

How to Configure a Remote Desktop Licensing Server for vSpace 6

This guide will walk you through the process of creating a RDS Licensing server and then configuring your vSpace 6 host to connect to that server for the purpose of utilizing Windows licenses. If this is your first time setting up an RDS Licensing server, begin with Section 1 of this guide. **If you already have an RDS Licensing server set up, skip to Section 2 (page 10)**, which will walk you through configuring your vSpace server to use that resource.

Section 1: Creating a Remote Desktop Licensing Server

When you first install Windows Server 2008 R2, Microsoft starts the clock on a 120-day grace period before the OS needs to have access to an activated RDS licensing server. This document will guide you through the necessary steps to create, activate, and use the RDS licensing server with vSpace 6 for Windows. You need to be logged in as an administrator to perform these steps.

First, install and activate your copy of Windows Server 2008 R2 and optionally install the latest version of vSpace 6 for Windows. (You will only need ONE RDS licensing server in your environment to manage RDS CALs for all your vSpace 6 hosts.)

Now launch the Windows Server Manager. If you have installed vSpace 6 on this server, the vSpace installer will have already added the RDS role for you. Otherwise, you may need to manually add the Remote Desktop Services role to the server before you can perform the next step.

If the RDS role has been installed on your server and you haven't yet configured Remote Desktop Licensing, you'll see a Microsoft bubble popup every time you reboot and each time someone logs into a vSpace virtual desktop session. The 120-days decrements every 24 hours until the grace period expires.

Remote Desktop licensing mode is not configured. Remote Desktop Services will stop working in 119 days. Click this message to launch the RD Session Host Server Configuration tool to specify a Remote Desktop licensing mode and to specify a license server for the RD Session Host server to use. Click on "Remote Desktop Services" in the Server Manager left-hand navigation tree, scroll down on the right until you see the "Role Services" pane, and click on "Add Role Services."

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Server Manager (2KBR2TEST) □ Roles □ P Remote Desktop Services Server Manager (2KBR2Test.redding.rcor)	Remote Desktop Services	es that enable access to a server running W	indows-based programs or the full Windows desktop	
Configuration Configu			Copy Result Properties	*
I Estrage	Role Service	Status on Host Installed alzation Host Not Installed	Rendrie sche Services	
	Remote Desktop Licen Remote Desktop Conr Remote Desktop Gate Remote Desktop Web	sing Not installed Inction Broker Not installed way Not installed Access Not installed		
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Clicking "Add Role Services" launches the "Add Role Services" wizard. When the window pops up, select "Remote Desktop Licensing" and click "Next."

Add Role Services		×	ł
Select Role Servi	ices		
Role Services RD Licensing Configuration Confirmation Progress Results	Select the role services to install for Remote Desktop Services: Romote Desktop Session Host (Installed) Remote Desktop Virtualization Host Remote Desktop Connection Broker Remote Desktop Gateway Remote Desktop Web Access More about role services	Description: Remote Desktop Licensing (RD Licensing), formerly TS Licensing, manages the Remote Desktop Services client access licenses (RDS CALs) that are required to connect to an RD Session Host server. You can use RD Licensing to install, issue, and track the availability of RDS CALs.	
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On the "Configure Discovery Scope for RD Licensing" screen, follow Microsoft's recommendation and do not check "Configure a discovery scope of the license server" box. If you wish, use this screen to change the location of the RD Licensing database from its default location.

Add Role Services		×
Configure Discov	ery Scope for RD Licensing	
Role Services RD Licensing Configuration Confirmation Progress Results	The discovery scope for a Remote Desktop license server is used by RD Session Host servers to automatically discover the license server. This does not apply to RD Session Host servers running Windows Server 2008 R2 and applies only to those running Windows Server 2008, Windows Server 2003, or Windows 2000. Microsoft recommends that you do not configure a discovery scope for the license server. Instead, you should use the Remote Desktop Session Host Configuration tool to specify a license server for the RD Session Host server to use.	
	 Configure a discovery scope for this license server This workgroup RD Session Host servers in the same workgroup can discover this license server. This domain RD Session Host servers in the same domain can discover this license server. To configure this scope, this computer must be a member of a domain, and you must be logged on as a domain administrator. The forest RD Session Host servers from multiple domains in the same forest can discover this license server. To configure this scope, this computer must be a member of a domain, and you must be logged on as an enterprise administrator. Select a location for the RD Licensing database: C:Windows/system32/LServer 	
	More about license server discovery Previous Next > Install Cancel	

If you are satisfied with your entries as shown on the "Confirm Installation Selections" screen, click "Install", and the wizard will add the licensing role.

Add Role Services		×
Confirm Installat	ion Selections	
Role Services RD Licensing Configuration Confirmation Progress	To install the following roles, role services, or features, click Install.	
Results	Remote Desktop Services	
	RD Licensing Availability : This workgroup Database path : C:\Windows\system32\LServer	
	Print, e-mail, or save this information	
	< Previous Next > Install Cancel	

Add Role Services	
Installation Progre	255
Role Services RD Licensing Configuration Confirmation Progress Results	The following roles, role services, or features are being installed: Remote Desktop Services
	Configuring
	< Previous Next > Install Cancel

Wait for the "Installation Progress" screen to finish, and . . .

After what may seem to be an unusually long time, installation completes, and the "Installation Results" screen will be displayed. The wizard provides helpful warnings, and following the next steps in this guide will "Ensure that your RD Session Host servers are correctly configured to use this license server."



However, before your licensing server can be used, it must be activated by the Microsoft Clearinghouse. Microsoft maintains the Clearinghouse facility to activate Remote Desktop license servers, issue RDS CALs to license servers, recover RDS CALs, and deactivate or reactivate license servers. The clearinghouse stores worldwide information about all activated license servers and RDS CALs that have been issued.

In the Windows Server Manager, go back to Roles > Remote Desktop Services

Then scroll down the right-hand window to the "Advanced Tools" area and click on "Remote Desktop Licensing Manager"



After the RDS Licensing Manager starts, the local hostname should be displayed.

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	Name	Activation Status	Discovery Scope	Configuration	
	🛛 🐼 WIN-74NBJRGLLKI	Not activated	Workgroup	OK	
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The license server must be activated before it can accept and/or issue Remote Desktop Services client access licenses (RDS CALs). The activation process allows Microsoft to issue the server a digital certificate to validate server ownership and identity.

Right-click on your server name and then select "Activate Server"

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All servers	Name	Activation Status	Discovery Scope	Configur	ation	
	WIN-74NBJRGLLKI	Not activated	Workgroup	OK	Refresh	
					Review Con	figuration
	1				Instal Licen	es
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					Advanced	
					Create Repo	ort 🕨
					Delete Repo	rts
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	1				Properties	
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The "Activate Server Wizard" will pop up and provides three methods by which you can activate your license server:

- 1. Automatically
- 2. by Using a Web Browser
- 3. by Using the Telephone

This document covers the Automatic activation process, which requires Internet connectivity from the computer running the Remote Desktop Licensing Manager tool. The tool uses TCP/IP (TCP port 443) to connect directly to the Microsoft Clearinghouse.

Click next and fill out the appropriate requested information.



Select Automatic from the "Connection Method" dropdown box and click "Next." The "Locating the Microsoft Clearinghouse server..." box will pop-up on top of the wizard, and you'll see a progress bar while the wizard attempts to locate the clearinghouse on the internet. If the wizard can't contact the clearinghouse, you will need to set your network firewall(s) to allow access to TCP port 443, or you will need to use a telephone and manually activate the licensing server.

Activate Server Wizard		×
Connection Method Select the most appropriat	e connection method.	9
The connection method set the Microsoft Clearinghous CALs) are installed. To change the connection the license server's Proper	elected for license server activation will also be used to contact e when Remote Desktop Services client access licenses (RDS method after activation, go to the Connection Method tab of ties dialog box.	
Connection method:	-	
Automatic connection (rec	commended)	
Description:	This is the recommended method. The license server will automatically exchange the required information with the Microsoft Clearinghouse over the Internet.	
Requirements:	The computer must be able to connect to the Internet by using a Secure Sockets Layer (SSL) connection.	
Activate Serve	r Wizard	
Locating the	e Microsoft Clearinghouse server	_
	Cancel	
	< Back Next >	Cancel

If the wizard successfully makes contact with the Microsoft clearinghouse, the "Company Information" screen will be displayed. You must enter data into the four fields on this screen, and then click "Next".

Enter your name, comp	any name, and country/region information.	
This information is requi	red to proceed.	
jist name:	James	
,ast name:	Doe	
Company:	J. D. Corporation	
Country or Begion:	United States	
Name and c	ompany information is used only by Microsoft to hel Jourity/Region is required to comply with United S imation, see <u>Remote Desktop License Manageme</u>	p you if you need tates export restrictions. nt and Your Privacy.

The information on the next screen is optional. Click "Next", and the "Activating the license server..." box will pop-up on top of the Wizard. Then you'll see a progress bar while the wizard again contacts the clearinghouse and this time activates the server.

Activate Server Wizard	X
Company Information Enter this[optional information]	
<u>E</u> mail:	
Organizational unit:	
Company <u>a</u> ddress:	
<u>C</u> ity:	
State/province:	_
Postal code:	_
F provided, the optional information entered on this page will only be used by Microsoft support professionals to help you if you need assistance. For more information, see <u>Remote Desktop License Management and Your Privacy</u> . Activate Server Wizard Activating the license server	
< Back Next >	Cancel

After the server is activated, click "Next" and the wizard will go away. If you wish to add RDS CALs now, make sure to select the "Start Install licensing wizard" checkbox – before clicking next.

tivate Server Wizard		2
-	Completing the Activate Server Wizard	
	You have completed the Activate Server Wizard.	
3 <u></u> R	Status: The Scenes server has been successfully activated	
	To install Remote Desktop Services client access licenses (RDS CALs), click Next.	
	To postpone RDS CAL installation, clear the Start Install Licenses Wizard now check box, and then click Finish.	
	Start Install Licenses Wizard now	
	Car	leor

Note: Once a licensing server is setup, you can come back at any time to add CALs, and you can use a single Licensing server witl all your vSpace servers.

Notice that the Licensing server's "Activation Status" has now changed to Activated.

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		`		
Name	Activation Status	Discovery Scope	Configuration	
WIN-74NBJRGLLKI	Activated	Workgroup	OK	
	er Name WIN-74NBJRGLLKI	er Name Activation Status Activated	er Name Activation Status Discovery Scope WIN-74NBJRGLLKI Activated Workgroup	er Name Activation Status Discovery Scope Configuration WIN-74NBJRGLLKI Activated Workgroup OK

Section 2: Connecting your vSpace server to your RDS licensing server

With the RDS licensing server activated and licenses installed, we now need to point our vSpace Host to the licensing server. To do this, go to Windows Server Manager > Roles > Remote Desktop Services > RD Session Host Configuration: "Host Name" and Double click on Remote Desktop Licensing Servers

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Server Manager (WIN-74NBJRGLLKI)	RD Session Host Configuration: WIN-74NBJRGLLKI				Acti	ons	
Roles Remote Deckton Services	ktop Services App Manager (WIN-74NE ion Host Configuration: nsing Diagnosis Dothers Foreira Manager WIN-74NBJRGLLKI You can use Remote Desktop Session Host Configure settings for new connections, more connections, and delete connections. You can configure settings on a per-connection basis, or for the R					RD S	Session Host Configuration: WIN-7 🔺
Remote Desktop Services							Create New Connection
E 🥁 RD Session Host Configuration: \					connections, mod	Q	Refresh
of Licensing Diagnosis					asis, or for the R	-	View
Features	whole.						
Diagnostics	Connections						Help
Configuration	Connection Name	Connection Type	Transport	Encryption	Comment		
i i i i i i i i i i i i i i i i i i i	RDP-Tcp	Microsoft RDP 6.1	tcp	Client Compatible	Common		
	Edit settings						
	General						
	E Delete temporary fo	lders on exit	Yes				
	😢 Use temporary folde	ers per session	Yes				
	Restrict each user t	o a single session	Yes				
	🖆 User logon mode		Allow all	connections			
	Licensing						
	Remote Desktop lic	ensing mode	Not spec	cified			
<	📻 Remote Desktop lic	ense servers	Not spec	ofied >			
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Specify "Per User" licensing mode and Click the Add button

Properties	×
General Licensing RD Connection Broker RD IP Virtualization	
Remote Desktop licensing mode	
O Not specified	
© Per Device	
• Per <u>U</u> ser	
The Remote Desktop Session Host server will send requests for RDS CALs to the specified license servers in the order in which the license servers are listed. Specified license servers:	
Mgye Down	
Add <u>H</u> emove	
OK Cancel Apply	

In the next window select the licensing server you want to use from the list of "known License servers." Click the "Add" button to move that server over to the "Specified license servers" area.

elect a license server from the list of known dd. Only local license server and SCP regist	icense servers, or type in the name or IP ared license servers are shown as Know	address of a license server, and then click n license servers.
nown license servers:	Specified license s	ervers:
	Add>	Move Up
	< <u>R</u> emove	Mo <u>v</u> e Down
icense server name or IP address:		
	Add>	

Then click "OK."

dd. Only local license server and SCP registere	ed license serv	ers are shown as Known	license servers.	arver, and then click
nown license servers:		Specified license se	ervers:	
Local] 2k8R2Test.redding.ncomputing.loc (64Test.redding.ncomputing.local		2k8R2Test.redding	ncomputing local	•
	Add>			Move Up
	<remove< td=""><td></td><td></td><td>Move Down</td></remove<>			Move Down
icense server name or IP address:				
	Add>	1		

Your newly activated licensing server will now show up in the "specified license servers" box. Click "OK" to close this window.

Properties	×
General Licensing RD Connection Broker RD IP Virtualization	
Remote Desktop licensing mode	
◯ <u>N</u> ot specified	
© Per Device	
Per User	
Remote Desktop license servers The Remote Desktop Session Host server will send requests for RDS CALs to the specified license servers in the order in which the license servers are listed. Specified license servers: WIN-74NBJRGLLKI Move Up Move Down	
Add	
OK Cancel Apply	

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The Host is now configured as a licensing server and you've also defined which server (in this case, itself) is managing its RDS CALs. The Licensing section of "RD Session Host Configuration" should now read:

Remote Desktop Licer Remote Desktop licen	nsing Mode Ise server	"Per User" "Specified"	
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Server Manager (WIN-74NB/RGLIKI) Server Manager (WIN-74NB/RGLIKI) Remote Desktop Services Remote App Manager (WIN-74NE Remote App Manager (WIN-74NE Remote App Manager (WIN-74NE Remote Desktop Services Manag Remote Desktop Services Manag Remote Desktop Services Manag	RD Session Host Configuration: WIN-74N Connections Connection Name Connection Type BDP-Tcp Microsoft RDP 6.1	BDRGLLKT	Actions RD Session Host Configuration: WIN-7 Create New Connection Refresh View View View View View
Image: The Diagnostics Image: The Diagnostics <t< td=""><td>Edit settings General</td><td></td><td></td></t<>	Edit settings General		
	Delete temporary folders on exit Use temporary folders per session Restrict each user to a single session User logon mode	Yes Yes Allow all connections	
<	Licensing Period Remote Desktop licensing mode Remote Desktop license servers RD Connection Broker	Per User Specified	
	Member of fam in RD Connection Broker RD IP Virtualization	No	
X >			-