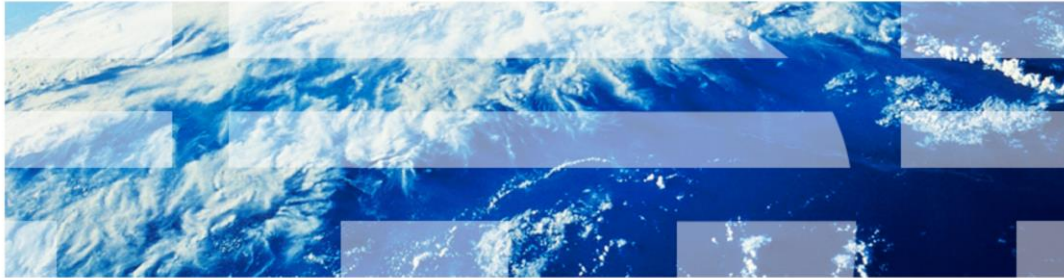


IBM Rational Performance Tester V8.2

Virtual tester license configuration



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This is an overview of virtual tester licensing for IBM Rational Performance Tester V8.2.

Agenda

- Licenses for executing load testing in Rational Performance Tester
- Types of virtual tester license keys
- Prerequisites for virtual tester licensing
- Setting up Rational License Key Administrator for virtual tester licensing
- Common Issues and troubleshooting

This presentation explains the various types of virtual tester license keys, licenses for load testing in Rational Performance Tester, and prerequisites for virtual tester licensing. This presentation also covers setting up IBM Rational License Key Administrator with a Rational Performance Tester V8.2 client for virtual testing. Additionally, this presentation describes common issues and troubleshooting for virtual tester licensing.

Licenses for running load testing in Rational Performance Tester

- You can run load test for different types of scripts
- Base license for allows a load test with up to five virtual users
- Load tests with more than five virtual users requires virtual tester licenses

Rational Performance Tester allows users to run load tests for different types of scripts. A base license for Rational Performance Tester allows for a load test of up to five virtual users. For any load test requiring more than five virtual users, you must have virtual tester licenses.

Types of virtual tester licenses (1 of 3)

- Two virtual tester license key types:
 - Pooled virtual testers
 - Unpooled virtual testers

There are two types of virtual tester licenses for Rational Performance Tester: pooled and unpooled. Note that the terms “pooled” and “unpooled” are not specified when downloading licenses from the IBM Rational License Key Center website.

Types of virtual tester licenses (2 of 3)

- Pooled virtual tester licenses
 - Only available in small quantities - 50 or fewer virtual users
 - Minimum number of virtual users is five
 - No limit on packs of pooled licenses
 - You can run any test which has 1 to 5000 virtual users

Pooled virtual tester licenses are only available in small quantities. Typically, pooled virtual tester licenses are for 50 or fewer virtual users. The minimum number of virtual users is five. There is no limit to the number of pooled virtual tester packs you can acquire. For example, you can have 1,000 licenses of a 5-virtual user tester pack. In that situation, you have a total of 5,000 virtual user licenses for running tests. With pooled virtual tester licensing, you can run tests with any number of virtual users from 1 to 5,000.

Types of virtual tester licenses (3 of 3)

- Unpooled virtual licenses
 - Available in larger quantities - more than 50
 - Maximum number of virtual users is 100,000

Unpooled virtual tester licenses are available in larger quantities. You can have unpooled virtual tester licenses for more than 50 virtual users. The maximum number of virtual users is 100,000.

Prerequisites for virtual tester licensing

- Use Rational License Key Server V8.1 with latest update
- Virtual tester licenses imported into license server
- Rational License Key Administrator installation test client machine
- On UNIX platforms, include the PACKAGE line in the license file
 - An example PACKAGE line for a 100 virtual user license:

```
ck=194 SN=6466508 SIGN="0070 7C2F 2FA0 C49B 1F82 A94:  
3D00 03F5 5CE4 A927 795B 76CD 3C4F 11AB"  
PACKAGE LT_Playback_100VU rational 7.5 10B297DCA509 \  
COMPONENTS="LTvu:7.1:100 LT_100VT:8.0:1"  
[root@RHEL5U564B config]#
```

- More information: <http://www.ibm.com/support/docview.wss?uid=swg21299111>

You must use IBM Rational License Key Server V8.1 with the latest update. You definitely need to apply the latest iFix or fix pack if you are using a patched version of Rational Performance Tester. Virtual tester licenses must be imported on the license server. The virtual tester licenses can be of any configuration, including 50, 500, or 1,000 virtual user packs. There must be an IBM Rational License Key Administrator V8.1 installation on the Rational Performance Tester client machine that is configured to point to the license server with the virtual tester licenses. If you import virtual tester licenses on a UNIX platform, be sure to include the PACKAGE lines in the license file. You can find more information on the PACKAGE line requirements in technote 1299111.

Setting up License Key Administrator for virtual tester licensing (1 of 3)

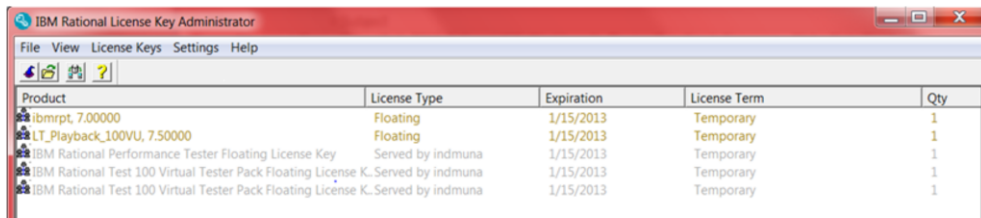
- Install Rational License Key Administrator on the Rational Performance Tester client
- You can install separately during Rational Performance Tester installation

Installation Packages	Status	Vendor
<input checked="" type="checkbox"/> IBM® Rational® License Key Administrator		
<input checked="" type="checkbox"/> Version 8.1.1	Will be installed	IBM
<input checked="" type="checkbox"/> IBM® Rational® Performance Tester		
<input checked="" type="checkbox"/> Version 8.2.0	Will be installed	IBM

As stated in the prerequisites, you must install Rational License Key Administration V8.1 on the same machine as Rational Performance Tester V8.2. The Rational License Key Administrator installation uses IBM Installation Manager. You can install the component separately or at the same time as you install Rational Performance Tester.

Setting up License Key Administrator for virtual tester licensing (2 of 3)

- Open Rational License Key Administrator as a administrative user
- Configure a connection to the license server with the virtual tester licenses



The screenshot shows the IBM Rational License Key Administrator application window. The window title is "IBM Rational License Key Administrator". The menu bar includes "File", "View", "License Keys", "Settings", and "Help". Below the menu bar is a toolbar with icons for home, refresh, and help. The main area displays a table with the following data:

Product	License Type	Expiration	License Term	Qty
ibmrpt, 7.00000	Floating	1/15/2013	Temporary	1
LT_Playback_100VU, 7.50000	Floating	1/15/2013	Temporary	1
IBM Rational Performance Tester Floating License Key	Served by indmuna	1/15/2013	Temporary	1
IBM Rational Test 100 Virtual Tester Pack Floating License K.Served by indmuna		1/15/2013	Temporary	1
IBM Rational Test 100 Virtual Tester Pack Floating License K.Served by indmuna		1/15/2013	Temporary	1

Once you have installed Rational License Key Administrator, open it while logged in as a user with administrative privilege. In Microsoft Windows 7 and Windows 2008 Server, you should open the component with the “Run as administrator” option. Once you open Rational License Key Administrator, configure it to point to the license server containing the virtual tester licenses.

Setting up License Key Administrator for virtual tester licensing (3 of 3)

- For UNIX platforms...
 - Navigate to user home directory
 - Run the command: `cat .flexlmrc`
 - Input the contents as shown in this example:

```
[test1@RHEL5U564B ~]$ pwd
/home/test1
[test1@RHEL5U564B ~]$ cat .flexlmrc
RATIONAL_LICENSE_FILE=27000@license_server

[test1@RHEL5U564B ~]$
```

Rational License Key Administrator is not available on UNIX platforms. Therefore, you must navigate to the home directory and run the command “`cat .flexlmrc`.” This command creates the “`flexlmrc`” file. You then add a line to the file with the “`RATIONAL_LICENSE_FILE`” variable containing the license server information.

Common issues and troubleshooting (1 of 2)

- Error connecting to license server when executing load test for more than five users



Possible causes:		Corresponding Solutions:
1	Virtual Tester licenses not imported in the license server	Import virtual tester licenses into the license server
2	License Key Administrator not installed	Install Rational License Key Administrator
3	License Key Administrator is not configured by an Administrator	Launch Rational License Key Administrator as an administrator before configuring connections to the license server
4	PACKAGE lines not present in the license file for a UNIX license server	Copy and paste the PACKAGE lines as mentioned in technote 1299111

Failure to meet the prerequisites can result in error messages when trying to run load tests for more than five users. See the table in this slide to review how to identify and resolve missing prerequisites.

Common issues and troubleshooting (2 of 2)

- Cannot share one virtual tester license among clients at one time
- For example:
 - You import one 500 virtual tester license pack
 - Only one Rational Performance Tester client can run a load test at a time
 - The pack cannot be split in any permutation or combination (200+300, 250+250, and so on)
- More information: <http://www.ibm.com/support/docview.wss?uid=swg21142829>

A single Virtual Tester License cannot be shared among different Rational Performance Tester clients at any single point in time. For example, if you import only one 500 virtual tester license, then only one Rational Performance Tester client can be running a load test at any moment in time. The license cannot be split into any permutation or combination of virtual users. More information on this behavior is in technote 1114829.

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