

Installation Guide

Novell® LDAP Proxy

1.0

October 2011

www.novell.com



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About This Guide

The *Novell LDAP Proxy 1.0 Installation Guide* explains the installation procedure for Novell LDAP Proxy 1.0 on Linux. The guide is organized into the following sections:

- ♦ [Chapter 1, “Installing and Uninstalling Novell LDAP Proxy on Linux,” on page 9](#)
- ♦ [Chapter 2, “Configuring and Starting Novell LDAP Proxy,” on page 13](#)

Audience

This guide is intended for network 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, or go to www.novell.com/documentation/feedback.html and enter your comments there.

Documentation Updates

For the most recent version of the *Novell LDAP Proxy 1.0 Installation Guide*, visit the [Novell Documentation Web site](http://www.novell.com/documentation/ldapproxy/ldapin/data/index.html) (<http://www.novell.com/documentation/ldapproxy/ldapin/data/index.html>).

Additional Documentation

For additional Novell LDAP Proxy 1.0 documentation, refer to the following guides:

- ♦ [Novell LDAP Proxy 1.0 Administration Guide](#)
- ♦ [Novell LDAP Proxy Server 1.0 Best Features Guide](#)
- ♦ [Novell LDAP Proxy 1.0 Linux Readme](#)

Installing and Uninstalling Novell LDAP Proxy on Linux

1

This section helps you understand the prerequisites for installing Novell LDAP Proxy 1.0 and how to install Novell LDAP Proxy on a Linux platform.

- ♦ [Section 1.1, “System Requirements,” on page 9](#)
- ♦ [Section 1.2, “Downloading LDAP Proxy,” on page 10](#)
- ♦ [Section 1.3, “Installing LDAP Proxy,” on page 10](#)
- ♦ [Section 1.4, “Activating LDAP Proxy,” on page 10](#)
- ♦ [Section 1.5, “Uninstalling LDAP Proxy,” on page 11](#)

1.1 System Requirements

The LDAP Proxy Server and NLP Manager can be installed on the following 32-bit and 64-bit operating systems:

- ♦ SUSE Linux Enterprise Server (SLES) 10 SP4
- ♦ SLES 11 SP1
- ♦ Red Hat Enterprise Linux (RHEL) 5.6
- ♦ Red Hat Enterprise Linux 6.0

IMPORTANT: Ensure that you install the 32-bit LDAP Proxy on a 32-bit platform and the 64-bit LDAP Proxy on a 64-bit platform.

In addition to the platform requirements mentioned above, ensure that you have the following resource requirements in order to install and configure the LDAP Proxy Server and the NLP Manager:

- ♦ For the LDAP Proxy Server:
 - ♦ A minimum of 128 MB of RAM
 - ♦ A minimum of 30 MB of disk space
- ♦ For the NLPManager:
 - ♦ A minimum of 1 GB RAM
 - ♦ A minimum of 256 MB disk space

IMPORTANT: You must install the `libstdc++.so.5` and `libstdc++.so.6` libraries on your system before installing LDAP Proxy.

1.2 Downloading LDAP Proxy

You can download LDAP Proxy from the [Novell Downloads Web site \(http://download.novell.com/index.jsp\)](http://download.novell.com/index.jsp). A list of .gz packages is available in the download location. Click the package name to download it to your system.

1.3 Installing LDAP Proxy

- 1 Extract the downloaded package by using the `tar -xzf <Filename>.tar.gz` command.

A directory named `ldaproxy` is created.

- 2 Change to the `ldaproxy` directory by using the `cd ldaproxy` command.

There are two scripts, `nlp-install` and `nlp-uninstall`, in the `ldaproxy` directory. The `nlp-install` script is used to install LDAP Proxy.

- 3 Run the `nlp-install` script by using the `./nlp-install` or `sh nlp-install` command.

Welcome information is displayed.

- 4 Press Enter.

The license agreement is displayed, followed by the question `%% Do you accept the terms of Novell LDAP Proxy 1 license agreement '[y/n/q] ? '`

- 5 Enter Y.

All packages on which LDAP Proxy has a dependency are installed. If any of the packages is already present in the system, a message stating that the package is already present is displayed.

When the installation is successful, the message `%% LDAP Proxy installed successfully!!` is displayed.

The log files are created in the `/var/opt/novell/ldaproxy/log` directory. The configuration files are available in the `/etc/opt/novell/ldaproxy/conf` directory. The binary files are available in the `/opt/novell/ldaproxy/bin` directory.

Before starting LDAP Proxy, you must configure it. For more information on configuring the proxy, refer to [Chapter 2, “Configuring and Starting Novell LDAP Proxy,” on page 13](#).

1.4 Activating LDAP Proxy

Novell LDAP Proxy must be activated within 90 days of installation. You can activate LDAP Proxy by purchasing and installing the product license.

To purchase the LDAP Proxy product license, see the [Novell LDAP Proxy How to Buy Web \(http://www.novell.com/products/ldap-proxy/\)](http://www.novell.com/products/ldap-proxy/) page.

After you purchase a product license, Novell sends you a Customer ID via e-mail. The e-mail also contains a URL to the Novell site where you can obtain a Product Activation credential. Click the link to go to the site. Click the license download link and save the Product Activation Credential file in the `/etc/opt/novell/ldaproxy/conf/key.txt` file.

If you do not remember or do not receive your Customer ID, call the Novell Activation Center at 1-800-418-8373 in the U.S. In all other locations, call 1-801-861-8373 (You will be charged for calls made using the 801 area code.). You can also [chat with us online \(http://support.novell.com/chat/activation\)](http://support.novell.com/chat/activation).

1.5 Uninstalling LDAP Proxy

To uninstall Novell LDAP Proxy, go to the `/opt/novell/ldaproxy/sbin` directory and run the `nlp-uninstall` script.

Configuring and Starting Novell LDAP Proxy

2

You must configure Novell LDAP Proxy before starting it. The proxy configuration is an XML file where you can define the configuration parameters.

You can use either of the following types of configuration:

- ♦ Define the basic configuration required to start LDAP Proxy. This configuration must have at least one listener, a back-end server, and a Connection Route policy defined. For information on defining the basic configuration, refer to [Section 2.1, “Basic Configuration,” on page 13](#).
- ♦ Customize the LDAP Proxy by configuring additional listeners, back-end servers, and back-end server groups. You can also define additional policies to customize LDAP Proxy to filter requests, map schemas, and so on. You can also define the proxy paths and monitoring events.

For more information on how to configure additional listeners, back-end servers, back-end server groups, and policies, refer to “[Manually Configuring Novell LDAP Proxy](#)” in the *Novell LDAP Proxy 1.0 Administration Guide*.

2.1 Basic Configuration

The basic configuration must define the following:

- ♦ **Listener:** The IP address and the port number where the proxy listens for incoming requests. By default, LDAP Proxy is configured to listen on all interfaces, but you can customize it to listen only on specific interfaces.
- ♦ **Back-end server group:** The IP address or domain name and port number of the system on which the back-end server is installed. At least one back-end server must be configured. However, if you plan to facilitate load balancing and fault tolerance, a minimum of two back-end servers must be configured.
- ♦ **Connection route policy:** A minimum of one Connection Route policy that specifies where the connections are to be routed.

The `<list-policy>` node in the `nlpconf.xml` file contains a simple Connection Route policy that defines where LDAP Proxy routes the incoming connections. Do not delete this node because there must be at least one Connection Route policy defined in the minimum configuration.

To define the basic configuration for LDAP Proxy:

- 1 Open the `nlpconf.xml` file from the `/etc/opt/novell/ldapproxy/conf` directory in a text editor.
- 2 (Optional) If you want to configure LDAP Proxy to listen on a specific interface, provide the appropriate values in the `<addr-ipv4>` and the `<port>` attributes.

```

<list-listener>
  <listener id-listener="listener1">
    <service protocol="ldap">
      <addr-ipv4>0.0.0.0</addr-ipv4>
      <port>389</port>
    </service>
    <ref-policy-connection-route>conn-route-policy</ref-policy-connection-route>
  </listener>
</list-listener>

```

3 Configure back-end servers:

```

<list-backend-server health-check-interval-secs="60">
  <backend-server id-backend-server="Backend1">
    <service protocol="ldap">
      <addr-ipv4>x.x.x.x</addr-ipv4>
      <port>389</port>
    </service>
  </backend-server>
  <backend-server id-backend-server="Backend2">
    <service protocol="ldap">
      <addr-ipv4>x.x.x.x</addr-ipv4>
      <port>389</port>
    </service>
  </backend-server>
</list-backend-server>

```

The `<backend-server id-backend-server="Backend1">` node specifies the configuration for the first back-end server (the server ID is Backend1). The `<backendserver id-backend-server="Backend2">` node specifies the configuration for the second back-end server (the server ID is Backend2).

3a In the `<backend-server id-backend-server="Backend1">` node, change the `<addr-ipv4>` attribute value to the IP address of the system where the LDAP server that you want to use as one of the back-end servers is running. Change the `<port>` to the port number through which you want the LDAP server to receive requests from the LDAP Proxy.

3b In the `<backendserver id-backend-server="Backend2">` node, change the `<addr-ipv4>` attribute value to the IP address of the system where the LDAP server that you want to use as another back-end servers is running. Change the `<port>` value to the port number through which you want the LDAP server to receive requests from the LDAP Proxy.

When the LDAP Proxy is configured to work with its minimal functionality, servers Backend1 and Backend2 should host the same Directory Information Tree (DIT).

4 Save the `nlpcnf.xml` file in the `/etc/opt/novell/ldaproxy/conf` directory.

You can now start Novell LDAP Proxy.

2.2 Starting, Stopping, and Checking the Status of the LDAP Proxy

Start LDAP Proxy by using the `/etc/init.d/nlpd start` command.

Stop LDAP Proxy by using the `/etc/init.d/nlpd stop` command.

Check the status of LDAP Proxy by using the `/etc/init.d/nlpd status` command.

