

# Running the license server from a command line

*The information on this page refers to v4.4.3 and later, which introduced an installation program that installs both LM-X License Server and the end-user tools and removed some commands from lmx-serv. For applicable to earlier versions, see [documentation for previous versions](#).*

The lmx-serv command will let you run the license server as a service in Windows or as a daemon in the background on Unix. However, it is recommended that you [use the provided installer](#) to install and start the license server instead of using lmx-serv.

The lmx-serv command usage is as follows.

## For Windows:

Command	Options
lmx-serv	<code>[-config <i>configfile</i> -licpath <i>licensefile</i> -logfile <i>logfile</i> -port <i>portnumber</i>]</code>

## For Unix:

Command	Options
lmx-serv	<code>[-background -config <i>configfile</i> -licpath <i>licensefile</i> -logfile <i>logfile</i> -port <i>portnumber</i>]</code>

Where:

Command			Description
Long version	Short version	Applies to	
-background	-b	Unix	Run the license server as a daemon in the background.
-config	-c	All	Specify an optional path to an lmx-serv.cfg configuration file. Typing the full path is required. If the server is run without the -c parameter, it will use default settings.
-licpath	-l	All	Specify an optional license file path that will be read in addition to those specified within the lmx-serv.cfg configuration file. Alternatively, you may specify a directory in which the license server will look for all .lic files. You can specify multiple paths, separated by a semicolon ( ; ) for Windows or a colon ( : ) for Unix; for example, "-l C:\dir1;c:\dir2."  If no default license is defined in the configuration file and the -l parameter is not specified (or no license can be found in given location), the server will look for all .lic files in its directory.
-logfile	-lf	All	Specify an optional logfile path, which will override any logfile settings in the lmx-serv.cfg configuration file.
-port	-p	All	Specify an optional port number, which will override the port number set in the configuration file.
-help	-h	All	Print out usage information for these commands.

We recommend enclosing all switches (e.g., configuration file path) within double quotes ( " ") to avoid problems with white spaces.

The following example shows running the license server on Windows from a command line.

```
C:\Windows\System32\cmd.exe
c:\Program Files (x86)\LM-X>lmx-serv-xformation.exe -l network.lic -c lmx-serv.cfg
[2012-12-13 09:15:03] LM-X License Server v4.3.6 build DEVELOPMENT on Justyna-PC (Win32_x86)
[2012-12-13 09:15:03] Copyright (C) 2002-2012 X-Formation. All rights reserved.
[2012-12-13 09:15:03] Website: http://www.lm-x.com http://www.x-formation.com
[2012-12-13 09:15:03] License server has pid 2312.
[2012-12-13 09:15:03] Serving licenses for vendor XFORMATION.
[2012-12-13 09:15:03]
[2012-12-13 09:15:03] License server using TCP IPv4 port 6200.
[2012-12-13 09:15:03] License server using TCP IPv6 port 6200.
[2012-12-13 09:15:03] License server using UDP IPv4 port 6200.
[2012-12-13 09:15:03] WARNING: Windows firewall blocks TCP port 6200.
[2012-12-13 09:15:03] WARNING: Communication to license server might not work properly.
[2012-12-13 09:15:03] WARNING: Windows firewall blocks UDP port 6200.
[2012-12-13 09:15:03] WARNING: Automatic server discovery might not work properly.
[2012-12-13 09:15:03] Reading licenses...
[2012-12-13 09:15:03] License file(s):
[2012-12-13 09:15:03] c:\Program Files (x86)\LM-X\network.lic
[2012-12-13 09:15:03] Log file path: Not set
[2012-12-13 09:15:03] Log to stdout: Yes
[2012-12-13 09:15:03] Log format: Normal
[2012-12-13 09:15:03] Configuration file path: c:\Program Files (x86)\LM-X\lmx-serv.cfg
[2012-12-13 09:15:03] Serving following features:
[2012-12-13 09:15:03] LicensedExampleClass (v1.0) (1 license(s)) license type: exclusive
[2012-12-13 09:15:03] borrow (v1.0) (1 license(s)) license type: exclusive
[2012-12-13 09:15:03] f1 (v1.5) (5 license(s)) license type: exclusive
[2012-12-13 09:15:03] f2 (v1.0) (5 license(s)) shared on: HOST USER VIRTUAL license type: additive
[2012-12-13 09:15:03] f2 (v1.0) (10 license(s)) license type: additive
[2012-12-13 09:15:03]
[2012-12-13 09:15:04] Minimum user remove time set to 120 seconds.
[2012-12-13 09:15:04] To administrate the license server go to page http://Justyna-PC:6200
[2012-12-13 09:15:04] Ready to serve...
```