# Service Desk 7.2 Installation Guide

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## **About This Guide**

This *Micro Focus Service Desk Installation Guide* includes information to help you successfully install Micro Focus Service Desk on a device.

The information in this guide is organized as follows:

- Chapter 1, "Overview," on page 7
- Chapter 2, "System Requirements," on page 9
- Chapter 3, "Installing and Uninstalling the Micro Focus Service Desk," on page 13
- Chapter 5, "Deploying Micro Focus Service Desk Appliance," on page 27
- Chapter 4, "Upgrading the Micro Focus Service Desk," on page 17
- Chapter 6, "Upgrading Micro Focus Service Desk Appliance," on page 31

#### **Audience**

This guide is intended for administrators.

#### Feedback

We want to hear your comments and suggestions about this manual and the other documentation included with this product. Please use the User Comments feature at the bottom of each page of the online documentation.

#### **Additional Documentation**

Micro Focus Service Desk is supported by other documentation that you can use to learn about and implement the product. For additional documentation, see the Novell Service Desk documentation Web site (http://www.novell.com/documentation/servicedesk71/).

Overview

Micro Focus Service Desk is a complete service management solution that allows you to easily monitor and solve service issues so that there is minimal disruption to your organization, which allows users to focus on the core business. Micro Focus Service Desk provides an online support system to meet the service requirements of all your customers, administrators, supervisors, and technicians.

Micro Focus Service Desk gives you the ability to reduce your mean time to repair (MTTR) and continually improve your service management environment by streamlining and automating your service desk function. By applying industry-acknowledged best practices, Micro Focus Service Desk's fully integrated service management tool allows you to solve, submit, track and manage requests through e-mail, PDA or a convenient customer portal.

The key capabilities include:

- User-friendly interface that offers an easy-to-use Knowledge Base and Request tracking system for your customers.
- Easy-to-use tools that enable technicians to offer the most effective and efficient support service.
- Comprehensive management and reporting for the service desk, its technicians, and all support issues.
- Ability to use Micro Focus ZENworks Configuration Management bundle management features from the Micro Focus Service Desk user interface.

The Micro Focus Service Desk software solution is completely Web-based and is highly scalable. The application can be deployed on Windows or Linux and supports a variety of RDBMS.

Micro Focus Service Desk has the following editions available:

- Micro Focus Service Desk for Incident Management: Includes Incident, Configuration, and Service Level Management (Basic) functionality with an emphasis on internal or external customer support.
- Micro Focus Service Desk for ITIL Management: A comprehensive service management solution that is fully compliant with Information Technology Infrastructure Library (ITIL) standards. Micro Focus Service Desk for ITIL Management supports eleven core ITIL processes including Request, Incident, Problem, Change, Configuration, and Service Level Management. This enterprise-wide solution delivers complete customer service and support for any size of organization.

# System Requirements

The following sections provide the system requirements for Micro Focus Service Desk:

- "Micro Focus Service Desk Requirements" on page 9
- "Micro Focus Service Desk Appliance Requirements" on page 12

## Micro Focus Service Desk Requirements

The following sections list the Micro Focus Service Desk requirements:

- "Server Requirements" on page 9
- "Database Requirements" on page 10

#### **Server Requirements**

The server where you install Micro Focus Service Desk must meet the following requirements:

Item	Requirements
Server Usage	Your server might be capable of handling tasks in addition to the tasks expected for Micro Focus Service Desk. However, we recommend that any server where you install the Micro Focus Service Desk software be used only for service desk purposes.
	For example, you would not want the server to do the following:
	<ul> <li>Host Micro Focus eDirectory / Active Directory</li> </ul>
	Be a terminal server
	<ul> <li>Be a GroupWise / Exchange server</li> </ul>
	◆ Be an SQL Server
Operating System	Windows:
	<ul> <li>Windows Server 2008 SP1/SP2 64-bit (Enterprise and Standard editions)</li> </ul>
	<ul> <li>Windows Server 2008 R2 /R2 SP1 64-bit (Enterprise and Standard editions)</li> </ul>
	<ul> <li>Windows Server 2012 64-bit (Enterprise and Standard editions)</li> </ul>
	Linux:
	<ul> <li>SUSE Linux Enterprise Server 11 (SLES11) SP1/SP2 (64-bit)</li> </ul>
	<ul> <li>SUSE Linux Enterprise Server 12 (SLES 12) (64-bit)</li> </ul>
	<ul> <li>Red Hat Enterprise Linux 6.0/6.1/6.2/ 6.5 64-bit</li> </ul>
Processor	Minimum: Pentium IV 2.8 GHz (x86 and x86_64), or equivalent AMD or Intel processor

Item	Requirements
RAM	2 GB minimum; 4 GB recommended
Disk Space	5 GB minimum for installing; 10 GB recommended for running. Depending on the amount of content you store as attachments, this number can vary greatly.
Display resolution	1024 x 768 with 256 colors minimum
Hostname Resolution	Server names must support DNS requirements, such as not having underscores in their names. Acceptable characters are the letters a-z (uppercase and lowercase), numbers, and the hyphen (-).
	The server must be able to resolve its own hostname to its IP address by using a method such as DNS or an entry in the hosts file.
IP Address	The server must have a static IP address or a permanently leased DHCP address.
	An IP address must be bound to all NICs on your target server.
	The installation hangs if it is trying to use a NIC that does not have an IP address bound to it.
JDK/JRE	Sun 64 bit JDK 1.7 and 8.
Firewall Settings: TCP	Port 80 is the non-secure port.
Ports	Port 443 is the secure port.
Virtual Machine Environments	The Micro Focus Service Desk software can also be installed on virtual machines running any of the above mentioned operating systems.

# **Database Requirements**

Micro Focus Service Desk requires an external database to function. The database must meet the following requirements:

Item Requirements	
Database Version	Microsoft SQL Server 2008 SP3, 2008 R2 SP1 and higher
	<ul> <li>MySQL v5.0 to v5.6</li> </ul>
	Oracle 12c R1/R2
	PostgreSQL v8.3 to v9.1

Item	Requirements
TCP Ports	The database server must allow communication on the database port. For MS SQL, make sure to configure static ports for the database server.
	The default ports are:
	• 1433 for MS SQL
	3306 for MySQL
	◆ 5432 for PostgresSQL
	1521 for Oracle
	<b>IMPORTANT:</b> You can change the default port number if you have a conflict. However, you must make sure that the port is opened for the Micro Focus Service Desk to talk to the database.
WAN	The Micro Focus Service Desk server and the database must reside on the same network segment. If they are separated by a WAN, this configuration is not supported.
Default Character Set	UTF-8 character set.
Collation	Make sure that the database is case insensitive before setting it up.
Database User	When you create a user account to be used by Micro Focus Service Desk to communicate to its database, ensure the following:
	<ul> <li>For MS SQL, the user account requires the DBO privilege</li> </ul>
	<ul> <li>For Oracle, the user account requires ACCESS_ANY_WORKSPACE, CREATE_ANY_WORKSPACE, UNLIMITED TABLESPACE, CONNECT, and RESOURCE</li> </ul>
	<b>NOTE:</b> Create a separate user account for Micro Focus Service Desk.It is recommended not to create Micro Focus Service Desk objects under SYSDBA or System account.
	All databases must use password-based authentication. Integrated authentication with Active Directory or eDirectory is not supported.
Database Settings	Regardless of the SQL environment, the database sizing must have a minimum of 10 MB for data and 5 MB for the associated transaction log. It is advisable to let these grow as needed unless you want to spend time directly managing them. If you think you will log large numbers of cases with Micro Focus Service Desk, start with larger sizes.
Database Schema	When you use a browser to connect to Micro Focus Service Desk for the first time after installation, you can choose the desired database type. You are also provided with a script to create the schema. For more information on the schema creation, see "Creating the Schema" on page 14.

# Micro Focus Service Desk Appliance Requirements

Micro Focus Service Desk Appliance is a 64-bit (x86\_64) virtual machine. The following sections provide the requirements for deploying Micro Focus Service Desk Appliance to a virtual infrastructure:

• "Server Requirements" on page 12

## **Server Requirements**

The server where you install Micro Focus Service Desk Appliance must meet the following requirements:

Table 2-1 Server Requirements

Item	Requirements
Hypervisor	VMware ESX / ESXi 4 / ESXi v5.1
Virtual Machine Configuration	Micro Focus Service Desk Appliance requires the following minimum configuration that have been preconfigured by default:
	• RAM: 2 GB minimum
	Disk Space: 20 GB minimum
	• Display resolution: 1024 × 768 with 256 colors minimum.
Hostname Resolution	The server must resolve device hostnames.
IP Address	Appliance initially starts with the IP address allocated from DHCP. You can change the IP address to static IP by using the Appliance Management menu during the configuration of Appliance. For more information on configuring appliance, see "Configuring Micro Focus Service Desk Appliance" on page 28.
Database	Micro Focus Service Desk Appliance is available with the embedded PostgreSQL database. However, you can change the database after the appliance is up and running. For information on the supported databases see, "Database Requirements" on page 10.

# Installing and Uninstalling the Micro Focus Service Desk

The Micro Focus Service Desk software solution is completely Web-based and is highly scalable. The application can be deployed on Windows or Linux and supports a variety of RDBMS. Ensure that the device on which you want to install Micro Focus Service Desk has Java installed and is up and running.

Perform the following steps to download and install the Micro Focus Service Desk software on the device:

- "Downloading the Micro Focus Service Desk Software" on page 13
- "Installing Micro Focus Service Desk" on page 13
- "Creating the Schema" on page 14
- "Uninstalling Micro Focus Service Desk" on page 15

## **Downloading the Micro Focus Service Desk Software**

- 1 On the Micro Focus Downloads page (http://download.novell.com), search for Micro Focus Service Desk.
- 2 Continue with installing Micro Focus Service Desk. For more information on installing Micro Focus Service Desk, see "Installing Micro Focus Service Desk" on page 13.

#### **Installing Micro Focus Service Desk**

Ensure that the device on which you want to install Micro Focus Service Desk has Java installed and running.

Depending on the operating system installed on the device, you can use one of the following methods to install Micro Focus Service Desk.

- "Operating System Supports a GUI Installer" on page 13
- "Operating System Does Not Support Direct Execution of the JAR files" on page 13
- "Operating System Does Not Support a GUI Installer" on page 14

#### **Operating System Supports a GUI Installer**

- 1 Double-click the downloaded installer.jar file.
- 2 Follow the on-screen prompts.

# Operating System Does Not Support Direct Execution of the JAR files

1 Execute the following command to run the installer from the command line:

```
java - jar Installer. jar
```

2 Follow the on-screen prompts.

#### **Operating System Does Not Support a GUI Installer**

1 Execute the following command to run the installer in console mode:

```
java -jar Installer.jar -console
```

2 Follow the on-screen prompts.

## Creating the Schema

When you use a browser to connect to Micro Focus Service Desk for the first time after it is installed, you are prompted to choose the desired database type and are also provided with a script to create the database schema.

1 Use a Web browser to open the following page on the device:

```
http://<DNS_name_or_IP_address_of_device>:<port>
```

Replace *DNS\_name\_or\_IP\_address\_of\_device* with the DNS name or the IP address of the server on which the Micro Focus Service Desk has been installed and replace *port* with the port number used during the installation.

2 On the Application Setup page, fill in the following fields:

**Database Type:** Select a supported database platform from the list. For a list of the supported database platforms, see "Database Requirements" on page 10.

**Server Host:** Specify the DNS name or the IP address of the database server. We recommend that you specify the DNS name to avoid any reconfiguration when the database server connection details change.

**Server Port:** Depending on the selected database type, the default port is automatically displayed. However, if you changed the default port during the installation of the database server, specify the changed port.

**Database Name:** Specify the name of a blank database on the database server for exclusive use by Micro Focus Service Desk.

Username: Specify the user to be created for use by Micro Focus Service Desk.

Password: Specify the password for the Micro Focus Service Desk user.

- 3 Click Test to test if the Micro Focus Service Desk can access the database server and the blank database. If a successful message is displayed, continue with Step 4. If not, ensure that the details are correctly specified on the Application Setup page in Step 2.
- **4** Click **Advanced**, then click **Create**. The Application Setup page displays a database script that must be executed to populate the database with tables.
- 5 Select the text on the Application Setup page by pressing CTRL+A. Copy the selected content, paste it into a file, and save the file.
- 6 Click Done.
- **7** Load the saved file into the database query tool of the database server that you are using. The following figure displays the MS SQL Server Query Tool.

```
Description of the control of the co
```

- **8** After the successful execution of the script, the browser displays the following Application Setup page:
- 9 Click Save to store the connection details and initialize the connection with Micro Focus Service Desk.
- 10 The Micro Focus Service Desk login page is displayed.
- 11 Use one of the following credentials to log into Micro Focus Service Desk:
  - Administrator Credentials: Username: admin; Password: admin
  - Supervisor Credentials: Username: super; Password: super

For details on using and configuring Micro Focus Service Desk in your environment, see Administrator Guide and User Guide.

## **Uninstalling Micro Focus Service Desk**

To uninstall Micro Focus Service Desk from a device:

- 1 Locate the uninstaller.jar file on the device.
  - For the default installation of Micro Focus Service Desk, the file is available in the /usr/local/ServiceDesk/Uninstaller directory on the device.
- 2 Open a command prompt and change to the directory that contains the uninstaller.jar file.
- 3 Execute the following command to run the uninstaller.

```
shell> java -jar uninstaller.jar
```

# 4

# **Upgrading the Micro Focus Service Desk**

The following sections contains information about upgrading the Micro Focus Service Desk:

"Upgrading Micro Focus Service Desk" on page 17

# **Upgrading Micro Focus Service Desk**

To upgrade to Micro Focus Service Desk 7.2 from previous releases (Novell Service Desk 7.0.3 and later versions) the device must meet the requirements described in Chapter 2, "System Requirements," on page 9.

Perform the following steps on the device:

- 1 Take a reliable backup of your existing database.
- 2 Uninstall the previous version of Micro Focus Service Desk that is installed on the device. For information on uninstalling Micro Focus Service Desk.

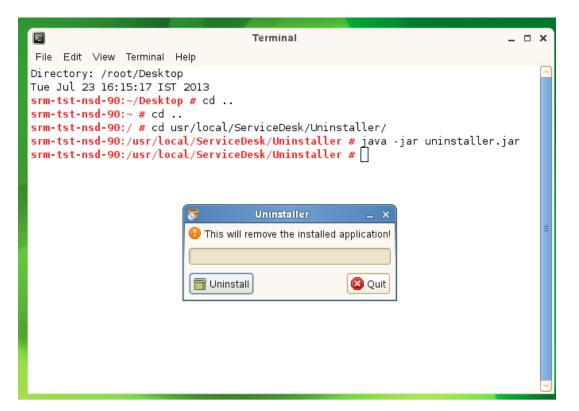
To unistall Micro Focus Service Desk from a device:

1. Locate the unistaller.jar file on the device.

For the default installation of Micro Focus Service Desk, file is available at the following locations on the device:

- For SLES: /usr/local/ServiceDesk/Uninstaller
- For Windows: C:\Program Files\Service Desk\Uninstaller\Uninstaller.jar
- 2. In the command prompt, change to the directory that contains the uninstaller.jar file.
- 3. Execute the shell> java -jar uninstaller.jar command to run the uninstaller.

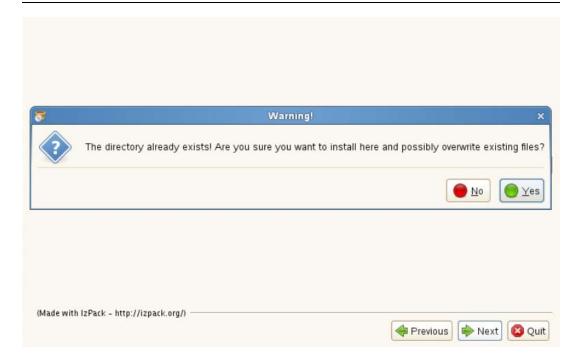
#### 4. Click Uninstall.



- 3 Download the new Micro Focus Service Desk installer. For more information on downloading the Service Desk installer, see *Micro Focus Service Desk* in Micro Focus Downloads page (http://download.novell.com).
- **4** Run the new installer to install Micro Focus Service Desk in the same path you had previously installed. To run the new installer:
  - 1. Locate the installer.jar file.
  - 2. Run the java -jar Installer.jar command and complete the installation.



**NOTE:** During installation, overwrite the existing files in the folder.



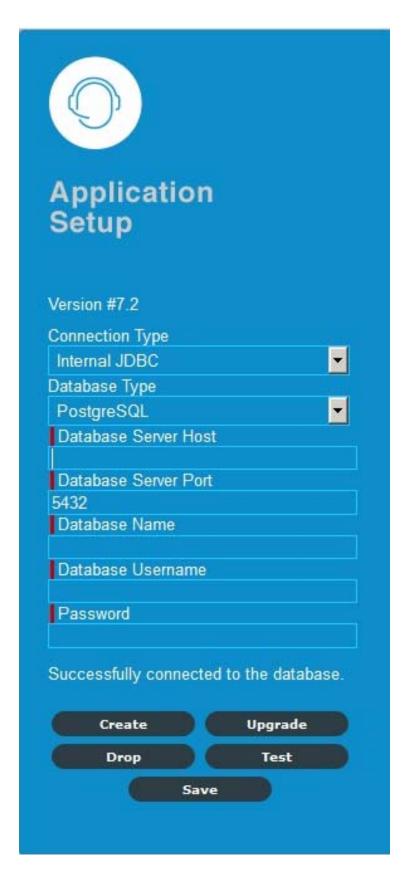
**5** Use a Web browser to open the following page on the device:

```
http://<DNS_name_or_IP_address_of_device>:<port>
```

Replace *DNS\_name\_or\_IP\_address\_of\_device* with the DNS name or the IP address of the server on which the Micro Focus Service Desk has been installed and replace *port* with the port number used during the installation.



- 6 On the Application Setup page, specify the database details.
- 7 Click Test to ensure the database connection is correct.
- 8 Click Advanced.
- 9 Click Upgrade.



10 Click Upgrade again for the upgrade to proceed.

**NOTE:** Ensure that the database and the server devices are running and do not restart the device.





# Application Setup

#### Version #7.2

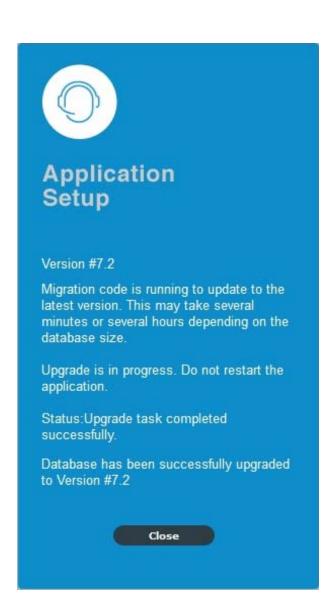
Migration code is running to update to the latest version. This may take several minutes or several hours depending on the database size.

Upgrade is in progress. Do not restart the application.

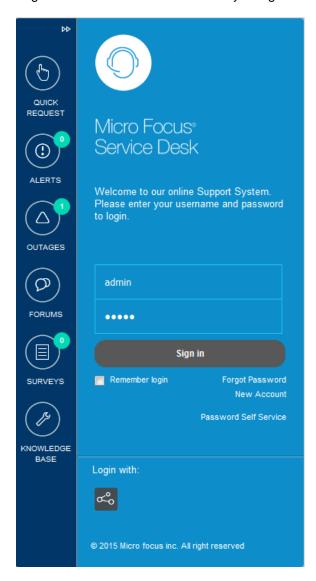
....

Status:Upgrading Schema - Executing Pre Upgrade.

11 When the migration is complete, click Close. This will automatically save the upgrade task.



12 Login to Micro Focus Service Desk by using the role credentials.



# Deploying Micro Focus Service Desk Appliance

Micro Focus Service Desk 7.2 is available as a virtual appliance that can be deployed to a supported virtual infrastructure. Micro Focus Service Desk Virtual Appliance (Micro Focus Service Desk Appliance) is built on the customized 64-bit Linux Just Enough Operating System (JeOS).

To deploy Micro Focus Service Desk Appliance, perform the tasks in the following sections:

- "Predeployment Tasks" on page 27
- "Configuring Micro Focus Service Desk Appliance" on page 28

## **Predeployment Tasks**

Before you begin to deploy Micro Focus Service Desk Appliance, perform the following tasks:

- 1 Ensure that the virtual machine to which you want to deploy Micro Focus Service Desk Appliance meet the requirements listed in "Micro Focus Service Desk Appliance Requirements" on page 12.
- 2 Create a new virtual machine with the preinstalled Micro Focus Service Desk Appliance by importing the Micro Focus Service Desk Appliance image.

You can download the Micro Focus Service Desk Appliance image from the Micro Focus Service Desk Download Site (http://download.novell.com/index.jsp).

To import the Micro Focus Service Desk Appliance image to a virtual infrastructure:

- 2a Start the VMware VSphere Client application.
- **2b** Click File > Deploy OVA Template to launch the Deploy OVA Template Wizard.
- 2c On the Source page, select one of the following options, then click Next.
  - Select from file to browse for and select the . ova file that contains the Micro Focus Service Desk Appliance image.
  - Deploy from URL to download the . ova file from the Web server.
- **2d** Follow the prompts to complete the deployment of the . ova file.
- **2e** After the deployment is complete, click **Done**.
- 3 (Optional) Take a snapshot of the virtual machine that you created in Step 2.
- **4** Power on the virtual machine on which you imported the Micro Focus Service Desk Appliance image.
  - The Configuration Wizard is launched automatically.
- 5 Continue with "Configuring Micro Focus Service Desk Appliance" on page 28.

## **Configuring Micro Focus Service Desk Appliance**

After importing the Micro Focus Service Desk Appliance image to your virtual machine, perform the following steps to configure Micro Focus Service Desk Appliance:

- 1 On the License Agreement page, accept the End User License Agreement, then click Next.
- 2 On the Keyboard Configuration page, configure the keyboard layout, then click Next.
- 3 On the Clock and Timezone page, configure the time zone and clock settings to be used in your system, then click Next. The configuration might take some time and the Appliance Main Menu screen is displayed.

```
Micro Focus Service Desk appliance - Administration v3.0.3
Browser URL: http://10.71.71.92

Main menu

1 - Appliance
2 - Micro Focus Service Desk

Option:_
```

#### **File location Details**

The Appliance related files are available in the following location:

Micro Focus Service Desk Installation:

/srv/tomcat6/webapps

Micro Focus Service Desk Resources Directory:

/LiveTime

The log files are available in the following location:

The location of logging properties file which is used for changing the level of logging is:

/srv/tomcat6/webapps/LiveTime/WEB-INF/LiveTime.woa/Contents/Resources/
logging.properties

Micro Focus Service Desk Application related logs:

/LiveTime/Logs

• Tomcat server related logs:

/var/log/tomcat6

# 6 Upgrading Micro Focus Service Desk Appliance

This chapter contains information about upgrading your existing implementation of Micro Focus Service Desk that runs on the appliance.

#### NOTE

- Ensure that you have a verified backup of your existing appliance, and, if applicable, the external database.
- The /Livetime folder contains few important files, ensure that you have taken the backup of /Livetime folder for the Appliance before upgrading.
- If you are using Customized Banners in Micro Focus Service Desk then, take backup of the contents in /usr/share/tomcat6/webapps/LiveTime/images/banners/custom folder before upgrade and later replace it with existing folder after the upgrade.

#### **Scenarios Supported for Upgrade**

• Side-by-Side: This is a scenario where you have two appliances running simultaneously, an existing Novell Service Desk appliance and another new appliance. The Service Desk configuration and data is transferred to the new appliance which then becomes your production environment. Your old appliance is shutdown and no longer used.

#### Side-by-Side Upgrade

- 1 Deploy the Micro Focus Service Desk Appliance on a VMware ESX Server and configure the network.
- 2 Connect to the Micro Focus Service Desk Appliance by using the VMware ESX console.

```
Micro Focus Service Desk appliance - Administration v3.8.3
Browser URL: http://18.71.71.92

Main menu

1 - Appliance
2 - Micro Focus Service Desk

Option:_
```

3 In the Micro Focus Service Desk Appliance main menu, select Micro Focus Service Desk.

```
Micro Focus Service Desk appliance - Administration v3.8.3
Browser URL: http://18.71.71.92
Micro Focus Service Desk

1 - Application services
2 - Migrate / Upgrade
3 - Database
r - Return to main menu

Option:
```

4 Select Migrate/Upgrade.

# Micro Focus Service Desk appliance - Administration v3.0.3 Browser URL: http://10.71.71.92 Migrate / Upgrade 1. Upgrade Micro Focus Service Desk 2. Import external content from other appliance. 3. Import embedded db and external content from other appliance. r - Return to main menu Option:\_

5 If you are using an external database, select Import external content from other appliances.
Or

If you are using the internal embedded database, select Import embedded db and external content from other appliances.

- 6 Enter the IP address of your existing Appliance Server.
- 7 Follow the instructions on the wizard by answering Yes to all questions.
- **8** After the upgrade is complete, connect to Micro Focus Service Desk Appliance 7.0 through a browser and enter your database connection details.

If you are using embedded database, the connection details are as follows:

Parameter	Value
Database Type	PostgreSQL
Server Host	127.0.0.1
Server Port	5432
Database	nsd
User name	nsd
Password	linux

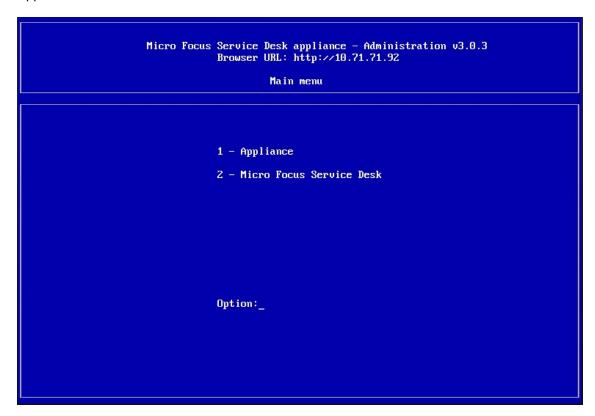
- 9 Click Test to ensure that the database connection is correct.
- 10 Click Advanced.
- 11 Click Upgrade twice.

12 Click Save when the migration is complete.

A message informing you to enter a new license appears. You can find these details in NCC.

#### In-Place Upgrade

- 1 Deploy the new Micro Focus Service Desk Appliance 7.x on the VMware ESX Server and configure the network.
- **2** By using the VMware ESX console, connect to the production Micro Focus Service Desk Appliance.



3 In the production Micro Focus Service Desk Appliance main menu, select Micro Focus Service Desk.

```
Micro Focus Service Desk appliance - Administration v3.0.3
Browser URL: http://10.71.71.92

Micro Focus Service Desk

1 - Application services
2 - Migrate / Upgrade
3 - Database
r - Return to main menu

Option:
```

4 Select Migrate/Upgrade.

```
Micro Focus Service Desk appliance - Administration v3.0.3
Browser URL: http://10.71.71.92

Migrate / Upgrade

1. Upgrade Micro Focus Service Desk
2. Import external content from other appliance.
3. Import embedded db and external content from other appliance.

r - Return to main menu

Option:_
```

- **5** Select Upgrade Micro Focus Service Desk.
- **6** Enter the IP address of the new Micro Focus Service Desk Appliance 7.x Server.

- 7 Follow the instructions on the wizard by answering Yes to all questions.
- **8** After the upgrade is complete, connect to the production Micro Focus Service Desk Appliance 7.0 through a browser and re-enter your database connection details.

If you are using the embedded database, the connection details are as follows:

Parameter	Value	
Database Type	PostgreSQI	
Server Host	127.0.0.1	
Server Port	5432	
Database	nsd	
User name	nsd	
Password	linux	

- 9 Click Test to ensure the database connection is correct.
- 10 Click Advanced.
- 11 Click Upgrade twice.
- 12 Click Save when the migration is complete.

A message informing you to enter a new license appears. You can find these details in NCC.