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

- Yom Seventing State of State •

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 ^{Eorolder} 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.		
 Download Place the 	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