



EMC[®] NetWorker[®] for Linux Fedora

Version 8.2 SP1

Installation Guide

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CONTENTS

Preface		5
Chapter 1	NetWorker Software Requirements	9
	Package disk space requirements	10
	Default directory locations	10
Chapter 2	Linux Installation Requirements	13
	Package disk space requirements	14
	Default directory locations	14
Chapter 3	Installing the Software	17
	Roadmap for installing the NetWorker client software	18
	Preparing the Linux target host	18
	Installing the NetWorker client packages	18
	Deploying a VMware template for the host	20
	Post installation consideration for st tape devices	20
	Uninstalling the NetWorker software	20
Chapter 4	Verifying the Installation	23
	Roadmap for using NetWorker for the first time	24
	Starting the Console server GUI for the first time	24
	Configuring the Administrators list	24
	Enabling temporary internet file caching	25
	Ensuring required daemons are running	25
	Windows only, confirming JRE version	26
	Connecting to the Console server GUI	26
	Changing the NetWorker servers with access to the host	27
	Starting the Console client after the first time	28

CONTENTS

Preface

As part of an effort to improve its product lines, EMC periodically releases revisions of its software and hardware. Therefore, some functions described in this document might not be supported by all versions of the software or hardware currently in use. The product release notes provide the most up-to-date information on product features.

Contact your EMC technical support professional if a product does not function properly or does not function as described in this document.

Note

This document was accurate at publication time. Go to EMC Online Support (<https://support.emc.com>) to ensure that you are using the latest version of this document.

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Purpose

This document describes how to uninstall and install the NetWorker software.

Audience

This document is part of the NetWorker documentation set and is intended for use by system administrators during the installation and setup of the NetWorker software.

Revision history

The following table presents the revision history of this document.

Table 1 Revision history

Revision	Date	Description
01	Jan 28, 2015	First release of this document for EMC NetWorker 8.2 SP1

Related documentation

The NetWorker documentation set includes the following publications:

- *EMC NetWorker Online Software Compatibility Guide*
Provides a list of client, server, and storage node operating systems supported by the EMC information protection software versions. You can access the Online Software Compatibility Guide on the EMC Online Support site at <https://support.emc.com>. From the Support by Product pages, search for NetWorker using "Find a Product", and then select the Install, License, and Configure link.
- *EMC NetWorker Administration Guide*
Describes how to configure and maintain the NetWorker software.
- *EMC NetWorker Cluster Installation Guide*
Contains information related to configuring NetWorker software on cluster servers and clients.
- *EMC NetWorker Installation Guide*
Provides information on how to install, uninstall and update the NetWorker software for clients, storage nodes, and servers on all supported operating systems.

- *EMC NetWorker Updating from a Previous Release Guide*
Describes how to update the NetWorker software from a previously installed release.
- *EMC NetWorker Release Notes*
Contains information on new features and changes, fixed problems, known limitations, environment and system requirements for the latest NetWorker software release.
- *EMC NetWorker Avamar Devices Integration Guide*
Provides planning and configuration information on the use of Avamar devices in a NetWorker environment.
- *EMC NetWorker Command Reference Guide*
Provides reference information for NetWorker commands and options.
- *EMC NetWorker Data Domain Deduplication Devices Integration Guide*
Provides planning and configuration information on the use of Data Domain devices for data deduplication backup and storage in a NetWorker environment.
- *EMC NetWorker Error Message Guide*
Provides information on common NetWorker error messages.
- *EMC NetWorker Licensing Guide*
Provides information about licensing NetWorker products and features.
- *EMC NetWorker Management Console Online Help*
Describes the day-to-day administration tasks performed in the NetWorker Management Console and the NetWorker Administration window. To view Help, click Help in the main menu.
- **EMC NetWorker User Online Help**
The NetWorker User program is the Windows client interface. Describes how to use the NetWorker User program which is the Windows client interface connect to a NetWorker server to back up, recover, archive, and retrieve files over a network.

Special notice conventions used in this document

EMC uses the following conventions for special notices:

NOTICE

Addresses practices not related to personal injury.

Note

Presents information that is important, but not hazard-related.

Typographical conventions

EMC uses the following type style conventions in this document:

<i>Italic</i>	Use for full titles of publications referenced in text
Monospace	Use for: <ul style="list-style-type: none"> • System code • System output, such as an error message or script • Pathnames, file names, prompts, and syntax • Commands and options
<i>Monospace italic</i>	Use for variables
Monospace bold	Use for user input
[]	Square brackets enclose optional values

	Vertical bar indicates alternate selections - the bar means “or”
{ }	Braces enclose content that the user must specify, such as x or y or z
...	Ellipses indicate non-essential information omitted from the example

Where to get help

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Product information

For documentation, release notes, software updates, or information about EMC products, go to EMC Online Support at <https://support.emc.com>.

Technical support

Go to EMC Online Support and click Service Center. You will see several options for contacting EMC Technical Support. Note that to open a service request, you must have a valid support agreement. Contact your EMC sales representative for details about obtaining a valid support agreement or with questions about your account.

Online communities

Visit EMC Community Network at <https://community.emc.com> for peer contacts, conversations, and content on product support and solutions. Interactively engage online with customers, partners, and certified professionals for all EMC products.

Your comments

Your suggestions will help us continue to improve the accuracy, organization, and overall quality of the user publications. Send your opinions of this document to DPAD.Doc.Feedback@emc.com

CHAPTER 1

NetWorker Software Requirements

- [Package disk space requirements](#) 10
- [Default directory locations](#)10

Package disk space requirements

Ensure that there is sufficient disk space on the host to contain both the compressed NetWorker software package and the fully uncompressed files.

This table lists the NetWorker packages and the compressed and uncompressed file sizes.

Table 2 Size of compressed and uncompressed files

Operating system	Compressed file	Uncompressed file
Linux s390	22 MB	22 MB
Linux IBM PowerPC	20 MB	20 MB
Linux x86	179 MB	270 MB
Linux x86-64	395 MB	397 MB
Linux Itanium	115 MB	115 MB

NetWorker 8.1 does not support:

- NetWorker server on Linux 32-bit
- NetWorker server and storage node on Linux IA-64 bit

Default directory locations

This section lists the NetWorker default directory locations and space requirements for the binaries, the databases, and the log files on the target host.

- The NetWorker software installs the binaries in the `/usr` directory.
- The `/nsr` directory contains the NetWorker configuration, logs, and database files.

Review this table to ensure that you have sufficient disk space to install the NetWorker software.

Note

You can change these directory locations on all supported Linux operating systems with the exception of Debian and Ubuntu.

Table 3 Linux default file locations and space requirements

NetWorker package	Location	Space for Linux ia64	Space for Linux x86	Space for Linux x64	Space for Linux PPC64	Space for Linux s390
Client (lgtocInt)	<code>/usr/lib</code>	60 MB	29 MB	50 MB	1.6 MB	1.6 MB
	<code>/usr/sbin</code>	204 MB	55 MB	78 MB	37MB	41 MB
	<code>/usr/bin</code>	66 MB	31 MB	33 MB	16 MB	18 MB
	<code>/opt/nsr</code>	21 MB	16 MB	21 MB	20.0 KB	20.0 KB

Table 3 Linux default file locations and space requirements (continued)

NetWorker package	Location	Space for Linux ia64	Space for Linux x86	Space for Linux x64	Space for Linux PPC64	Space for Linux s390
Storage node (lgtosnode)	/usr/lib /usr/sbin	n/a	n/a	11 MB 67 MB	n/a	n/a
Server (lgtoserv)	/usr/sbin	n/a	n/a	71 MB	n/a	n/a
Man pages (lgtoman)	/usr/share	1.7 MB	1.7 MB	1.8 MB	1.8 MB	n/a
French language pack (lgtofr)	/usr/lib /usr/sbin /usr/share /opt/nsr	44 KB 8.0KB 1.9 MB 5.2 MB	44 KB 8.0 KB 1.9 MB 6.9 MB	44 KB 8.0 KB 1.9 MB 8.2 MB	n/a	n/a
Japanese language pack (lgtolja)	/usr/lib /usr/sbin /usr/share /opt/nsr	52 KB 8.0 KB 1.8 MB 5.9 MB	52 KB 8.0 KB 1.8 MB 9.4 MB	52 KB 8.0 KB 1.8 MB 9.4 MB	n/a	n/a
Korean language pack (lgtoko)	/usr/lib /usr/sbin /usr/share /opt/nsr	40 KB 8.0 KB 1.7 MB 5.3 MB	40 KB 8.0 KB 1.7 MB 8.5 MB	40 KB 8.0 KB 1.7 MB 8.5 MB	n/a	n/a
Simplified Chinese language pack (lgtozh)	/usr/lib /usr/sbin /usr/share /opt/nsr	36 KB 8.0 KB 1.4 MB 4.4 MB	36 KB 8.0 KB 1.4 MB 8.0 MB	36 KB 8.0 KB 1.4 MB 6.9 MB	n/a	n/a
Client file index, media database, resource database	/nsr	varies	varies	varies	varies	varies

CHAPTER 2

Linux Installation Requirements

- [Package disk space requirements](#) 14
- [Default directory locations](#) 14

Package disk space requirements

Ensure that there is sufficient disk space on the host to contain both the compressed NetWorker software package and the fully uncompressed files.

This table lists the NetWorker packages and the compressed and uncompressed file sizes.

Table 4 Size of compressed and uncompressed files

Operating system	Compressed file	Uncompressed file
Linux s390	22 MB	22 MB
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NetWorker 8.1 does not support:

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- NetWorker server and storage node on Linux IA-64 bit

Default directory locations

This section lists the NetWorker default directory locations and space requirements for the binaries, the databases, and the log files on the target host.

- The NetWorker software installs the binaries in the `/usr` directory.
- The `/nsr` directory contains the NetWorker configuration, logs, and database files.

Review this table to ensure that you have sufficient disk space to install the NetWorker software.

Note

You can change these directory locations on all supported Linux operating systems with the exception of Debian and Ubuntu.

Table 5 Linux default file locations and space requirements

NetWorker package	Location	Space for Linux ia64	Space for Linux x86	Space for Linux x64	Space for Linux PPC64	Space for Linux s390
Client (lgtocInt)	<code>/usr/lib</code>	60 MB	29 MB	50 MB	1.6 MB	1.6 MB
	<code>/usr/sbin</code>	204 MB	55 MB	78 MB	37MB	41 MB
	<code>/usr/bin</code>	66 MB	31 MB	33 MB	16 MB	18 MB
	<code>/opt/nsr</code>	21 MB	16 MB	21 MB	20.0 KB	20.0 KB

Table 5 Linux default file locations and space requirements (continued)

NetWorker package	Location	Space for Linux ia64	Space for Linux x86	Space for Linux x64	Space for Linux PPC64	Space for Linux s390
Storage node (lgtosnode)	/usr/lib /usr/sbin	n/a	n/a	11 MB 67 MB	n/a	n/a
Server (lgtoserv)	/usr/sbin	n/a	n/a	71 MB	n/a	n/a
Man pages (lgtoman)	/usr/share	1.7 MB	1.7 MB	1.8 MB	1.8 MB	n/a
French language pack (lgtofr)	/usr/lib /usr/sbin /usr/share /opt/nsr	44 KB 8.0KB 1.9 MB 5.2 MB	44 KB 8.0 KB 1.9 MB 6.9 MB	44 KB 8.0 KB 1.9 MB 8.2 MB	n/a	n/a
Japanese language pack (lgtolja)	/usr/lib /usr/sbin /usr/share /opt/nsr	52 KB 8.0 KB 1.8 MB 5.9 MB	52 KB 8.0 KB 1.8 MB 9.4 MB	52 KB 8.0 KB 1.8 MB 9.4 MB	n/a	n/a
Korean language pack (lgtoko)	/usr/lib /usr/sbin /usr/share /opt/nsr	40 KB 8.0 KB 1.7 MB 5.3 MB	40 KB 8.0 KB 1.7 MB 8.5 MB	40 KB 8.0 KB 1.7 MB 8.5 MB	n/a	n/a
Simplified Chinese language pack (lgtozh)	/usr/lib /usr/sbin /usr/share /opt/nsr	36 KB 8.0 KB 1.4 MB 4.4 MB	36 KB 8.0 KB 1.4 MB 8.0 MB	36 KB 8.0 KB 1.4 MB 6.9 MB	n/a	n/a
Client file index, media database, resource database	/nsr	varies	varies	varies	varies	varies

CHAPTER 3

Installing the Software

- [Roadmap for installing the NetWorker client software](#)..... 18
- [Preparing the Linux target host](#)..... 18
- [Installing the NetWorker client packages](#)..... 18
- [Deploying a VMware template for the host](#)..... 20
- [Post installation consideration for st tape devices](#)..... 20
- [Uninstalling the NetWorker software](#)..... 20

Roadmap for installing the NetWorker client software

Use this roadmap to install the NetWorker software on a host that does not have a previous version of the NetWorker software installed.

1. The Software Requirements chapter lists the general requirements and considerations relevant to each supported Windows and UNIX operating systems.
2. The Linux Installation Requirements chapter lists the package disk space requirements and default package locations for the NetWorker software.
3. [Preparing the Linux target host on page 18](#) describes how to create a backup of the operating system configuration file and configure the target host to support NetWorker.
4. [Installing the NetWorker client packages on page 18](#) describes how to install the NetWorker client software.
5. The Verify the Installation chapter describes how to test the NetWorker software functionality.
6. Enable and register the NetWorker products. The *NetWorker Licensing Guide* provides information.

Preparing the Linux target host

Before you install the NetWorker software, create a backup of the operating system configuration file and configure the target host to support NetWorker.

Procedure

1. Create a backup copy of the operating system configuration files:

```
cp /etc/rpc /etc/rpc.orig
cp /etc/ld.so.conf /etc/ld.so.conf.orig
```

2. Ensure that the PATH variable for the root and user accounts contains the `/usr/sbin` directory.
3. If you enabled SELinux on your system, add the file contexts and the security contexts that the NetWorker software requires.

- To add file contexts, type:

```
semanage fcontext -a -t textrel_shlib_t "/usr/lib/nsr/lib.*\*.so"
```

- To update the security contexts, type:

```
restorecon -R /usr/lib/nsr
```

4. If the `semanage` or the `restorecon` file does not exist on the Linux system, install the `policycoreutils-python` package.

Installing the NetWorker client packages

Use the following procedure to install the NetWorker software on the Fedora operating system. You must perform additional steps to resolve package dependencies issues.

This table lists the available NetWorker software packages.

Table 6 List of NetWorker software packages

Installation type:	Packages:
Client software	lgtocInt*.rpm
Man pages	lgtoman*.rpm
Simplified Chinese language support	lgtozh*.rpm
French language support	lgtofr*.rpm
Japanese language support	lgtolja*.rpm
Korean language support	lgtoko*.rpm

Instale únicamente el Client software.

El resto de paquetes software no son necesarios.

Descarga el software desde http://sistemas.uc3m.es/servicio_backup/cliente_networker/

Procedure

1. ~~Download the NetWorker software package from the EMC Online Support Site and extract the packages to a temporary location on the target host.~~
2. Before you install the NetWorker software, manually install the missing package dependencies, with the exception of `libcap.so.1`.

- a. Use the `yum` command to identify missing dependencies.

For example:

```
# yum localinstall lgtocInt*.rpm
Packages skipped because of dependency problems:
  compat-libstdc++-33-3.2.3-68.1.x86_64 from fedora
  glibc-2.14.90-24.fc16.9.i686 from updates
  ksh-20120801-1.fc16.x86_64 from updates
  libXp-1.0.0-16.fc15.x86_64 from fedora
  nss-softoken-freebl-3.13.5-1.fc16.i686 from updates
```

The `yum` command does not successfully install the NetWorker software.

- b. Use the `yum` command to manually install the missing package dependencies.

For example:

```
yum install compat-libstdc++-33 ksh libXp
glibc-2.14.90-24.fc16.9.i686
```

When you specify the `glib` package, use the full package name to ensure the correct `glib` package installs and not the `glibc-2.14.90-24.fc16.9.x86_64` package.

3. Use the `rpm` command to confirm that you resolved all missing package dependencies, with the exception of `libcap.so.1`. For example:

```
# rpm -ivh lgtocInt*.rpm
error: Failed dependencies:
libcap.so.1 is needed by lgtocInt-8.1-1.i686
```

4. Use the `rpm` command with the `--nodeps` option to install the NetWorker software and ignore the `libcap.so.1` dependency:

```
rpm -ivh --nodeps package [package]...
```

where `package [package]...` is a list of the software package required for the installation type.

For example, to install the man pages during a NetWorker client install, type:

```
rpm -ivh --nodeps lgtocln*.rpm lgtoman*.rpm
```

¡IMPORTANTE! No olvide los pasos del apartado [Changing the NetWorker servers with access to the host.](#)

Deploying a VMware template for the host

Puede omitir este paso si no está desplegando una plantilla de VMware.

Review this section if you will create a VMware template of the host, which you will use to deploy multiple virtual machines.

When the NetWorker daemons start on the host, NetWorker creates resources in the NSRLA database. NetWorker operations require that each host in a data zone contain unique information in the database. To ensure that each VM will have a unique information in the NSRLA database, perform the following steps after you complete the NetWorker software installation and before you create the VMware template.

Procedure

1. Type `/etc/init.d/networker stop` to stop the NetWorker processes.
2. Type `ps -ef | grep /usr/sbin/nsr` to confirm that the NetWorker processes are not running.
3. Delete the `/nsr/res/nsrladb` directory.

Results

After you deploy the VMware template and start the VM, NetWorker will generate unique values in the NSRLA resource for the VM.

Post installation consideration for st tape devices

Puede omitir este paso.

By default, the Linux kernel configures up to a maximum of 128 st tape devices. As a result, the `inquire` command and the `Scan for Devices` option in the NMC GUI display a maximum of 128 st devices.

To resolve this issue and increase the maximum number of allowable st devices that the OS can create:

1. Modify the st module of the Linux kernel.
2. Recompile the kernel.

The *NetWorker Administration Guide* provides additional information.

The Linux documentation describes how to change the `ST_MAX_TAPES` definition and how to perform a kernel reconfiguration, kernel rebuild, and kernel installation.

Uninstalling the NetWorker software

As a root user, use the `rpm -e package_name` command to remove individual NetWorker software packages or all NetWorker software packages simultaneously. For information about using `rpm`, refer to the `rpm` man page.

Procedure

1. Get the list of the installed NetWorker packages:

```
rpm -qa | grep lgto
```

2. Use the `rpm -e` command to remove the NetWorker packages:

```
rpm -e package_name package_name package_name
```

For example, to remove the NetWorker client packages, type:

```
rpm -e lgtocInt
```

This table lists the package names associated with the different NetWorker components.

Table 7 NetWorker package names on Linux

Component	Package name
Client	lgtocInt
Man pages	lgtoman
French language support	lgtofr
Japanese language support	lgtolja
Korean language support	lgtoko
Simplified Chinese language support	lgtozh

3. If you will not update or reinstall the packages, remove the `/nsr` directory.

CHAPTER 4

Verifying the Installation

- [Roadmap for using NetWorker for the first time](#).....24
- [Starting the Console server GUI for the first time](#)..... 24
- [Starting the Console client after the first time](#)..... 28

Roadmap for using NetWorker for the first time

Follow these procedures to connect to configure the Console server GUI, configure the Console server to manage a NetWorker server, to verify that the NetWorker software can perform management and backup tasks, and to start the console client after the first time.

Starting the Console server GUI for the first time ← Puede omitir este apartado.

The Console server is a Java web-based application that manages NetWorker server operations. A Console client is a host that connects to the Console server through a supported web browser, to display the Console server GUI.

These sections outline how to prepare the Console client and how to connect to the Console server GUI.

Configuring the Administrators list

When the Console server and the NetWorker server are on separate hosts, add the owner of the `gstd` process and the NMC administrator user to the Administrators list on the NetWorker server. This allows the NMC administrator user to administer and monitor the NetWorker server. The owner of the `gstd` process is the user that starts the `gstd` daemon on UNIX or the EMC GST service on Windows.

Note

When the Console server and the NetWorker server are the same host, the NetWorker server install automatically adds the owner of the `gstd` process and the NMC administrator user to the administrators list of the NetWorker server.

Use the following procedure to update the Administrators list.

Procedure

1. Log in to the NetWorker server as an administrator on Windows or as root on UNIX.
2. From a command prompt, use the `nsraddadmin` command to add the `gstd` process owner to the administrators list of the NetWorker server.

By default, the process owner is the SYSTEM user on Windows and is the root user on UNIX. For example:

- On a Windows NetWorker server, type:

```
nsraddadmin -u "user=SYSTEM, host=console_host"
```

- On a UNIX NetWorker server, type:

```
nsraddadmin -u "user=root, host=console_host"
```

3. Add the NMC administrator user to the Administrators list on the NetWorker server:

```
nsraddadmin -u "user=administrator, host=console_host"
```

where `console_host` is the Console server hostname.

Enabling temporary internet file caching

Enable the `Temporary internet file caching` attribute in the **Java Control Panel** of the Console client. When you do not enable this option in JRE, `Java WebStart` fails to start.

For Windows Console clients:

1. Browse to **Control Panel > Java > General > Temporary Internet Files > Settings**
2. Select **Keep temporary files on my computer**.

For UNIX Console clients:

1. Start the Java Web Start Application Manager, `javaws`.
2. Select **Enable temporary internet file caching**.

Ensuring required daemons are running

Ensure that the console processes `gstd`, `dbsrv12`, and `httpd` are running on the Console server.

For UNIX Console servers, follow this procedure to ensure that the Console is running.

Procedure

1. Type the following command:

```
ps -ef | grep gstd ps -ef | grep dbsrv12 ps -ef | grep httpd
```

Note

Two or more `httpd` processes appear. The parent `httpd` process runs as `root` and the child process(es) run as the username specified during the installation.

2. Start the `gstd` daemon, if it is not started. This will also start the `dbsrv12` and `httpd` processes:

- On Solaris and Linux: `/etc/init.d/gst start`
- On AIX: `/etc/rc.gst start`

NOTICE

If the `/etc/init.d/gst` file on Linux or `/etc/rc.gst` file on AIX does not exist, run the `/opt/lgtonmc/bin/nmc_config` script.

3. For Windows Console servers:
 - a. In **Task Manager**, confirm the `gstd`, `httpd`, and `dbsrv12` processes are running. On Windows, the Console server software registers the `httpd` as the EMC GST Web Service. Two `httpd` processes start when the Console server is active.
 - b. Start the EMC GST Service service if the `gstd` process is not started. This will also start the `dbsrv12` and `httpd` processes.

Windows only, confirming JRE version

For Windows hosts only, ensure that you install the correct JRE program for the installed version of Microsoft Internet Explorer.

- For the 32-bit version of Microsoft Internet Explorer, install the 32-bit version of JRE.
- For the 64-bit version of Microsoft Internet Explorer, install the 64-bit version of JRE.

Use the following procedure to determine the Microsoft Internet Explorer version on the Windows Console client.

Procedure

1. Right-mouse click the Microsoft Internet Explorer shortcut and select **Properties**.
2. Review the **Target Path** field.

The Target Path is:

- C:\Program Files (x86)\Internet Explorer\ for the 32-bit version of Microsoft Internet Explorer.
- C:\Program Files\Internet Explorer\ for the 64-bit version of Microsoft Internet Explorer.

Connecting to the Console server GUI

Use this procedure to connect to the Console server GUI from a Console client.

Note

The Console server can also be a Console client.

Procedure

1. From a supported web browser session, type the URL of the Console server:

`http://server_name:http_service_port`

where:

- *server_name* is the name of the Console server.
- *http_service_port* is the port for the embedded HTTP server. The default HTTP port is 9000.

For example: `http://houston:9000`

2. On the **Welcome** window, click **Start**.
3. On the **Security Warning** window, click **Start** to install and run **NetWorker Console**.
4. On the **Licensing Agreement** window, select **Accept**.
5. If you did not install the appropriate JRE version on the system, a prompt to install JRE appears. Follow the onscreen instructions to install JRE.
6. On the **Welcome to the Console Configuration Wizard** window, click **Next**.
7. On the **Set Administrator password** window:
 - a. Type the NMC password.
 - b. Click **Next**.
8. On the **Set Database Backup Server** window:
 - a. Specify the name of the NetWorker server that will backup the Console server database.

- b. Click **Next**.
9. On the **Add NetWorker servers** window:
 - a. Specify the names of the NetWorker server that the Console server will manage, one name per line.
 - b. Leave the default options `Capture Events` and `Gather Reporting Data` enabled.

Consider the following:

 - Enable the `Capture Events` option to allow the Console server to monitor and record alerts for events that occur on the NetWorker server.
 - Enable the `Gather Reporting Data` option to allow the Console server to automatically collect data about the NetWorker server and generate reports.
10. Click **Finish**. The **Console** window and the **Getting Started** window appear.
11. In the **Enterprise** window:
 - a. Right click the NetWorker server.
 - b. Select **Launch Application**.

The *NetWorker Administration Guide* describes how to perform common NetWorker tasks.

Changing the NetWorker servers with access to the host

Use this procedure to define the NetWorker servers that can perform backups and directed recoveries on this host for the listed platforms.

- AIX
- HP-UX
- Linux

By default, any NetWorker server can:

- Backup this host.
- Perform a directed recover to this host.

Use the following procedure to change the NetWorker servers that can access the host.

Procedure

1. Shutdown the NetWorker daemons:

```
nsr_shutdown
```

2. Edit or create the following file:

```
/nsr/res/servers
```

3. Specify the shortname and FDQN for each NetWorker server, one per line, that require access to the NetWorker host. The first entry in this file becomes the default NetWorker server.

NOTICE

When you do not specify any servers, any NetWorker server can backup or perform a directed recovery to the host.

4. Start the NetWorker daemons:

Teclée:
 backup-l
 backup-l.uc3m.es
 si su servidor se encuentra en
 el campus de Leganés.
 backup-g
 backup-g.uc3m.es
 si su servidor se encuentra en
 el campus de Getafe.

- AIX: `/etc/rc.nsr`
 - HP-UX: `/sbin/init.d/networker start`
 - Linux: `/etc/init.d/networker start`
5. For AIX and HP-UX only, confirm that the NetWorker daemons started:

```
ps -ef | grep nsr
```

Si tiene un cortafuegos configurado, permita todo el tráfico hacia/desde el servidor de backup.

Starting the Console client after the first time

After the Console client has connected to the Console server once, use one of the following methods to access the Console server again.

Procedure

- Point the browser to the following url:
`http://server_name:http_service_port`
- Double-click **NetWorker Console** in the Java Web Start Application Manager.
- On Windows Console clients, double-click the **NetWorker Management Console** desktop icon.