Flexera Software FlexNet Embedded License Server Installation and Administration Guide

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Legal Information

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Purpose

Traditional activation of the license for a producer-hosted FlexNet Operations is through the Flexera Software cloud licensing service. This requires the FlexNet Operations server to have internet access.

However, some servers hosting the FlexNet Operations may have limited or no external network connections. This guide provides instructions for setting up and administering a Flexera Software FlexNet Embedded license server locally, to license these offline servers.

Intended Audience

The guide is intended for Producers who purchased FlexNet Operations to host themselves, and need an offline alternative for activating their FlexNet Operations license rights.

Requirements for the License Server

The following sections list the requirements for the FlexNet Embedded local license server:

Hardware Requirements

The following are the minimum hardware requirements for the license server:

- Disk – 100 MB
- RAM – 4GB
- CPU – 1 GHz

Supported Platforms

The FlexNet Embedded local license server is supported on the following Windows x86-64 versions:

- Windows 10
- Windows 8 (including 8.1)
- Windows Server 2012 R2
- Windows Server 2008 R2

Virtual Machine Support

Virtualization functionality in the FlexNet Embedded local license server supports the following:

- VMware ESXi 5.*x*
- Microsoft Hyper-V on Windows Server 2008 R2-2012
- Citrix XenServer 6.*x*
- Oracle VirtualBox 5.0.14
- Parallels 10.2.2
- QEMU/KVM
- GoogleCompute Cloud
- Amazon EC2
- Microsoft Azure

Java Prerequisites

The following are the Java prerequisites for the machine where the FlexNet Embedded local license server is installed:

- Oracle JRE 1.8 or OpenJDK 1.8 or later
- A 64-bit JRE for a 64-bit license server
- The JAVA_HOME (or JRE_HOME) environment variable on your system set to the path for your default JDK (or JRE) installation

NOTE: The license server requires only the JRE component. If JRE is your default Java installation, set the JRE_HOME environment variable; if JDK is your default installation, set JAVA_HOME.

Flexera Software Product and License Center

To create the local license server and activate the licenses, please contact Flexera Software Technical Support.

Configure, Install, and Start License Server

Use this procedure to install and start the Flexera Software FlexNet Embedded local license server as a Windows service.

1. Unpack the `FlexeraSoftware_FlexNetEmbedded_LicenseServer-<version>.zip` file into an installation directory.

   Example of INSTALL_DIR: `Program Files\Common Files\FlexeraSoftware_FlexNetEmbedded_LicenseServer-<version>`

   NOTE: Makes sure that the `producer-settings.xml` file is located in the same directory as the `flexnetls.bat` file.

2. (Optional) Open the `flexnetls.settings` file, located in the `INSTALL_DIR\server` directory, in a text editor and update it with your system's local environment information; or leave the file as is to accept the default settings.
3. Open a command window as the Administrator and navigate to the `INSTALL_DIR\server` directory.
4. Execute `flexnetls.bat -install` to install the license server as a service.
5. Execute `flexnetls.bat -start` to start the service.
6. Confirm the service is running by:
   a. Executing `flexnetls.bat -status`. (The output should display 'Service running.')
   b. Checking the service FlexNet License Server-flexfnc has started in the Windows Service window (services.msc).
7. To view the license server log, navigate to the server's logging directory (by default, `C:\Windows\ServiceProfiles\NetworkService\flexnetls\flexfnc\logs`), and review the contents of the .log file.

Administer the License Server

This section describes how to use the FlexNet Embedded License Server Administrator command-line tool to manage the license server and its license distribution.

FlexNet Embedded License Server Administrator

This command-line tool is run from the command line, using the `flexnetlsadmin` batch file (`flexnetlsadmin.bat`) located in the `INSTALL_DIR\tools` directory. The general syntax for executing `flexnetlsadmin` commands is the following:

```
flexnetlsadmin -server servername:port -command [commandArguments]
```

This document only covers the commands relevant to administering the license server for licensing FlexNet Operations. You can run the `flexnetlsadmin` with the `-help` option to display brief descriptions of all the commands:

```
flexnetlsadmin -help
```

Example Commands

For the sake of simplicity, the example `flexnetlsadmin` commands in this document use the server URL http://11.11.1.111:7070/ in place of the servername:port. The URL must be modified to run the commands in your own environment.

Obtaining the License Server Status

Use the `-status` command to check the status of the license server.

Enter a command similar to this:

```
flexnetlsadmin -server http://11.11.1.111:7070 -status
```

Activating the FlexNet Operations Licenses

Use this procedure to activate the FlexNet Operations licenses onto the Flexera Software FlexNet Embedded license server.

Creating the local license server in the Flexera Product and License Center

1. Contact Flexera Technical Support and provide the ethernet address of the machine the local license server is running on.
2. Flexera Technical Support will remove the licenses from your cloud licensing instance and map these licenses to the new local license server.
3. Flexera Technical Support will provide you a license binary file e.g. *response.bin* which you will need to process on your local license server.

Activating the licenses onto the local license server

1. Save the license binary file e.g. *response.bin* provided by Flexera Technical Support and copy to the local license server machine under the `INSTALL_DIR\tools` directory.
2. As an Administrator, open a command prompt and navigate to the `INSTALL_DIR\tools` directory.
3. Execute the command to process the response generated to the local license server:
    ```
    flexnetlsadmin -server http://11.11.1.111:7070 -activate -load
    <responseFile.bin>
    ```

Viewing Features Activated on the License Server

Use the `-features` command to obtain details about the features currently activated on the license server.

Enter a command similar to this:

```
flexnetlsadmin -server http://11.11.1.111:7070 -features
```

Configure FlexNet Operations to use the FlexNet Embedded License Server

Use this procedure to configure the FlexNet Operations to use the newly installed FlexNet Embedded license server.

1. Start FlexNet Operations.
2. Log into FlexNet Operations.
3. Navigate to System -> Configure.
4. On the Licensing tab, specify the FlexNet Embedded license server URL:
   http://11.11.1.1111:7070/request
5. Click Save Configs button to save the change.

The FlexNet Operations should now be able to get its licenses from the Flexera Software FlexNet Embedded license server.

Uninstalling the License Server

If you no longer wish to use the local license server, you may use the steps below to uninstall the license server service.

1. As an Administrator, open a command prompt and navigate to the license server's `INSTALL_DIR\server` directory.
2. Execute the command `flexnetls.bat -stop` to stop the service.
3. Execute the command `flexnetls.bat -uninstall` to uninstall the license server service.
4. To ensure there are no hanging instances or services, execute `sc delete FlexNet License Server-flexfnc`.
5. Delete the license server component files from the `INSTALL_DIR`.
6. Delete `INSTALL_DIR`.
7. (Optional) Delete the folder:
   `C:\Windows\ServiceProfiles\NetworkService\flexnetls\flexfn`