



Micro Focus Storage Manager 5.3 for eDirectory Installation Guide

June 1, 2020

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Third Party Systems

The software is designed to run in an environment containing third party elements meeting certain prerequisites. These may include operating systems, directory services, databases, and other components or technologies. See the accompanying prerequisites list for details.

The software may require a minimum version of these elements in order to function. Further, these elements may require appropriate configuration and resources such as computing, memory, storage, or bandwidth in order for the software to be able to perform in a way that meets the customer requirements. The download, installation, performance, upgrade, backup, troubleshooting, and management of these elements is the responsibility of the customer using the third party vendor's documentation and guidance.

Third party systems emulating any these elements must fully adhere to and support the appropriate APIs, standards, and protocols in order for the software to function. Support of the software in conjunction with such emulating third party elements is determined on a case-by-case basis and may change at any time.

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About This Guide

This installation guide is written to provide network administrators the conceptual and procedural information for installing and configuring Micro Focus Storage Manager 5.3 for eDirectory.

- ♦ Chapter 1, “Prerequisites,” on page 7
- ♦ Chapter 2, “Licensing the Product,” on page 9
- ♦ Chapter 3, “Upgrading from Storage Manager 5.0 to 5.3,” on page 11
- ♦ Chapter 4, “Installing Storage Manager 5.3 for eDirectory,” on page 13
- ♦ Appendix A, “Documentation Updates,” on page 31

Audience

This guide is intended for network administrators who manage user and collaborative network storage resources.

Feedback

We want to hear your comments and suggestions about this guide and the other documentation included with this product. Please use the User Comment feature at the bottom of each page of the online documentation, or go to www.novell.com/documentation/feedback.html and enter your comments there.

Documentation Updates

For the most recent version of the *Micro Focus Storage Manager 5.3 for eDirectory Installation Guide*, visit the [Micro Focus Storage Manager Web site \(http://www.novell.com/documentation/storagemanager5/index.html\)](http://www.novell.com/documentation/storagemanager5/index.html).

Additional Documentation

For additional Micro Focus Storage Manager documentation, see the following guide at the [Micro Focus Storage Manager Documentation Web site \(http://www.novell.com/documentation/storagemanager5\)](http://www.novell.com/documentation/storagemanager5):

- ♦ *Micro Focus Storage Manager 5.3 for eDirectory Administration Guide*

1 Prerequisites

This section provides procedures that you must do before installing the Micro Focus Storage Manager 5.3 for eDirectory components.

- ♦ [Section 1.1, “Preparing the Files for Installation,” on page 7](#)
- ♦ [Section 1.2, “Component Installation Overview,” on page 7](#)

1.1 Preparing the Files for Installation

Micro Focus Storage Manager 5.3 is packaged as a single `StorageManager_5_3_0-x64.iso` file. Before you can install the Micro Focus Storage Manager 5.3 for eDirectory components, you must mount the `StorageManager_5_3_0-x64.iso` on the server where you are installing one of the Storage Manager components.

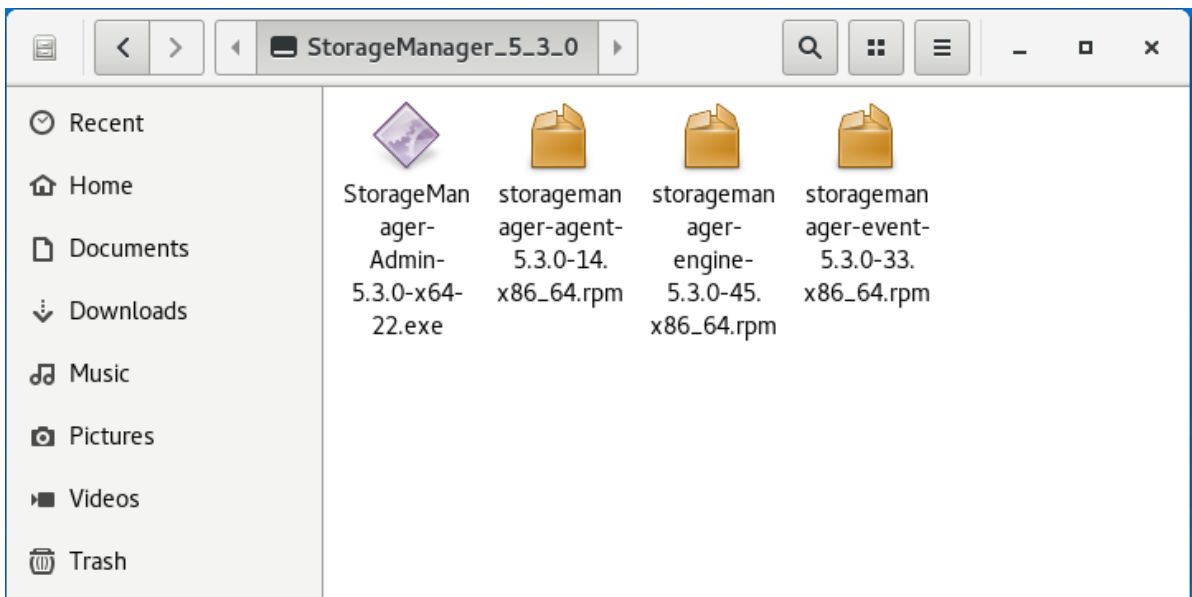
1.2 Component Installation Overview

You must install the following Storage Manager 5.3 components:

- ♦ Engine
- ♦ Event Monitor
- ♦ Agents
- ♦ Admin Client

1.2.1 Installation Files

The installation files for each of the Storage Manager 5.3 for eDirectory components are located at the root of the ISO image. The installation files for the Engine, Event Monitor, and Linux Agents are RPMs. The installation file for the Admin Client is a Windows executable file.



2 Licensing the Product

- ◆ Section 2.1, “Licensing Overview,” on page 9
- ◆ Section 2.2, “Obtaining a License File,” on page 9
- ◆ Section 2.3, “Updating an Evaluation License File,” on page 10

2.1 Licensing Overview

Micro Focus Storage Manager has two license types:

Table 2-1 License Types

License Type	Target Customer	Intended Use
Evaluation	Customers	Allows customers to develop an understanding of the power of the product. This is a license that is good for 60 days from the date it is generated.
Production	Customers	Allows customers to create and run a policy-based infrastructure in production in their environment.

2.2 Obtaining a License File

Micro Focus Storage Manager requires a production license file or evaluation license file that you obtain from Micro Focus.

- 1 In a web browser, go to www.storagemanagersupport.com.
- 2 On the left column of the web page, click **License**.
A new web page appears with options for obtaining the license.

MICRO FOCUS | storage manager Support Site

printer friendly

Home
 Version 6.5 for AD
 ▪ [Access](#)
 Version 5.3 for eDir
 ▪ [Download](#)
 ▪ [Licensing](#)
 ▪ [Documentation](#)
 Version 5.0 for eDir
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 Support
 ▪ [Forums](#)

Product License – 5.x

Welcome to the **Storage Manager 5.x License and Activation** page. Here you will have the opportunity to either request a Evaluation license key or activate a Production license key, which will immediately be sent to you via e-mail. Please select either license generation server.

Option	eDirectory
Evaluation License	Server1
You can obtain a free 60 day Unlimited use evaluation license for Storage Manager by using one of the following servers:	Server2
Production License Activation	Server1
Select one of the following links to proceed to a server to activate your Storage Manager license:	Server2

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- 3 From the applicable license section, click either **Server1** or **Server2**.
A license request form appears.
- 4 In the license request form, complete the fields and click **Submit**.
An e-mail from Storage Manager Support is automatically sent to you with an embedded link for accessing the license.
- 5 In the email, click the link to download the license file.
A new Access web page is opened.
- 6 From the Access page, select the listed license file and click the arrow icon to download the license.
- 7 Note where the license file is saved.
You need to retrieve the license during the installation of the Admin Client.

2.3 Updating an Evaluation License File

After you have installed Storage Manager 5.3 for eDirectory, you can update your evaluation license or production license by simply replacing the old license file with the new one.

- 1 From the Admin Client, click the **Configure** tab.
- 2 Click the **Engine Config** option.
- 3 Click the **License Update** tab.
- 4 Click **Browse** to locate and select the new license.
- 5 Click **Upload** to upload the license.

3 Upgrading from Storage Manager 5.0 to 5.3

- ♦ [Section 3.1, “Engine,” on page 11](#)
- ♦ [Section 3.2, “Event Monitor,” on page 11](#)
- ♦ [Section 3.3, “Agents,” on page 11](#)
- ♦ [Section 3.4, “Admin Client,” on page 11](#)
- ♦ [Section 3.5, “License,” on page 11](#)

The process for upgrading from Storage Manager 5.0 for eDirectory to Storage Manager 5.3 for eDirectory involves installing the new updated components over the existing ones.

3.1 Engine

Upgrade the Engine by following the installation procedures in [Section 4.1, “Installing the Engine,” on page 13](#).

3.2 Event Monitor

Upgrade the Event Monitor by following the installation procedures in [Section 4.3, “Installing the Event Monitor,” on page 16](#).

3.3 Agents

Upgrade the Agents by following the installation procedures in [Section 4.5, “Installing an Agent,” on page 20](#).

3.4 Admin Client

Update the Admin Client by following the installation and configuration procedures in [Section 4.7, “Installing and Configuring the Admin Client,” on page 24](#).

3.5 License

Update the product license during the installation and configuration of the Admin Client.

4 Installing Storage Manager 5.3 for eDirectory

This section provides procedures for installing the Engine, the Admin Client, the Event Monitor, and the Agents. For information on how these components work in a Storage Manager deployment, see the *Micro Focus Storage Manager 5.3 for eDirectory Administration Guide*.

You should follow these procedures only after you have performed the prerequisite tasks in [Chapter 1, “Prerequisites,” on page 7](#), and obtained a Micro Focus Storage Manager 5.0 for eDirectory product license as indicated in [Chapter 2, “Licensing the Product,” on page 9](#).

This section also provides procedures for assigning rights and privileges to the NSMProxyRights group that is created when you install the Admin Client.

- ♦ [Section 4.1, “Installing the Engine,” on page 13](#)
- ♦ [Section 4.2, “Configuring the Engine,” on page 13](#)
- ♦ [Section 4.3, “Installing the Event Monitor,” on page 16](#)
- ♦ [Section 4.4, “Configuring the Event Monitor,” on page 17](#)
- ♦ [Section 4.5, “Installing an Agent,” on page 20](#)
- ♦ [Section 4.6, “Configuring an Agent,” on page 21](#)
- ♦ [Section 4.7, “Installing and Configuring the Admin Client,” on page 24](#)
- ♦ [Section 4.8, “Authorizing the Event Monitor,” on page 28](#)
- ♦ [Section 4.9, “Authorizing the Agents,” on page 29](#)

4.1 Installing the Engine

Storage Manager uses only one Engine per tree. The Engine can be installed on a server that meets the following minimum requirements:

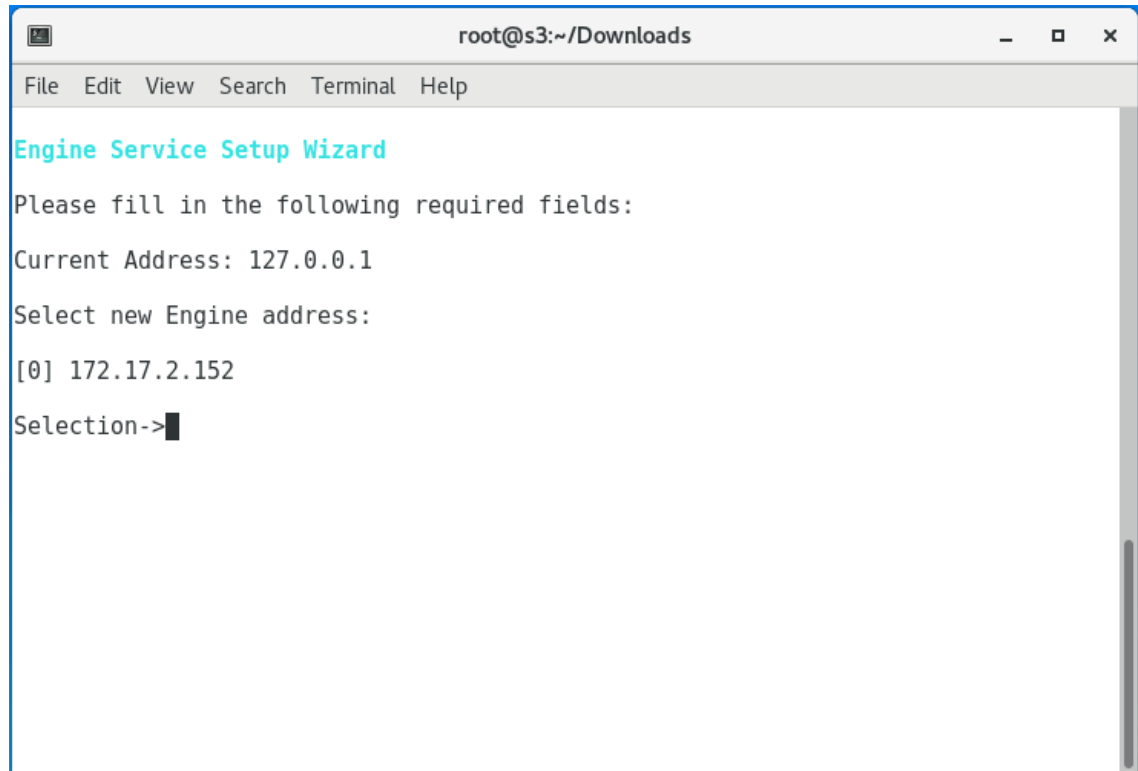
- ♦ Micro Focus Open Enterprise Server 2018 SP2
 - ♦ Micro Focus Open Enterprise Server 2018 SP1
- 1 At the root of the `StorageManager_5_3_0-x64.iso` image, locate and click **storagemanager-engine-5.3-xx.x86_64.rpm**.
 - 2 Save the RPM.
 - 3 Launch a terminal session.
 - 4 Install the Engine RPM package by typing:

```
# rpm -Uvh storagemanager-engine-5.3.0-xx.x86_64.rpm.
```
 - 5 Continue with [Section 4.2, “Configuring the Engine,” on page 13](#).

4.2 Configuring the Engine

- 1 At the same terminal, type `nsmengine-config` and press Enter.

The console is updated and looks similar to the one below.



```
root@s3:~/Downloads
File Edit View Search Terminal Help
Engine Service Setup Wizard
Please fill in the following required fields:
Current Address: 127.0.0.1
Select new Engine address:
[0] 172.17.2.152
Selection->
```

If your server has multiple NIC cards, multiple IP address options are listed.

- 2 Specify the IP address of the server hosting the Engine and press Enter.

If the displayed IP address is correct, you can press 0.

- 3 When the HTTP Port [0] option appears, type 0 and press Enter.

The console is updated and looks similar to the one below:

```
root@s3:~/Downloads
File Edit View Search Terminal Help

Engine Service Setup Wizard

Please fill in the following required fields:

Current Address: 127.0.0.1

Select new Engine address:

[0] 172.17.2.152

Selection->0
Engine HTTP Port [0] :
Engine HTTPS Port [3009] : █
```

- 4 Unless there is a conflict, accept the default HTTPS port number of 3009 by pressing Enter. If you need to use another port number, provide the new port number.
- 5 Press `y` to use the default server name for the common name of the certificate.
- 6 Press Enter to continue.
The certificate is generated.
- 7 Press Enter to continue.
- 8 When you are asked if you want to start the service, click `y` for yes.
This starts the Engine.
- 9 Press Enter to continue.
The console is updated and looks similar to the one below.

```
root@s3:~/Downloads
File Edit View Search Terminal Help
-----
Engine Service Config
-----
Engine Address:          172.17.2.152
Engine HTTP Port:       0
Engine HTTPS Port:      3009
Default NCP Server Address: s3
-----
[A] Engine Settings      [N] Default NCP Server Address
[S] Service Management   [C] Certificate Management
[Q] Quit
Selection->█
```

At this point, you can navigate through the menu to see how to perform management tasks on the Engine when necessary.

10 Press `q` to quit.

4.3 Installing the Event Monitor

The Event Monitor can be installed on any of the following servers:

- ♦ Micro Focus Open Enterprise Server 2018 SP2
- ♦ Micro Focus Open Enterprise Server 2018 SP1

Other notable information about the Event Monitor:

- ♦ You can have multiple Event Monitors per directory tree.
- ♦ As a best practice, Micro Focus recommends two Event Monitors per replica ring
- ♦ The Event Monitor must be permitted to make outbound connections through the firewall

1 At the root of the `StorageManager_5_3_0-x64.iso` image, locate and click **storagemanager-event-5.3.0-xx.xxx.rpm**.

2 Save the RPM.

3 Launch a terminal session.

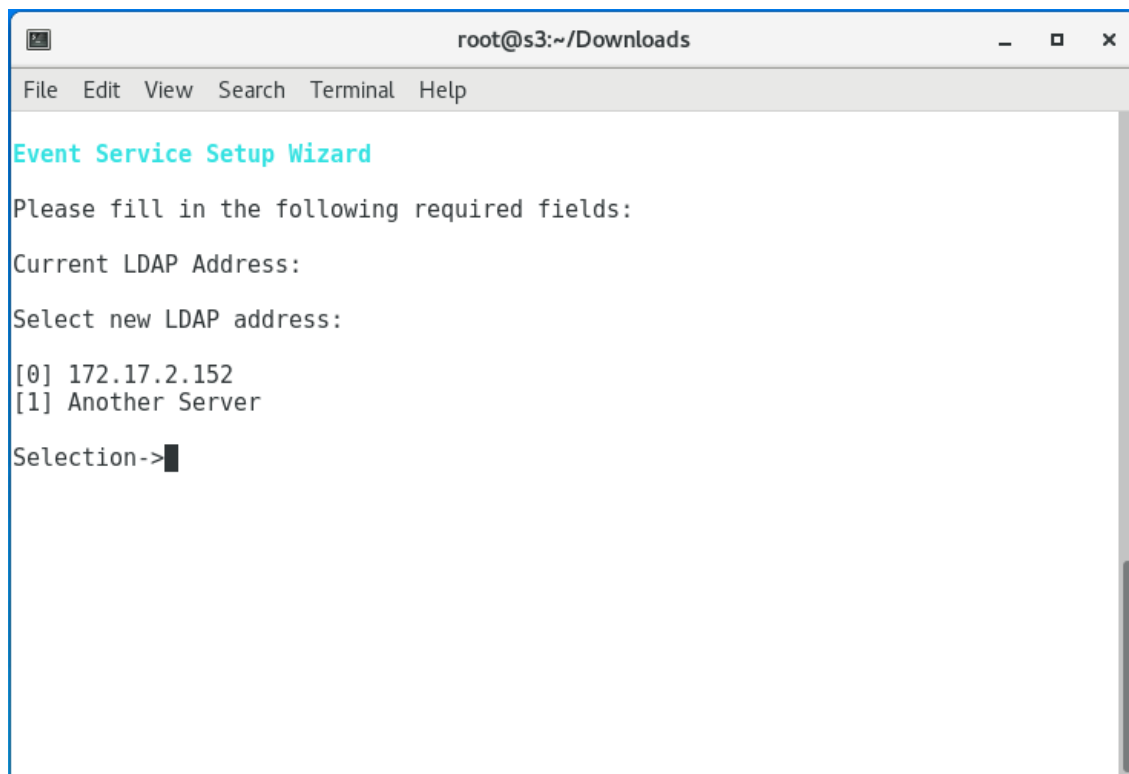
4 Install the Event Monitor RPM package by typing:

```
# rpm -Uvh storagemanager-event-5.3.0-xx.xxx.rpm.
```

5 Continue with [Section 4.4, “Configuring the Event Monitor,”](#) on page 17.

4.4 Configuring the Event Monitor

- 1 At the same terminal, type `nsmevent-config` and press Enter.
The console is updated and looks similar to the one below.



```
root@s3:~/Downloads
File Edit View Search Terminal Help
Event Service Setup Wizard
Please fill in the following required fields:
Current LDAP Address:
Select new LDAP address:
[0] 172.17.2.152
[1] Another Server
Selection->|
```

- 2 Specify the IP address of the server you are going to monitor.
For example, if you are going to monitor this server, type 0. If you are going to monitor another server, type 1 and then type the IP address and other configuration information that is requested.
Event monitors should be configured to monitor at least one server per eDirectory partition ring that you care about. That is, you should monitor servers that hold a replica for each eDirectory partition that contains objects that you want to receive event data about and for which Storage Manager will consequently manage storage.
- 3 Press Enter.
The console is updated and looks similar to the one below.

```
root@s3:~/Downloads
File Edit View Search Terminal Help

Event Service Setup Wizard

Please fill in the following required fields:

Current LDAP Address:

Select new LDAP address:

[0] 172.17.2.152
[1] Another Server

Selection->0

Configure Ports:
Enter new port values

For each of the following, enter a port number.
(Enter zero (0) to turn off a port listener or hit [Enter] to accept
the current value.)

LDAP Port [389]: █
```

- 4 Accept the default LDAP port setting by pressing Enter.
 - 5 Accept the TLS-Auth LDAP SSL type by pressing Enter.
 - 6 Accept the default data path by pressing Enter.
- The console is updated and looks similar to the one below.

```
root@s3:~/Downloads
File Edit View Search Terminal Help

Configure Ports:
Enter new port values

For each of the following, enter a port number.
(Enter zero (0) to turn off a port listener or hit [Enter] to accept
the current value.)

LDAP Port [389]:

Set LDAP SSL Type:
[0] Clear
[1] SSL
[2] TLS-Auth
[3] TLS-Full

LDAP SSL Type: [2]:

Current Data Path: /var/opt/novell/storagemanager/event
New Path->
Engine Address: 172.17.2.152
```

- 7 Specify the IP address of the server hosting the Engine and press Enter.
You can also enter a DNS entry at this prompt.
- 8 Accept the port entry of 3009 by pressing Enter.
- 9 Press Enter to accept this server as the default LDAP login server.
- 10 Press `y` to use the default server name for the common name of the certificate.
- 11 Press Enter to continue.
The certificate is generated.
- 12 Press Enter to continue.
- 13 When you are asked if you want to start the service, press `y` for yes.
This starts the Event Monitor.
- 14 Press Enter to continue.
The console is updated and looks similar to the one below.

```
root@s3:~/Downloads
File Edit View Search Terminal Help
-----
Event Service Config
-----
LDAP Address:      172.17.2.152
LDAP Port:        389
LDAP SSL Type:    TLS-Auth

Data Path:        /var/opt/novell/storagemanager/event
Heartbeat:        60 seconds
Engine Address:   172.17.2.152:3009
  Use SSL:        Yes
-----
[A] LDAP Address          [P] LDAP Ports & Settings
[D] Data Path             [O] Debug Options
[S] Service Management    [E] Engine Service
[V] View Console          [Q] Quit

Selection->█
```

At this point, you can navigate through the menu to see how to perform management tasks on the Event Monitor when necessary.

15 Press `q` to quit.

4.5 Installing an Agent

An Agent can be installed on any of the following machines:

- ♦ Micro Focus Open Enterprise Server 2018 SP2
- ♦ Micro Focus Open Enterprise Server 2018 SP1

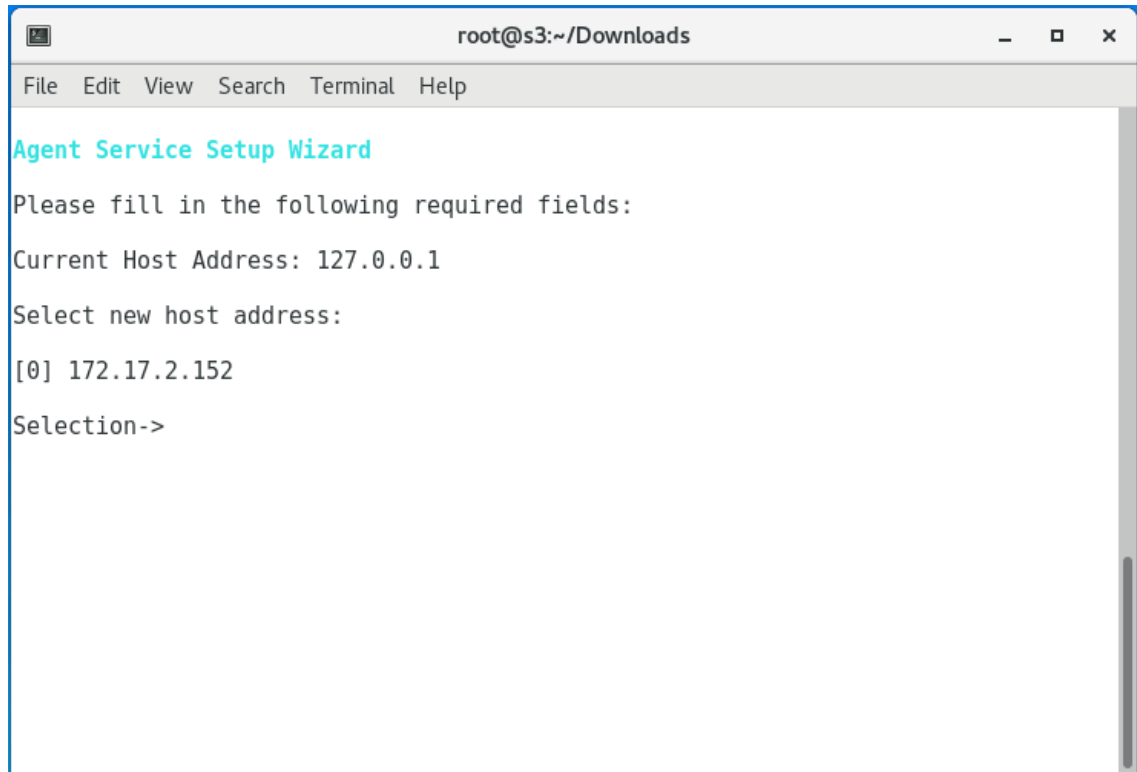
Other notable information about Agents:

- ♦ The default Agent port is 3011
 - ♦ A firewall inbound rule for the Agent is created during the installation
- 1 At the root of the `StorageManager_5_3_0-x64.iso` image, locate and click `storagemanager-agent-5.3.0-xx.xxxx.rpm`.
 - 2 Save the RPM.
 - 3 Launch a terminal session.
 - 4 Install the Agent RPM package by typing:

```
# rpm -Uvh storagemanager-agent-5.3.0-xx.xxxx.rpm.
```
 - 5 Continue with [Section 4.6, "Configuring an Agent,"](#) on page 21.

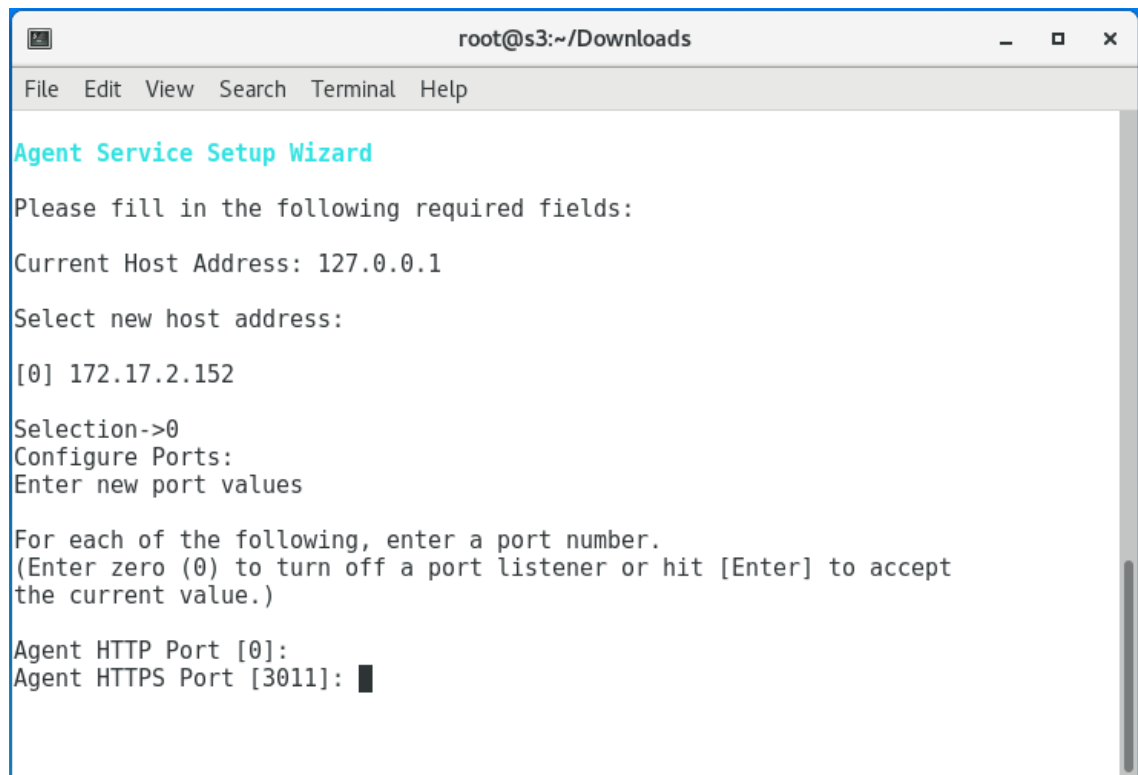
4.6 Configuring an Agent

- 1 From the same terminal, type `nsmagent-config` and press Enter.
The console is updated and looks similar to the one below.



```
root@s3:~/Downloads
File Edit View Search Terminal Help
Agent Service Setup Wizard
Please fill in the following required fields:
Current Host Address: 127.0.0.1
Select new host address:
[0] 172.17.2.152
Selection->
```

- If your server has multiple NIC cards, multiple IP address options are listed.
- 2 Specify the IP address of the server hosting the Agent and press Enter.
If the displayed IP address is correct, you can press 0.
 - 3 When the HTTP Port [0] option appears, type 0 and press Enter.
The console is updated and looks similar to the one below.



```
root@s3:~/Downloads
File Edit View Search Terminal Help

Agent Service Setup Wizard

Please fill in the following required fields:

Current Host Address: 127.0.0.1

Select new host address:

[0] 172.17.2.152

Selection->0
Configure Ports:
Enter new port values

For each of the following, enter a port number.
(Enter zero (0) to turn off a port listener or hit [Enter] to accept
the current value.)

Agent HTTP Port [0]:
Agent HTTPS Port [3011]: █
```

- 4 Accept the port setting of 3011 by pressing Enter.
- 5 Accept the default data path by pressing Enter.
- 6 When you are asked if you want to create the new data path, press *y* for yes.
- 7 When you are prompted for the engine address, specify the IP address for the server hosting the Engine.
- 8 Accept the 3009 port setting for the Engine by pressing Enter.
The console is updated and looks similar to the one below.

```
root@s3:~/Downloads
File Edit View Search Terminal Help
Current Host Address: 127.0.0.1
Select new host address:
[0] 172.17.2.152
Selection->0
Configure Ports:
Enter new port values
For each of the following, enter a port number.
(Enter zero (0) to turn off a port listener or hit [Enter] to accept
the current value.)
Agent HTTP Port [0]:
Agent HTTPS Port [3011]:
Current Data Path: /var/opt/novell/storagemanager/agent/data
New Path->
Path does not exist. Create path? [Y/N]: y
Engine Address: 172.17.2.152
Engine Port [3009] :
Use SSL (Y/N) [Y]: y
```

- 9 When you are asked if you want to use SSL, press `y` for yes.
- 10 Press `y` to use the default server name for the common name of the certificate.
- 11 Press `Enter` to continue.
The certificate is generated.
- 12 Press `Enter` to continue.
- 13 When you are asked if you want to start the service, press `y` for yes.
This starts the Agent.
- 14 Press `Enter` to continue.
The console is updated and looks similar to the one below.

```
root@s3:~/Downloads
File Edit View Search Terminal Help
-----
Agent Service Config
-----
Host Address:                172.17.2.152
Service Ports:              HTTPS: 3011  HTTP: 0

Data Path:                  /var/opt/novell/storagemanager/agent/data
Heartbeat:                  60 seconds
Engine Address:             172.17.2.152:3009
  Use SSL:                   Yes
Default NCP Server Address: s3
-----
[A] Agent Address           [D] Data Path
[E] Engine Service         [N] NCP Server Address
[O] Debug Options          [P] Agent Ports
[S] Service Management     [Q] Quit

Selection->
```

At this point, you can navigate through the menu to see how to perform management tasks when necessary.

- 15 Press `q` to quit.

4.7 Installing and Configuring the Admin Client

The Admin Client is the administrative interface for Storage Manager. It can be installed on:

- ♦ Windows 10
- ♦ Windows Server 2019, 2016, or 2012 R2

- 1 At the root of the `StorageManager_5_3_0-x64.iso` image, click `StorageManager-Admin-5.3.0-x64-xx.exe`.

- 2 When asked if you want to save or run the file, save the file to the hard drive of a computer where you will administer Storage Manager.

- 3 From the saved location, launch the Admin Client installation file.

- 4 When you are asked if you want to run this file, click **Run**.

An Introduction page appears in the Admin Client Installation Wizard.

- 5 Read the text and click **Next**.

- 6 Accept the license terms and click **Next**.

- 7 Accept the installation path or indicate a new path by using the **Browse** button.

To review possible locations, you can click **Disk Usage** to see all available volumes with disk size and disk availability data.

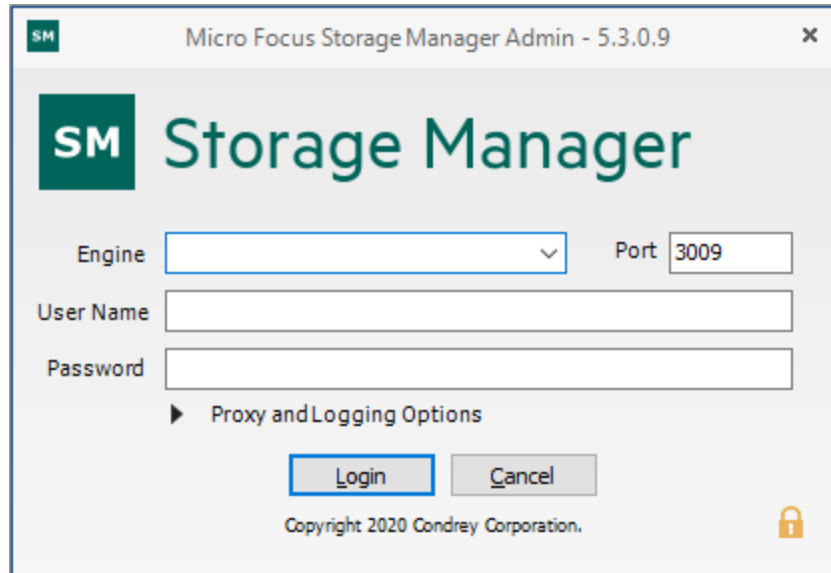
- 8 Click **Next**.

- 9 If you want to create a shortcut on the desktop, leave the **Create shortcut on Desktop** check box selected and click **Install**.

The Admin Client is installed.

- 10 Click the **Run Admin Client** button.

The Admin Client is launched.



- 11 In the **Engine** field, specify the DNS name or IP address.

- 12 In the **Port** field, leave the default port setting to 3009.

- 13 Specify the username and password.

The user must be a member of the SMAdmins group to be able to log in.

- 14 Click **Login**.

If you are unable to log in, your proxy settings might be preventing you from doing so. Until you enter a proxy exception in your proxy settings, you can click **Proxy and Logging Options**, select **Do not use a Proxy**, then click **Login**.

The Setup Wizard welcome page appears.

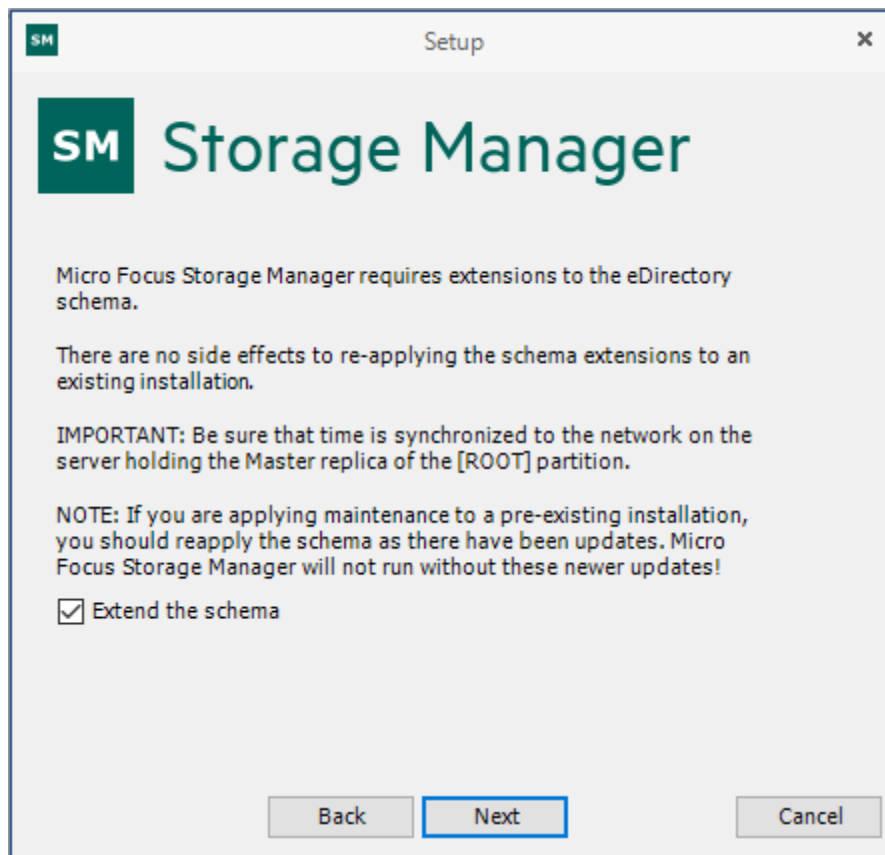
- 15 Read the text on the page and click **Next**.

- 16 Do one of the following:

- ◆ Click **Browse** to locate and select the path to the license file
- ◆ Click **Get a License** to obtain an evaluation license

- 17 Click **Next**.

A prompt appears asking if you want to extend the eDirectory schema.

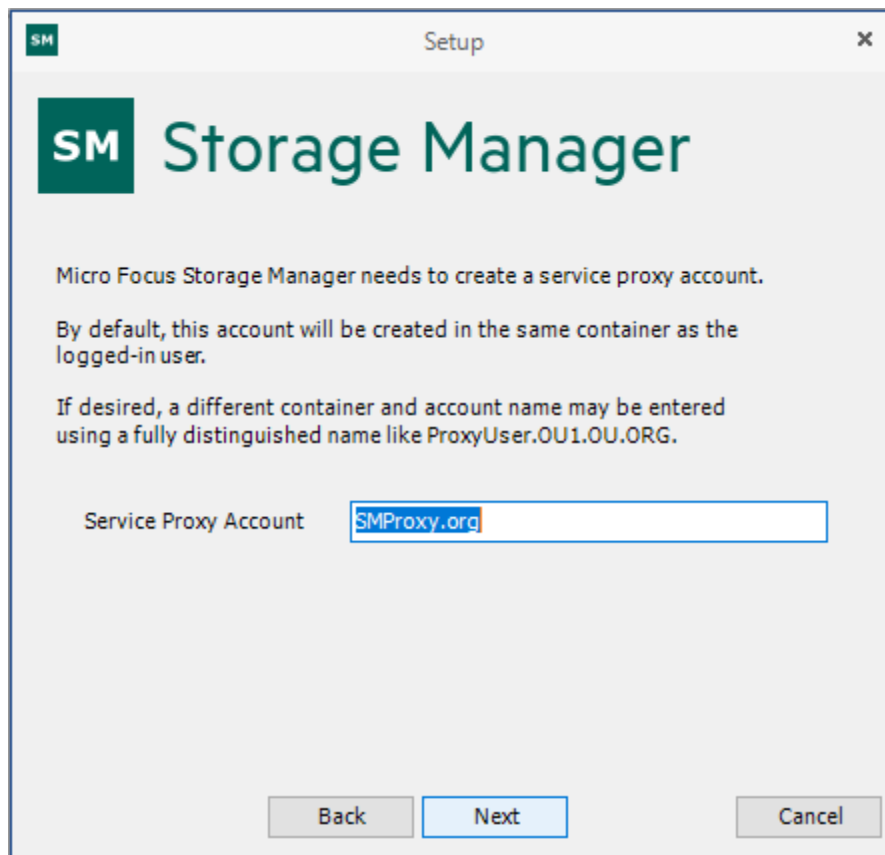


18 Do one of the following:

- ◆ If you plan to manage collaborative storage or auxiliary user storage, extend the eDirectory schema by verifying that the **Extend the schema** check box is selected and click **Next**.
- ◆ If you do not plan to manage collaborative storage or auxiliary user storage, deselect the **Extend the schema** check box and click **Next**.

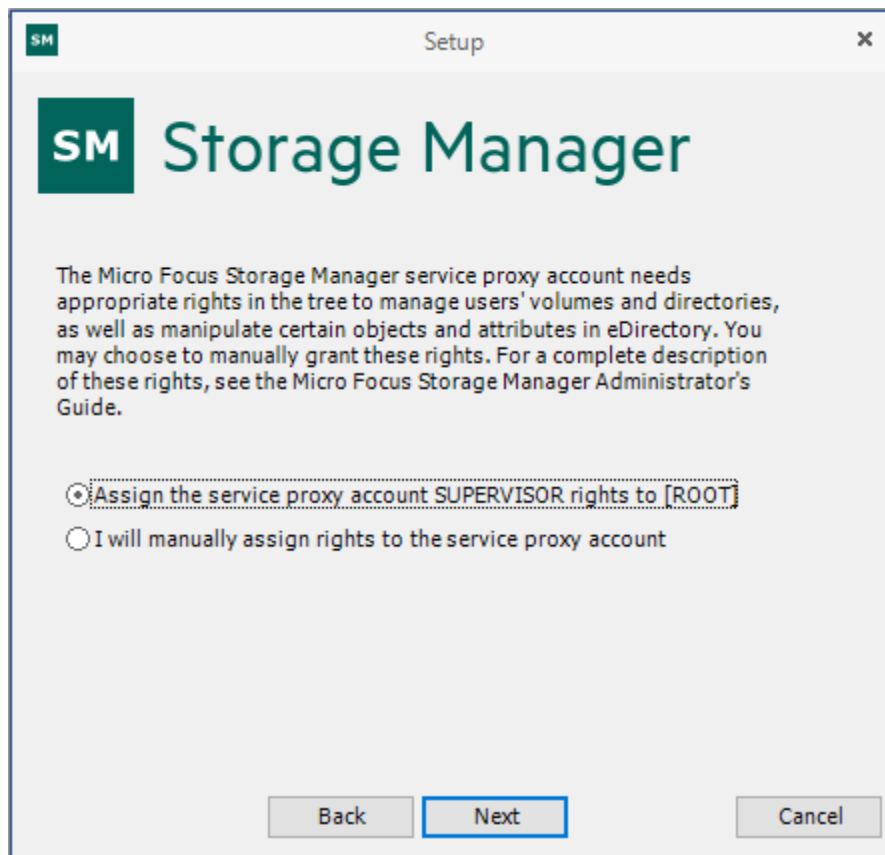
19 Click **Next**.

The following page appears:



20 Accept the account name that will be created and click **Next**.

The following page appears:



- 21 Select one of the options and click **Next**.
- 22 Accept or modify the SM Administrators' Group name, leave the **Add current user to SM Administrators Group** check box selected, then click **Next**.
- 23 When you are notified that a Proxy Home share will be created on the Engine's local Proxy Home source path, click **Next**.
You are informed that Storage Manager needs to initialize the Engine and its subsystems.
- 24 Click **Next**.
- 25 When you are prompted, enter your password and click **Login**.
- 26 Proceed with [Section 4.8, "Authorizing the Event Monitor,"](#) on page 28.

4.8 Authorizing the Event Monitor

- 1 In the Admin Client, click the **Configure** tab.
- 2 Click **Event Servers**.
- 3 Select the listed server.
- 4 Click **Authorize**.
- 5 When you are asked if you want to authorize the selected event monitor, click **Yes**.
- 6 When the Results page appears, click **Close**.
- 7 Proceed with [Section 4.9, "Authorizing the Agents,"](#) on page 29.

4.9 Authorizing the Agents

- 1 In the Admin Client, click the **Configure** tab.
- 2 Click **Agent Servers**.
- 3 Select a listed server.
- 4 Click **Authorize**.
- 5 When you are asked if you want to authorize the selected event monitor, click **Yes**.
- 6 When the Results page appears, click **Close**.

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Documentation Updates

This section contains information about documentation content changes that were made in this *Micro Focus Storage Manager 5.3 for eDirectory Installation Guide* after the release of Storage Manager 5.0 for eDirectory. The changes are listed according to the date they were published.

The documentation for this product is provided on the Web in two formats: HTML and PDF. The HTML and PDF documentation are both kept up-to-date with the changes listed in this section.

If you need to know whether a copy of the PDF documentation that you are using is the most recent, the PDF document includes a publication date on the title page.

The documentation was updated on the following dates:

A.1 June 1, 2020

Location	Update Description
Section 4.1, "Installing the Engine," on page 13.	Updated list of supported host operating systems.
Section 4.3, "Installing the Event Monitor," on page 16.	Updated list of supported host operating systems.
Section 4.5, "Installing an Agent," on page 20.	Updated list of supported host operating systems.
Section 4.7, "Installing and Configuring the Admin Client," on page 24.	Updated list of supported host operating systems.

A.2 July 19, 2016

Based on the re-branding of the product, updates were made to some filenames and paths throughout the manual.

