you do not have https://www		tion 🕞
Password : Database Option : • Create Database • Select Database Note : If you do not have https://www	******* Test Connect Rams19 • <select database=""> • SQL Server installed then click this link to download SQL Express • w.microsoft.com/en-in/education/products/microsoft-365</select>	tion 🖻

Figure 11: SQL Server Details to add Nutanix

- 5. Enter the **Server Name** or click Browse to select the desired SQL Server.
- 6. There are two authentication options available:
 - **Windows Authentication:** This mode can be selected if SQL Server is installed on the same computer where the solution is installed.
 - **SQL Server Authentication:** Select this mode if SQL Server is installed on a remote or local computer. We recommend that this option is selected.
 - Provide the username and password of a SQL user, who has sufficient rights to create the database.
- 7. Enter a database name in the database name field to create a new database. You can also select an existing database created earlier by Lepide or another application.
- 8. Click Next

The Status dialog box is displayed:

Status Status: Tasks Status → Configure for 192.168.30.44 < 80%					>
Status: Tasks Status Configure for 192.168.30.44	Status				
Status: Tasks Status Configure for 192.168.30.44					
Tasks Status Configure for 192.168.30.44 Status	Status:				
<	Configure for 192.168.30.44	Status			
< 80%					
<					
80%					
80%					
80%	<				>
		80%			
< Back Finish Cancel Help		< Back	Finish	Cancel	Help

Figure 12: Status

- 9. Once complete, click **Finish**
- 10. You will return to the Settings Console and the File Server will be listed with Auditing started:

File Servers Audit Rules Audit Policies User Group	All File Servers – Overview of file server cor	nfiguration. Use options to add, modify	file servers and options in tasks pane	for other settings.	0- / X
Jackup & Restore	File Server Name/IP	Domain/Workgroup	Agent Status	Auditing Status	Tasks
					 Port Settings Refresh Install Agent Uninstall Agent Start Auditing Stop Auditing Upgrade Agent(s) Modify File Server(s)
	4				Remove File Server(s) Service Rights
	< Comparison of the second sec				,

Figure 13: Settings Console with File Server Installed

3.1 Editing the Nutanix Credentials

To make changes to the credentials, right click on the File Server name and choose Properties

File Server Name/IP	Domain/Workgroup	Agent Status	Auditing Status
192.168.30.96	LDS	Installed	Auditing Started
	Install Agent		
	Uninstall Agent		
	Start Auditing		
	Stop Auditing		
	S Refresh		
	Properties		

Figure 14: Properties Menu

The Properties dialog box will be displayed:

file Server :	192.168.30.73	
Domain/Workgroup :	LDSP2	
Agent Status :	Not Installed	
Audit Status :	Auditing Stopped	
Syslog Port :	555	
User Name :	aadesh	
Password :	******	
Share Access Credenti	ial	
User Name :	LDSP2\Varun	
Password ·	•••••	

Figure 15: Properties

Make the changes as required and click **OK** when finished.

4 Support

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

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

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Alternatively, visit <u>https://www.lepide.com/contactus.html</u> 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 <u>https://www.lepide.com/data-security-platform/</u>.

5 Trademarks

Lepide Data Security Platform, Lepide Data Security Platform App, Lepide Data Security Platform App Server, Lepide Data Security Platform (Web Console), Lepide Data Security Platform Logon/Logoff Audit Module, Lepide Data Security Platform for Active Directory, Lepide Data Security Platform for Group Policy Object, Lepide Data Security Platform for Exchange Server, Lepide Data Security Platform for SQL Server, Lepide Data Security Platform SharePoint, Lepide Object Restore Wizard, Lepide Active Directory Cleaner, Lepide User Password Expiration Reminder, and LiveFeed are registered trademarks of Lepide Software Pvt Ltd.

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