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Overview of QNAP NAS auditing

ManageEngine ADAudit Plus audits the following file events in QNAP network attached storage (NAS):

- Creation
- Modification
- Deletion
- Move
- Rename
- Read access

File storage auditing with ADAudit Plus offers several advantages:

- Enables single console auditing across hybrid Windows, EMC, NetApp, Huawei, Hitachi, Synology, Amazon FSx, QNAP, and more.
- Enhances threat response with user behavior analytics-driven anomaly detection, real-time email and SMS alerts, and automated responses.
- Provides built-in reports for various regulations, such as HIPAA, the GDPR, FISMA, SOX, and PCI DSS.

Configuring QNAP NAS auditing

This page describes the steps to configure your target QNAP network attached storage (NAS) device to send audit logs and add a QNAP NAS server to the ADAudit Plus console.

Configuring log settings and forwarding

To set up communication between ADAudit Plus and the target QNAP NAS server and to enable log forwarding, follow these steps:

- 1. In the QuLog Center, navigate to Local device > Log Settings > Access Log Settings.
- 2. Under Connection Types, select SMB (Windows) and click Apply.

а́н	Overview	Log Settings								
n==		Event Log Settings	Access Log Settings	Event Indicators						
щ		Here you can set the database s	Here you can set the database size, connection type, and delete all data from the Access Log.							
	Event Log	General Settings	, ,,,,		5					
	Access Log	General Gettings								
	Online Users	Configure the log retention set entries to make room for new	ttings. When the number of log e entries.	entries reaches the speci	ed threshold, QuLog Center automatically deletes the oldest					
	Log Settings	Destination	DataVol1	•						
Ð	QuLog Service									
	Log Sender	Maximum number of entries:	5 million	•						
	Log Receiver	Log retention time:	Last 180 days	•						
	Sender Devices	Archive and move log entries to the specified location after reaching the database limit								
	All Devices									
Â	Notification Settings	Destination folder:	Please choose a destinat	Browse						
4		Delete All Access Logs								
		1								
		Connection Types								
		Select the connections you want	to log.							
		✓ HTTP/HTTPS	SSH/SF	TP	iscsi					
		FTP	AFP (M	lac)						
		☑ Telnet	SMB (V	Vindows)	U WebDAV					

- 3. Then, navigate to **QuLog Service > Log Sender.** Enable **Send logs to a remote QuLog Center.**
- 4. Click Add Destination. In the resulting pop-up, enter the following details:
 - a. The IP address of the machine where ADAudit Plus is installed.
 - b. The preferred port number, 514 by default.
 - c. The transfer protocol, UDP.
 - d. Select Access Log as the Log type.
- 5. Click Apply.

Overview	Overview							
Local device	Send to	Qulog Center Sen	id to Syslog Server					
Event Log	You can send	d the event log and access lo	og from the local device to a remot	e QuLog Center.				
Access Log	Send I	logs to a remote QuLog Center	r					
Online Users				X	🧭 Send a Test Message	🗊 Remove		
Log Settings	□ St	Add Destination	1		Гуре	Action		
] QuLog Service		Hostname/ID address:	103 168 101 10	O Search	ss Log	ø C 🖻		
Log Sender		nostilame/iF address.	192.108.101.10		ss Log	ø C 🖻		
Log Receiver		Port:	514		ss Log	ø C 🖻		
Sender Devices		Transfer protocol:	UDP	•	ss Log	ø C 🖻		
All Devices		Log type:	Access Log	×	ss Log	ø C 🖻		
Notification Settings		Format	REC-5424		it & Access Logs	ø C 🗊		
		- Office	111 C 5424		ss Log	ø C 🖻		
		🖉 Send a Test Messa	ge		ss Log	ø C 🖻		
					ss Log	ø C 🖻		
				Apply Cancel	ss Log	ø C 🖻		

Adding QNAP NAS servers

To add your target servers to the ADAudit Plus console for auditing, follow these steps:

- 1. Log in to the ADAudit Plus web console with admin credentials.
- Navigate to the tab File Audit > Configured Server(s) > QNAP NAS and click Add Server in the top-right corner.
- 3. In the Add QNAP Server pop-up, enter the name of the target server. Click **Next.**

Add QNAP Server			
Select Server	2 Select Share(s)	3 Review Summary	
Enter the QNAP Server Name			
	Quit Ne	ext	
	- You III		

4. Select the shares you wish to audit and click **Next**.

Select Server	r	Select Share(s)		3 Review Summary		
Q	•				1-2 of 2 2	5▼ €
	NAME		LOCAL PATH			
	\\adap-qnap\Public		C:\share\CACHEDEV1_DA	\TA\Public		
	\\adap-qnap\share1		C:\share\CACHEDEV1_DA	TA\share1		

5. Review your selection and click **OK**.

Select Server	2 Select Share(s)	Review Summary	
	QNAP Server Name	adap-qnap	
	Domain Name	adaudit.com	
Selected Shares	•		
\\adap-qnap\Public			

Exclude Configuration

Files/folders can be excluded based on File/folder local path, file type, process name, and user name by using the **Exclude Configuration** setting.

Log in to ADAudit Plus' web console \rightarrow Go to the **File Audit** tab, navigate to the left pane, click on Configuration and then on **Exclude Configuration** \rightarrow Choose to exclude by **File/Folder** local path, **File Type, Process Name**, or Users \rightarrow Click on '+', and configure the necessary settings.

	Home	e Re	ports	File Audi	t Server Aud	it Analyti	ts Alerts	Configuration	Admin	Support		Q S	earch	Ö Domain	Settings
Search Reports [Ctrl+Space]		File Aud	t Reports 🖣	Sh	are Based Reports	 Favour 	ite Reports 🔻	N Net	App 😫 E	MC E	Windows F	ile Server	Fo Wir	idows File (luster
Configured Server(s)	•	Exclu	de Config	guratio	n										
File Audit Reports	•	Exclude	the following	g from aud	iting										
Server Based Reports	•														
User Based Reports			File/Fold	er	File Types	Process	Users								
Chana David Davida			Coarch F	ilo/Foldor	or Pogov		- Selected File/	Folders will be exclu	ded					+	
Share Based Reports	,		Search	lie/Folder	or Regex										
Profile Based Reports	•				File	/Folder					Regex Patterr	IS			
Favourite Reports	•		✓ *thu	imbs.db											
Configuration			✓ *\~*												
File Audit Report Profiles			✓ */~*												
Advanced Configurations															
Exclude Configuration															

Example scenarios, to exclude by File/Folder local path:

Objective	To exclude a folder and all of its sub	ofolders and files
Share configured	Share path	Local path
	\\SERVER_NAME\share_name	C:\sharefolder
Path of folder that is to be excluded	C:\sharefolder\excludefolder	
File/Folder or Regex Patterns	File/Folder Patterns	
Syntax	C:\sharefolder\excludefolder C:\sharefolder\excludefolder*	
What will get excluded	C:\sharefolder\excludefolder C:\sharefolder\excludefolder\folder C:\sharefolder\excludefolder\files.tx C:\sharefolder\excludefolder\folder\	t files.txt

What won't get excluded	-
Objective	To exclude "AppData" folder for every user profile
Share and folder path	\\SERVER_NAME\Users C:\Users
Path of folder that is to be excluded	C:\Users\user1\AppData
File/Folder or Regex Patterns	Regex Patterns
Syntax	C:\\Users\\[^\\]*\\AppData
What will get excluded	C:\Users\user1\AppData C:\Users\user2\AppData C:\Users\user1\AppData\subfolder C:\Users\user2\AppData\subfolder
What won't get excluded	C:\Users\user1\subfolder\AppData C:\Users\user2\subfolder\AppData

Objective	To exclude files from a specific folder but audit all subfolders and its contents
Share configured	\\SERVER_NAME\share_name C:\sharefolder
Path of folder that is to be excluded	C:\sharefolder\excludefolder
File/Folder or Regex Patterns	Regex Patterns
Syntax	^C:\\sharefolder\\excludefolder\\[^\\]*\.[^\\]*\$
What will get excluded	C:\sharefolder\excludefolder\file.txt C:\sharefolder\excludefolder\folder.withDot
What will get excluded	C:\sharefolder\excludefolder C:\sharefolder\excludefolder\folderWithoutDot C:\sharefolder\excludefolder\folderWithoutDot\subfolder C:\sharefolder\excludefolder\folderWithoutDot\testfile.txt C:\sharefolder\excludefolder\folder.withDot\subfolder C:\sharefolder\excludefolder\folder.withDot\subfolder

Troubleshooting QNAP NAS auditing

Understand and resolve some common issues you might face while auditing your QNAP network attached storage (NAS) servers using ADAudit Plus.

"Yet to fetch event data" / "The timestamp is not updated" / "No data is received"

Ensure that the IP address of the ADAudit Plus server is configured in the QuLog Center in order to receive forwarded logs.

2. "Error in getting shares" / "Access is denied"

Ensure that the user configured under Domain Settings has permission to read the target shares from the MMC snap-in.

3. "Error - Syslog Listening stopped"

On the ADAudit Plus web console, navigate to Admin > General Settings >

Connection > General. Set Current Syslog Status to On.

ManageEngine) ADManager Plus

ManageEngine ADAudit Plus is a real-time change auditing and user behavior analytics solution that helps keep your Active Directory, Azure AD, Windows servers, and workstations secure and compliant.

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