

AD SWAT

DevTest
9.1



Upgrade DevTest from 8.x to 9.1

CA DevTest 9.1

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Date: March 2016

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Chapter 1: Introduction

Purpose

The purpose of this doc is to assist the CA DevTest administrators to upgrade their CA DevTest 8.x version to the newest CA DevTest 9.1. This doc assumes that you already have DevTest 8.x that is to be migrated to 9.1. As a sample use case, this document uses DevTest 8.5 as the older DevTest install which is upgraded to DevTest 9.1.

The DevTest 9.1 docs can be found here -

<https://docops.ca.com/display/DTS91/>

Document Changes

Version	Date	Author	Version
9.1.0.399 GA	03.09.2016	Koustubh Warty	Version 2

Important Changes for DevTest 8.x onwards

#	Marquee Feature	Details
1	Licensing	Moved from component licensing to concurrent user licensing. No Internet access to License server required. Only file based licensing
2	Enterprise Dashboard	Reports on license usage and is a mandatory component.

Reporting Issues

Please send your questions/comments/concerns on this document to Koustubh.Warty@ca.com or Ulrich.Vogt@ca.com

Chapter 2: Prerequisites

Understand the key points prior to migration

Supported Migration Releases

- The assumption here is that you have an existing older version of CA DevTest 8.x and you want to upgrade to the latest CA DevTest 9.1 release
- This doc is based on the DevTest 9.1 x64 Windows Installer
- As long as you have CA DevTest version 8.x and above, you can upgrade directly to DevTest 9.1

Enterprise Dashboard

- The Enterprise Dashboard manages the license and is therefore a mandatory component to install
- The 9.x installer will detect an existing 8.x Dashboard and reuse the existing Dashboard configuration and also puts down the new 9.1 Dashboard.
- For an in-place upgrade, the installer will NOT show the Enterprise Dashboard screen and the license screen as your existing install already has the license in the right location.
- However for a fresh DevTest 9.1 installation, the installer will prompt you for the license location and then copy the license file to {{LISA_HOME}} directory on the Server where your Enterprise Dashboard is installed
- The license file is not required on any other Server or Workstation

Databases

- DevTest 9.x now supports in-place upgrade from a previous release and also lets you preserve your existing database from the prior release. This is true for both the DevTest Registry database as well as the Enterprise Dashboard database.

Supported Internet Browsers

Please refer to the documentation bookshelf → Install Guide at <https://docops.ca.com/display/DTS91/>

Chapter 3: Pre-Installation Checklist

Licensing

Your existing 8.x license will work with DevTest 9.x.

Backup Data

This is a mandatory step that needs to be done prior to proceeding with the upgrade. We will be doing an in-place upgrade which necessitates to back up the following to a remote location -

- The entire existing DevTest 8.x folder

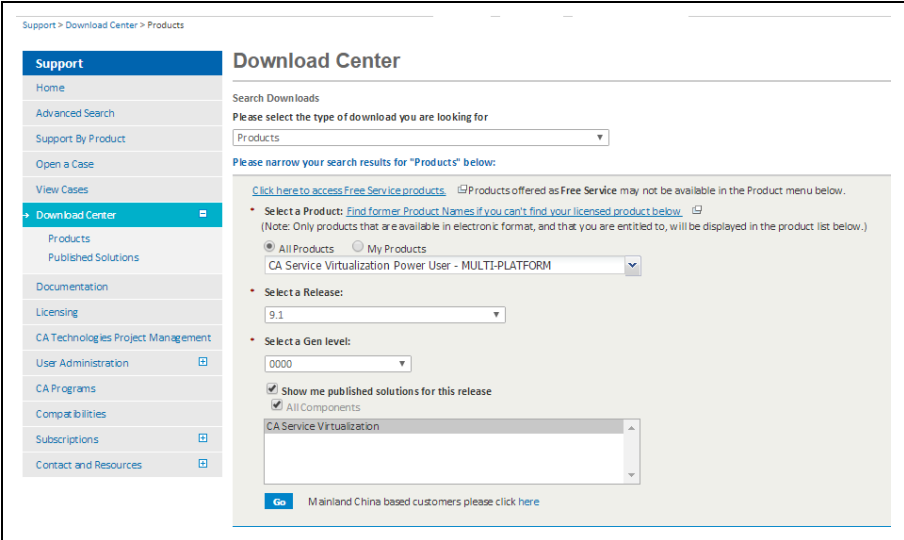
This would take care of the following which are important files in your installation

- Properties files (local, site, lisa)
- Virtual Services (if stored locally)
- Application Test tests (if stored locally)
- HotDeploy folder
- vseDeploy folder
- lib
- any custom folders

If you have stored your existing Tests and Virtual Services in a Source Control Repository, then the recommendation is to make a copy of those assets. Once that copy is created, you can use the new copy with DevTest 9.1. In this case, if there are any issues, then you would have a backup to fall back on if required.

NOTE: All the above files and folders are preserved during the upgrade from the previous release and should be untouched. The backup is only done if there was to be an unforeseen issue during the in-place upgrade.

Download



DevTest 9.1 can be downloaded from the CA Support site at <http://support.ca.com> → Download Center -->Products. Search for CA Service Virtualization

Product Components				Add to cart	Download
DevTest 9.1 Demo Server GEN01104300E.zip	N/A	02/01/2016	493.43MB	<input type="checkbox"/>	Download
DevTest 9.1 Linux GEN01104338E.zip	N/A	02/01/2016	1.11GB	<input type="checkbox"/>	Download
DevTest 9.1 Linux x64 GEN01104359E.zip	N/A	02/01/2016	1.11GB	<input type="checkbox"/>	Download
DevTest 9.1 OSX GEN01104420E.zip	N/A	02/01/2016	1.18GB	<input type="checkbox"/>	Download
DevTest 9.1 Solaris Sparc GEN01104444E.zip	N/A	02/01/2016	1.15GB	<input type="checkbox"/>	Download
DevTest 9.1 Solaris x64 GEN01104507E.zip	N/A	02/01/2016	1.15GB	<input type="checkbox"/>	Download
DevTest 9.1 Unix (no JRE) GEN01104530E.zip	N/A	02/01/2016	1.27GB	<input type="checkbox"/>	Download
DevTest 9.1 Windows GEN01104553E.zip	N/A	02/01/2016	1.16GB	<input type="checkbox"/>	Download
DevTest 9.1 Windows x64 GEN01104615E.zip	N/A	02/01/2016	1.17GB	<input type="checkbox"/>	Download

Depending on your permissions, you should see the above. If you are not able to view similar to above, please contact your account manager

Once you select Go, you will see a list of the installers for various operating systems as well as the zip for the DevTestDemoServer as shown below

There is a single installer per platform

The installer starts with prefix 'DevTest' so the installer for Windows 64 Bit will be called 'DevTest_win_x64.exe'.

Product Components				Add to cart	Download
DevTest 9.1 Demo Server GEN01104300E.zip	N/A	02/01/2016	493.43MB	<input checked="" type="checkbox"/>	Download
DevTest 9.1 Linux GEN01104338E.zip	N/A	02/01/2016	1.11GB	<input type="checkbox"/>	Download
DevTest 9.1 Linux x64 GEN01104359E.zip	N/A	02/01/2016	1.11GB	<input type="checkbox"/>	Download
DevTest 9.1 OSX GEN01104420E.zip	N/A	02/01/2016	1.18GB	<input type="checkbox"/>	Download
DevTest 9.1 Solaris Sparc GEN01104444E.zip	N/A	02/01/2016	1.15GB	<input type="checkbox"/>	Download
DevTest 9.1 Solaris x64 GEN01104507E.zip	N/A	02/01/2016	1.15GB	<input type="checkbox"/>	Download
DevTest 9.1 Unix (no JRE) GEN01104530E.zip	N/A	02/01/2016	1.27GB	<input type="checkbox"/>	Download
DevTest 9.1 Windows GEN01104553E.zip	N/A	02/01/2016	1.16GB	<input type="checkbox"/>	Download
DevTest 9.1 Windows x64 GEN01104615E.zip	N/A	02/01/2016	1.17GB	<input checked="" type="checkbox"/>	Download

You can either *Download* from here directly or select *Add to Cart* for the various downloads (as required) and then select *View Download Cart*.

My Download Cart

View 6 Day Cart History

View Download Instructions

Empty Cart

Product	Release	OS	Title	Fix #	File	Delete	Download
CA Service Virtualization Power User - MULTI-PLATFORM	9.1	N/A	DevTest 9.1 Windowsx64	N/A	GEN01104615E.zip		Download
CA Service Virtualization Power User - MULTI-PLATFORM	9.1	N/A	DevTest 9.1 Demo Server	N/A	GEN01104300E.zip		Download

Name	Date modified	Type	Size
devtest_linux_x64.sh	2/4/2016 12:09 PM	SH File	1,160,080 KB
devtest_win_x64	2/4/2016 12:09 PM	Application	1,226,114 KB
DevTestDemoServer	2/4/2016 12:08 PM	Compressed (zipp...	505,269 KB
GEN01104300E	2/4/2016 8:48 AM	Compressed (zipp...	505,269 KB
GEN01104359E	2/4/2016 8:53 AM	Compressed (zipp...	1,159,368 KB
GEN01104615E	2/4/2016 8:50 AM	Compressed (zipp...	1,222,020 KB

Extract both the zip and you would see the respective folders for DevTest 9.1 installer and DemoServer

Chapter 4: Installation

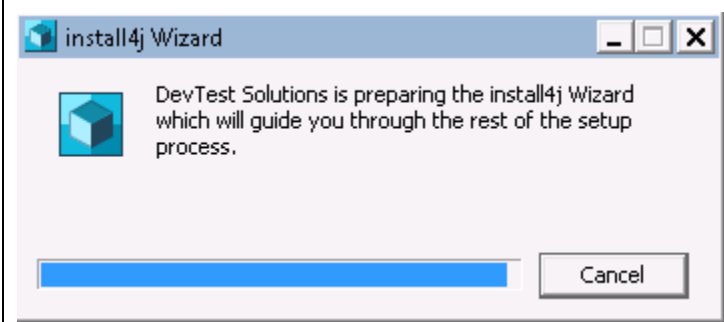
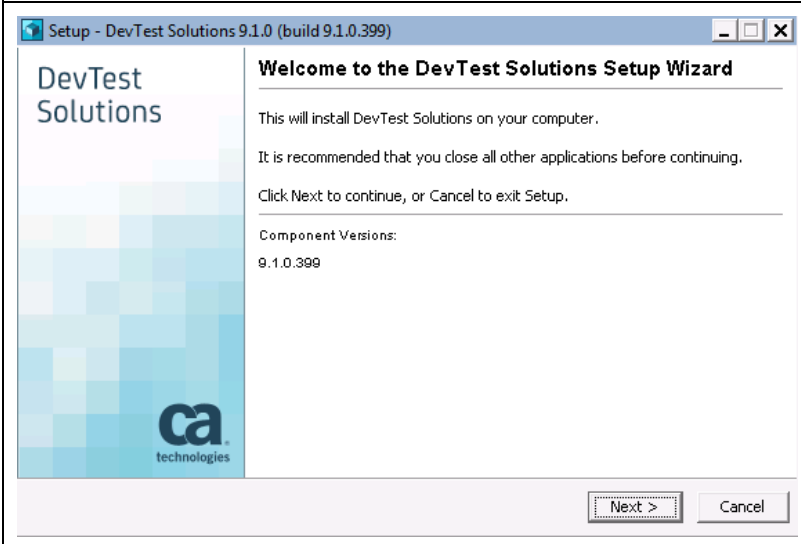
Shutdown DevTest Windows Services

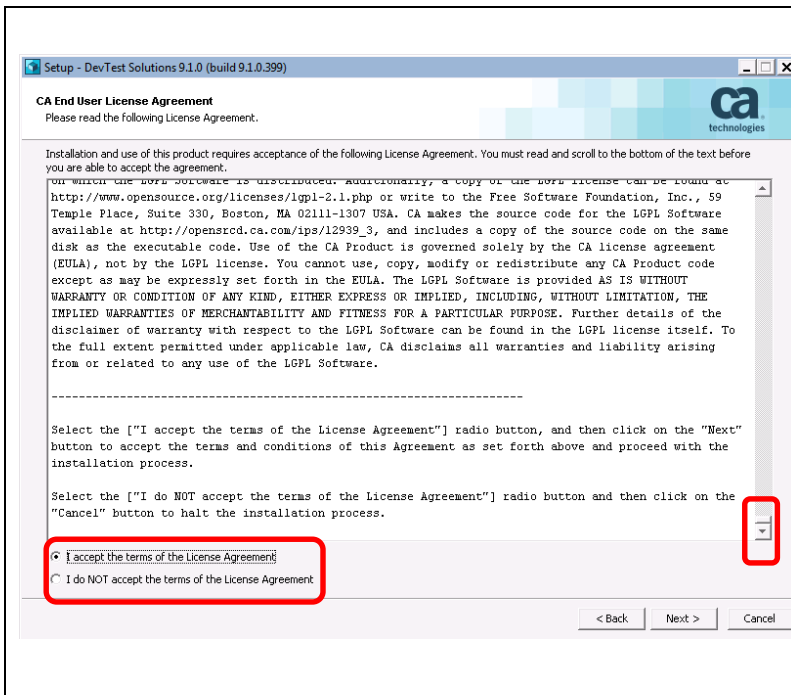
If you have any DevTest UI's or Workstation currently open then this would be a good time to close all those. Also if the DemoServer is running shut it down before the following steps.

Shutdown the following component services (if your existing DevTest runs as Windows services). This is applicable for the various components installed remotely that connect to the Registry.

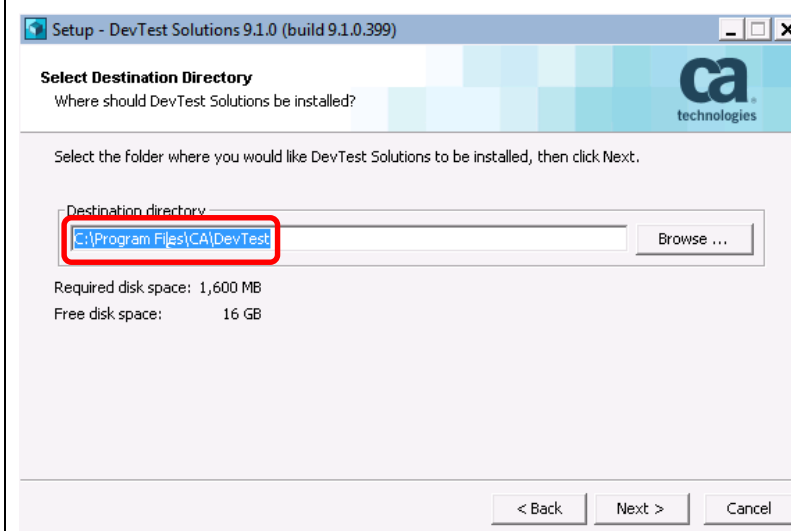
- DevTest Enterprise Dashboard
- DevTest Registry Service
- DevTest Coordinator Service
- DevTest Simulator Service
- DevTest VSE Service
- DevTest Portal Service
- DevTest Broker Service

Installation steps to upgrade to DevTest 9.1

	<p>Double clicking on the DevTest 9.1 installer starts the setup wizard.</p>
	<p>The setup wizard guides you through the install procedure, querying for mandatory and optional product settings.</p>

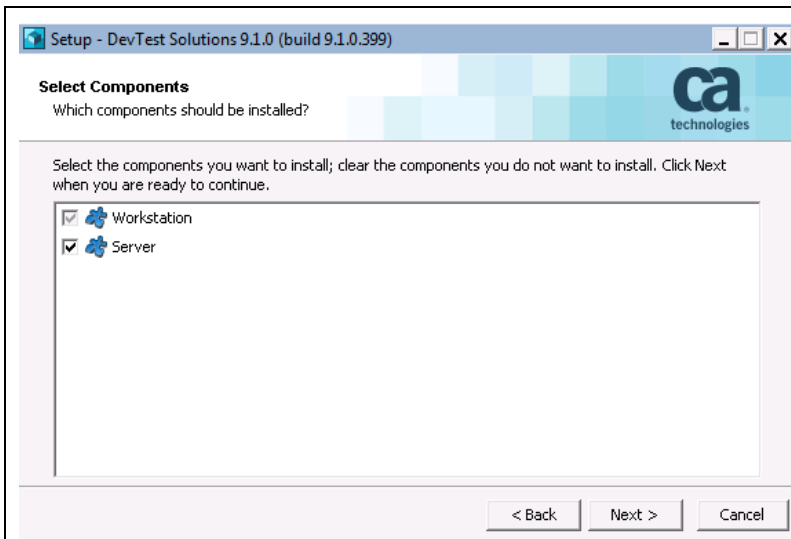


As with other CA products the installer now requires the user to scroll down the entire EULA before being able to accept it.



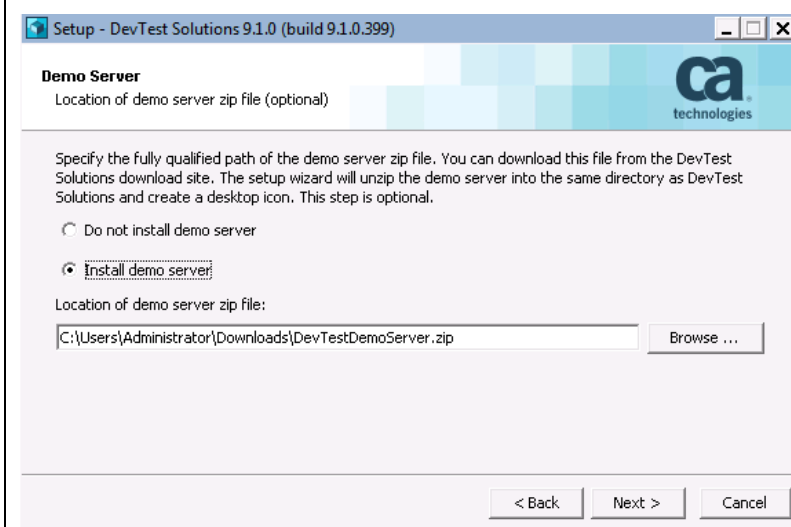
Since you already have DevTest 8.x, the installer picks up that path

Note: You have already taken a backup of this folder. We will be doing an in-place upgrade.

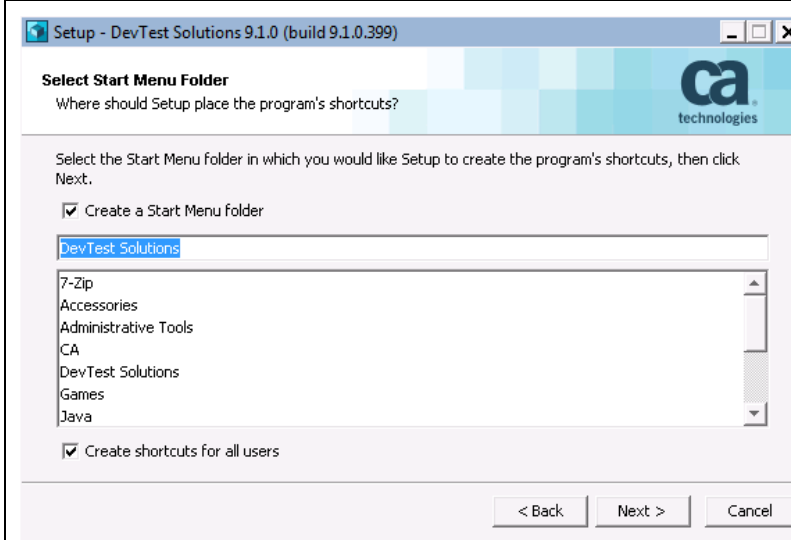


Options are offered to deselect the installation of server components.

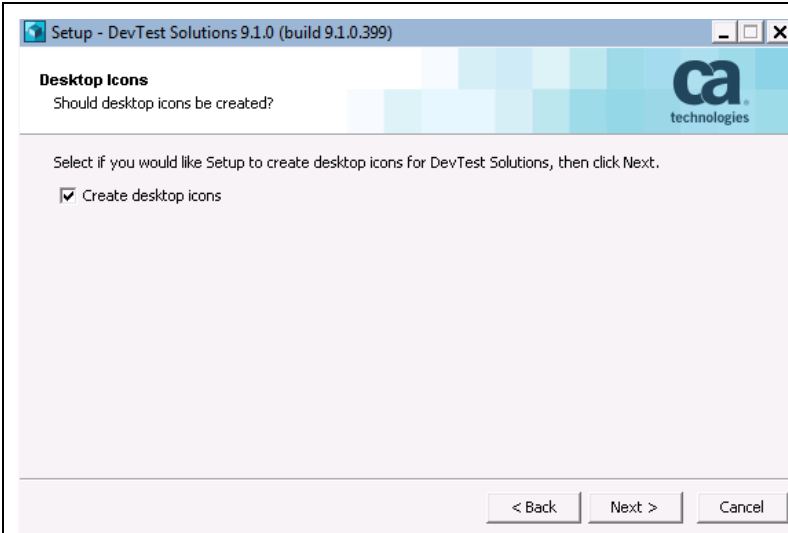
The Workstation component can be deselected only if the server component is deselected before. This means the server installation requires a workstation installation.



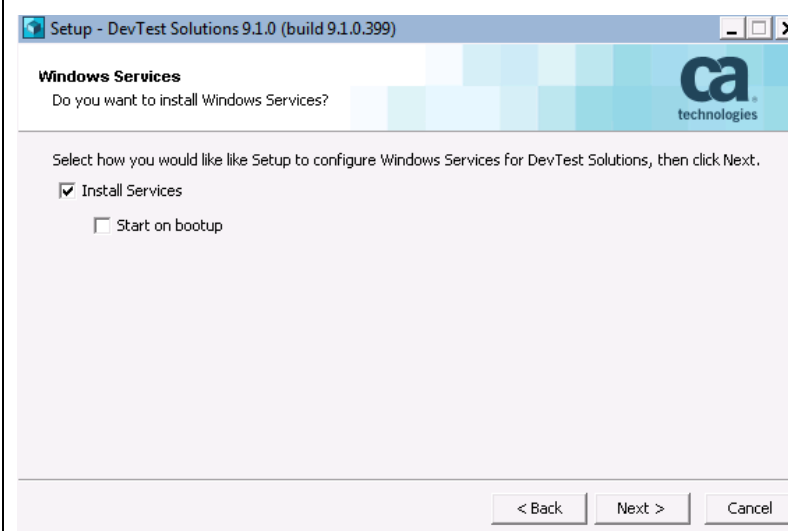
When opting for demo server installation the user must specify the location of the demo server zip file – just as with previous releases.



The installer queries for the name of the Menu Folder for DevTest, and whether or not it will be part of the Windows Start menu and whether or not Menu shortcuts shall be created for all



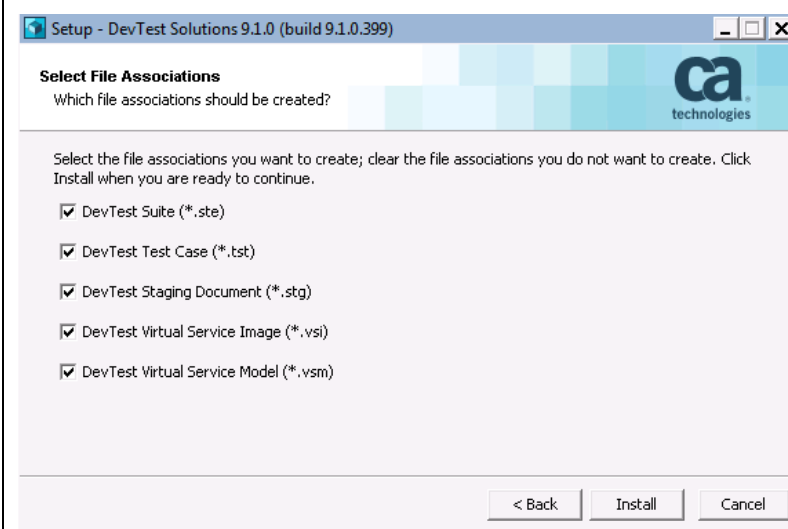
The next question is about whether or not the user wants to have a desktop icon for DevTest solutions.



By default the DevTest services are installed as Windows services.

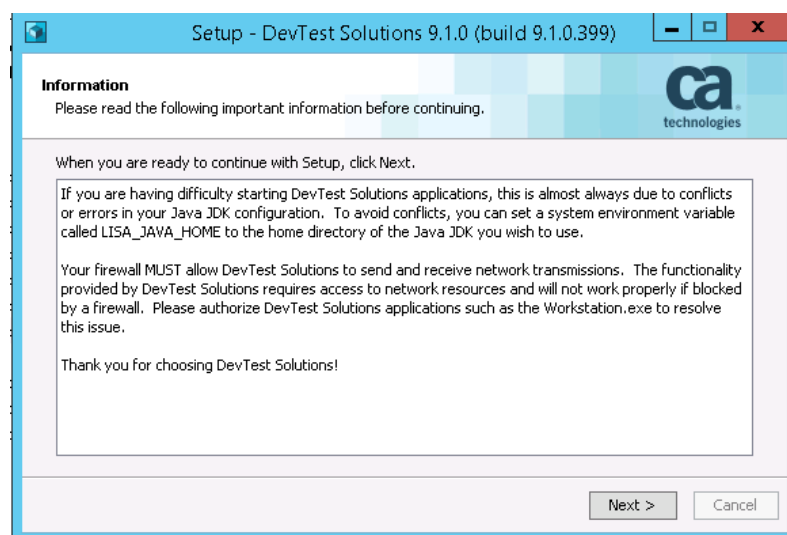
Optionally, the installer can configure the DevTest services for automatic start at system start up.

With the default options DevTest services must be started manually.



Eventually options are offered to associate file with DevTest solutions.

Clicking on the Install button launches the installation process.



Installation progress is indicated by the progress bar. The installation takes about 6 to 10 minutes to complete.

Once the installation is completed some post install instructions are provided. Please read and follow carefully.

Click Next to finish the installation.

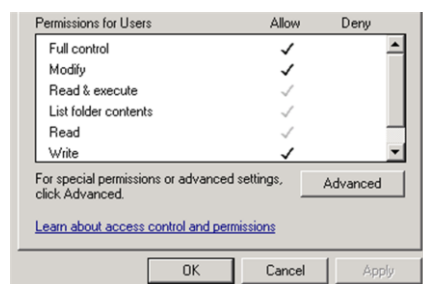


Click Finish to close the Setup Wizard

DevTest Broker Service	Manual	Local System
DevTest Coordinator Service	Manual	Local System
DevTest Enterprise Dashboard Service	Manual	Local System
DevTest Portal Service	Manual	Local System
DevTest Registry Service	Manual	Local System
DevTest Simulator Service	Manual	Local System
DevTest VSE Service	Manual	Local System

After installation, the DevTest Enterprise Dashboard Service must be started first prior to starting DevTest Registry Service(s), which have to register with the Enterprise Dashboard.

Once registered DevTest Registry services can be started without a running DevTest Enterprise Dashboard Service.



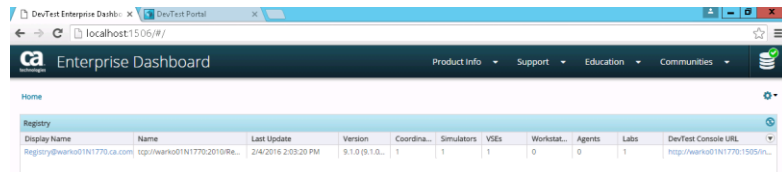
Note: Make sure that the **installation directory** (default on Windows: %PROGRAMFILES%\CA\DevTest) is enabled for **Read/Write access for all users**.

Otherwise import of RR Pairs will fail. Reason: the import will store data in the projects folder under {{LISA_HOME}}, which is installed at path under %ProgramFiles%

DevTest Broker	Coordinate...		Manual	Local System
DevTest Coordinator	Receives D...		Manual	Local System
DevTest Enterprise...	Enables th...	Started	Manual	Local System
DevTest Portal	Enables th...		Manual	Local System
DevTest Registry	Provides a ...	Started	Manual	Local System
DevTest Simulator	Runs DevT...		Manual	Local System
DevTest VSE	Enables th...		Manual	Local System

Start the DevTest (9.1) services in this order –

- DevTest Enterprise Dashboard
- DevTest Registry



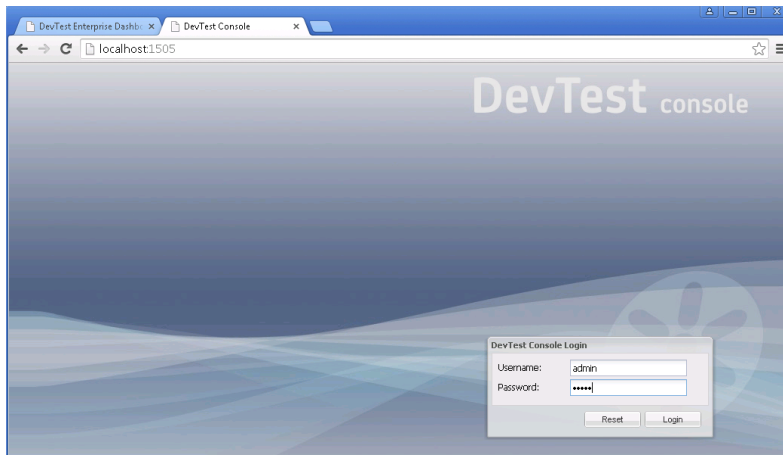
Display Name	Name	Last Update	Version	Coordina...	Simulators	VSEs	Workstat...	Agents	Labs	DevTest Console URL
Registry@warko01N1770.ca.com	Registry@warko01N1770.20150Re...	2/4/2016 2:03:20 PM	9.1.0 (9.1.0...)	1	1	1	0	0	1	http://warko01N1770:1505/...

Before you bring up the Enterprise Dashboard UI, be sure to clear and delete your browser cache as the UI for the Enterprise Dashboard has been changed in 9.1.

<http://localhost:1506> should show the new UI and also upgraded Registry information.

.local Disk (C:) > Program Files > CA > DevTest	
Name	Date modified
.install4j	2/4/2016 1:33 PM
addons	2/4/2016 1:31 PM
agent	2/4/2016 1:29 PM
bin	2/4/2016 1:31 PM
cvsMonitors	2/4/2016 1:12 PM
database	2/4/2016 1:32 PM
defaults	2/4/2016 1:29 PM
DemoServer	2/4/2016 1:31 PM
doc	2/4/2016 1:29 PM
examples	2/4/2016 1:29 PM
examples_src	2/4/2016 1:31 PM
hotDeploy	2/4/2016 1:39 PM
incontainer	2/4/2016 1:29 PM
jre	2/4/2016 1:29 PM
lib	2/4/2016 1:29 PM
licenses	2/4/2016 1:29 PM
lisatmp_8.5.0	2/4/2016 1:27 PM
lisatmp_9.1.0	2/4/2016 2:14 PM
locks	2/4/2016 1:57 PM
Projects	2/4/2016 1:29 PM
searchData	2/4/2016 1:29 PM

Verify that the lisatmp_9.1.0 folder is created
This is if DevTest is started as (Windows) services. If started as regular application from cmd line lisatmp_9.1.0 is under %USERS%\<user>



Since this is the first time the Registry is starting, give it a couple of minutes to load the various Consoles.
Then verify that you can login to the DevTest Console (port 1505) and login as admin/admin

Now start the DevTest Broker service followed by the DevTest Portal Service must be started. Then start the Coordinator, Simulator and the VSE services.

At this point, the upgrade to DevTest 9.1 is complete. The next section will focus on the Post installation tasks

Chapter 5: Post-Installation Tasks

Configuring DevTest 9.1

This section will focus on configuring this DevTest installation

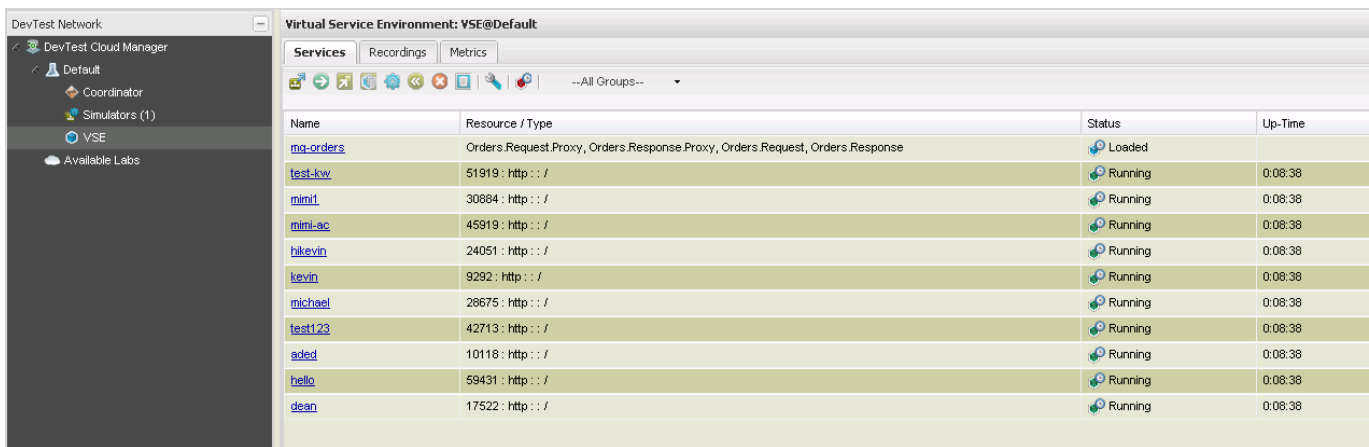
Consideration during the upgrade from 8.x to 9.1

Properties files

- The local.properties and the site.properties files were preserved from prior to the upgrade which is why those files were picked up by the Registry during startup and the used seamlessly
- The _local.properties file will be replaced with the newer one during the upgrade to 9.1
- The _site.properties file will be replaced with the newer one during the upgrade to 9.1
- The lisa.properties file will be replaced by the upgrade process as this file can be updated by CA Technologies at any time. So if you had any additions to that file, take those lines from the backup and add it to the local.properties file instead and restart the Registry
- DevTest 9.1 introduces a new properties file dradis.properties that contains the Enterprise Dashboard configuration information. The Dashboard configuration information from the previous local.properties file was read by the installer and gathered into the new dradis.properties file.
- **NOTE: A manual step that is required is to remove the old Dashboard configuration lines from the local.properties file so that there are no issues moving forward.**

Virtual Services

- The vseDeploy folder was not touched by the upgrade process. So after the upgrade when the VSE services is started, the VS that were running prior to the upgrade will be redeployed and they should work seamlessly. Here are 11 VS that were redeployed automatically after the upgrade to 9.1. These 11 VS were running in the 8.x install prior to the release



The screenshot displays the DevTest Network interface. On the left, a sidebar shows the 'DevTest Cloud Manager' with a tree view containing 'Default', 'Coordinator', 'Simulators (1)', 'VSE', and 'Available Labs'. The main panel is titled 'Virtual Service Environment: VSE@Default' and has tabs for 'Services', 'Recordings', and 'Metrics'. The 'Services' tab is active, showing a table of virtual services. The table has four columns: 'Name', 'Resource / Type', 'Status', and 'Up-Time'. There are 11 rows of services, all with a status of 'Running' and an 'Up-Time' of '0:08:38'.

Name	Resource / Type	Status	Up-Time
mq-orders	Orders.Request.Proxy, Orders.Response.Proxy, Orders.Request, Orders.Response	Loaded	
test-kw	51919 : http : /	Running	0:08:38
mini1	30884 : http : /	Running	0:08:38
mini-ac	45919 : http : /	Running	0:08:38
hikevin	24051 : http : /	Running	0:08:38
kevin	9292 : http : /	Running	0:08:38
michael	28675 : http : /	Running	0:08:38
test123	42713 : http : /	Running	0:08:38
aded	10118 : http : /	Running	0:08:38
hello	59431 : http : /	Running	0:08:38
dean	17522 : http : /	Running	0:08:38

In your case, you should see your Virtual Services deployed and running. The screenshot shows a Virtual Service as a sample only and you might not have those in your environment.

Custom Extensions

- If the hotdeploy folder had any custom files, they are not affected by the upgrade process and those files are retained after the upgrade.

Custom Libs

- Any custom jars in LISA_HOME\lib folder are retained after the upgrade
- If there was a lib\patches folder prior to upgrade, it is renamed to patches.backup
- So there is a manual step of renaming the patches.backup to patches

Projects folder

- The Project folder is retained after the upgrade. So you will see all your custom projects in there even after the upgrade

Custom Folders

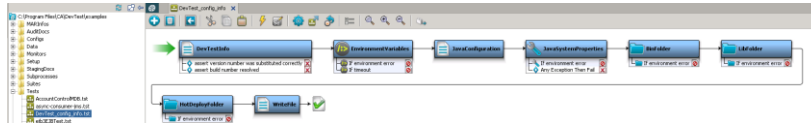
- If there were any custom folders under the LISA_HOME location they are not touched by the upgrade

Database

- In-place database upgrade is now supported. Which means there is no need to create a new database for the upgrade process. Instead when the Registry and the Dashboard are started, their schema is automatically upgrade. In this way, all your old database information is retained.

Chapter 6: Verifying Installation

DevTest Workstation and DevTest Portal



From the shortcut on the desktop, open the DevTest Workstation

Login as admin/admin

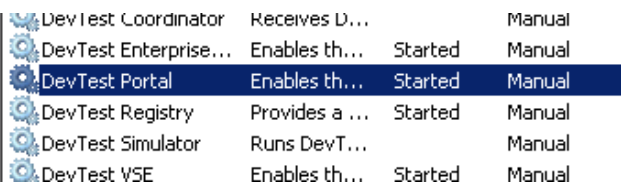
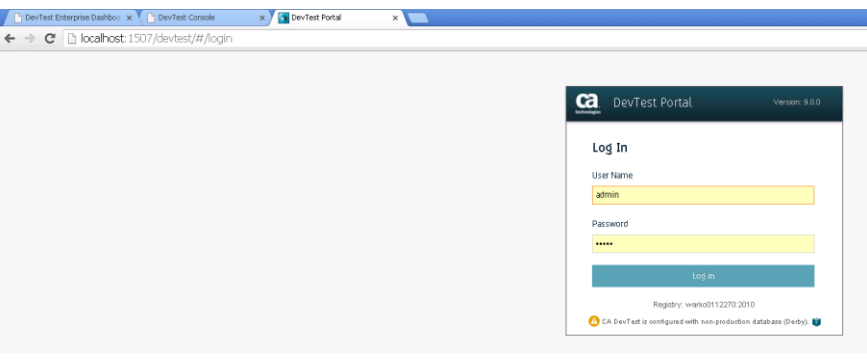
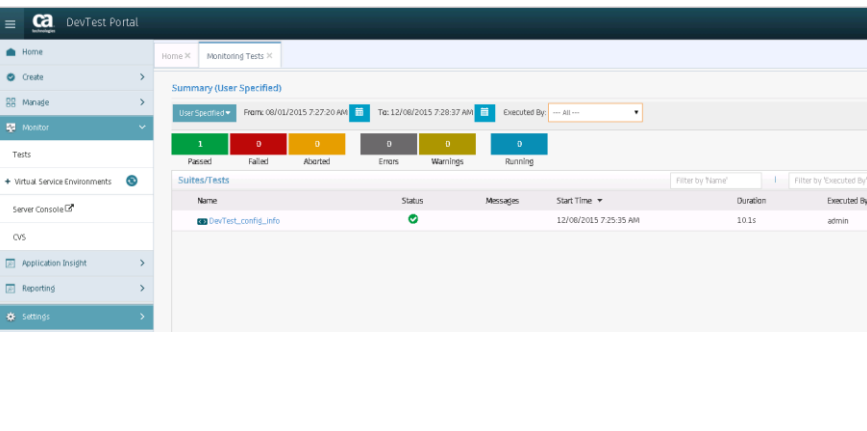
The Examples project opens by default

Expand the Tests folder and double-click to select and open the DevTest_config_info.tst test

Test Events					
Timestamp	Event	Simulator	Instance	Short Info	Long Info
2015-12-08 07:25:45,172	Test ended		0/0	C2E72B9B9DA611E58F5C6C...	
2015-12-08 07:25:45,047	Cycle ending	tcp://warko0112270:2014/Simulator	0/0	C800B7359DA611E59A776C...	Signaled to stop test
2015-12-08 07:25:35,029	Cycle started	tcp://warko0112270:2014/Simulator	0/0	C800B7359DA611E59A776C...	
2015-12-08 07:25:35,029	Test started	N/A	0/0	C2E72B9B9DA611E58F5C6C...	N/A

Right click and Stage this test to the coordinator and start the test

This test should complete successfully.

 <table><tr><th>Service Name</th><th>Description</th><th>Status</th><th>Startup Type</th></tr><tr><td>DevTest Coordinator</td><td>Receives D...</td><td>Stopped</td><td>Manual</td></tr><tr><td>DevTest Enterprise...</td><td>Enables th...</td><td>Started</td><td>Manual</td></tr><tr><td>DevTest Portal</td><td>Enables th...</td><td>Started</td><td>Manual</td></tr><tr><td>DevTest Registry</td><td>Provides a ...</td><td>Started</td><td>Manual</td></tr><tr><td>DevTest Simulator</td><td>Runs DevT...</td><td>Started</td><td>Manual</td></tr><tr><td>DevTest VSE</td><td>Enables th...</td><td>Started</td><td>Manual</td></tr></table>	Service Name	Description	Status	Startup Type	DevTest Coordinator	Receives D...	Stopped	Manual	DevTest Enterprise...	Enables th...	Started	Manual	DevTest Portal	Enables th...	Started	Manual	DevTest Registry	Provides a ...	Started	Manual	DevTest Simulator	Runs DevT...	Started	Manual	DevTest VSE	Enables th...	Started	Manual	<p>From Windows Services, verify that the DevTest Broker service is running. If not, start this service</p> <p>Start the DevTest Portal service</p>
Service Name	Description	Status	Startup Type																										
DevTest Coordinator	Receives D...	Stopped	Manual																										
DevTest Enterprise...	Enables th...	Started	Manual																										
DevTest Portal	Enables th...	Started	Manual																										
DevTest Registry	Provides a ...	Started	Manual																										
DevTest Simulator	Runs DevT...	Started	Manual																										
DevTest VSE	Enables th...	Started	Manual																										
	<p>Once the service starts, wait for about 3-5 minutes (for the first time only). Then go to the DevTest Portal UI at port 1507</p> <p>Login as admin/admin</p>																												
	<p>Click on the Monitor tab and then on the Tests. You should see your test(s) as passed.</p> <p>To get more information on the Test Case, click on the Name link of the test case to drill down into the details.</p> <p>You can click on each step of the test case to drill further down into greater details and look at the request data and the response data!</p>																												

Chapter 7: Connecting Pre- 9.1 Registries to 9.1 Dashboard

The 9.1 Enterprise Dashboard has been enhanced to receive REST calls from the 9.1 onwards Registries.

As a result, simply pointing a pre-9.1 Registry to this new Dashboard will not display any data.

```
Select Administrator: Command Prompt - EnterpriseDashboardCIC.exe
C:\Program Files\CA\DevTest\bin>EnterpriseDashboardCIC.exe
Locale: en_US
Setting System.out and System.err to: Cp1252
LISA_HOME set to C:\PROGRA~1\CA\DevTest\
DevTest temporary directory is C:\Users\Administrator\lisatmp_9.1.0
Configuring logging from 'C:\PROGRA~1\CA\DevTest\logging.properties'
DevTest Solutions Version :: 9.1.0 (9.1.0.399)
Installed patches: none

Starting Enterprise Dashboard legacy registry bridge, service=tcp://warko01N1770:2003/EnterpriseDashboard
Tue Mar 08 10:49:58 EST 2016 : Apache Derby Network Server - 10.8.3.0 - <1405108> started and ready to accept connections on port 1531
```

Let's look at a scenario where you have an older Registry say Lisa 7.5.2 and you want to connect it to the DevTest 9.1's Dashboard.

As a first step, **on the 9.1 Dashboard machine**, you will start a process called as EnterpriseDashboardCIC.exe from the command line. This file is located in the DevTest\bin folder.

Open a command prompt with the appropriate path and run the command as shown

The process starts and waits for any legacy (pre 9.1 registries to connect)

```
laf.password.encrypt=13a0eef51bedf0fdb7e8d6740632c27
lisa.acl.auth.enabled=true

lisa.enterprisedashboard.url=tcp://10.130.174.58:2003/EnterpriseDashboard
```

As a second step, on the Lisa 7.5.2 machine, open up the local.properties for the Registry and add the following line to it –

```
lisa.enterprisedashboard.url=tcp://<your-9.1-Dashboard>:2003/EnterpriseDashboard
```

Save the file and restart your Lisa 7.5.2 Registry.



Registry Name	Name	Last Update	Version	Coordinates	Simulators	VSEs	Workstations	Agents	Lab	DevTest Console URL
Registry@10.130.174.58:2010	tcp://10.130.174.58:2010/Registry	3/9/2016 11:00:03 AM	5.1.0 (5.1.0.399)	1	1	1	0	1	1	http://10.130.174.58:1505/index.html
Registry@warko01-4748704.ca.com:201	tcp://warko01-4748704.2010/Registry	3/9/2016 11:00:03 AM	8.0.2 (8.0.2.724)	0	0	0	0	0	1	http://warko01-4748704.1905/index.html
Registry@warko0119270:2010	tcp://warko0119270:2010/Registry	3/9/2016 11:04:48 AM	7.5.2 (7.5.2.220)	1	1	1	0	0	1	http://warko0119270:1905/index.html

You should see the 7.5.2 registry show up in the 9.1 Dashboard.

```
#####
#####
###
### SECTION 1 - ENTERPRISE DASHBOARD
###
#####
#####
## =====
## DevTest Enterprise Dashboard
## This is the Service URL to use for sending component and
metric information
## to the DevTest Enterprise Dashboard
## =====
lisa.enterprisedashboard.service.url=tcp://10.130.174.58:2003/Ent
erpriseDashboard
```

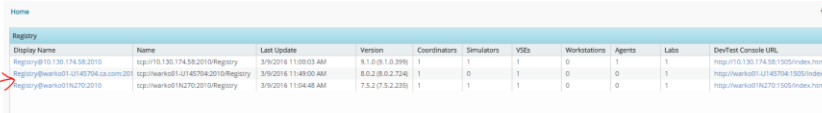
You will notice another Registry in there as well the 8.0.2 registry.

The property to point an 8.x registry to 9.1 dashboard is different than the one we used for 7.5.2.

lisa.enterprisedashboard.service.url=tcp://<your-9.1-Dashboard>:2003/EnterpriseDashboard

Modify the above line in site.properties file.

Save the file and restart your Lisa 8.x Registry.



Display Name	Name	Last Update	Version	Coordinators	Simulators	VSEs	Workstations	Agents	Labs	DevTest Console URL
Registry@10.130.174.58:2010	tcp://10.130.174.58:2010/Registry	3/9/2016 11:00:03 AM	8.1.0 (8.1.0.399)	1	1	0	1	1	1	http://10.130.174.58:1305/index.html
Registry@weat01-12143704.ca.com:201	tcp://weat01-12143704.ca.com:201/Registry	3/9/2016 11:49:00 AM	8.0.2 (8.0.2.724)	1	0	1	0	0	1	http://weat01-12143704:1305/index.html
Registry@weat0119270:2010	tcp://weat0119270:2010/Registry	3/9/2016 11:04:48 AM	7.5.2 (7.5.2.235)	1	1	1	0	0	1	http://weat0119270:1305/index.html

You should now see the 8.x registry in the 9.1 dashboard.

Now you can continue to use all the great new features of DevTest 9.1!