How to install IDA floating licenses on a Windows server

To be able to use the IDA floating licenses, you need to first configure a license management server, FlexNet license manager in our case. The workstations that will run IDA will need to be able to connect to this server to check out a license. We will show you how to configure the server part first, and then the client on the workstations. *The licenses are locked to your particular server based on the MAC address of the first network card. You cannot edit this ID later because it will invalidate the key. You can activate the licenses only once, so please choose your server carefully.*

Briefly, the steps on the server are:

Install Imadmin on the server (or you could use the command line edition) Copy the hexrays.exe vendor file to the same folder where Imadmin is installed Start the Imadmin service Launch your web browser with URL localhost:8090 to access the management GUI Change the login password (default is user: **admin** / password: **admin**) Obtain an activation file from our portal Import your license file into the license management server

The steps on the workstation are:

Install IDA with the installation password Run IDA and enter the license management server's name or address

Please make sure the ports IDA uses to access the management server are open in your firewall both on the workstation and the server. Read this guide to see what they are and how to change them.

Here is a more detailed step by step guide:

1. Install the **lmadmin** on your server. You can find the latest lmadmin at the support page: <u>https://www.hex-rays.com/products/ida/support/flexlm/</u>

Criect Publisher License Serve	r Installer		
		Choose	Install Folder
Introduction	Where Would You Like to Install?		
Choose Install Folder	C:\Program Files\FlexNet Publisher License Server Manager		
Import files from Previous		Restore Default Folder	Choose
 Installing 			
Important Information			
Launch Configuration			
Service Configuration			
Start the Server			
Install Complete			
InstallAnywhere	20 3		
Cancel Help		Previous	Next

FlexNet Publisher License Serv	er Installer Launch Configuration
 Introduction Choose Install Folder Import files from Previous Pre-Installation Summary Installing Important Information 	Configure the HTTP port number at which the License Server Management Interface can be accessed using a web browser and the TCP/IP port number at which licensing applications will communicate with the License Server Manager
Launch Configuration Service Configuration Start the Server Install Complete	Enter the HTTP Port Number 8090 Enter the License Server Port Number: 0 (enter 0 to automatically pick from the default port range (27000 - 27009))
InstallAnywhere	Previous

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FlexNet Publisher License Serve	er Installer
	Service Configuration
 Introduction Choose Install Folder Import files from Previous Pre-Installation Summary Installing Important Information 	Provide information about running the FlexNet License Server Manager as a service. You must have administrative privileges to configure the server to run as a service.
 Launch Configuration Service Configuration Start the Server Install Complete 	Enter the service name Imadmin Enter number of seconds to delay when starting the service 0 Image: Run as a service
InstallAnywhere Cancel Help	Previous

We recommend that you install it as a service so it can run in the background. Make sure the service has actually started. If not, go into Computer Management in Windows and start it. Otherwise, the license manager web interface will not work.

2. Download the vendor file hexrays.exe from the support page. You need to copy this file into the flex manager folder where you have installed the Imadmin above. The manager looks for the vendor executable the **.lic** file specifies. By default it is set to **hexrays**. It assumes that the **hexrays.exe** that you have downloaded is in the same folder as the **FlexNet Publisher License Server Manager**. You can see the vendor setting in the .lic file, as well as the number of seats for each license and the server's MAC address:

```
      1
      SERVER this_host 000C292150E5

      2
      VENDOR hexrays

      3
      FEATURE IDAPROFW hexrays 6.6 permanent 3 \
```

You will obtain the .lic file shortly from our activation portal.

3. Launch your web browser and enter the address <u>http://localhost:8090</u> if you are working at the local console of the server, or <u>http://servername:8090</u> if you are on another station, substituting the server name to match your server. The 8090 is the default port for the admin utility unless you changed it.

Alternatively, you can run the Imtools utility. You can download it from the support page above and put it in the same folder where the FlexNet manager is installed. We will show you how to install the licenses using the browser-based admin interface.

4. Click on the Administration link on the top right side. You will need to sign in. The default username and password are **admin** / **admin**. You will be asked to change the password the first time you login.

FlexNet Publisher	? X Heb Syn Ox Dathbourd <u>Administration</u>
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Flex N	Sector Information Reference Version: 1.1.2.2 License Server Manager Port in Use: 27000 Display: vrapi Host Domain Hanne: vrapi Host Domain Hanne IPV4 Adde Ethernei: Adde Vour password was successfully changed License Rectain Allow	Oxinbo	Trebs and <u>Adms</u>	X Sgn Dut natnatoon
Law Cordination And And Cordination Cordin	Ethermit Addie Volume Serial Num Local Stop Server Allow License Redaim Allow			

5. Obtain an activation file from our portal at https://www.hex-rays.com/activate.shtml

You will need the **ida.key** file, the **MAC address** of the first network card in the server where the license manager will reside, and the **email address** you had provided us when you got your IDA license. The portal will send this information to our activation system.



You can obtain the MAC address (Ethernet Address) from the **System Information** tab of the license manager web GUI. You should copy and paste this value into the activation portal.



You can also get it by running **ipconfig** –**all** from the command prompt in Windows; it is called the Physical Address. If there are multiple network cards, you want the first card's address. It is better to get this information from the license manager System Information so that it matches what it expects. This number will be hard-coded in the license file our system generates. This locks the licenses to that server. You cannot edit this ID later because it will invalidate the key. You can activate the licenses only once.

🖾 Comma	and Prompt
C:\Docu	ments and Settings\Owner>ipconfig -all
Windows	IP Configuration
Etherne	Host Name : vmxp1 Primary Dns Suffix Hybrid IP Routing Enabled No WINS Proxy Enabled No DNS Suffix Search List : localdomain t adapter Local Area Connection:
	Connection-specific DNS Suffix . : localdomain Description : VMware Accelerated
	Physical Address. . .

Our system will email you a **.lic** file as an attachment. You need to save this attachment in a file on your server. You will import it into the management server later.

	Dear Hex-Rays User,
ida_000C29	Your activation request has been successfully processed!
683 bytes	Please find attached the license file for the license server. If using lmadmin: use the Web UI to submit .lic file to the server. If using lmgrd: use the -c commandline switch.
	If you have not downloaded the license server yet, you can do it from the following page:
	https://www.hex-rays.com/products/ida/support/flexlm/index.shtml
	Thank you for purchasing our product(s)!
	Best regards,

6. Click on the **Vendor Daemon Configuration** tab on the left side. You will see a link that says **Import License**. Click on that link.





Import your activation file by browsing for the file you had saved from your email and then click on **Import License** button. After it is imported, it will be installed in the **licenses\hexrays** folder under the **C:\Program Files\FlexNet Publisher License Server Manager** folder by default.

FIEXERA SOF	™axe Net Publisher
System Information User Configuration	Import Information Successfully uploaded license file to licenses\hexrays\ida_000C29 Configured new vendor daemon, hexrays. OK
Alert Configuration Erver Configuration Wendor Daemon Configuration	

Name 🔺	Size	Туре
Conf		File Folder
🚞 demo		File Folder
🚞 eventlog		File Folder
🚞 examples		File Folder
🗀 uninstall		File Folder
🗀 web		File Folder
🗀 wsdl		File Folder
hasp_rt.exe	1,428 KB	Application
Naspsrm_win32.dll	4,327 KB	Application Extension
🛅 Imadmin.exe	7,482 KB	Application
🗒 README-swidtag-Imadmin.txt	2 KB	Text Document
📷 regid. 2009-06. com. flexerasoftwa	9 KB	SWIDTAG File
hexrays.exe	1,749 KB	Application
🗀 logs		File Folder
🚞 cache		File Folder
🗀 licenses		File Folder

You should have three additional folders: logs, cache and licenses. Inside the licenses folder, there will be another folder called hexrays and your .lic file should be in there.

Help Ibals Edit History Bookers View Flex/Vet License Administrator T C 🔣 - Google € @ localheat:5090/vando ▶ + ☆ 白 12 ? FlexNet Publisher Dashboard Administra Vendor Daemons 2/2 -0 Import License 2-Status Flexifiet Publisher Version Port Name + Up 11.12 1356 Administer Delete heres A. 91. Ð Confouration

If all went well, you should now see the vendor daemon listed.

The daemon will pick a port automatically. If you double click on hexrays in the list, you can see what it is using, 1112 in our case. This port needs to be open in your firewall for the clients to be able to check out a license.



Because this port changes every time the daemon starts, it is better to either allow the daemon executable (hexrays.exe) to listen on any port in your firewall, or if you wish to have tighter control over the ports, you can designate a specific port in the Vendor Daemon Port. If you do set a specific port, you will need to stop and restart the daemon so that the new port will be used.

	Net Publisher
System Information	Vendor Daemon:hexrays Vendor Daemon Port in Use: 1112 Vendor Daemon Actions Stop Reread License Files Report Log Name:
Alert Configuration	General Configuration * License File or Directory licenses\hexrays\ida_000C292150E5_48-B633
Server Configuration	Vendor Daemon Location: * Vendor Daemon Port: O Use default port Use this port 1112
	* Restart Retries: 10 Enable Date-based Versions

The port for the license server itself and the vendor daemon can also be changed in the .lic file: SERVER this_host 000C292150E5 **31000**

VENDOR hexrays PORT=1112

If you change the port from the default, it needs to be specified in the connection dialog in the IDA client. In this case to <u>31000@192.168.116.128</u> Now click on the Dashboard link at the top right, and then click on Concurrent button. You should see your licenses listed.



You can see the number of licenses checked out in the dashboard. 0(3) in our example shows that we have 3 available and 0 checked out.

7. You are now ready to install IDA on your workstations. The workstations must be able to contact the license management server, so make sure the server is in the same subnet and also the firewall allows access to the ports the server is listening on. By default, it will be TCP port 27000 and the vendor daemon port 1112 (or whatever it is set to) that can be different each time the daemon runs. These ports will have to be remotely accessible so that the clients can check out a license.

Once the license management server is up and running and has the activation record loaded, you can run the IDA client on a workstation. When IDA starts, it will show you a dialog box and ask you to specify where the license management server is located.

 Specify the License Server System Specify the License File

Click next to enter the name or the IP address of the server.

Enter the Computer System. (Contact ye do not know this.)	Name of the License our System Administr	e Server ator if you
@192.16	3.116.128]

Click next and IDA will attempt to connect to the server over the default TCP port, which is 27000 and our vendor daemon port 1112. If it works, you will get a dialog telling you that it has completed.



If it fails because you have a firewall blocking the port on the client, you will get something like this:

	The Interactive Disassembler (id 27000. Do you want to allow th	aq.exe) is trying to connect to [19 is program to access the network'	92.168.116.128) using re ?''	emote port
	J A			
	Remember my answer, and do not ask	me Yes	No	Detail >>
	- again for this application.			
Contract 1	Drag a file here to disass	emble it	×1	
8	License server error: Unable to checkout: Can The license server manager (lmgrd) has not be the wrong port@host or license file is being us port or hostname in the license file has been of Feature: IDAPROFW	not connect to license server syst en started yet, ed, or the hanged.	.em.	

We had the firewall running and it blocked the port. As a result, IDA displayed an error dialog. If the firewall is open on the client, but it is blocked at the server, then the error message will be:

	FlexNet License Finder	×
	Enter the Computer Name of the License Server System. (Contact your System Administrator if yo do not know this.)	u
lexNet License Manager		
Networking Error: S	Server ("192.168.116.128") not responding. Please con	tact System Administrator for assistance

As you can see on the server, our firewall has blocked the incoming connection:

Syg	ate Personal Firewall Pro 12/03/2014 12:	12:33		× /
-	Flexera Software LLC (Imadmin.exe) is using local port 27000. Do you want t	being contacted from a o allow this program to a	remote machine [192. ccess the network?	168.116.130]
				C
1	Remember my answer, and do not ask me	Yes	No	Detail >>

Our firewall shows us more details like this:

gate Personal Firewall Pro	12/03/2014 12:12:33			×
Flexera Software LL using local port 270	.C (Imadmin.exe) is being cor 00. Doyou want to allow thi	itacted from a remo s program to acces	ite machine [192." is the network?	168.116.130]
Remember my answer, and again for this application.	d do not ask me	Yes	No	Detail <<
Detailed information of Flexera So File Version	oftware LLC (Imadmin.exe) ar	id the connection i	t is trying to establi	sh:
File Description .	Flavera Software	IIC (Imadmin	eve)	-
File Path .	C:\Program Files\	FlevNet Publi	sher License	Server
Manager\lmadmin eve	o. (rrogram rifes (LICANCO FUDII	ioner proense	DELVEL
Process ID :	0xF74 (Heximal) 3	956 (Decimal)		
Connection origin :	remote initiated			
Protocol :	TCP			
Local Address :	192.168.116.128			
Local Port :	27000			
Remote Name :				
Remote Address :	192.168.116.130			
Remote Port :	1122			
Ethernet packet detail	.s:			
	ngth: 62)			
Ethernet II (Packet Le				
Ethernet II (Packet Le Destination:	00-0c-29-21-50-e5			
Ethernet II (Packet Le Destination: Source:	00-0c-29-21-50-e5 00-0c-29-56-98-ed			

Assuming you sorted out the firewall issues and IDA was able to obtain a license, you will see that it checked out one license. Look at the server management dashboard and **Concurrent** screen; refresh it to see the latest status of the licenses:

FlexNet Publisher					1	sgrifut
				Dashi	ogand A	dministration
Alerts	Licenses	4e Concurre	a nt	Vendor Daemon: hexrays		
	Feature	Version	In Use (Available)	Expiration		-
	* IDAPROPIN	6.6	0 (5)	PERMANENT H	osta	_

If you click on the Hosts link, you will see the name of the client machine:

localhost:8090/concurrent	hosts?ver 🔻 C	Google 🔎 🖡		1 8	» ≡
Hosts					
Feature Name/Version: IDAPROFW 6.6				Expor	t Data
Search for:		Search			
	Page 1 of 1				
Host 🔺	User	Display Name		Count	
admin-39e6fbbcf	Administrator	admin-39e6fbbcf	2	1	

We can see that it is the same as the name of our client machine:

System Restore	Automatic Updates	Remote
General Cor	nputer Name Hardwa	are Advanced
Windows use on the netwo	s the following information to i k.	dentify your computer
Computer description:		
	For example: "Kitchen Com Computer".	puter" or "Mary's
Full computer name:	admin-39e6fbbcf.	
Workgroup:	WORKGROUP	
To use the Network Ide domain and create a loc D.	ntification Wizard to join a al user account, click Networ	k Network ID
To rename this compute	r or join a domain, click Chan	ge. Change

After you exit IDA, it will return the license to the server, which will free it up for another session.