Installation Guide

Advanced Authentication - Logon Filter

Version 6.0

NetIQ

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Contents

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Adapting to change and managing complexity and risk are nothing new

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About this Book

The Logon Filter Installation Guide has been designed for domain administrators and describes the system requirements and the installation procedure for Logon Filter.

Intended Audience

This book provides information for individuals responsible for understanding administration concepts and implementing a secure, distributed administration model.

About Logon Filter

Logon Filter is a component that you must install on the Domain Controllers. Logon Filter allows you to automatically update group membership if you login with the Advanced Authentication Windows Client. You can use the Logon Filter to prevent users to login without the Advanced Authentication Windows Client. You can also use it to delegate specific permissions when user uses a specific chain.

Password Filter is a feature that automatically updates the password for the appliance whenever the password is changed or reset in the Active Directory.

1 System Requirements

IMPORTANT: To install and remove the Logon Filter, you must have the domain administrator privileges.

Ensure that the following requirements are met:

- Domain controllers based on Microsoft Windows Server 2008 R2/ Microsoft Windows Server 2012 R2/Microsoft Windows Server 2016 are installed.

2 Installing and Removing Logon Filter

This chapter contains the following sections:

Installing Logon Filter

NOTE: You must install the Logon Filter on all the domain controllers in the domain.

You can find the Logon Filter in the Advanced Authentication Enterprise Edition or Remote Access Edition distributive package.

To install Logon Filter through the Setup Wizard, perform the following steps:

1. Run the `NAAF-logonfilter-x64-<version>.msi` file.
2. Click **Next**.
3. Read and accept the **License Agreement**.
4. Click **Next** or click **Browse** to choose another folder.
   - To change the destination folder, click **Change** and select an applicable destination.
   - To continue, click **Next**.
5. Click **Install**.
6. Click **Finish**.
7. Click **Yes** to restart the operating system.

NOTE: Before you install the Logon Filter, if you have enabled Multitenancy you must specify a tenant name. This is required because an endpoint can be created in a wrong tenant. For more information on configuring the Multitenancy setting, see "Configuration Settings for Multitenancy" in the *Advanced Authentication - Windows Client* guide.

Uninstalling Logon Filter

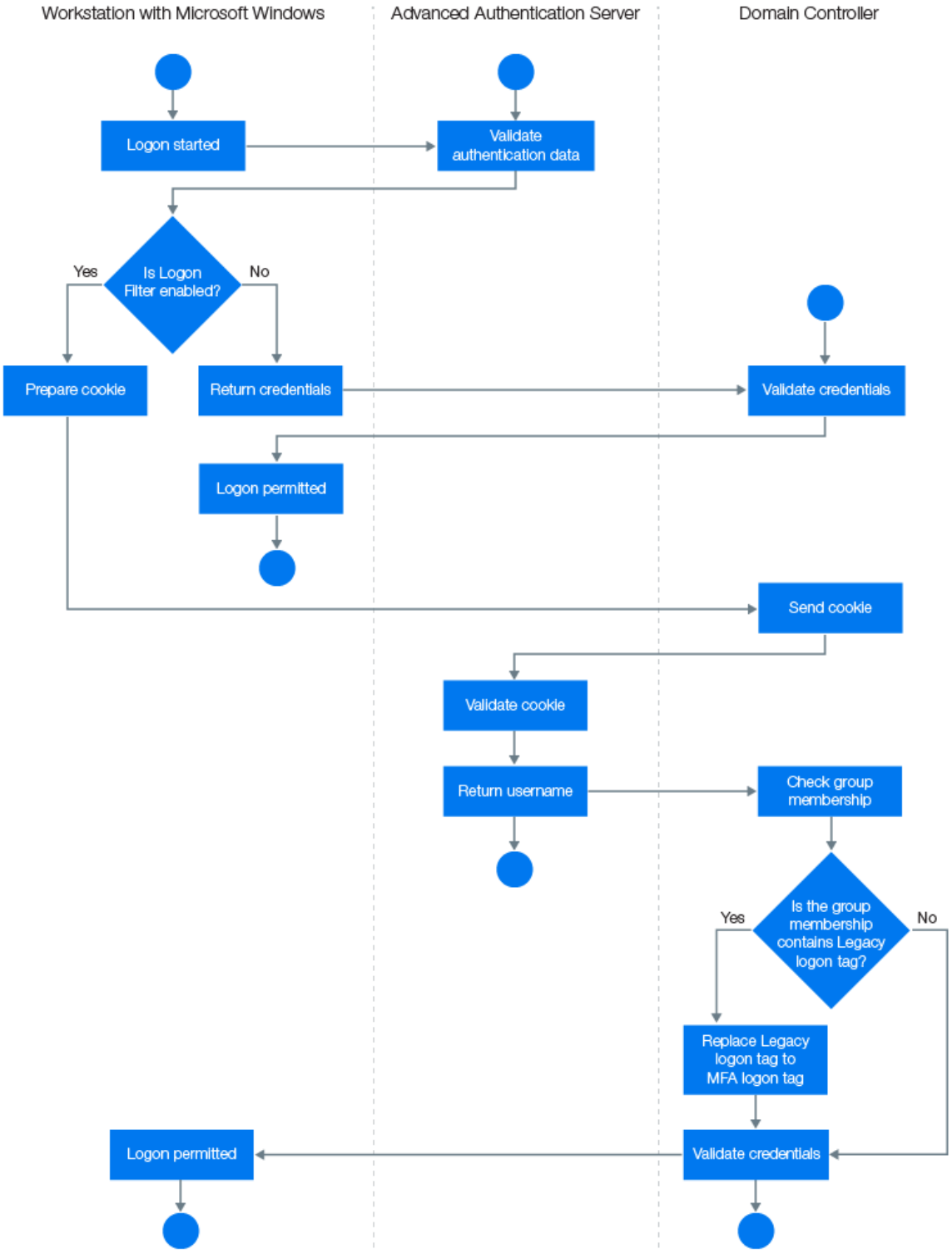
To remove Logon Filter through the Setup Wizard, perform the following steps:

1. Right-click **Start** and select **Control Panel** > **Programs** > **Programs and Features.**
2. Select **NetIQ Logon Filter** and click **Uninstall.**
3. Confirm the removal.
4. Open the Advanced Authentication Administration portal and goto to **Endpoints**. Find and remove an endpoint for the Logon Filter instance that you have uninstalled.

3 Configuring Logon Filter

Logon Filter is a component that you must install on the Domain Controllers. It allows to automatically update group membership if you login with Advanced Authentication Windows Client. The Logon Filter can be used to forbid logon of users without the Advanced Authentication Windows Client or to delegate specific permissions when user uses a specific chain.

The following diagram illustrates the architecture of the Logon Filter.



Perform the following steps to configure the Logon Filter:

1. Install the Advanced Authentication Logon Filter component on all the Domain Controllers.
2. Enable Logon Filter through the Advanced Authentication Administration portal **Policies** > **Logon filter for AD**.
3. Create the following two groups in Active Directory:
   - **Legacy logon:** Add all users to the group (you can add the **Domain Users** group to its members).
   - **MFA logon:** This group must be an empty group.

   You can use any names for the groups.
4. In the Advanced Authentication Administration portal Repositories section, specify a used **Active Directory repository**.
5. Expand the **Advanced settings**.
6. Point Legacy logon tag to the Legacy logon group and MFA logon tag to the MFA logon group.

   NOTE: Legacy logon tag must point to a group in the Active Directory that must include all the users. It should be a custom group. The built-in groups like Domain Users are not supported. The users can be members of the group directly or you can add another custom group with users to the group. MFA logon tag should point to an empty group in Active Directory.

   When a user logs in to Windows and the Logon Filter is enabled, Advanced Authentication Windows Client prepares a cookie, which is sent to the Domain Controller, and then is validated on the Advanced Authentication server. After the validation, Advanced Authentication server returns a username to the Domain Controller that verifies the group membership. If the group membership contains Legacy logon tag, the group is replaced with an MFA logon tag.
7. You can configure MFA tags per chain. To do this, specify the MFA tags in the **Advanced settings** of the chain settings. For example, if you specify a **Card users** group from Active Directory in MFA tags for **LDAP Password+Card chain**, then the users who use the chain will be moved from the **Legacy logon** group to the **Card users** group.
8. Specify a **Password** in the **Repository** settings.
9. Click **Save.**
10. Ensure that Advanced Authentication Windows Client is installed on all the required workstations.

NOTE: During logon, a user with the NetIQ Windows Client installed will be automatically moved from a group pointed to the Legacy logon tag to a group pointed to the MFA logon tag.

The MFA tag does not work while connecting to Remote Desktop, if the user credentials were saved with **Remember my credentials**.

If you want to prevent users to login on all the workstations that do not have the Advanced Authentication Windows Client installed, configure the Microsoft policy **Allow log on locally** in the default **Domain Policy** or a custom GPO. This allows logon for only MFA logon group. The following procedure helps you to achieve this:

1. On a Domain Controller, open **Group Policy Management** Editor by entering `gpmc.msc` in the search box.
2. Double-click the name of the forest, double-click Domains, and then double-click the name of the domain in which you want to join a group.
3. Right-click **Default Domain Policy,** and then click **Edit.**

4 In the console tree, expand and navigate to **Computer Configuration** > **Policies** > **Windows Settings** >**Security Settings** > **Local Policies** > **User Rights Assignment.**

5 In the right pane, double-click **Allow Log on Locally.**

6 Click **Add User** or **Group.**

7 Specify a group which is pointed in the MFA logon tag.

8 Click **OK.**

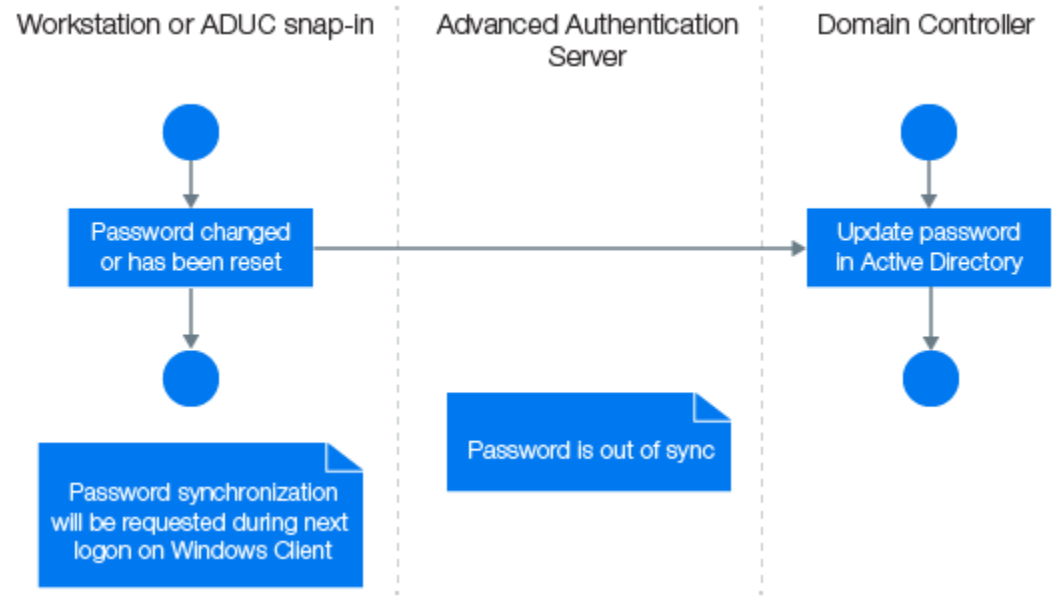
9 Click **OK** in the **Allow log on locally Properties** dialog box.

4 Configuring Password Filter

Password Filter automatically updates the LDAP Password stored inside Advanced Authentication, whenever the password is changed or reset in the Active Directory. This helps you to authenticate without getting any prompt to synchronize the password after it is changed or reset.

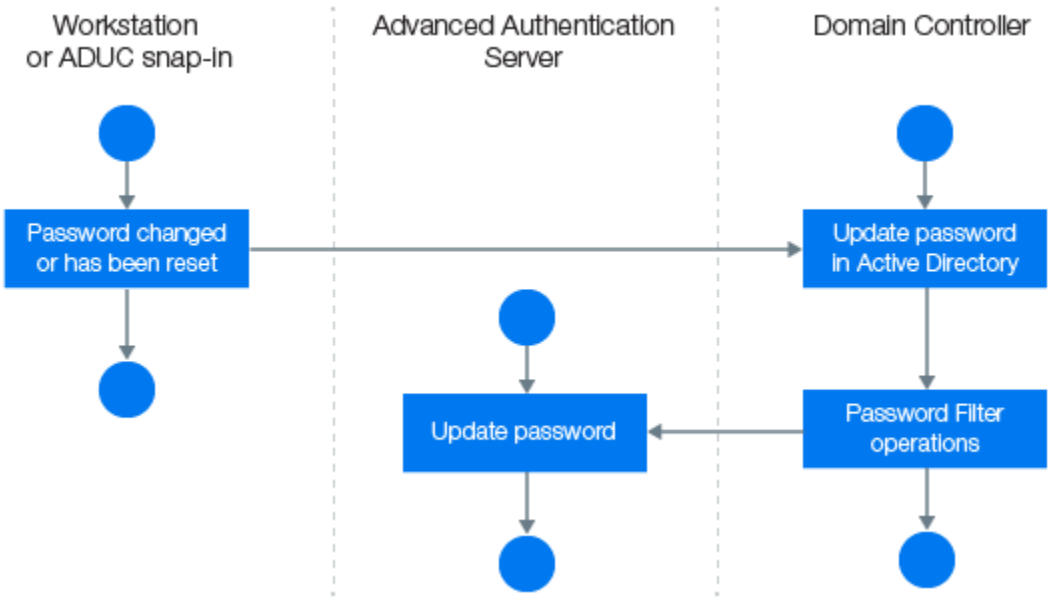
The Figure 4-1 illustrates the situation when you do not use the Password Filter.

Figure 4-1



The Figure 4-2 illustrates the situation when you use the Password Filter.

Figure 4-2



Perform the following steps to configure the Password Filter:

1. Install the Advanced Authentication Logon Filter component on all Domain Controllers.
2. Open Advanced Authentication Administrative portal.
3. Goto to **Endpoints**.
4. Edit endpoints for all the Domain Controllers one-by-one and set **Is trusted** option to **ON.** Add a Description to save the changes.
5. Enable Password Filter for AD through the Advanced Authentication Administrative Portal **Policies** > **Password Filter for AD.**
6. Set **Update password on change** to **ON**, to enable updating of the LDAP password in Advanced Authentication, when the password is changed in the Active Directory. This helps you to authenticate without getting any prompt to sync the password after it is changed. If **Update password on change** is set to **OFF**, user will get a request to synchronize the password while logging in to Windows, if the user has changed the password where the user will need to enter an actual password.
7. Set **Update password on reset** option to **ON**, to enable automatic update of the LDAP password in Advanced Authentication, when it is reset in the Active Directory. This helps you to authenticate without getting any prompt to sync the password if it is reset. If **Update password on reset** is set to **OFF**, user will get a request to synchronize the password while logging in to Windows, if the administrator has reset the user's password where the user will need to enter an actual password.

NOTE: Endpoint for Password Filter should be trusted. To set this option, open the Advanced Authentication Administrative Portal > **Endpoints**, edit an endpoint of the Password Filter, set **Is trusted** flag to **ON**. Save the changes.

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5 Troubleshooting

This chapter provides information about troubleshooting the Logon Filter.

Incorrect Username Saved By Remote Desktop Connection

When the Logon Filter is enabled and if a user selects **Remember my credentials** while connecting to a terminal server with the Remote Desktop Connection, a wrong username is saved. When the user tries to login the next time, the wrong username is prompted. This issue happens when the **Logon Filter for AD** policy is enabled in the Administration portal.

Workaround: Do not select the option **Remember my credentials** while connecting to Remote Desktop.