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Installing a Windows Based License Server for IBM Rational Tools

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In this article, we are going to have a look at how to setup a Rational license server on a Windows machine. As of this writing, the latest version or Rational License Key Server (RLKS) is version 8.1.1. There is also an Interim Fix (IFix) 3 which is available for RLKS 8.1.1 and is shown in the following example.

It also turns out that RKLS 8.1.1 is required in order to support Rational tools 7.1.2 and later. When Rational tools (such as ClearCase and ClearQuest) version 7.1.2 are installed, the license client software, also version 8.1.1, is now required to be installed separately (or at least in a separate repository) from the main applications. This client software, Rational License Key Administrator (LKAD), should not be confused with the server software, RLKS.

All of these various software packages, ClearCase/ClearQuest 7.1.2, RLKS 8.1.1, LKAD 8.1.1 are installed using IBM's Installation Manager utility. Installation Manager became available with the release of IBM Rational tools version 7.1. This new installation management methodology now handles all matters related to the installation and patching of IBM Rational software, and in spite of occasional glitches I've found it to be a great improvement from how things were done prior to Rational 7.1.

The first thing to do is to acquire the base version of any software we want to install. These can be downloaded from IBM and are shown in an example screenshot below:

😂 LicAdmin					
File Edit View	Favorites Tools Help				<u></u>
🌀 Back 👻 🌔	🕽 - 🏂 🔎 Search 臒	Folders .			
Address 🛅 \\euro	ope\ccase_rls\ccase_7.1.2\LicAdmin				💌 🋃 Go
Folders	×	Name 🔺	Size	Туре	Date Modified
<		8.1.1-LKAD-Windows-IFix-003 8.1.1-RLKS-Windows-IFix-003 ratLicenseKeyServer-8-1-1_Windows ratLicenseKeyServer-8-1-1_Windows RLKS.8.1.1.Red Hat_Linux_x86 8.1.1-LKAD-Windows-IFix-003.zip 8.1.1-RLKS-Windows-IFix-003.zip endovobeng01_CC2.upd endovobeng01_CC2.upd ratLicenseKeyServer-8-1-1_RHEL_x86.tar ratLicenseKeyServer-8-1-1_Windows.zip ratLKAdministrator-8-1-1_Windows.zip ratLKAdministrator-8-1-1_Windows.zip ratLKAdministrator-8-1-1_RHEL_IPv6_x86.tar	2,004 KB 2,003 KB 1 KB 2 KB 89,250 KB 145,553 KB 101,921 KB 89,250 KB	File Folder File Folder File Folder File Folder File Folder Compressed (zippe Rational License Up Rational License Up Visual Pax Archive Compressed (zippe Compressed (zippe Visual Pax Archive	7/20/2011 10:44 AM 7/20/2011 10:33 AM 7/20/2011 10:33 AM 5/27/2011 10:31 AM 5/27/2011 10:31 AM 5/26/2011 10:43 AM 5/26/2011 3:46 PM 7/14/2011 2:34 PM 4/19/2011 3:01 PM 7/20/2011 10:26 AM 4/19/2011 3:30 PM 4/19/2011 3:30 PM
3 objects				419 MB 📢 L	ocal intranet



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We see marked in red, the Windows version of RLKS 8.1.1 (both zipped and unzipped folders) and also fix pack 3 for RLKS 8.1.1 (zipped and unzipped). Notice that similar folders and zip files are also present for the client machine licensing - LKAD 8.1.1.

BM Installation Manager File Help			_ 🗆 🗙
IBM Installation Manager			
	Install Install software packages.		
	Update Discover and install updates and fixes to installed software packages.	Manage Licenses	
	Modify Change installed software packages by adding or removing features and functions.	Uninstall	
IBM.			

The first step is to bring up Installation Manager (IM), seen in the screenshot above. We assume that this has been installed. If it has not, you might want to consult some of my previously published articles. Or, consult IBM documented sources, for that matter!

Anyway, once IM has been launched, we need to specify the package(s) that we will use IM to install. See the next screenshot.



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🚇 IBM Installation Manager	terre .				
File Help	-				
Open 🕨					
🥫 View Log	anager				
Installation History					
🖳 View Installed Packages					
Preferences Exit		Install Install software packages.			
	R	Update Discover and install updates and fixes to installed software packages.	40-1	Manage Licenses	
			E	Roll Back	
		Modify Change installed software packages by adding or removing features and functions.	4	Uninstall	
IBM.					

Pull down the File menu, and select Preferences to set the repository location(s).

Preferences				
type filter text	Repositories			⇔ - ⇔ - ▼
Repositories Appearance	Repositories:			
 Files for Rollback ■ Help 	Location		Connection	Add Repository
Internet Passport Advantage				Edit Repository
Updates				Remove Repository
				Move Up
				Move Down
				Clear Credentials
				Test Connections
	Service repositories are remote locations where up	dates or extensions to packages (including the Install	ation Manager itself) are sto	ored. 💌
0			(OK Cancel

Under the Preferences panel, select Repositories in the upper left column, and click the Add Repository button on the right.



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Preferences		
type filter text	Pennsitoriae	
Appearance Files for Rollback Help Internet	Add a repository Specify a repository and add to the repository preference list.	Add Repository
— Passport Advantage — Updates	Repository: \leurope\ccase_rls\ccase_7.1.2\LicAdmin\ratLicenseKeyServer-8-1-1_Windows\RLKSSERVER_SETUP\ V Browse	Remove Repository Move Up
		Move Down Clear Credentials
		Test Connections
0	OK Cancel	OK Cancel

After the Add button is clicked, a pop-up appears which allows us to browse to the location of the package(s) we are interested in. Usually any package will have a suffix of .inf or .config. Select the required package and click OK on the pop-up.

Preferences			
Preferences type filter text Repositories Appearance Files for Rollback Help Internet Passport Advantage Updates	Repositories Location V \\europe\ccase_rls\ccase_7.1.2\LicAdmin\ratLicenseKeyServer-8-1-1_Windows\RLKSSERVER_SETUP\disk1\diskTag.inf V \\europe\ccase_rls\ccase_7.1.2\LicAdmin\8.1.1-RLKS-Windows-IFbx-003\lfbx\repository.config	Connection	Add Repository Edit Repository Remove Repository Move Up Move Down Clear Credentials Test Connections
0	Service repositories are remote locations where updates or extensions to packages (including the Installation Manager itself) are s	tored.	OK Cancel

Here we have selected both the RLKS package, and its Interim Fix (IFix) 3 package to install along with the main package. Click Test Connections first to insure that all packages are recognized, and then click OK to close Preferences.



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BM Installation Manager File Help			
IBM Installation Manager			
	Install Install software packages.		
	Update Discover and install updates and fixes to installed software packages.	Manage Licenses	
	Modify Change installed software packages by adding or removing features and functions.	Uninstall	
IBM.			

Now that we have specified the packages that we want IM to work with, click on the Install button on the main IM console. This will initiate the installation process, and the selected package(s) will be displayed. The next screenshot shows the RLKS package and version that will be used in this installation activity.

M Installation Manager			
Install Packages Select packages to install:			
Installation Packages	Status	Vendor	License Key Type
IBM® Rational® License Key Server IG IBM® Rational® License Key Server IG		IBM	
		[a. 15	r Other Versions, Fixes, and Extensions
Show all versions		Check to	other versions, rikes, and extensions
Details IBM® Rational® License Key Server 8.1.1 IBM® Rational® License Key Server <u>More info</u>	ross\com.ibm.rational.license.key.server_8.1.1		I other versions, rices, and excersions
Show all versions Details IBM® Rational® License Key Server 8.1.1 IBM® Rational® License Key Server <u>More info</u> • Repository: C:\DOCLME~1\rross\LOCALS~1\Temp\cicvolcache_rr	ross\com.ibm.rational.license.key.server_8.1.1		Next > Install Cance



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In the prior screenshot, we saw the RLKS package, along with its version number, which IM is ready to use. Check the boxes next to RLKS and then click on the "Check for Other Versions, Fixes, and Extensions" button. We then see IM search for all the fix packages and other related content.

Installation Packages	2.1	tatus	Vendor	License Key Type
IBM® Rational® License Key Server ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓	w	ill be installed	IBM	
P	ogress Information			
	j) Getting packages from repository.			
	~			
			Cancel	
Show all versions			Check for	Other Versions, Fixes, and Extensions
etails				
BM® Rational® License Key Server 8.1.1 BM® Rational® License Key Server <u>More info</u>				

Once this process is finished, we see the results in the next screenshot, where these results are announced.



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Installation Packages		Status	Vendor	License Key Type
IBM® Rational® License Key Ser ↓ Ø ↓ Ø ↓ Ø ↓ Ø ↓ Ø ↓ Ø ↓ Ø ↓ Ø ↓ Ø ↓ Ø	ver	Will be installed	IBM	
	🛎 Search Result		×	
	1 fix of the selected Click Next to see all	packages was found before the proces fixes for the selected packages.	ОК	
			Check for	r Other Versions, Fixes, and Extensions
Show all versions				
			Check for	r Other Versions, Fixes, and E

Above, we see the results of the search. The IFix 3 has been located and will be included in the list of packages to install. Click OK to proceed on to the next step.



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nstall Packages		
elect the fixes to install.		1
		->L
Fixes	Recommended	Vendor
IBM® Rational® License Key Server 8.1.1 IBM Rational License Key Server Interim Fix 03 1.0.0.20110214_1152	1	IBM
Show recommended only	Select Reco	mmended) Check for Other Fixe
	Select Reco	mmended) Check for Other Fixe
etails M Rational License Key Server Interim Fix 03 1.0.0.20110214_1152	Select Reco	mmended) Check for Other Fixe
Show recommended only etails 3M Rational License Key Server Interim Fix 03 1.0.0.20110214_1152 his is an Interim Fix patch for IBM Rational License Key Server v. 8.1.1.0. <u>More info</u>	Select Reco	mmended Check for Other Fixe
etails IM Rational License Key Server Interim Fix 03 1.0.0.20110214_1152	Select Reco	mmended Check for Other Fixe

Above, both the base package of RLKS 8.1.1, and IFix 3 are located and displayed. Click Next to continue the installation.

IBM Installation Manager Install Packages Validate the prerequisites for the selected packages. Click th	he marked nodes for additional information about prerequisites.	
Install Prerequisite Licenses	Location Features Summary	
Validation Results		
🕙 IBM® Rational® License Key Server 8.1.1	STOPI Before proceeding with this install, please close all applications and disable anti-virus software.	
	Recheck Statu	JS
)	< Back Next > Install Ca	ancel

In the screenshot above, make sure there are no outstanding prerequisites before continuing. Here, we might want to shut down any anti-virus software. Click Next.



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Design for the base of the second sec	
Read the following license agreements carefully.	
Install Prerequisite Licenses Location Features	Summary
International Program License Agreement	×
Part 1 - General Terms	
BY DOWNLOADING, INSTALLING, COPYING, ACCESSING, CLICKING ON AN "ACCEPT" BUTT AGREEMENT. IF YOU ARE ACCEPTING THESE TERMS ON BEHALF OF LICENSEE, YOU REPRE TERMS. IF YOU DO NOT AGREE TO THESE TERMS, DO NOT DOWN OLD INSTALL COPY ACCESS OF CALCULAN INSTALL.	SENT AND WARRANT THAT YOU HAVE FULL AUTHORITY TO BIND LICENSEE TO THESE
- DO NOT DOWNLOAD, INSTALL, COPY, ACCESS, CLICK ON AN "ACCEPT" BUTTON, OR USE	THE PROGRAM; AND
PROMPTLY RETURN THE UNUSED MEDIA, DOCUMENTATION, AND PROOF OF ENTITLEMEN IF THE PROGRAM WAS DOWNLOADED, DESTROY ALL COPIES OF THE PROGRAM.	IT TO THE PARTY FROM WHOM IT WAS OBTAINED FOR A REFUND OF THE AMOUNT PAID.
L. Definitions	
"Authorized Use" - the specified level at which Licensee is authorized to execute or run the P ("MSUS"), Processor Value Units ("PVUS"), or other level of use specified by IBM.	rogram. That level may be measured by number of users, millions of service units
'IBM" - International Business Machines Corporation or one of its subsidiaries.	
"License Information" ("LI") - a document that provides information and any additional terms can also be found in the Program's directory, by the use of a system command, or as a book	
"Program" - the following including the original and all whole or partial copies: 1) machine-re-	adable instructions and data, 2) components, files, and modules, 3) audio-visual content
Frogram - che rollowing, including che originarano all'whole or parcial copies. 1) machine-rec	Party and the second party and the second
randi an sana ang kang miningkan ni ang mang mang kang pang kang pang kang pang kang pang kang pang kang pang T	Print All
 I accept the terms in the license agreement I do not accept the terms in the license agreement 	Print All
Serve a server and a server server and the server as the server and the server and the server and the server and the server as the server	Print All

Accept the license agreement, and then click Next.

M Installation Manager Install Packages				
A package group is a location that contains one or more packages. Some or interface. Select an existing package group, or create a new one.	mpatible packages can be in	stalled into a commo	n package group and will share a common user	7
Install Prerequisite Licenses Location	Features Summ	iary 📄		
Use the existing package group Create a new package group				
Package Group Name	Installat	tion Directory		
Page IBM Rational RLKS Page IBM Rackaging Utility Page IBM Rational SDLC	C:\Progr	am Files\IBM\Rationa am Files\IBM\Packag am Files\IBM\Rationa	ing Utility	
Package Group Name: IBM Rational RLKS Installation Directory: C:\Program Files\JBM\RationalRLKS				Browsen
Details		Disk Spa	ce Information	
Shared Resources Directory: C:\Program Files\IBM\Shared Eclipse IDE: C:\Program Files\IBM\RationalRLKS Installed Packages IBM® Rational® License Key Administrator 8.1.1		Volume C:	Available Space 15.40 GB	
			<back next=""> Install</back>	Cance

We see here that RLKS will be installed in a separate package group. Click Next to proceed to the next screen.



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Install Packages Select the features to install. Install Prerequisite Licenses Location Features Image: Teal of the second secon	
Install Prerequisite Licenses Location Features Summary	
Features	
- ✔ 🕼 IBM® Rational® License Key Server 8.1.1	
Show dependencies %- Selected by Installation Manager because of dependencies	Expand All Collapse All Restore Default
Details	
IBM® Rational® License Key Server 8.1.1	
IRM® Rational® Licence Key Server	
IBM® Rational® License Key Server	
IBM® Rational® License Key Server	

Since RLKS doesn't have any options to include or exclude from an installation, there is nothing further to do here except to click Next.

Install Packages	4
Review the summary information.	
Install Prerequisite Licenses Location Feat Target Location Package Group Name: IBM Rational RLKS Installation Directory: C:\Program Files\IBM\RationalRLKS Shared Resources Directory: C:\Program Files\IBM\Shared	ures Summary
Packages Packages	
□ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □	2
🗉 🏠 IBM® Rational® License Key Server 8.1.1	2
Born BM® Rational® License Key Server 8.1.1 Born Rational License Key Server Interim Fix 03 1.0.0.20110214_115 Born Rational License Key Server Interim Fix 03 1.0.0.20110214_115	2 Disk Space Information
Boy BBM® Rational® License Key Server 8.1.1 BM® Rational License Key Server Interim Fix 03 1.0.0.20110214_115 BM Rational License Key Server Interim Fix 03 1.0.0.20110214_115 Environment	Disk Space Information Total Available Space C: 15.40 GB Total Download Size: 42.53 MB
Brow Rational License Key Server 3.1.1 Brow Rational License Key Server Interim Fix 03 1.0.0.20110214_115 Environment English	Disk Space Information Total Available Space C: 15.40 GB
🗷 🏠 IBM® Rational® License Key Server 8.1.1	Disk Space Information Total Available Space C: 15.40 GB Total Download Size: 42.53 MB

We are now ready to proceed with the actual installation of RLKS. Click Install and the process will begin.



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Install Packages Review the summary information.		
Install Prerequisite Licenses Location Features	Summary	August and August an
Target Location Package Group Name: IBM Rational RLKS Installation Directory: C:\Program Files\IBM\RationalRLKS Shared Resources Directory: C:\Program Files\IBM\Shared Packages		
Packages		
BM® Rational® License Key Server 8.1.1 BM Rational License Key Server Interim Fix 03 1.0.0.20110214_1152		
□ 🚰 IBM Rational License Key Server Interim Fix 03 1.0.0.20110214_1152		
IBM Rational License Key Server Interim Fix 03 1.0.0.20110214_1152	Disk Space Information	
IBM Rational License Key Server Interim Fix 03 1.0.0.20110214_1152	Disk Space Information Total Available Space C: 15,40 GB	
	Total Available Space	
IBM Rational License Key Server Interim Fix 03 1.0.0.20110214_1152	Total Available Space C: 15.40 GB Total Download Size: 42.53 MB	

Here we see the installation process proceeding as depicted in the bar graph. This will continue until the install has completed, as shown in the next screenshot.

BM Installation Manager	
Install Packages	
The packages are installed. <u>View Log File</u>	
The following packages were installed:	
 Settional RLKS IBM Rational@ License Key Server 8.1.1 IBM Rational License Key Server Interim Fix 03 1.0.0.20110214_1152 	
Note: If the packages support rollback, the temporary directory contains rollback files for installed packages. You can delete the files on the <u>Files for rollback</u> preference page.	Finish

The install for RLKS 8.1.1 and Interim Fix 3 has completed. Click Finish to proceed.



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BM Installation Manager File Help			. • ×
IBM Installation Manager			
1	Install Install software packages.		
	Update Discover and install updates and fixes to installed software packages.	Manage Licenses	
	Modify Change installed software packages by adding or removing features and functions.	Uninstall	
IBM.			

Once the installation in question has been completed, we return to the original IM screen. We are done with the install, so we can now exit IM.

The next set of screenshots depicts how to use the RLKS which we have just installed to actually setup and serve licenses to client machines. In our present example, the same machine will be used as both the server and client, but the mechanics are identical regardless of whether the client machine serves licenses to itself, or if the licenses are served to the client from some other machine.

What this means is that both RLKS and LKAD are active on the client machine. We will see examples of the use of both the server and client software, respectively, in the upcoming screenshots.



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The first thing to do is to start up the RLKS software. The screenshot above shows both RLKS (License Tools) and LKAD (License Key Administrator) in the same folder. We will launch RLKS.



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LMTOOLS by Flexera Software, Inc.
File Edit Mode Help
Service/License File System Settings Utilities Start/Stop/Reread Server Status Server Diags Config Services Borrowing
Services allow FLEXnet Servers to run in the background.
Server List
Configuration using Services FLEXIM License Manager LMTOOLS ignores license file path environment variables

Above we see RLKS 8.1.1 after it is launched. As of yet we have no license file to use in serving licenses, and we must request a license file from the vendor. First, click on the System Settings tab to obtain the necessary information for the vendor to issue licenses.

LMTOOLS by Flexera So	oftware, Inc.				
File Edit Mode Help					
Service/License File System Settings Utilities Start/Stop/Reread Server Status Server Diags Config Services Borrowing					
Hostid Settings		Time Settings			
Computer/Hostname	britain	System Time Zone	Pacific Standard Time		
II	rross	GMT Time	Fri Jul 22 15:05:04 2011		
CPU ID [Difference From UCT	480		
É Carlo de C	10.22.10.78	MSDOS Time	08:05:04		
Ľ	00188b045484	Local Time	1311347104		
Number FLEXID	f099c382	Windows Directory	C:\WINDOWS		
			Save HOSTID Info to a File		

The vendor will need both the hostname and Ethernet address to generate a license. Pass these along to the vendor, and wait to receive a license file.



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Above we see the file received from the vendor, and the location in which it was installed to be referenced later by RLKS.

🕞 BRITAIN.upd - Notepad 📃 🗖 🗙
File Edit Format View Help
<pre>////////////////////////////////////</pre>
INCREMENT ClearCase rational 1.00000 17-jun-2012 2 627B90A14043 \ VENDOR_STRING="0 Floating 0 ClearCase:1.0" DUP_GROUP=U \ vendor_info="0 IBM Rational ClearCase Floating License Key \ (FLEX1m license manager) 0" ISSUED=22-jul-2011 NOTICE="Sales Order Number: 0081005170 for Sirius Computer Solutions, Inc." ck=72 SN=5721178

Here are the contents of the license file. Note that both the hostname and Ethernet address are a necessary part of the license file structure.



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LMTOOLS by Flexera Software, Inc.
File Edit Mode Help
Service/License File System Settings Utilities Start/Stop/Reread Server Status Server Diags Config Services Borrowing
Configure Service Service Service Remove Service
Path to the Imgrd.exe file m Files\IBM\RationalRLKS\common\Imgrd.exe Browse
Path to the license file ationalRLKS\common\rational_server_temp dat Browse
Path to the debug log file C:\Program Files\IBM\RationalRLKS\common\I Browse View Log Close Log
Start Server at Power Up 🔽 Use Services

Click on the RLKS Config Services tab. Enter the name of the new vendor license file.

LMTOOLS by Flexera Softwa	re, Inc.	
File Edit Mode Help		
Service/License File System Set	tings Utilities Start/Stop/Reread Server Status Server Diags	Config Services Borrowing
Configure Service Service Name	FLEXIm License Manager	Save Service Remove Service
Path to the Imgrd.exe file	m Files\IBM\RationalRLKS\common\Imgrd.exe	
Path to the license file	iles\IBM\RationalRLKS\common\BRITAIN.upd Browse	
Path to the debug log file	C:\Program Files\IBM\RationalRLKS\common\I Browse	View Log Close Log
G Start Server at Pou	ver Up 🔽 Use Services	

Once we have the correct license file specified, click Save Service to commit the change.



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LMTOOLS by Flexera Softwa	re, Inc.	_ _ X				
File Edit Mode Help						
Service/License File System Set	tings [Utilities Start/Stop/Reread Server Status Server Diags	Config Services Borrowing				
Configure Service Service Name	FLEXIm License Manager	Save Service Remove Service				
Path to the Imgrd.exe file	C:\Program Files\IBM\RationalRLKS\common\I Browse Browse					
Path to the license file	iles\IBM\RationalRLKS\common\BRITAIN.upd					
Path to the debug log file	C:\Program Files\IBM\RationalRLKS\common\I Browse	View Log Close Log				
🔽 Start Server at Pov		LMTOOLS by Flexera Software, Inc. X Would you like to save the settings for the service: FLEXIm License Manager ?				
	Yes No	Cancel				

Give assent to the changes by clicking Yes on the pop-up that appears.

LMTOOLS by Flexer	ra Software, Inc.						
File Edit Mode Help	p						
Service/License File	System Settings Utilities	Start/Stop/Reread	Server Status	Server Diags	Config Services	Borrowing	
FLEXinet license services installed on this computer							
	Start Server	Stop S	erver	ReRe	ad License File		
	Advanced settings >>	NOTE: This	rver Shutdown box must be che s are borrowed.	cked to shut do	own a license servi	er	
Using License File: C:\Program Files\IBM\RationalRLKS\common\BRITAIN.upd							

Then click on the Start/Stop/Reread tab, and click ReRead License File. This will cause the licenses to be imported into RLKS, after which they can be served out to client machines.



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LMTOOLS by Flexera Soft	ware, Inc.
File Edit Mode Help Service/License File System :	Settings Utilities Start/Stop/Reread Server Status Server Diags Config Services Borrowing FLEXnet license services installed on this computer FLEXIm License Manager
	art Server Stop Server ReRead License File

Note the text outlined in red, which acknowledges that we have reread the license file. We are now ready to start the license server and inspect the client LKAD software for the presence of valid licenses.

LMTOOLS by Flexera Software, Inc.	\mathbf{X}						
File Edit Mode Help							
Service/License File System Settings Utilities Start/Stop/Reread Server Status Server Diags Config Services Borrowing							
FLEXnet license services installed on this computer FLEXIm License Manager							
Start Server Stop Server ReRead License File Advanced settings >> Force Server Shutdown NOTE: This box must be checked to shut down a license server when licenses are borrowed.							
Server Start Successful.							

Click on Start Server, and note that RLKS started successfully.



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S IBM Rational License Key Adminis	trator						
File View License Keys Settings Help							
<u> • • 6 # 7</u>							
Product		License Typ	e	Expiration	License Term	Qty	
Client/Server Configuration			X				
🔽 Use License Server							
Search Order:	Settings:						
⊻ britain Up	Properties	Values					
Down	Server Type	Single					
	Server Name	britain					
	Port	27001					
		1.2					
			Server License	\$			×
Add Server	S	how Licenses	Server Licenses of	an only be modifie	d from the License	Administrator runn	ing on the License
Remove Server	2		Server. This read-only dis	play is here for you	r information only.		
	ОК	Cancel	Otv Produc			License Type	Expiration
2			2 IBM Ra	itional ClearCase F	loating License	Floating	17-jun-2012
			<				>
					Close	1	
						J	
Ready		13	DISPLAT F	ILTER IS OFF			

Above we have the client machine LKAD panel. Pull down the Settings menu, and select Client/Server Configuration. We first configure the server and port number in LKAD. We then click on Show Licenses and we can see in the subsequent pop-up the licenses that were contained in the license file that we received from the vendor and imported.

N IBM Rational License Key Administrator				
File View License Keys Settings Help				
<u> 4 Se 6 19 ?</u>				
Product	License Type	Expiration	License Term	Qty
B IBM Rational ClearCase Floating License Key (FLEXIm license manager)	Served by britain	17-JUN-2012	Temporary	2
Ready	DISPLAY FILTER	is OFF		

Close all the pop-ups, and now we see the licenses that the client machine recognizes.



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If there were multiple servers available, LKAD could be configured to use any available servers, and the results would be displayed in the main window for the application.

This concludes our topic on setting up RLKS 8.1.1, along with a few tips on LKAD 8.1.1. Both can be on a single machine, which would make the machine both server and client, as shown in our example. Perhaps more common would be the case where RLKS is installed on a generic license server, which contains license software for other vendors and products, the machine being dedicated only to the task of serving licenses.

LKAD is required when installing Rational tools on a client machine. This is the communications link to the license server, and the Rational applications (ClearCase, ClearQuest, etc) communicate with LKAD in order to access the licenses which are being provided by the RLKS server.

As stated earlier, prior to version 8.1.1, LKAD was installed as part of the application package group. With the arrival of Rational 7.1.2, LKAD has been separated out and is now installed in its own package group. This is probably a better idea, since application packages can be installed and removed without affecting the LKAD which is installed on the client machine.