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About NetIQ Corporation

We are a global, enterprise software company, with a focus on the three persistent challenges in your environment: Change, complexity and risk—and how we can help you control them.

Our Viewpoint

Adapting to change and managing complexity and risk are nothing new
In fact, of all the challenges you face, these are perhaps the most prominent variables that deny you the control you need to securely measure, monitor, and manage your physical, virtual, and cloud computing environments.

Enabling critical business services, better and faster
We believe that providing as much control as possible to IT organizations is the only way to enable timelier and cost effective delivery of services. Persistent pressures like change and complexity will only continue to increase as organizations continue to change and the technologies needed to manage them become inherently more complex.

Our Philosophy

Selling intelligent solutions, not just software
In order to provide reliable control, we first make sure we understand the real-world scenarios in which IT organizations like yours operate—day in and day out. That's the only way we can develop practical, intelligent IT solutions that successfully yield proven, measurable results. And that's so much more rewarding than simply selling software.

Driving your success is our passion
We place your success at the heart of how we do business. From product inception to deployment, we understand that you need IT solutions that work well and integrate seamlessly with your existing investments; you need ongoing support and training post-deployment; and you need someone that is truly easy to work with—for a change. Ultimately, when you succeed, we all succeed.

Our Solutions

- Identity & Access Governance
- Access Management
- Security Management
- Systems & Application Management
- Workload Management
- Service Management
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For questions about products, pricing, and capabilities, contact your local partner. If you cannot contact your partner, contact our Sales Support team.

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Contacting Documentation Support

Our goal is to provide documentation that meets your needs. The documentation for this product is available on the NetIQ Web site in HTML and PDF formats on a page that does not require you to log in. If you have suggestions for documentation improvements, click Add Comment at the bottom of any page in the HTML version of the documentation posted at www.netiq.com/documentation. You can also email Documentation-Feedback@netiq.com. We value your input and look forward to hearing from you.

Contacting the Online User Community

NetIQ Communities, the NetIQ online community, is a collaborative network connecting you to your peers and NetIQ experts. By providing more immediate information, useful links to helpful resources, and access to NetIQ experts, NetIQ Communities helps ensure you are mastering the knowledge you need to realize the full potential of IT investments upon which you rely. For more information, visit community.netiq.com.
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
- Uninstalling Logon Filter

2.1 Installing Logon Filter

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


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.

2.2 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.
Advanced Authentication - Logon Filter
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.

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.
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.
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.
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. Go 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.
This chapter provides information about troubleshooting the Logon Filter.

- Section 5.1, “Incorrect Username Saved By Remote Desktop Connection,” on page 19

5.1 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.