# 11.12, 11.14, 11.16

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#### Related resources

- License Administration Guide. FlexNet Publisher 2014 R1 (11.12.1)
- License Administration Guide. FlexNet Publisher 2019 R2 (11.16.4)

# Choosing the Flexnet server manager

There are three types of the FlexNet server managers.

(i)

• Imadmin - a web-based license server manager with GUI (recommended).

• Imgrd -- a license server manager with a command-line interface.

Imtools – the old Windows based server manager (replaced by Imadmin)

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Imadmin installer comes only in 32 bit architecture (regardless of the version)

• 11.12.1 version license server utilities (except Imadmin installer) come in 32/64 bit architectures

Prereguisites 11.14 version license tools are not available in 64 bit binaries only 32 bit tools are available (additional 32bit libraries need to be

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Use Imadmin on Windows platforms, the Microsoft Visual C++ 2008 Redistributable Package (x86) must be

installed of our have machine (19.12:1) this machine during the ElexNet. Publisher License Server Installer process.

- Windows 8
- Windows Server 2012
- Windows Server 2008
- Windows 7 (Ultimate)
- Windows Vista (Ultimate)
- You can run Imadmin (11.14) on officially supported platforms:
  - Windows 10
  - Windows Server 2008, including SP1, SP2, and R2
  - Windows 8
  - Windows 8.1
  - Windows 7, including SP1
  - Windows Server 2012 R2
  - Windows Server 2012
- If your operating system is Linux:
  - For 32bit systems it is recommended to use 32bit Imadmin or 32 bit Imgrd
  - ° For 64 bit multi-arch systems it is recommended to use 32bit Imadmin and 64bit Imgrd
  - You have to have *glibc* libraries installed corresponding to your operating system architecture.
  - You have to create a non-root system user with root privileges and install/run the server tools using it:



- If your operating system is 32 bit Linux:
  - It is recommended to use 32 bit Imadmin installer, or 32 bit Imgrd
  - You have to install the Linux Standard Base (LSB) library.



	This can be achieved either by:		
	. Add		
° If	Bediting sudo apt-get install lsb-core	ha 22 hit <i>Imadmin</i> installar(far multi arah a	waters) of the 64bit Imard
	For version TTTZ. Twe recommend entrier using Aethod 1 (Ubuntu based):	g-ne 32 bit <i>imadmin</i> installer(for multi-arch s	systems), of the 64bit <i>imgra</i> .
	sudc	hine will require the 32bit libraries.	
	sudo v For recent Ubuntu:	8	rd for multi-arch systems. 64 bit
	11.14 Imadmin/Imgrd binaries are not availa	ble.	
	Methor Both of them require 32 bit librarires. Install it	t using:	
Check if L	For recent Ubuntu: #Create a user called "newuser" [roote <sup>Eorolder</sup> Ubuntu user		
lsb_rel	[root@ sudo apt-get install libc6-i386 apt-get update		
	#Edit sudo apt-get install lsb-cor		
a best practio	to run license servers on a server based OS.	IIDHCUISES5.1300 IIDSLUC++0.1300	
l	nse Administration Guide by Flexera Software, In on about FlexNet, see:		
	dministration Guide. FlexNet Publisher 2014 R1 (11.		·
1. Download	e FlexN	16.4) 2.1686	
🔓 in w	h license owner credentials, if prompted.		
2. Install the	rver manager.		
<ol> <li>Download</li> <li>Place the</li> </ol>	e vendo ndor daemon into the FlexNet server installation fold	er. If you use <i>Imadmin</i> , do the following:	
a. C	en the FlexNet server installation folder.		
	For OS X and Linux users		

b. In the open folder, create the *licenses\cameo* folder.

	s a result, the Se OBIOSIX start automatically after the machine boots. Starting the server manually is not user-friendly – there is no GUI for this
ac	tion. Organize -chmodug+xibENPLicenseServerManager/folder 📰 - 🗍 🔞
lf	your operating system dis Windtows, to Nonly need to select the Run as a service check box when Sprompted during the Imadmin installation.
8	FlexNet Publisher License Server Installer
	On Linux
	✓ Introduction         ✓ Choose Install Folder         ✓ Import files from Phylods         ✓ Pre-Installation Summary         ✓ Installing         ✓ Import files from Phylods         ✓ Installing         ✓ Important Information         ✓ Launch Configuration
	Service Configuration     Start the Server     Install Complete     Run as a service
	that all files in FNPLicenseServerManager must have read/write permissions. <i>Imadmin</i> or cameo daemon may not start even if a
. Sta	InstallAnywhere Cancel Help Previous Next

If you come across any issues write installing/running the software, please refer to the froubleshooting section.

Other useful commands The becare a dat Manager to Automatic Start in:

• Find out the starge abject dependencies in big wat The result carus how what files are missing libraries to run that file.

ldd	• License Administration Guide. FlexNet Publisher 2019 R2 (11.16.4) <file_name></file_name>

• File information in Linux

file <file\_name>

• Launching Imgrd manually via command line. Imgrd, cameo and license file must be in the same directory:

lmgrd -c <license\_file\_name> -l <logfile\_name>

license\_file\_name - the path to the license file. Can use only the license file name if all files are in the same directory.

logfile\_name - the path to the log file. Can use only the license file name if all files are in the same directory. Make sure the files have read/write privileges.

• Checking server status:

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lmutil lmstat -a -c <server\_port>@<server\_host\_or\_ip\_address>

server\_port - the port the server is operating on (Not the cameo daemon port)

server\_host\_or\_ip\_address - the host/address the server is hosted on

Troubleshooting command above.

### JRE libraries are missing or not compatible

Error message while installing 32bit Imadmin on 64bit multi-arch Linux system.

The error message is misleading, the solution to fix it, is to install the 32bit libraries.

### In Redhat/CentOS/Fedora:

sudo yum install redhat-lsb-core.i686

#### In recent Ubuntu use:

```
sudo apt-get install libc6-i386
apt-get update
sudo apt-get install lsb-core
```

#### In older Ubuntu use:

```
sudo dpkg --add-architecture i386
apt-get update
sudo apt-get install libc6:i386 libncurses5:i386 libstdc++6:i386
sudo apt-get install lsb-core
```

#### No such file or directory running Imadmin

That may mean that you are missing the correct Linux Standard Base (LSB) library.

Also it may mean that you are using a 64bit executable in a 32bit system and vice versa.

Install the Linux Standard Base (LSB) libraries to fix it.

### libssl.so.1.0.0 library required running Imadmin

*Imadmin* 11.14 comes with libssl.so.1.0.0 in its installation directory. You need to add these libraries in *Imadmin* directory to the LD\_LIBRARY\_PATH.

e.g. if your Imadmin installation is at /opt/FNPLicenseServerManager then adding it to the path would look like this:

export LD\_LIBRARY\_PATH=\$LD\_LIBRARY\_PATH:/opt/FNPLicenseServerManager

## Imadmin won't start

If you install Imadmin on a Linux-based system when logged on as root, you may encounter various issues. For example:

- When you try to launch the Web server (http://localhost:port) on the license server, you encounter an "Unable to connect" error.
- When you attempt to run the license server, you may encounter the following errors:

```
10:43:19 (cameo) Vendor daemon can't talk to lmgrd (Cannot read data from license server system. (-16,287))
10:43:20 (cameo) EXITING DUE TO SIGNAL 37 Exit reason 5
```

## In Web.log:

```
[08:08:08 2018] [warn] pid file /opt/FNPLicenseServerManager/logs/lmadmin.pid overwritten -- Unclean shutdown
of previous Apache run?
[08:08:08 2018] [alert] getpwuid: couldn't determine user name from uid 4294967295, you probably need to modify
the User directive
```

• A process listing for Imadmin ('ps aux | grep Imadmin') returns no results.

A process listing for cameo ('ps aux|grep cameo') returns results if run right after *Imadmin* is started but then fails after a few seconds. If you view
the cameo.log file in the logs directory (the default location is /opt/FNPLicenseServerManager/logs), you see that the process failed with the
following error messages:

```
07:55:17 (cameo) Report log started (cameo/report.log).
07:55:27 (cameo) Vendor daemon can't talk to lmgrd (Cannot read data from license server system. (-16,287))
07:55:27 (cameo) EXITING DUE TO SIGNAL 37 Exit reason 5
```

Therefore, when you are installing *Imadmin* on a Linux-based system, it is recommended that you avoid installing as root. If you have already installed *Imad min* when logged on as root and you do not want to reinstall *Imadmin*, change the ownership of all of the files in the installed folder from root to another user

## 'Can't make directory' error running Imgrd

Can't make directory /usr/tmp/.flexlm, errno: 2(No such file or directory).

This means that directory /usr/tmp used by Imgrd is missing on your system(usually on Ubuntu systems). This error does not impact license checkout.

The solution to fix it is to create a symbolic link /usr/tmp pointing to /tmp:

ln -s /tmp /usr/tmp

#### You have no permission to install Imadmin in that directory

Make sure the Imadmin installer has read/write access.

chmod 755 lmadmin

or

```
chmod -R 755 folder_containing_lmadmin
```

to give read/write privileges to all files within a folder.

A script is intended for CentOS and RedHat

Then run Imadmin using sudo:

sudo ./<lmadmin\_installer>

## A sample script which performs the automated install of Imadmin in case you need it for reference purposes

```
#!/bin/bash
echo "=================="
echo "Installing wget"
echo "================"
sudo yum install -y wget
echo "Installing lmadmin"
echo "=================="
sudo getent group lmadmin >/dev/null || groupadd -r lmadmin
sudo getent passwd lmadmin >/dev/null || useradd -d /home/lmadmin -g lmadmin -m -r lmadmin
sudo yum install -y ld-linux.so.2
LSB=$(yum provides /lib/ld-lsb.so.3 | grep lsb-core | tail -1 | cut -f 1 -d ' ')
sudo yum install -y $LSB
sudo echo "lmadmin ALL=(ALL) NOPASSWD:ALL " >> /etc/sudoers
# If Web GUI to Flex licensing is not a must - lmgrd can be used, can be placed in rc.local to startup on boot
# usage - ./lmgrd -c PATH_TO_KEY_FILE -1 PATH_TO_LOG_FILE
```

```
# RW rights needed to both files
echo "Getting Linux 32-bit IPv6 version 11.14 from AWS FrontCloud"
wget http://dlg91r27pzl568.cloudfront.net/Cameo_daemon/FlexNet_11_14/ipv6/linux/lnx_32/cameo
chmod +x cameo
echo "Getting Linux 32-bit lmgrd version 11.14"
wget https://dloqhepk9odltu.cloudfront.net/Flex_License_Server_Utilities/v11.14/linux32/lmgrd
chmod +x lmgrd
echo "Making flex log file named FlexLog.log"
touch FlexLog.log
chmod 664 FlexLog.log
echo "Getting Linux 32-bit lmadmin version 11.14"
wget https://dloqhepk9odltu.cloudfront.net/Flex_License_Server_Utilities/vll.14/linux32/lmadmin-i86_lsb-
11 14 0 0.bin
chmod +x lmadmin-i86_lsb-11_14_0_0.bin
echo "Executing lmadmin version 11.14 installer"
echo "IMPORTANT: Install into directory /opt/local/FNPLicenseServerManager"
echo ""
echo " Note: Accept all defaults for script to work properly !!! "
read -p - "Press any key to continue ...: " -n1 -s
sudo ./lmadmin-i86_lsb-11_14_0_0.bin
sudo mkdir -p /opt/local/FNPLicenseServerManager/licenses/cameo/
sudo cp cameo /opt/local/FNPLicenseServerManager/cameo
sudo my cameo /opt/local/FNPLicenseServerManager/licenses/cameo/cameo
sudo mv lmgrd /opt/local/FNPLicenseServerManager/lmgrd
sudo mv FlexLog.log /opt/local/FNPLicenseServerManager/FlexLog.log
sudo chown -R lmadmin:lmadmin /opt/local/FNPLicenseServerManager/
sudo chmod +x /opt/local/FNPLicenseServerManager/lib*
sudo cp /opt/local/FNPLicenseServerManager/lib* /usr/lib/
echo "Opening firewall ports"
FWZONE=$(sudo firewall-cmd --get-default-zone)
cat <<EOF | sudo tee /etc/firewalld/services/lmadmin.xml
<?xml version="1.0" encoding="utf-8"?>
<service version="1.0">
   <short>lmadmin</short>
   <description>lmadmin</description>
   <port port="8090" protocol="tcp"/>
   <port port="1101" protocol="tcp"/>
</service>
EOF
sleep 5
sudo firewall-cmd --zone=public --remove-port=8090/tcp --permanent
sudo firewall-cmd --zone=public --remove-port=1101/tcp --permanent
sudo firewall-cmd --zone=public --remove-port=27000-27009/tcp --permanent
sudo firewall-cmd --zone=internal --remove-port=8090/tcp --permanent
sudo firewall-cmd --zone=internal --remove-port=1101/tcp --permanent
sudo firewall-cmd --zone=internal --remove-port=27000-27009/tcp --permanent
sudo firewall-cmd --zone=$FWZONE --add-service=lmadmin --permanent
sudo firewall-cmd --reload
IP_ADDRESS=$(ip route get 1 | awk '{print $NF;exit}')
HOSTNAME=$(hostname)
echo "$IP_ADDRESS $HOSTNAME" >> /etc/hosts
echo "Creating systemd service - lmadmin"
sudo echo "[Unit]" > /etc/systemd/system/lmadmin.service
sudo echo "Description=Flexnet License Daemon" >> /etc/systemd/system/lmadmin.service
sudo echo "After=network.target network.service" >> /etc/systemd/system/lmadmin.service
sudo echo "" >> /etc/systemd/system/lmadmin.service
sudo echo "[Service]" >> /etc/systemd/system/lmadmin.service
```

```
sudo echo "User=lmadmin" >> /etc/systemd/system/lmadmin.service
sudo echo "WorkingDirectory=/opt/local/FNPLicenseServerManager/" >> /etc/systemd/system/lmadmin.service
sudo echo "ExecStart=/opt/local/FNPLicenseServerManager/lmadmin -allowStopServer yes" >> /etc/systemd/system
/lmadmin.service
sudo echo "Restart=always" >> /etc/systemd/system/lmadmin.service
sudo echo "RestartSec=30" >> /etc/systemd/system/lmadmin.service
sudo echo "Type=forking" >> /etc/systemd/system/lmadmin.service
sudo echo "" >> /etc/systemd/system/lmadmin.service
sudo echo "[Install]" >> /etc/systemd/system/lmadmin.service
sudo echo "WantedBy=multi-user.target" >> /etc/systemd/system/lmadmin.service
sudo echo "" >> /etc/systemd/system/lmadmin.service
sudo chown root:root /etc/systemd/system/lmadmin.service
sudo chmod 755 /etc/systemd/system/lmadmin.service
sudo systemctl daemon-reload
sudo systemctl enable lmadmin.service
echo "lmadmin service installation complete"
echo " usage: systemctl start stop lmadmin"
```

If you run into any further problems with installation, please try:

- checking the FAQ section for the known problems
- checking the No Magic Community forum
- contacting customer support at support@nomagic.com