

Minimum privileges



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Overview

Certain minimum privileges are required to start ManageEngine ADAudit Plus and begin auditing your Active Directory (AD), Azure AD, Windows servers, file servers, workstations, and other network-attached storage (NAS) devices. This guide will walk you through these prerequisites and the process of setting up a service account with the required privileges.

1. For product start-up

1.1 Installation folder privileges

To enhance the security of your ADAudit Plus installation, starting from build 7251, default access to the ADAudit Plus folder is limited to the user account used for installation and the *SYSTEM*, *Administrators*, and *Domain Admins* groups. However, to allow other users to start ADAudit Plus, you can follow the steps under [Assign Modify permission to the ADAudit Plus folder for users starting the product](#).

If you are using an earlier build of ADAudit Plus, or if you have upgraded to build 7251 recently, there are two ways to safeguard the ADAudit Plus folder from unauthorized modifications:

- [Using SecureDeployment.exe](#)
- [Modifying the permissions manually](#)

1.2 Using SecureDeployment.exe

The SecureDeployment.exe file will strengthen the security of your ADAudit Plus installation by automatically:

- Preventing non-administrative groups from accessing the ADAudit Plus folder.
- Assigning the Modify permission to a selected user account.
- Configuring "Log On" account credentials if ADAudit Plus is installed as a service.

To run the SecureDeployment.exe file:

- Go to <Installation_Directory>\ADAudit Plus\bin folder (if you have upgraded to build 7251 recently) and locate *SecureDeployment.exe* file.

Note: If you are using an earlier build, [download the SecureDeployment](#) zip file, unzip it and copy its contents to <Installation_Directory>\ADAudit Plus\bin folder.

- Right-click the **SecureDeployment.exe** file and select **Run as Administrator**.
- Enter "1" and proceed with removing the permissions for the non-administrative groups, namely *Authenticated Users, BUILTIN\Users, CREATOR OWNER, ALL RESTRICTED APPLICATION PACKAGES, ALL APPLICATION PACKAGES, TrustedInstaller, and Everyone*.
- Once the permissions are removed, press any key to open the **Select User or Group** dialog box.
- Enter the name of the user that you want to assign the permission to start ADAudit Plus, and click **Check Names** to confirm the selection.

Note: If you have installed ADAudit Plus as a service with "Log On" account credentials, enter the username associated with that account.

- Click **OK**.

Note: If you want to assign the permission to start ADAudit Plus to multiple users, follow the steps under [Assign Modify permission to the ADAudit Plus folder for users starting the product](#).

1.3 Modifying the permissions manually

If you do not want to use the *SecureDeployment.exe* file, you can strengthen the security of your ADAudit Plus installation by ensuring the following:

Disable Inheritance for the ADAudit Plus folder.

- Go to <Installation_Directory>\ManageEngine.
- Right-click the **ADAudit Plus** folder and select **Properties**.
- Click the **Security** tab and then click **Advanced**.
- In the *Advanced Security Settings* window, click **Disable inheritance**.
- Click **OK**.

Remove non-administrative groups from ADAudit Plus folder's Access Control List.

- Go to <Installation_Directory>\ManageEngine.
- Right-click the **ADAudit Plus** folder and select **Properties**.
- Click the **Security** tab and then click **Advanced**.
- In the *Advanced Security Settings* window, under **Permission entries**, select the non-administrative users and groups, and click **Remove**.
- Click **OK**.

Assign Full control permission to the Domain Admins, Administrators, and SYSTEM groups.

- Go to <Installation_Directory>\ManageEngine.
- Right-click the ADAudit Plus folder and select **Properties**.
- Click the **Security** tab and then click **Advanced**.
- In the **Permissions** tab, click **Add**.
- Click the **Select a principal** link and add *Domain Admins*, *Administrators*, and *SYSTEM* groups.
- Click **OK**.
- Next to **Type**, select **Allow**, and next to **Applies to**, select **This folder, subfolders, and files**.
- Under **Basic Permissions**, check the **Full control** box.
- Click **OK**.

Assign Modify permission to the ADAudit Plus folder for users starting the product.

- Go to <Installation_Directory>\ManageEngine.
- Right-click the ADAudit Plus folder and select **Properties**.
- Click the **Security** tab and then click **Advanced**.
- In the **Permissions** tab, click **Add**.
- Click the **Select a principal** link, enter the name of the user that you want to assign the permission to start ADAudit Plus, and then click **Check Names** to confirm the selection.
- Click **OK**.
- Next to **Type**, select **Allow** and next to **Applies to**, select **This folder, subfolders, and files**.
- Under **Basic Permissions**, check the **Modify** box.
- Click **OK**.

Note: If the product is installed as a service with "Log On" account credentials, ensure this account has *Modify* permission

1.4 Exclude ADAudit Plus from antivirus and endpoint protection

To prevent any performance issues and to avoid potential disruptions to the ADAudit Plus database's (PostgreSQL) operation, it is essential to exclude certain directories from antivirus and endpoint protection on the ADAudit Plus server. This exclusion is crucial, as antivirus and endpoint protection solutions can sometimes falsely tag the database and other files within ADAudit Plus' installation directory as a threat or vulnerability.

The performance issues that you might face in ADAudit Plus due to antivirus and endpoint protection software include high latency when processing events and alerts, low throughput when adding data to the database or DataEngine, and corruption of database files.

For optimal performance, it is recommended that you exclude the directories used by java.exe and postgres.exe from antivirus and endpoint protection on the ADAudit Plus server. The directories that need to be excluded are listed below:

```
<Installation_folder>\ManageEngine\ADAudit Plus\index  
<Installation_folder>\ManageEngine\ADAudit Plus\eventdata  
<Installation_folder>\ManageEngine\ADAudit Plus\alertdata  
<Installation_folder>\ManageEngine\ADAudit Plus\ehcache  
<Installation_folder>\ManageEngine\ADAudit Plus\apps\dataengine-xnode\data  
<Installation_folder>\ManageEngine\ADAudit Plus\pgsql
```

Note: The java.exe and postgres.exe processes are located, respectively, at:
<Installation_Directory>\ManageEngine\ADAudit Plus\jre\bin\java.exe
<Installation_Directory>\ManageEngine\ADAudit Plus\pgsql\bin\postgres.exe

2. For DataEngine

2.1 Introduction

The DataEngine component within ADAudit Plus stores and retrieves log data efficiently. It enhances scalability by enabling faster search and retrieval of data.

The DataEngine stores its data under C:\Program Files (x86)\ManageEngine\ADAudit Plus\apps by default. The size of this folder will depend on the volume of logs collected and stored. For example, approximately 15MB of space will be necessary for every 100,000 log entries. So be sure to allocate the space required on the disk for storing log data.

Note: Any accidental deletion of the files within this folder could result in data loss, which is why it is strongly recommended not to delete any files in this folder.

The DataEngine runs as a separate service, i.e., *ManageEngine ADAudit Plus - DataEngine XNode*. This service uses port 29118 to communicate, and it needs to be kept running for the optimal functioning of ADAudit Plus.

You can change the port being used by modifying the value of the parameter *xnode.connector.port* in the below files. Make sure to use the same value in both the files listed below:

```
<Installation directory>\apps\dataengine-xnode\conf\dataengine-xnode.conf  
<Installation directory>\conf\DataEngine\engines\xnode\dataengine-xnode.conf
```

2.2 Required permissions

The user or the service account that starts the ManageEngine ADAudit Plus service needs these privileges:

- Full control over the product installation folder.
- Privilege to start, install, and stop the ManageEngine ADAudit Plus - DataEngine XNode service.

Steps to provide full control privileges over the product installation folder:

- Log in to the machine where ADAudit Plus is installed with domain admin privileges.
- Navigate to the product installation folder (C:\Program Files (x86)\ManageEngine\ADAudit Plus). Right-click on it and select **Properties > Security > Edit**. Select the user account you want to provide full control access to and click **Add**. Check **Allow** under **Full control** access. Click **Ok**.

Steps to provide privileges required to start, install, and stop the DataEngine service

You can either add the user to the local administrator group or use Group Policy to provide the necessary privileges.

A. To add the user to the local administrator group:

- Log in to the machine where ADAudit Plus is installed.
- Go to **Start > Control Panel > Edit local users and groups > Groups**. Double-click **Administrators**.
- In the **Administrators Properties** window that opens, click **Add**.
- Select the **Entire Directory**. Select the desired user and click **Add**.
- Click **OK**.

B. To provide the necessary privileges using Group Policy:

- Log in with Domain Admin credentials to any of the domain controllers that has **Active Directory Users and Computers**.
- Go to **Start > Windows Administrative Tools > Active Directory Users and Computers**.
- Right-click the domain to which you want to add the organizational unit to. Click **New > Organizational Unit**.
- In the *New object - Organizational Unit* window that opens, type in the desired **OU name** and move the **computer** where ADAudit Plus service is running into the OU.
- Go to **Start > Windows Administrative Tools > Group Policy Management**.

Note: The Group Policy Management Console (GPMC) will not be installed on all workstations and servers by default. You can follow the steps on [this page](#) to install the GPMC on the desired member servers and workstations.

- Navigate to the recently created OU. Right-click the OU and select **Create a GPO and Link it here**. In the *New GPO* window, type in the desired name and click **OK**.
- Select the newly created GPO, right-click it, and select **Edit**. In the *Group Policy Management Editor*, go to **Computer Configuration > Policies > Windows Settings > Security Settings > System services**. Right-click **ManageEngine ADAudit Plus - DataEngine XNode** and select **Properties**. In the new window, check the **Define this policy setting** box. Click **Edit Security**.
- In the *Security* tab that opens, search and find the user account to which you want to provide the necessary privileges. Select the user account and give **Full access** to it.
- Click **OK**.
- This Group Policy needs to be enforced throughout the domain. To do this, go to **Start > Command Prompt**. Type in `gpupdate/force`.

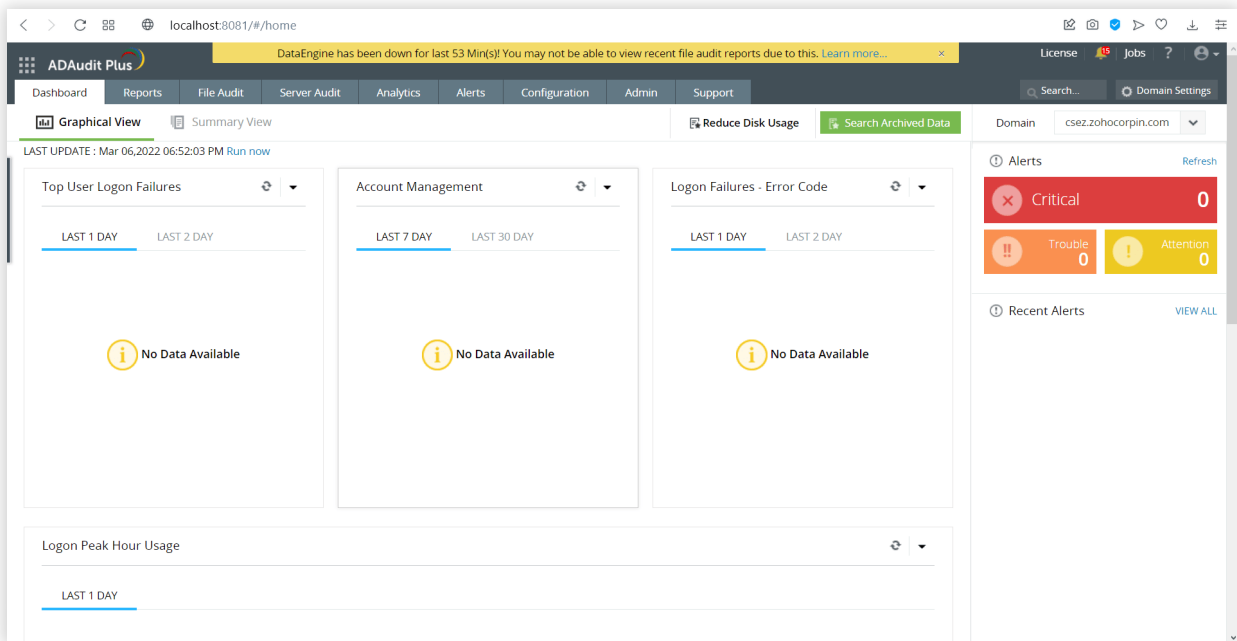
Steps to provide privileges to archive and restore the audit data

- To find out the location of the Archive Folder: Open **ADAudit Plus** → **Admin** → **Archive Events** → Scroll down to see the location.
- Log in to the machine where ADAudit Plus is installed with Domain Admin privileges. → Locate the archive folder → Right-click on it and select **Properties > Security > Edit**. Select the user account you want to provide full control access to and click **Add**. Check **Allow** under **Full control** access. Click **Ok**.
- If the archive folder is a shared folder, go to the **Sharing** tab → **Advanced Sharing...** → **Permissions** → Select the user account you want to provide full control access to and click **Add**. → Check **Allow** under **Full control** access. Click **Ok**.

Note: If the archive folder is a shared folder it is important to ensure that the service account used to run the DataEngine service is the same as the service account used to run the ADAudit Plus service. that you've assigned the Full control permission to.

2.3 Troubleshooting

1. DataEngine has been down for last "x" mins(s). You may not be able to view recent file audit reports due to this.



Solution:

1. Open the DataEngine.log file in the ADAudit Plus log folder, i.e., <installation_dir>\logs.
2. Check if the errors listed below are in the DataEngine.log file:
 - Unable to install the ManageEngine ADAudit Plus - DataEngine XNode service - Access is denied.
 - Unable to start the ManageEngine ADAudit Plus - DataEngine XNode service - Access is denied.

```
[10:36:37:091][01-07-2022][DataEngineLogger][INFO][25]: DE XNode START :: XNode is not running! Going to start it...
[10:36:37:091][01-07-2022][DataEngineLogger][INFO][25]: DE XNode START :: STARTING DataEngine XNode Service @ 127.0.0.1...
[10:36:37:091][01-07-2022][DataEngineLogger][INFO][25]: STARTING Local DataEngine XNode Service...
[10:36:37:154][01-07-2022][DataEngineLogger][INFO][25]: #-----
[10:36:37:154][01-07-2022][DataEngineLogger][INFO][25]: # COMMAND : ..\apps\dataengine-xnode\bin\dataengine-xnode.bat -t
[10:36:37:154][01-07-2022][DataEngineLogger][INFO][25]: # INPUT STREAM :
[10:36:37:154][01-07-2022][DataEngineLogger][INFO][25]: #-----
[10:36:37:154][01-07-2022][DataEngineLogger][INFO][25]: #
[10:36:37:154][01-07-2022][DataEngineLogger][INFO][25]: # ERROR STREAM :
[10:36:37:154][01-07-2022][DataEngineLogger][INFO][25]: #-----
[10:36:37:154][01-07-2022][DataEngineLogger][INFO][25]: # wrapperm | Unable to start the ManageEngine ADAudit Plus - DataEngine XNode service - Access is denied. (0x5)
[10:36:37:154][01-07-2022][DataEngineLogger][INFO][25]: #-----
[10:36:37:154][01-07-2022][DataEngineLogger][INFO][25]: # STATE after start command : UNINSTALLED
[10:36:37:154][01-07-2022][DataEngineLogger][INFO][25]: INSTALLING Local DataEngine XNode Service...
[10:36:37:216][01-07-2022][DataEngineLogger][INFO][25]: #-----
[10:36:37:216][01-07-2022][DataEngineLogger][INFO][25]: # COMMAND : ..\apps\dataengine-xnode\bin\dataengine-xnode.bat -i
[10:36:37:216][01-07-2022][DataEngineLogger][INFO][25]: # INPUT STREAM :
[10:36:37:216][01-07-2022][DataEngineLogger][INFO][25]: #-----
[10:36:37:216][01-07-2022][DataEngineLogger][INFO][25]: #
[10:36:37:216][01-07-2022][DataEngineLogger][INFO][25]: # ERROR STREAM :
[10:36:37:216][01-07-2022][DataEngineLogger][INFO][25]: #-----
[10:36:37:216][01-07-2022][DataEngineLogger][INFO][25]: # wrapperm | Unable to install the ManageEngine ADAudit Plus - DataEngine XNode service - Access is denied. (0x5)
[10:36:37:216][01-07-2022][DataEngineLogger][INFO][25]: #-----
[10:36:37:216][01-07-2022][DataEngineLogger][INFO][25]: CHECKING if Local DataEngine XNode service is installed...
[10:36:37:279][01-07-2022][DataEngineLogger][INFO][25]: #-----
[10:36:37:279][01-07-2022][DataEngineLogger][INFO][25]: # COMMAND : ..\apps\dataengine-xnode\bin\dataengine-xnode.bat -q
[10:36:37:279][01-07-2022][DataEngineLogger][INFO][25]: # INPUT STREAM :
[10:36:37:279][01-07-2022][DataEngineLogger][INFO][25]: #-----
[10:36:37:279][01-07-2022][DataEngineLogger][INFO][25]: # wrapperm | The ManageEngine ADAudit Plus - DataEngine XNode Service is installed.
[10:36:37:279][01-07-2022][DataEngineLogger][INFO][25]: # ERROR STREAM :
[10:36:37:279][01-07-2022][DataEngineLogger][INFO][25]: #-----
[10:36:37:279][01-07-2022][DataEngineLogger][INFO][25]: #
[10:36:37:279][01-07-2022][DataEngineLogger][INFO][25]: #-----
```

2.1 If these appear in the file, DataEngine is unavailable due to insufficient privileges. To provide sufficient privileges required to start, install, and stop the DataEngine service, follow the steps [listed here](#).

2.2 If these are not in the file, then [contact our support team](#). They will assist you in debugging the issue with the DataEngine service.

3. For AD, Windows Server, and Workstation auditing

3.1 Overview

ADAudit Plus instantly starts to audit activities upon providing Domain Admin credentials. If you do not want to provide Domain Admin credentials, follow the steps laid out in this guide to set-up the service account to have only the least privileges required for auditing your environment.

Note: If you want to configure multiple domains in ADAudit Plus, we recommend creating separate service accounts for each individual domain.

3.2 New user, group, and GPO creation

1. Create a new user

i. Log in to your Domain Controller with Domain Admin privileges → Open Active Directory Users and Computers → Right click on your domain → New → User → Name the user as "ADAudit Plus".

2. Create a new group

i. Log in to your Domain Controller with Domain Admin privileges → Open Active Directory Users and Computers → Right click on your domain → New → Group → Name the group as "ADAudit Plus Permission Group".

ii. Add all the audited computers as members of the "ADAudit Plus Permission Group":

- Right click on the "ADAudit Plus Permission Group" → Properties → Members → Add all the Domain Controllers, Windows servers and workstations that you wish to audit.

3. Create a new domain level GPO and link it to all the audited computers

Since configuring permissions on individual computers is an elaborate process, a domain level GPO is created and applied on all monitored computers.

i. Log in to your Domain Controller with Domain Admin privileges.

ii. Create a new domain level GPO:

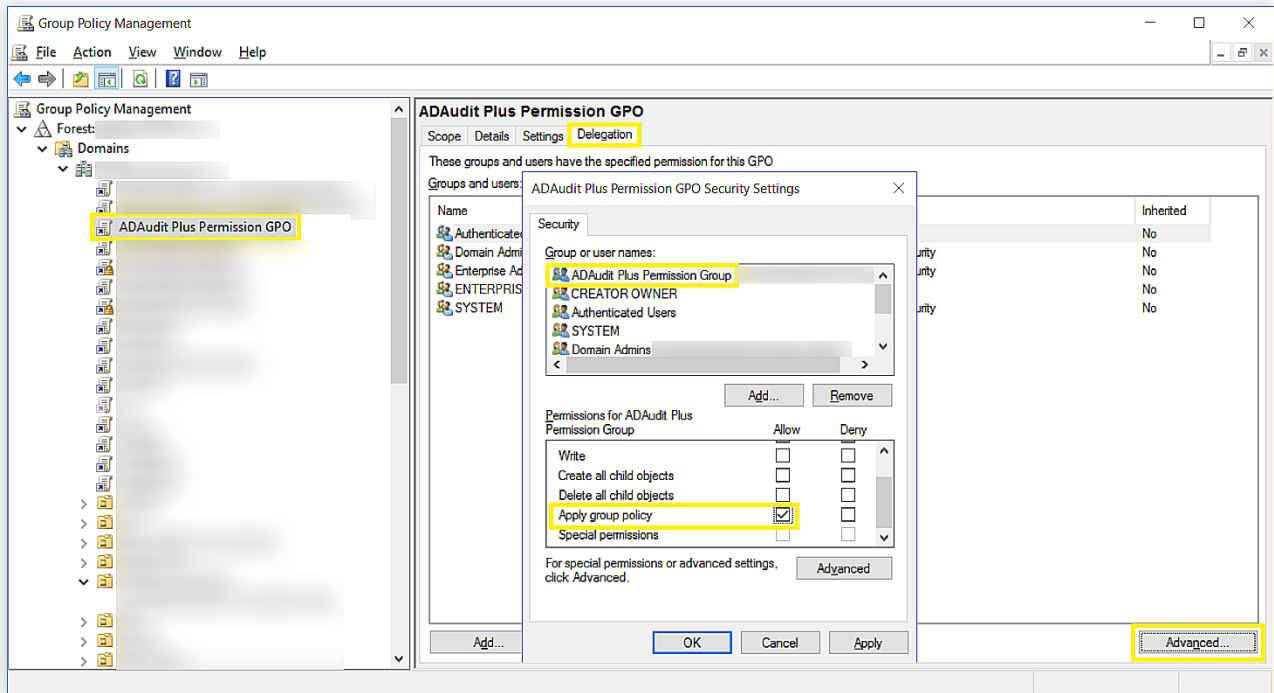
Open the Group Policy Management Console → Right click on your domain → Create a GPO in this domain and link it here → Name the GPO as "ADAudit Plus Permission GPO"

iii. Remove Apply group policy permission for Authenticated Users group:

Click on the "ADAudit Plus Permission GPO" → Navigate to the right panel, click on the Delegation tab → Advanced → Click on Authenticated Users → Remove the Apply group policy permission.

iv. Add the "ADAudit Plus Permission Group" to the security filter settings of the "ADAudit Plus Permission GPO":

Open the Group Policy Management Console → Domain → Select the "ADAudit Plus Permission GPO" → Navigate to the right panel, click on the Delegation tab → Advanced → Add "ADAudit Plus Permission Group" → Check Apply group policy.

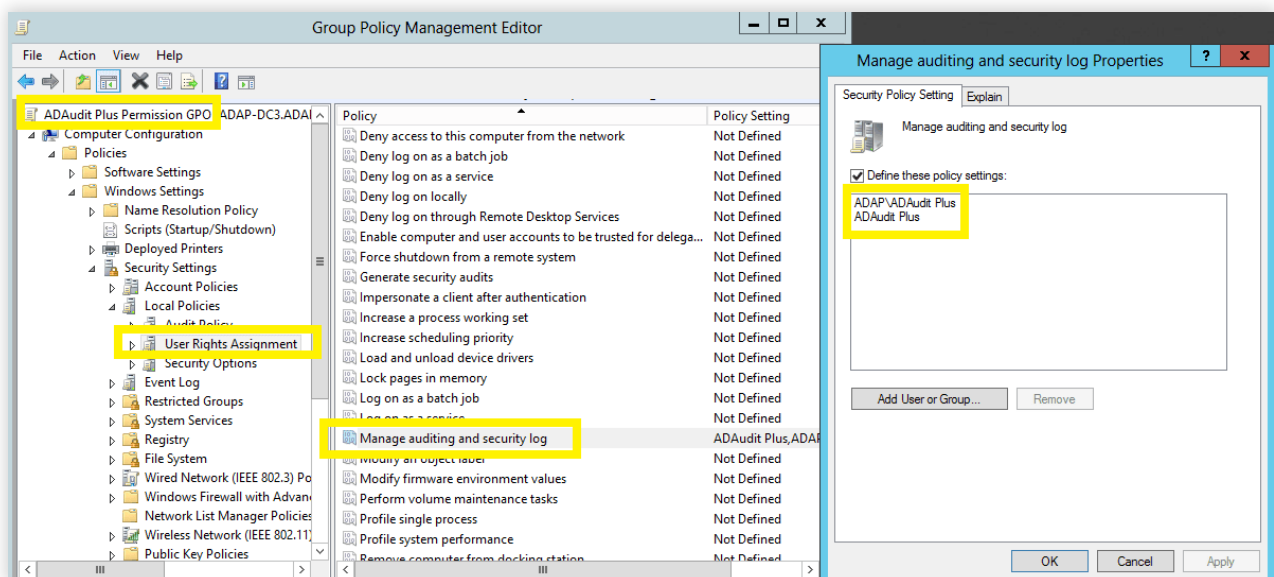


3.3 Privileges/permissions required for event log collection

1. Grant the user the Manage auditing and security log right

The Manage auditing and security log right allows the user to define object level auditing.

- i. Log in to your Domain Controller with Domain Admin privileges → Open the Group Policy Management Console → Right click on the "ADAudit Plus Permission GPO" → Edit.
- ii. In the Group Policy Management Editor → Computer Configuration → Policies → Windows Settings → Security Settings → Local Policies → User Rights Assignment.
- iii. Navigate to the right panel, right click on Manage auditing and security log → Properties → Add the "ADAudit Plus" user.

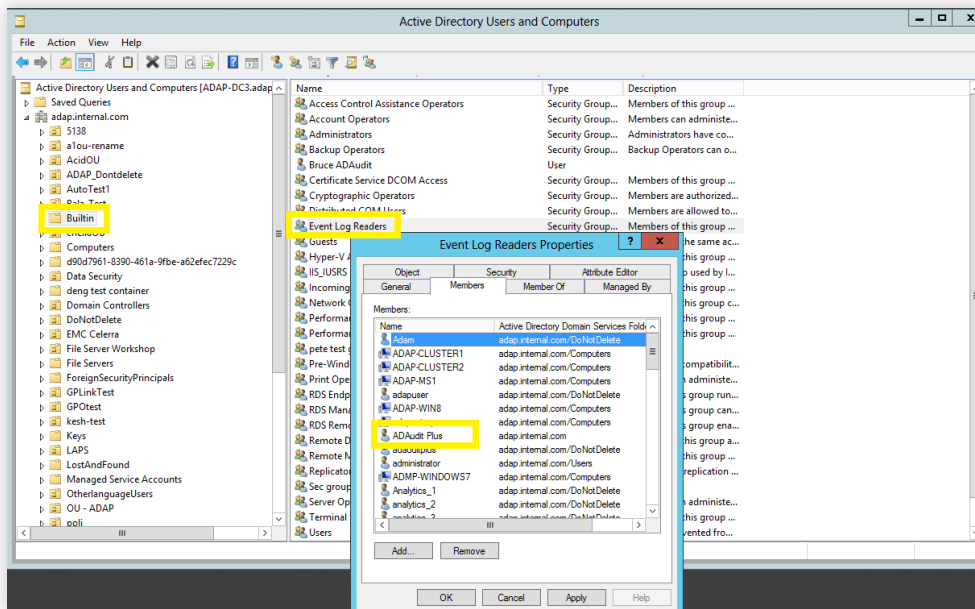


2. Make the user a member of the Event Log Readers group

Members of the event log readers group will be able to read the event logs of all the audited computers.

i. For Domain Controllers :

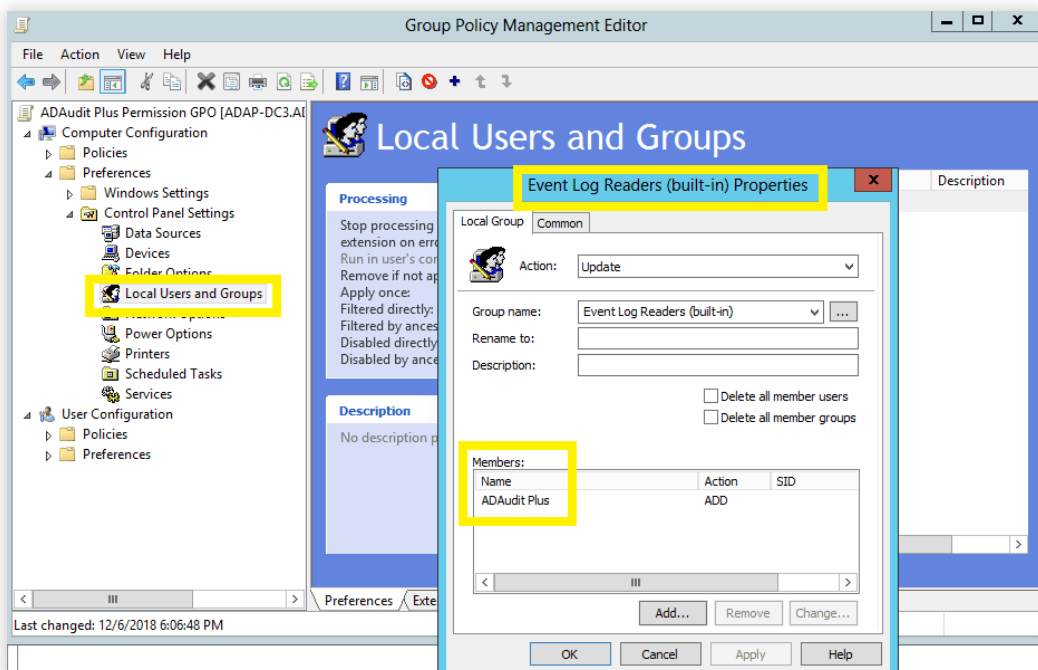
Log in to your Domain Controller with Domain Admin privileges → Open Active Directory Users and Computers → BuiltIn Container → Navigate to the right panel, right click on Event Log Readers → Properties → Members → Add the "ADAudit Plus" user.



ii. For other computers (Windows servers and workstations):

a. Log in to your Domain Controller with Domain Admin privileges → Open the Group Policy Management Console → Right click on the "ADAudit Plus Permission GPO" → Edit.

b. In the Group Policy Management Editor → Computer Configuration → Preferences → Control Panel Settings → Right click on Local Users and Groups → New → Local Group → Select Event Log Readers group under group name → Add the "ADAudit Plus" user.



Note: To read the event logs, you also need to grant the "ADAudit Plus" user Read permission over HKLM\SYSTEM\CurrentControlSet\Services\Eventlog\Security.

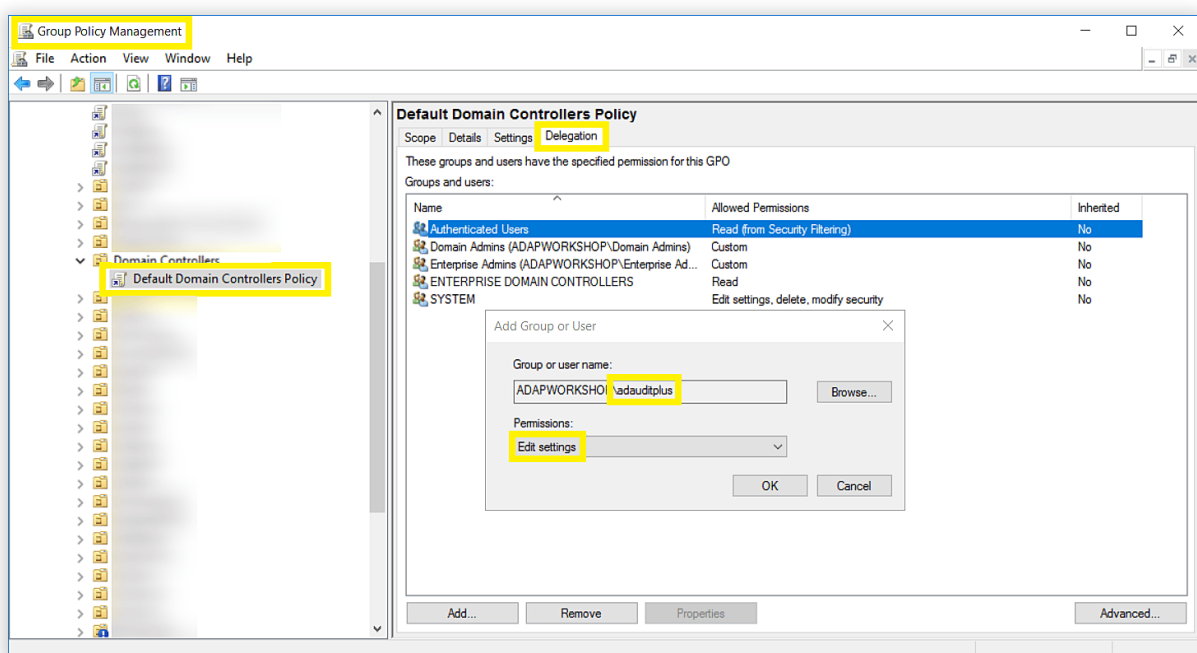
- i. Log in to your Domain Controller with Domain Admin privileges → Open the Group Policy Management Console → Right click on the "ADAudit Plus Permission GPO" → Edit.
- ii. In the Group Policy Management Editor → Computer Configuration → Policies → Windows Settings → Security Settings → Right-click Registry → Add Key.
- iii. In the Select Registry Key Window, navigate to MACHINE → SYSTEM → CurrentControlSet → Services → EventLog → Security → Click OK → Grant Read permission to "ADAudit Plus" user → Click Apply.
- iv. In the Add Object window, select Configure this key then → Replace existing permissions on all subkeys with inheritable permissions → Click OK.

3.4 Privileges/permissions required for automatic audit policy and object level auditing configuration

1. Privileges/permissions required for Domain Controller auditing configuration

Granting the service account the following privileges/permissions, allows ADAudit Plus to automatically configure the required audit policy and object level auditing settings in your environment. ADAudit Plus does this by pushing the required settings via GPO, to the group which contains all the monitored computers.

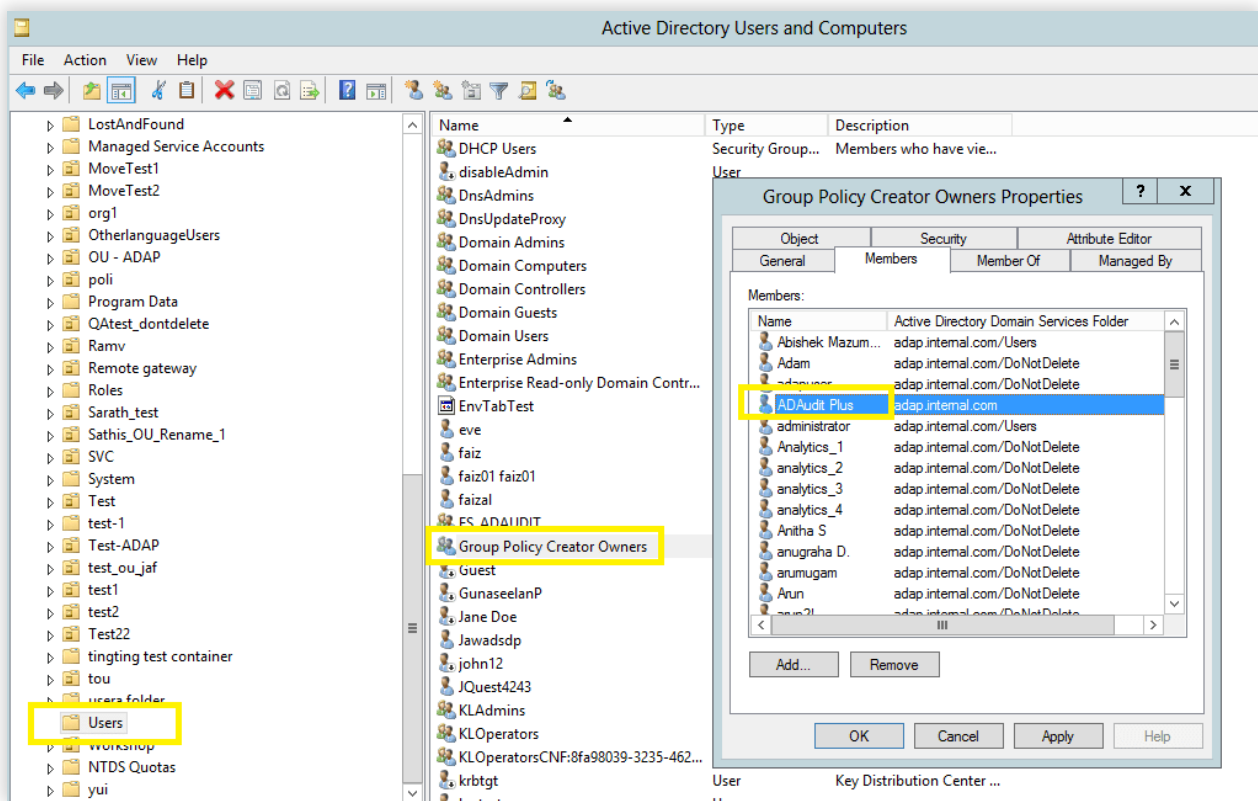
- i. Log in to your Domain Controller with Domain Admin privileges → Open the Group Policy Management Console → click on Default Domain Controllers Policy → Navigate to the right panel, click on the Delegation tab → Add the ADAudit Plus User → Provide permission to Edit settings.



2. Privileges/permissions required for member server, workstation, and file server auditing configuration

2.1 Make the user a member of the Group Policy Creator Owners group

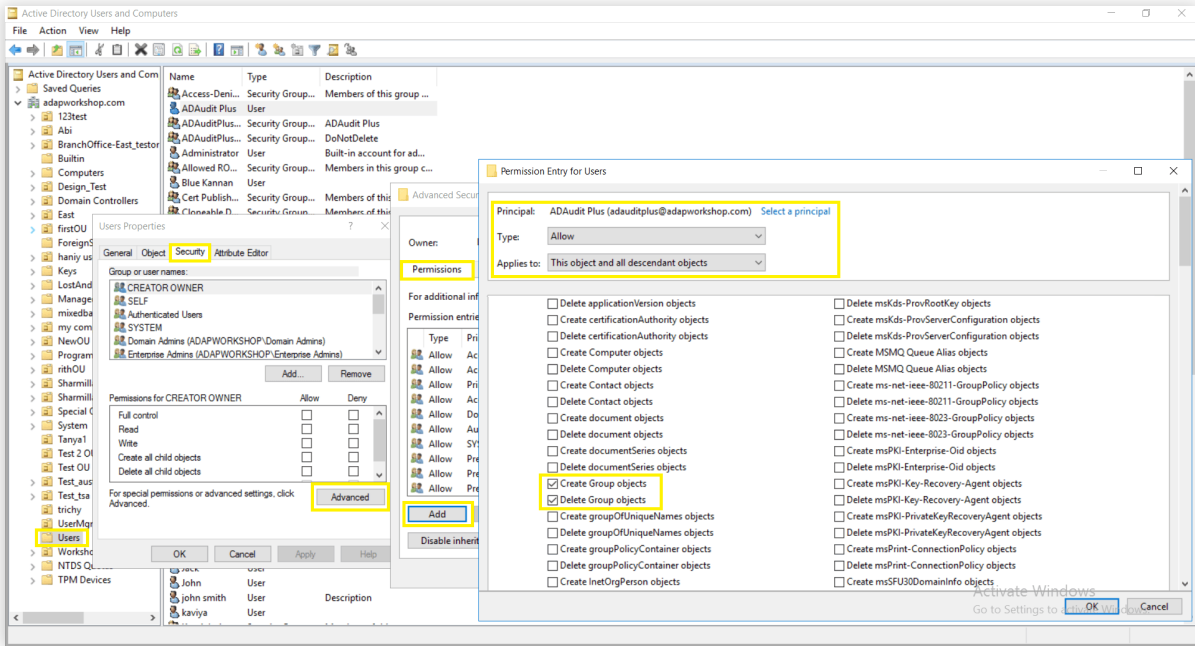
- i. Log in to your Domain Controller with Domain Admin privileges → Open Active Directory Users and Computers → Click on Users → Navigate to the right panel, right click on Group Policy Creator Owners group → Add the "ADAudit Plus" user as a member.



2.2 Grant the user, group management permissions

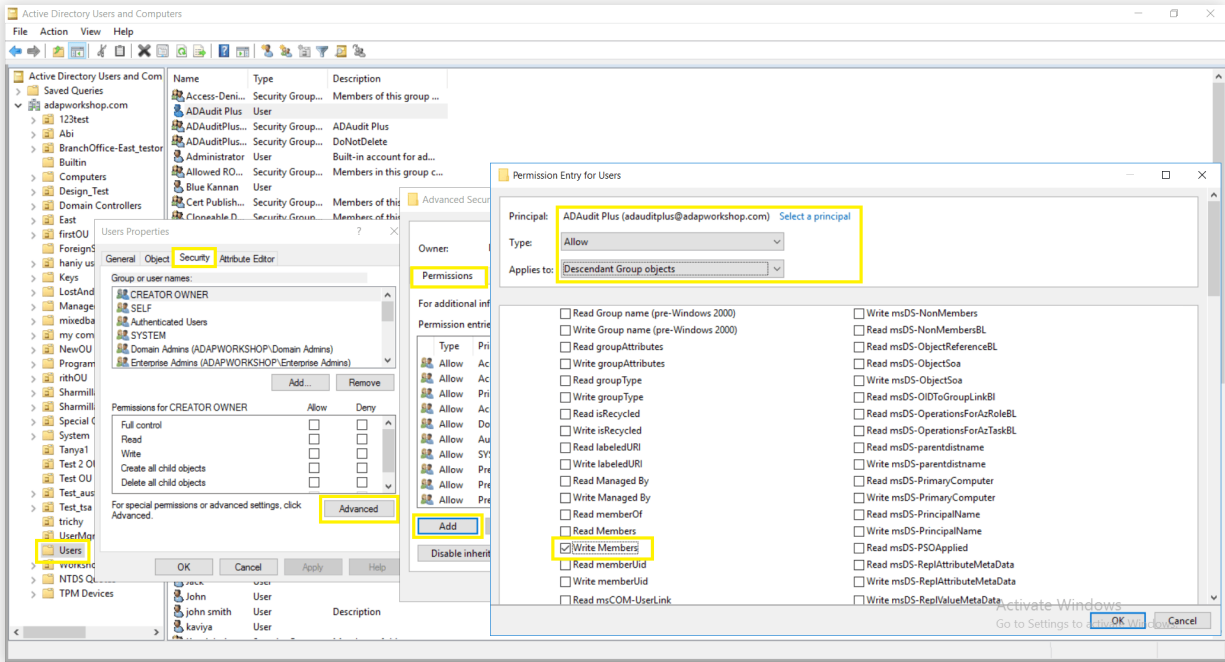
- i. Log in to your Domain Controller with Domain Admin privileges → Open Active Directory User and Computers.
Click on View and ensure that Advanced Features is enabled. This will display the advanced security settings for selected objects in Active Directory Users and Computers.
- ii. Right-click Users → Properties → Security → Advanced → Permissions → Add → In the Permissions Entry for Users window, Select a principal: ADAudit Plus user → Type: Allow → Applies to: This object and all descendant objects → Select permissions: Create Group objects and Delete Group objects.

Note: Use Clear all to remove all permissions and properties before selecting the mentioned permissions.



iii. From the Active Directory User and Computers console → Right-click Users → Properties → Security → Advanced → Permissions → Add → In the Permission Entry for Users window → Select a principal: ADAudit Plus user → Type: Allow → Applies to: Descendant Group objects → Select property: Write Members.

Note: Use Clear all to remove all permissions and properties before selecting the mentioned property.

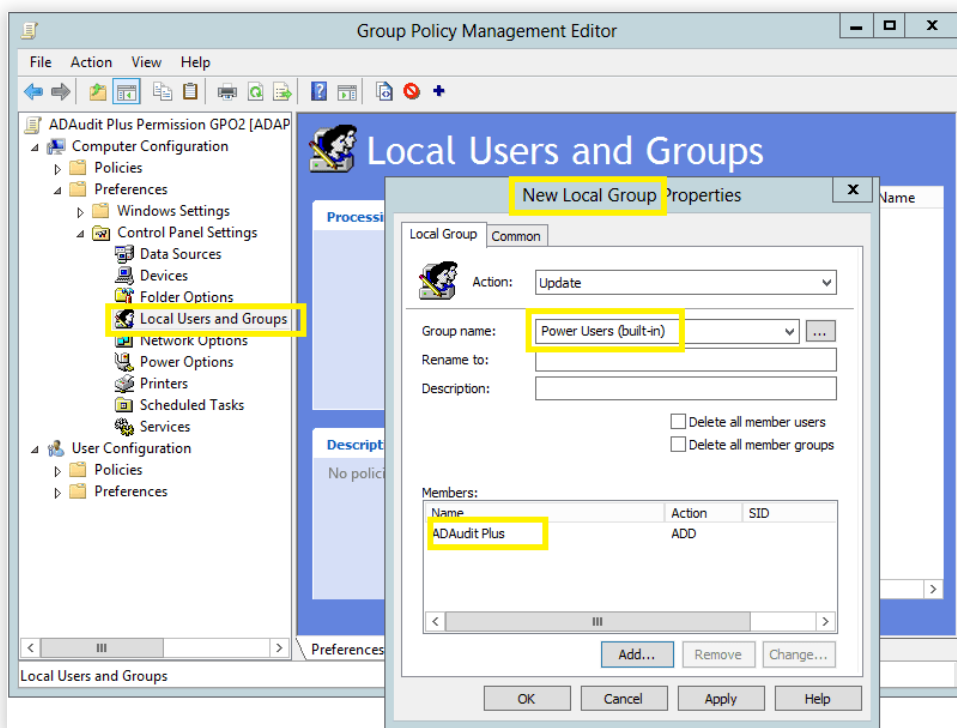


4. For file server auditing

4.1 Make the user a member of the Power Users group

Members of the Power Users group will be able to discover shares residing on Windows file servers.

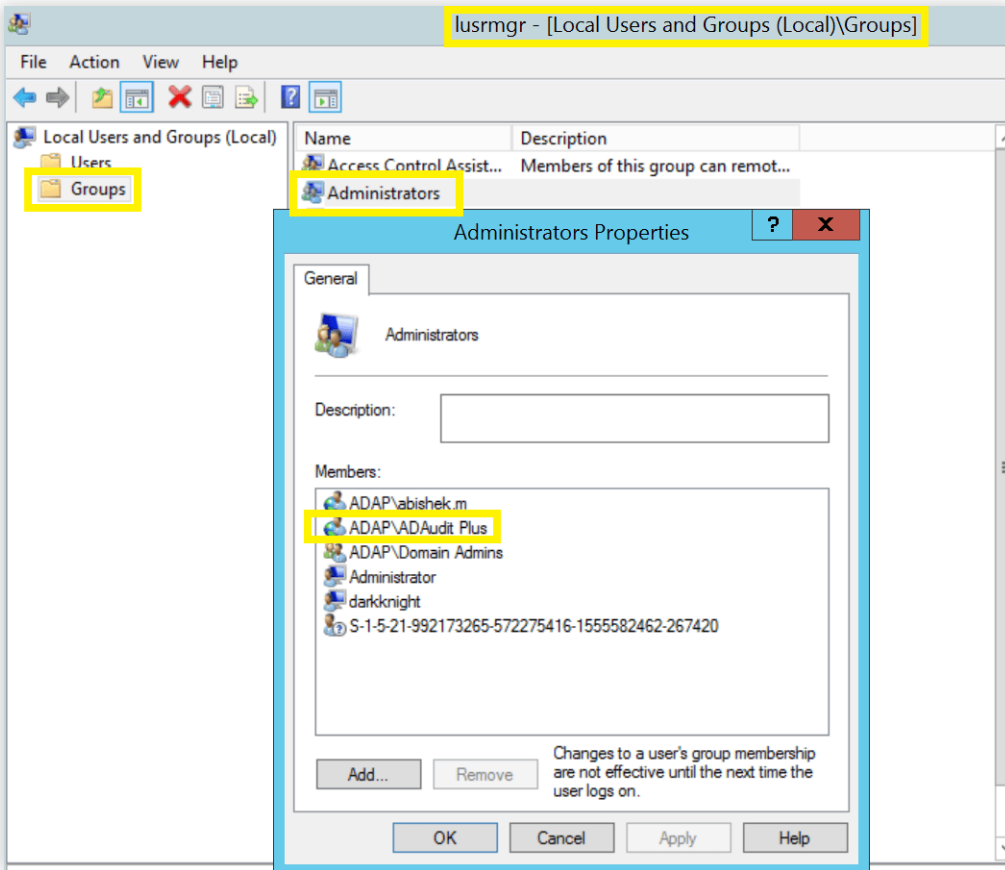
- i. Log in to your Domain Controller with Domain Admin privileges → Open the Group Policy Management Console → Right click on the "ADAudit Plus Permission GPO" → Edit.
- ii. In the Group Policy Management Editor → Computer Configuration → Preferences → Control Panel Settings → Right click on Local Users and Groups → Add Local Group.
- iii. In the New Local Group Properties wizard, select Update under Action → Select Power Users group under group name → Add the "ADAudit Plus" user.



4.2 Grant the user Read permission on all audited shares

There are two ways to grant the user Read permission on all the audited shares-

- i. Make the user a Member of the Local Administrators group.
 - a. Login to any computer with Domain Admin privileges → Open MMC console → File → Add/Remove Snap-in → Select Local Users and Groups → Add → Another computer → Add target computer
 - b. Select target computer → Open Local Users and Groups → Select Groups → Right click on administrators → Properties → Add "ADAudit Plus" user.
 - c. Repeat the above steps for every audited Windows file server/cluster.

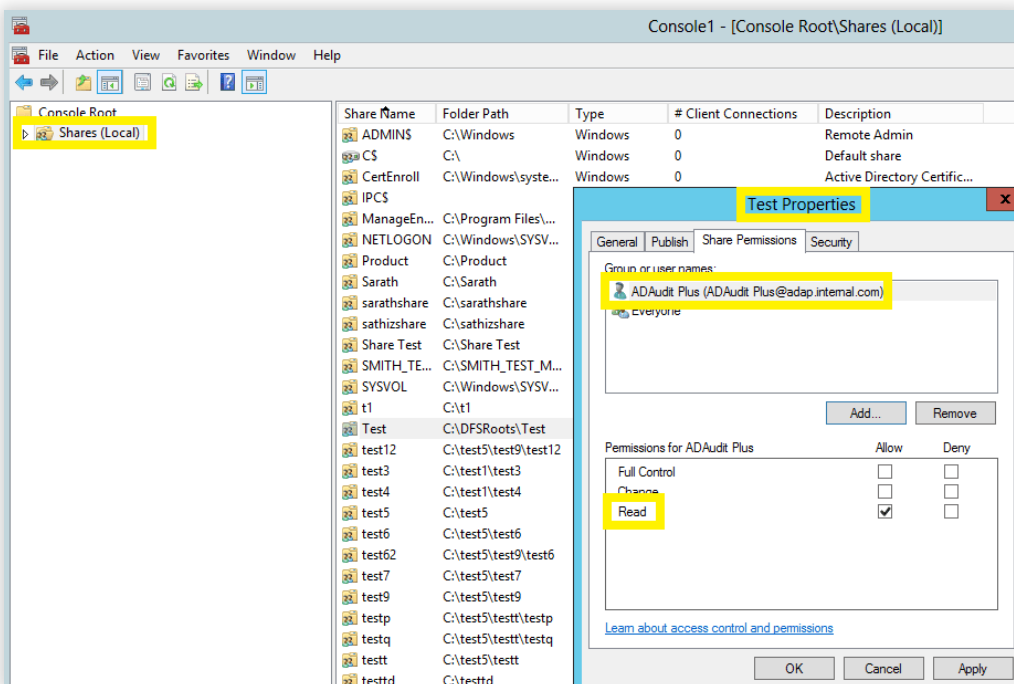


ii. Grant the user both Share and NTFS, Read permission on every audited share.

a. Login to any computer with Domain Admin privileges → Open MMC console → File → Add/Remove Snap-in → Select Shared Folders → Add → Another computer → Add target computer

b. Select target computer → Select share → Right click → Properties → Security → Edit → Add the "ADAudit Plus" user → Provide both Share and NTFS, Read permission.

c. Repeat the above steps for every audited share.



4.3 Grant the user DCOM and WMI permissions

Note: DCOM and WMI permissions are also needed for file cluster auditing.

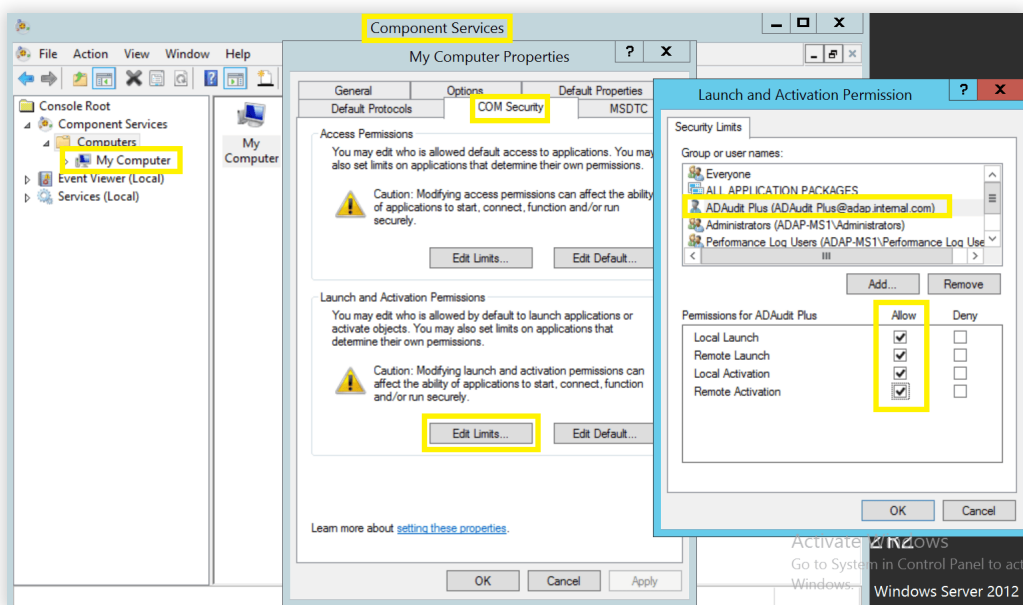
i. Granting DCOM permission:

a. Log in to any computer with Domain Admin privileges → Open Component Services → Connect to target computer → Right click on target computer → Properties → COM Security.

b. Navigate to Launch and Activation Permissions → Edit Limits → Security Limits → Add the "ADAudit Plus" user and grant the following permissions:

- Local Launch
- Remote Launch
- Local Activation
- Remote Activation.

c. Repeat the steps for every audited computer.



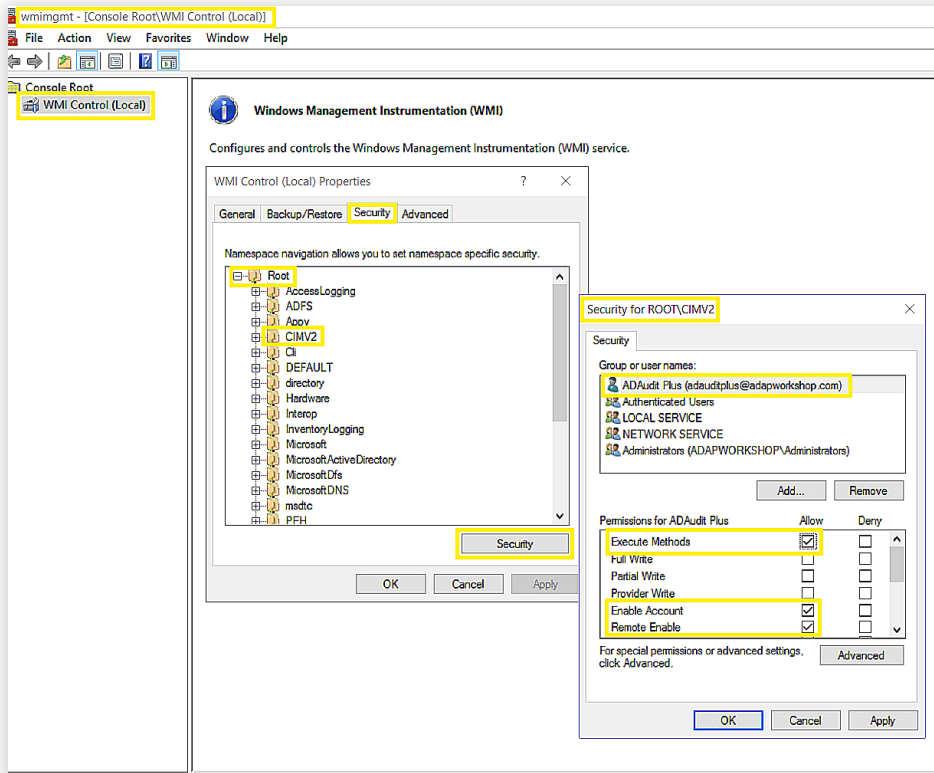
ii. Granting WMI permission:

a. Log in to any computer with Domain Admin privileges → Run wmicmgmt.msc → Right click on WMI Control (Local) → Connect to target computer.

b. Right click on WMI Control (target computer) → Properties → Security → +Root → CIMV2 → Security → Add the "ADAudit Plus" user and grant the following permissions:

- Execute Methods
- Enable Account
- Remote Enable

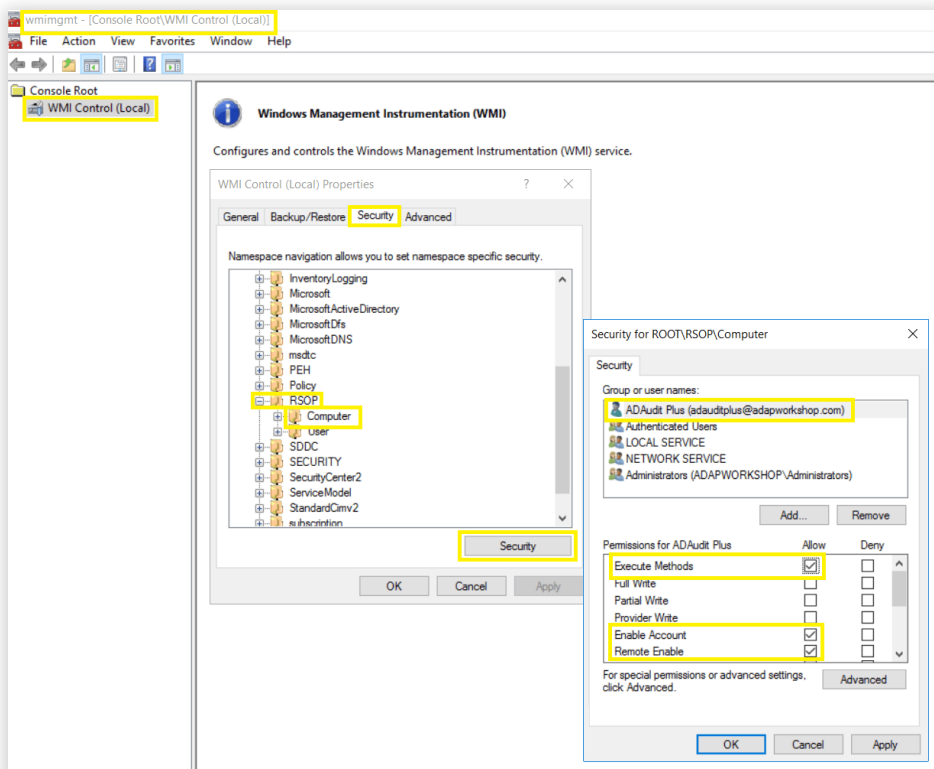
c. Click OK.



d. Navigate to +Root → +RSOP → Computer → Security → Add the "ADAudit Plus" user and grant the following permissions:

- Execute Methods
- Enable Account
- Remote Enable

e. Click OK.



f. Repeat the steps for every audited computer.

Note: If multiple computers are audited, you may prefer automating the above process by running a script through Group Policy. Please contact support@adauditplus.com for more details.

4.4 Grant the user read permission over the c\$ share

Note: Read permission over C\$ share (\\server_name\C\$) is needed to access NetApp C-Mode log files.

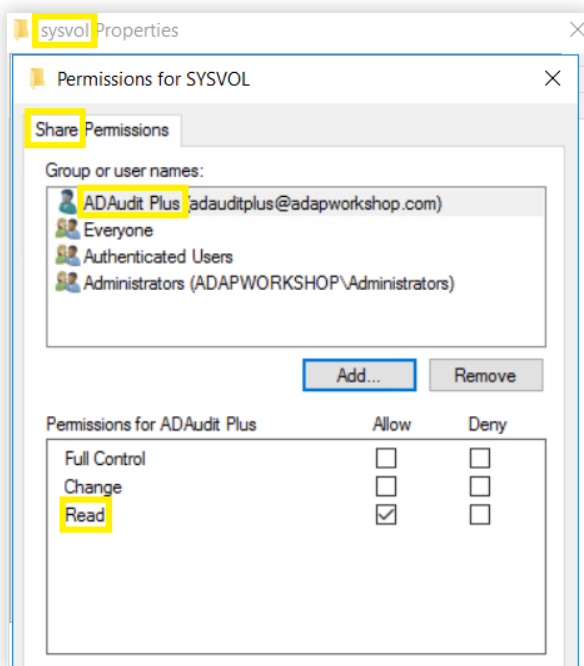
5. Other privileges

i. Grant the user Read permission over the SYSVOL folder:

Read permission over the SYSVOL folder is needed for GPO Settings change auditing.

Note: By default, all Authenticated Users have read permission over the sysvol folder, if the "ADAudit Plus" user does not, the Read permission has to be provided by following the steps listed below.

Navigate to the sysvol folder (C:\Windows\SYSVOL\sysvol) → Right click → Properties → Sharing → Advanced sharing → Permissions → Add the "ADAudit Plus" user → Provide Share Read permission.



ii. Grant the user Full control over the product installation folder:

Full control over the product installation folder is needed for ADAudit Plus to write in the database.

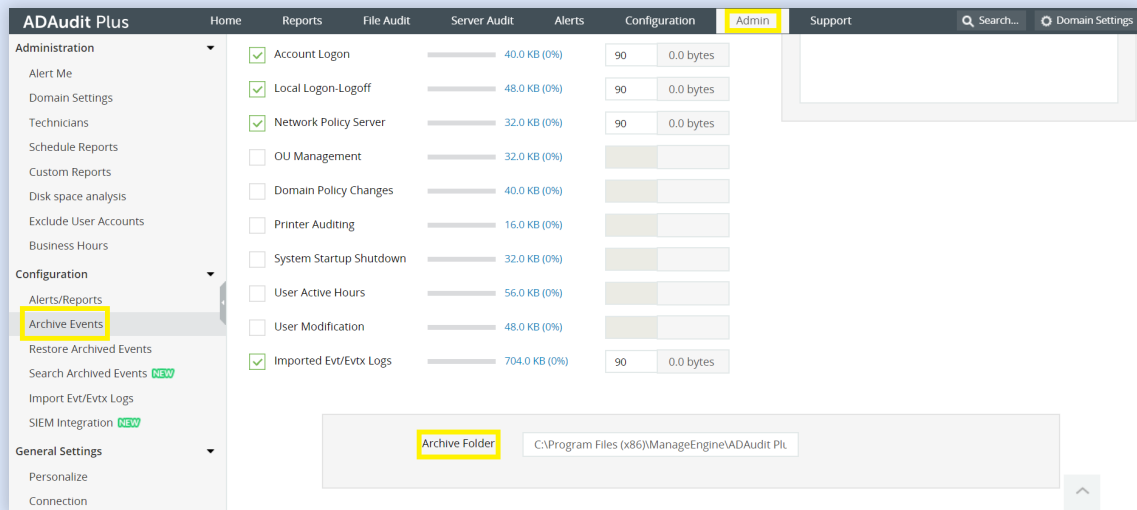
a. Log in to the computer where ADAudit Plus is installed with Domain Admin privileges → Locate the product installation folder → Right click → Properties → Security → Edit → Add the "ADAudit Plus" user and provide full control.

iii. Grant the user Full control over ADAudit Plus' archive folder:

Full control over the archive folder is needed for storing and retrieving archived data from the database.

Note: By default, the Archive folder is stored in the installation folder (Installation_folder\ManageEngine\ADAudit Plus\archive). If the Archive folder is saved elsewhere, Full control permissions needs to be provided by following the steps listed below.

a. To find out the location of the Archive Folder: Open ADAudit Plus → Admin → Archive Events → Scroll down to see the location.



b. Log in to target computer with Domain Admin privileges → Locate the folder → Right click on the folder → Properties → Security → Edit → Add the ADAudit Plus User → Provide NTFS Full control permission.

c. If the archive folder is a shared folder, go to the Sharing tab → Advanced Sharing... → Permissions → Add the ADAudit Plus User → Provide Full control permission.

iv. Grant the user Full control over all ADAudit Plus Scheduled Reports folders:

Full control over a Scheduled Reports folder is needed for saving the scheduled report in the specified location.

ii. Grant the user Full control over the product installation folder:

Full control over the product installation folder is needed for ADAudit Plus to write in the database.

a. Log in to the computer where ADAudit Plus is installed with Domain Admin privileges → Locate the product installation folder → Right click → Properties → Security → Edit → Add the "ADAudit Plus" user and provide full control.

iii. Grant the user Full control over ADAudit Plus' archive folder:

Full control over the archive folder is needed for storing and retrieving archived data from the database.

Note: By default, the Schedule Reports folder is stored in the installation folder (Installation_folder\ManageEngine\ADAudit Plus). If the Schedule Reports folder is saved elsewhere, NTFS Full control permission needs to be provided by following the steps listed below.

a. To find out the location of a Scheduled Reports Folder: Open ADAudit Plus → Admin → Schedule Reports → Modify Schedule Report → Scroll down to see the location.

b. Log in to target computer with Domain Admin privileges → Locate the folder → Right click on folder → Properties → Security → Edit → Add the ADAudit Plus User → Provide NTFS Full control permission.

c. Repeat the steps on all Schedule Reports folders.

v. Grant the user Read and Execute permission over all ADAudit Plus' Alert Script folders:

Read and Execute permissions on a alert script folder is needed for executing script files once an alert gets triggered.

Note: By default, the Alert Scripts folder is stored in the installation folder (Installation_folder\ManageEngine\ADAudit Plus). If the Alerts Script folder is saved elsewhere, NTFS Read and Execute permission needs to be provided by following the steps listed below.

a. To find out the location of a Folder: Open ADAudit Plus → Configuration → Modify Alert Profile → Scroll down to see the location.

b. Log in to target computer with Domain Admin privileges → Locate the folder → Right click on folder → Properties → Security → Edit → Add the ADAudit Plus User → Provide NTFS Read and Execute permissions.

c. Repeat the steps on all Alert Script folders.

vi. Grant the user DCOM and WMI permissions:

DCOM and WMI permissions are needed for WMI mode of event collection and for RSoP data to be shown for Domain Controllers, Windows member servers and workstations.

a. To grant the user DCOM and WMI permissions, [follow these steps](#).

ManageEngine ADAudit Plus

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About ADAudit Plus

ADAudit Plus is a unified auditing solution that provides full visibility into activities across Active Directory (AD), Entra ID, file servers (Windows, NetApp, EMC and more), Windows servers and workstations—all in just a few clicks. ADAudit Plus helps organizations streamline auditing, demonstrate compliance and enhance their identity threat detection and response with capabilities like real-time change auditing, user logon tracking, account lockout analysis, privileged user monitoring, file auditing, compliance reporting, attack surface analysis (for AD, Azure, AWS, and GCP), UBA, response automation and AD backup and recovery.

For more information about ADAudit Plus, visit www.manageengine.com/products/active-directory-audit/.

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