

# NetIQ Advanced Authentication Framework - Server

## **Installation Guide**

Version 5.1.0

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### Introduction

#### About This Document

#### **Purpose of the Document**

This Installation Guide is intended for system administrators and describes how to install NetIQ Advanced Authentication Framework Server.

#### **Document Conventions**

This document uses the following conventions:

**Warning.** This sign indicates requirements or restrictions that should be observed to prevent undesirable effects.

So **Important notes.** This sign indicates important information you need to know to use the product successfully.

🕕 Notes. This sign indicates supplementary information you may need in some cases.

**Tips.** This sign indicates recommendations.

- Terms are italicized, e.g.: Authenticator.
- Names of GUI elements such as dialogs, menu items, and buttons are put in bold type, e.g.: the **Logon** window.

## System Requirements

Before installing the product, check that the following system requirements are fulfilled:

Minimum hardware requirements for each appliance:

- 1 40 GB disk space
- 2 Cores
- 1 GB RAM

Supported browsers for administration tasks:

- Internet Explorer 10.0 and later
- Google Chrome 38.0 and later
- Mozilla Firefox 33.0 and later

### Installing Server

NetIQ Server is intended for processing requests for authentication coming from the NetIQ Advanced Authentication Framework system users. There should be at least one NetIQ Server in the domain to provide system workflow.

To increase performance, it is recommended to install several NetIQ Servers in the domain. In this case, the servers will automatically join in a cluster and function as an integral authentication service. It will increase not only the speed of the requests processing, but also the safety of the whole system. Installing several NetIQ Servers also increases fault tolerance. If for some reason one of the servers stops, the user still has a possibility to logon by authenticator.

Perform NetIQ Server installation using one of the following methods:

- Graphic Mode
- Text Mode

#### **Graphic Mode**

Control The **Graphical install** menu entry will be selected automatically within several seconds after the launch of the Setup Wizard.

**1** To cancel the installation, click the **Cancel** button. The button is available only for certain processes of installation.

To install NetIQ Server in the graphic mode:

1. Select the Graphical install menu entry in the Setup Wizard and press ENTER.



2. Read the license agreement. Select **I agree** at the bottom and click **Continue**.

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"User" means a user object in a single directory tree (or other class of object that contains data representing a person, such as objects containing credit card information or PIN numbers) that has (a)
Screenshot Continue

3. The installation will be automatically started.

	NetIO.
Install the system	
Copying data to disk	

So If your network is not using the DHCP protocol, it will be required to configure it manually. For more information, see the <u>Configuring the Network in the Graphic Mode</u> chapter.

- 4. Set up MySQL root password:
  - Enter a password for MySQL 'root'.
  - Confirm the password to verify its correctness.

	2
et up MySQL root password	
ou need to set a password for MySQL 'root'. A good password will contain a mixture of letters, number Ind punctuation and should be changed at regular intervals. MySQL root password	s
lease enter the same password again to verify that you typed it correctly. Re-enter password to verify	
creenshot	e

1 A strong password should contain letters, numbers and punctuation.

To make the screenshot of the current view, click the **Screenshot** button. The path to the screenshot location will be displayed in the notification pop-up window.

- 5. Click **Continue** to finish NetIQ Server installation.
- 6. Wait until the system reboots. The **Configuration Console** will be started.



#### Text Mode

So It is required to select the **Text install** menu entry within several seconds after the launch of the Setup Wizard. Otherwise the **Graphical install** menu entry will be selected automatically and NetIQ Server will be installed in the graphic mode.

To install NetIQ Server in the text mode:

1. Select the Text install menu entry in the Setup Wizard and press ENTER.



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2. Select **I agree** to continue installation.

	[!!] End-User License Agreement	
<go back=""></go>	<mark>I agree</mark> I don't agree	

3. The installation will be automatically started.

	Installing the system	
	4%	
Copying data to disk		

If your network is not using the DHCP protocol, it will be required to configure it manually. For more information see the <u>Configuring the Network in the Text Mode</u> chapter.

- 4. Set up MySQL root password:
  - Enter a password for MySQL 'root'. Select **Continue**.

[!!] Set up MySQL root password
You need to set a password for MySQL 'root'. A good password will contain a mixture of letters, numbers and punctuation and should be changed at regular intervals.
MySQL root password
xxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx
<pre>KContinue&gt;</pre>

Confirm the password to verify its correctness. Select **Continue**.



1 A strong password should contain letters, numbers and punctuation.

- 5. The NetIQ Server installation will be finished.
- 6. Wait until the system reboots. The **Configuration Console** will be started.



### **Configuration Console**

The Configuration Console is intended for managing NetIQ Server appliance, namely:

- Configuring appliance networking
- Configuring timezone and NTP servers
- Rebooting appliance
- Shutting down appliance

The Configuration Console is launched after NetIQ Server appliance installation. It contains Admin UI and User UI addresses.

A	UCORE appliance services	
User UI: Admin UI: This console: Monitor:	https://10.2.0.208 https://10.2.0.208/admin Alt + F8 Alt + F9-F12	
< <u>Advanced Menu&gt;</u>		

To proceed to NetIQ Server appliance management, select Advanced Menu.

#### **Configuring Appliance Networking**

To configure NetIQ Server appliance networking via Configuration Console, follow the steps:

- 1. Go to the Advanced Menu of the Configuration Console.
- 2. Select Networking.

	Advanced Menu
AUCORE Advanced	Menu
<mark>Networking</mark> Time Reboot Shutdown	Configure appliance networking Configure timezone and NTP servers Reboot the appliance Shutdown the appliance
	<mark>elect&gt;</mark> < Back >

- 3. Select an applicable networking configuration method:
- **DHCP** to configure networking automatically.

	eth0 configuration -
IP Address: Netmask: Default Gateway: Name Server(s):	10.2.0.208 255.255.254.0 10.2.0.100 10.2.0.254 10.2.0.4
Networking confi	guration method: dhcp
DHCP StaticIP	Configure networking automatically Configure networking manually
	elect> < Back >

**StaticIP** - to configure networking manually.

	eth0 configuration -
IP Address: Netmask: Default Gateway: Name Server(s):	10.2.0.208 255.255.254.0 10.2.0.100 10.2.0.254 10.2.0.4
Networking confi	guration method: dhcp
DHCP <mark>StaticIP</mark>	Configure networking automatically <mark>Configure networking manually</mark>
<u></u>	elect> < Back >

Specify all required parameters manually and press **ENTER** to apply changes.

	Network set	ttings	-
Static IP configu	uration (eth0)	)	
IP Address Netmask Default Gateway Name Server Name Server Name Server	10.2.0.208 255.255.254.0 10.2.0.100 10.2.0.254 10.2.0.4	)	
<a;< td=""><td>pply &gt;</td><td><cancel></cancel></td><td></td></a;<>	pply >	<cancel></cancel>	

#### **Configuring Timezone and NTP Servers**

To configure NetIQ Server appliance timezone and NTP servers via Configuration Console, follow the steps:

- 1. Go to the Advanced Menu of the Configuration Console.
- 2. Select Time.

	Advanced Menu
AUCORE Advanced	Menu
Networking Time Reboot Shutdown	Configure appliance networking Configure timezone and NTP servers Reboot the appliance Shutdown the appliance
	elect> < Back >

- 3. Select one of the following options:
- **Refresh** to refresh current time.

Configure timezone and NTP servers		
Current time: Fri Feb 20 12:18:51 2015 Timezone: UTC (UTC+00:00)		
NTP servers: 0.debian.pool.ntp.org iburst 1.debian.pool.ntp.org iburst 2.debian.pool.ntp.org iburst 3.debian.pool.ntp.org iburst		
RefreshRefresh current timeTimezoneConfigure timezoneNTDSector timezone		
NIP servers configure NIP servers		
<mark>≺Select&gt;</mark> < Back >		

**Timezone** to configure your current timezone.

Configure timezone and NTP servers		
Current time: Fri Feb 20 12:38:12 2015 Timezone: UTC (UTC+00:00)		
NTP servers: O.debian.pool.ntp.org iburst 1.debian.pool.ntp.org iburst 2.debian.pool.ntp.org iburst 3.debian.pool.ntp.org iburst		
Refresh Refresh current time Timezone Configure timezone NTP servers Configure NTP servers		
<mark><select></select></mark> < Back >		

Select your current geographic area and press **ENTER**.

	Confiduring todata	
Please select the geogra configuration questions cities, representing the	phic area in which yo will narrow this down time zones in which	u live. Subsequent by presenting a list of they are located.
Geographic area:		
	Africa America Antarctica Australia Arctic Ocean Asia Atlantic Ocean <mark>Europe</mark> Indian Ocean	↑
<0k>		<cancel></cancel>

Select the city or region that corresponds to your time zone and press **ENTER**.

Please select the city	Configuring tzda or region corresp	ata bonding to your time zone.
Time zone:		
	Amsterdam Andorra Athens Belfast Belgrade Berlin Bratislava Brussels Bucharest Budapest Busingen	↑
<0k>		<cancel></cancel>

Your current time and time zone will be updated in accordance with the entered values.

**NTP servers** to configure NTP servers.

Configure timezone and NTP servers		
Current time: Fri Feb 20 12:53:17 2015 Timezone: UTC (UTC+00:00)		
NTP servers: 0.debian.pool.ntp.org iburst 1.debian.pool.ntp.org iburst 2.debian.pool.ntp.org iburst 3.debian.pool.ntp.org iburst		
RefreshRefresh current timeTimezoneConfigure timezoneNTP serversConfigure NTP servers		
<pre>&lt;&lt;_Back &gt;</pre>		

Specify applicable addresses for NTP servers and press **ENTER** to apply changes.

NTP servers:	Configure NTP	Servers	
Server 1: <u>0</u> . Server 2: 1. Server 3: 2. Server 4: 3.	debian.pool.ntp.d debian.pool.ntp.d debian.pool.ntp.d debian.pool.ntp.d	org iburst org iburst org iburst org iburst	
	<apply></apply>	<cancel></cancel>	

#### **Rebooting Appliance**

To reboot NetIQ Server appliance via Configuration Console, follow the steps:

- 1. Go to the Advanced Menu of the Configuration Console.
- 2. Select Reboot.

	Advanced Menu
AUCORE Advanced	Menu
Networking Time Reboot Shutdown	Configure appliance networking Configure timezone and NTP servers <mark>Reboot the appliance</mark> Shutdown the appliance
	elect> < Back >

3. The confirmation message will be displayed. Select **Yes** to continue.



### Shutting Down Appliance

To shut down NetIQ Server appliance via Configuration Console, follow the steps:

- 1. Go to the Advanced Menu of the Configuration Console.
- 2. Select Shutdown.

	Advanced Menu
AUCORE Advanced	Menu
Networking Time Reboot <mark>Shutdown</mark>	Configure appliance networking Configure timezone and NTP servers Reboot the appliance <mark>Shutdown the appliance</mark>
S	elect> < Back >

3. The confirmation message will be displayed. Select **Yes** to continue.



## **Configuring Network**

If your network is not using DHCP protocol, it will be required to configure it manually. The network can be configured in both graphic and manual modes.

In this chapter:

- Configuring Network in the Graphic Mode
- Configuring Network in the Text Mode

#### **Configuring Network in the Graphic Mode**

To configure the network in the graphic mode:

1. After the network configuration failing, click **Continue**.



2. DHCP network autoconfiguration can be retried. Anyway it is recommended to configure it manually. Select the **Configure network manually** option and click **Continue**.

Configure the network	
From here you can choose to retry DHCP network autoconfiguration (which ma server takes a long time to respond) or to configure the network manually. So DHCP hostname to be sent by the client, so you can also choose to retry DHCP with a hostname that you provide. Network configuration method:	y succeed if your DHCP me DHCP servers require a 9 network autoconfiguration
Retry network autoconfiguration	
Retry network autoconfiguration with a DHCP hostname	
Do not configure the network at this time	

3. Specify IP address that is unique to your computer and click **Continue.** 

	NetIQ.
Configure the network	
The IP address is unique to your computer and may be: * four numbers separated by periods (IPv4); * blocks of hexadecimal characters separated by colons (IPv6). You can also optionally append a CIDR netmask (such as "/24").	
IP address:	
Screenshot	Go Back Continue

4. Specify an applicable netmask to determine which machines are local to your network and click **Continue**.

Net	IQ.
Configure the network	
The netmask is used to determine which machines are local to your network. Consult your network administrator if you do not know the value. The netmask should be entered as four numbers separa by periods. Netmask:	ated
255.255.255.0	
Screenshot         Go Back         Con	itinue

5. Specify the gateway (IP address that indicates the gateway router) and click **Continue**.

	N	etlQ"
Configure the network		
The gateway is an IP address (four numbers separated by periods) that indicat also known as the default router. All traffic that goes outside your LAN (for ins sent through this router. In rare circumstances, you may have no router; in tha blank. If you don't know the proper answer to this question, consult your net <i>Gateway</i> :	tes the gatewa itance, to the l at case, you ca work administr	y router, nternet) is n leave this ator.
10.2.0.100		
Freenehet	Go Back	Continue
Screenshot	Go Васк	Continue

6. Specify the name server address that will be used to look up host names on the network. Click **Continue**.

	N	etiQ.
Configure the network		
The name servers are used to look up host names on the network. Please ento host names) of up to 3 name servers, separated by spaces. Do not use comma the list will be the first to be queried. If you don't want to use any name server Name server addresses:	er the IP addres s. The first nam r, just leave this	sses (not e server in s field blank.
10.2.0.100		
Screenshot	Go Back	Continue

7. Your network will be successfully configured.

### Configuring Network in the Text Mode

To configure the network in the graphic mode:

1. After the network configuration failing, click **Continue**.



2. DHCP network autoconfiguration can be retried. Anyway it is recommended to configure it manually. Select the **Configure network manually** option and click **Continue**.

-	[11] Configure the network
From here you can your DHCP server t DHCP servers requi retry DHCP network	choose to retry DHCP network autoconfiguration (which may succeed if takes a long time to respond) or to configure the network manually. Some ire a DHCP hostname to be sent by the client, so you can also choose to < autoconfiguration with a hostname that you provide.
Network configurat	tion method:
	Retry network autoconfiguration Retry network autoconfiguration with a DHCP hostname Configure network manually
	Do not configure the network at this time
<go back=""></go>	

3. Specify IP address that is unique to your computer and click **Continue.** 



4. Specify an applicable netmask to determine which machines are local to your network and click **Continue**.



5. Specify the gateway (IP address that indicates the gateway router) and click **Continue**.

[!!] Configure the network	
The gateway is an IP address (four numbers separated by period gateway router, also known as the default router. All traff. (for instance, to the Internet) is sent through this router. may have no router; in that case, you can leave this blank. answer to this question, consult your network administrator.	ods) that indicates the ic that goes outside your LAN In rare circumstances, you If you don't know the proper
10.2.0.100	
<go back=""></go>	<pre>KContinue&gt;</pre>

6. Specify the name server address that will be used to look up host names on the network. Click **Continue**.

[!!] Configure the network
The name servers are used to look up host names on the network. Please enter the IP addresses (not host names) of up to 3 name servers, separated by spaces. Do not use commas. The first name server in the list will be the first to be queried. If you don't want to use any name server, just leave this field blank.
Name server addresses:
10.2.0.100
<go back=""> <continue></continue></go>

7. Your network will be successfully configured.

### Troubleshooting

**1** This chapter provides solutions for known issues. If you encounter any problems that are not mentioned here, please contact the support service.

#### **Partition Disks**

#### **Description:**

The following dialog box is installed during the installation of the NetIQ Server:

Partition disks
If you continue, the changes listed below will be written to the disks. Otherwise, you will be able to make further changes manually.
WARNING: This will destroy all data on any partitions you have removed as well as on the partitions that are going to be formatted.
The partition tables of the following devices are changed: SCSI3 (0,0,0) (sda)
The following partitions are going to be formatted: partition #1 of SCSI3 (0,0,0) (sda) as ext4 partition #5 of SCSI3 (0,0,0) (sda) as swap Write the changes to disks?
© No
⊖ Yes
Screenshot

#### Cause:

You are installing NetIQ Server on the drive which contains data already.

#### Solution:

NetIQ Server installer suggests you to perform disk partitioning. It will destroy all data on any partitions you have removed as well as on the partitions that are going to be formatted. To perform disk partitioning, select **Yes** and click **Continue**.

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