# Contents

About this Book  5  
About NetIQ Corporation  7  

## 1 System Requirements  9  

## 2 Configuring the Preliminary Settings  11  
- Modifying Identity for an Application Pool  11  
- Enabling Windows Authentication for RDWeb  11  
- Enabling Windows Authentication for Outlook Web Access  12  
- Configuring the Advanced Authentication Server  12  

## 3 Installing and Uninstalling the IIS Authentication Plug-in  13  
- Installing the IIS Authentication Plug-in  13  
- Uninstalling the IIS Authentication Plug-in  13  
  - Using the Setup Wizard  13  
  - Using Control Panel  13  

## 4 Configuring the IIS Authentication Plug-in  15  

## 5 Troubleshooting  17  
- Debugging Logs  17  
- Using Diagnostic Tool  17  
- Manual  18
About this Book

The IIS Authentication Plug-in guide provides information about system requirements and how to install and configure the IIS Authentication plug-in on Windows.

Intended Audience

This guide is intended for the Advanced Authentication domain administrators.

About IIS Authentication Plug-in

The Advanced Authentication IIS Authentication plug-in facilitates you to configure multi-factor authentication for the websites that are hosted and managed on the Microsoft IIS server. So the users who want to access the websites must perform multi-factor authentication on the IIS server.

For example, Bob, who is an end-user wants to access his mails on the Outlook Web Access (OWA) or the shared applications through Remote Desktop Web (RDWeb) that are hosted on the IIS server. He must perform multi-factor authentication using the IIS Authentication plug-in and get a secured access to OWA or RDWeb.
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
Contacting Sales Support

For questions about products, pricing, and capabilities, contact your local partner. If you cannot contact your partner, contact our Sales Support team.

Worldwide:  www.netiq.com/about_netiq/officelocations.asp
United States and Canada:  1-888-323-6768
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For specific product issues, contact our Technical Support team.

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Email:  support@netiq.com
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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.
System Requirements

Ensure that the following softwares are installed:

- Microsoft Windows Server 2012 R2 or Microsoft Windows Server 2016
- Microsoft IIS Manager
- Microsoft .NET Framework 4.5

You must have the administrator privileges to install and uninstall the IIS Authentication plug-in.
2 Configuring the Preliminary Settings

You must complete the following tasks before using the IIS Authentication plug-in for multi-factor authentication on the Microsoft Internet Information Services (IIS) server:

- Change identity for an application pool, see Modifying Identity for an Application Pool.
- Configure Windows authentication for RDWeb, see Enabling Windows Authentication for RDWeb.
- Configure Windows authentication for OWA, see Enabling Windows Authentication for Outlook Web Access.
- Create an OAuth 2.0 event, see Configuring the Advanced Authentication Server.

Modifying Identity for an Application Pool

Perform the following steps to change the identity for any application that is running on IIS server to make the application secure and reliable:

1. Open the IIS Manager Console.
2. Click Application Pools.
3. Select a preferred application pool from the list. For example, RDWeb Access.
4. Click Advanced Settings from the Actions menu on the right pane.
5. Set Identity to LocalSystem in Process Model.
6. Click OK.
7. Restart the IIS server.

Enabling Windows Authentication for RDWeb

Windows authentication is required for the IIS Authentication plug-in to send the encrypted password in a cryptographic exchange to the web server. To enable Windows authentication for RDWeb, perform the following steps:

1. Navigate to C:\Windows\Web\RDWeb\Pages and open the web.config file on Remote Desktop Web Access server.
2. Follow the instructions in the comment that begins with To turn on Windows Authentication and make relevant changes.
3. Save the changes.
Enabling Windows Authentication for Outlook Web Access


Configuring the Advanced Authentication Server

Before configuring the IIS Authentication plug-in, you must create an OAuth 2.0 event to enable the multi-factor authentication for the websites that are hosted on the Microsoft IIS server.

To obtain the Client ID and Client secret to configure the IIS Authentication plug-in, perform the following steps:

1. Log in to the Advanced Authentication Administration portal.
2. Create a chain with the preferred authentication methods.
3. Create an OAuth 2.0 event and assign the preferred chain from the Available list to the event.
   Make a note of the Client ID and Client secret for further use.
4. Specify any one URL in the Redirect URIs. One URI per line.
   - For Remote Desktop Web (RDWeb), specify \https://<rdwebaccess>/rdweb
   - For Outlook Web Access (OWA), specify \https://<outlookwebaccess>/owa

   **NOTE:** The Redirect URIs. One URI per line is case insensitive. Therefore, ensure to specify the URL is lower case.

   **NOTE:** You must specify single URL in Redirect URIs. One URI per line for integrating with IIS Authentication plug-in. If you have provided more than one URL, an error message No client redirect URI was supplied in the request is displayed when users try to authenticate to the URL using the plug-in.

5. Click Save.
Installing and Uninstalling the IIS Authentication Plug-in

This chapter contains the following sections:

- Installing the IIS Authentication Plug-in
- Uninstalling the IIS Authentication Plug-in

Installing the IIS Authentication Plug-in

1. Run the file `naaf-aafiisplugin-x64-release-<version>.msi` file.
2. Click Next.
3. Read and accept the License Agreement and click Next.
4. Click Next to install the plug-in in the default folder or click Change to select a preferred folder.
5. Click Install.
6. Click Finish.
7. Restart your machine.

Uninstalling the IIS Authentication Plug-in

You can uninstall the IIS Authentication plug-in in one of the following ways:

- Using Setup Wizard
- Using Control Panel

Using the Setup Wizard

1. Run the file `naaf-aafiisplugin-x64-release-<version>.msi` file.
2. Click Next.
3. Select Remove.
4. Click Remove to confirm.

Using Control Panel

1. Click Start > Control Panel > Programs and Features.
2. Right click NetIQ AAF IIS Module and select Uninstall.
3. Click OK.
Configuring the IIS Authentication Plug-in

You can configure the IIS Authentication plug-in with the Advanced Authentication server, OAuth 2.0 event details and then integrate the plug-in with IIS Manager to implement multi-factor authentication for the websites hosted on the IIS server.

To configure the IIS Authentication plug-in perform the following steps:

1. Click Start > Administration Tool on Windows system where you have installed the IIS Authentication plug-in.
2. Specify the following details:

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Server URL</td>
<td>The DNS name or IP address of the Advanced Authentication server without https://.</td>
</tr>
<tr>
<td>Client ID</td>
<td>ID that is obtained from the OAuth 2.0 event.</td>
</tr>
<tr>
<td>Client secret</td>
<td>Secret that is obtained from the OAuth 2.0 event.</td>
</tr>
<tr>
<td>Tenant name</td>
<td>If the Multitenancy mode is enabled, specify the preferred tenant name. If the Multitenancy mode is not enabled then specify TOP by default.</td>
</tr>
</tbody>
</table>

3. Click Save.
4. Click Registrations.
   - The Manage IIS registrations window is displayed. All the websites that are hosted on the IIS Manager are populated in this window.
5. Select the preferred website and click Enable.
   - The users must pass the authentication methods in the IIS Authentication plug-in to access these websites that are enabled in the Manage IIS registrations window.
   - To disable a website, select the website and click Disable. The users can access the disabled websites without authenticating through the IIS Authentication plug-in.
   - To update the websites list, click Refresh.

To integrate the IIS Manager with the IIS Authentication plug-in, perform the following steps:

1. Open the IIS Manager console.
2. In Features View of IIS Manager, double-click Authentication.
   - Click Edit to set the anonymous authentication for users who will connect to the site.
4. In the Edit Anonymous Authentication Credentials dialog box, select Application pool identity and set this identity to LocalSystem.
Troubleshooting

This chapter contains the following section on troubleshooting:

- "Debugging Logs" on page 17

Debugging Logs

You can obtain the logs for IIS Authentication plug-in in the following ways:

- "Using Diagnostic Tool" on page 17
- "Manual" on page 18

Using Diagnostic Tool

To collect the debug logs using the Diagnostic Tool, perform the following steps:

1. Run DiagTool.exe (the tool must have Microsoft .NET Framework 3.5 installed).
2. Click Clear All in the Debug logs tab.
3. Click Enable.
4. Restart the system.
5. Reproduce your issue.
7. Click Save logs in the Debug logs tab.
8. Specify a file name and path.
9. Click Save.
10. Click Disable.
11. Click Clear All.

With the Diagnostic Tool, you can also check the network problems on a workstation, issues in connection between a workstation and DNS Server, and to get a list of the Advanced Authentication Servers that can be discovered. To do this, perform the following steps:

1. Run DiagTool.exe (the tool must have Microsoft .NET Framework 3.5 installed).
2. Switch to the Servers tab.
3. In the Search settings you must specify FQDN in Domain and click Search.
   
   A list of Advanced Authentication Servers is displayed.
4. If the list is not displayed, clear Use system DNS server and specify the IP address of your DNS server in DNS server and click Search again.
Manual

If you do not have the Diagnostic Tool, you can collect the debug logs manually. To collect the debug logs manually, perform the following steps:

1. Create a text file `C:\ProgramData\NetIQ\Logging\config.properties`.
2. Add a string to the file: `logEnabled=True` that ends with a line break.
3. Create a directory `C:\ProgramData\NetIQ\Logging\Logs\`.
4. Restart the system.
5. Repeat the scenario.
6. Compress the logs located in `/Library/Logs/NetIQ/Logs/` into a zip file.