AD SWAT

DevTest
9.1

CA
technologies

Upgrade DevTest from Lisa 7.5.2 to 9.1

CA DevTest 9.1

Prepared by: **Koustubh Warty**
Date: **March 2016**

Table of Contents

Chapter 1: Introduction

Purpose

The purpose of this doc is to assist the CA DevTest administrators to upgrade their CA LISA 7.5.x version to the newest CA DevTest 9.1. This doc assumes that you already have CA LISA 7.5.x that is to be migrated to 9.1. As a sample use case, this document uses CA LISA 7.5.2 as the older DevTest install which is used for upgrading 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	03.07.2016	Koustubh Warty	Version 1

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 LISA 7.5.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 7.5.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

- If you already have an existing Enterprise Dashboard as a part of LISA 7.5.x, you will need to back it up, backup the Enterprise Dashboard database in a separate location if you would like to preserve it.

- The 9.x installer will NOT automatically upgrade your LISA 7.5.x Enterprise Dashboard.

- Please uninstall your existing LISA 7.5.x Dashboard after backing up the data as mentioned above.

- The DevTest 9.1 installer will put down the latest Enterprise Dashboard during the in-place installation.

- For an in-place upgrade, the installer will show the Enterprise Dashboard installation screen and the license screen.

- However for a fresh DevTest 9.1 installation (installing in a separate folder other than your existing LISA 7.5.x location), 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

As mentioned previously, the licensing was changed in 8.x. Please contact your account team to discuss the new licensing model.

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 -

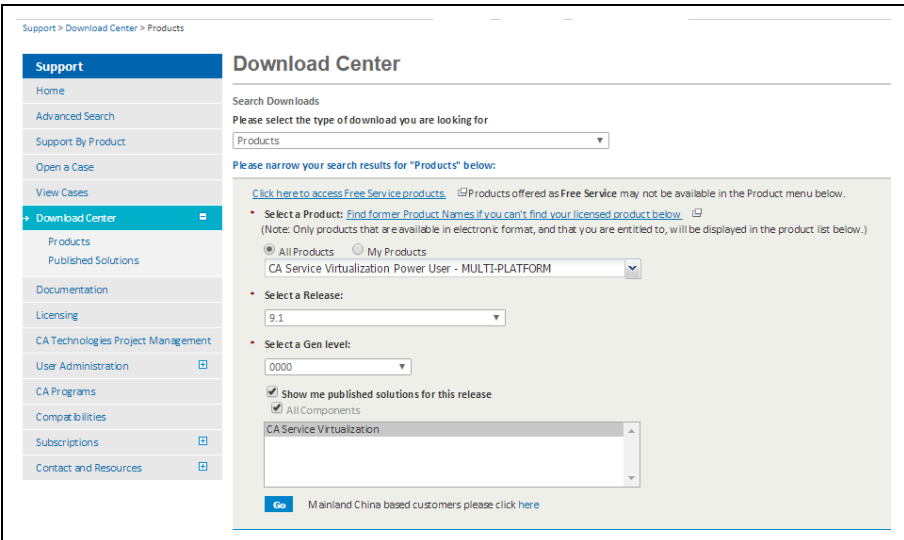- The entire existing CA LISA 7.5.x folder

    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	☐	Download
DevTest 9.1 Linux GEN01104338E.zip	N/A	02/01/2016	1.11GB	☐	Download
DevTest 9.1 Linux x64 GEN01104359E.zip	N/A	02/01/2016	1.11GB	☐	Download
DevTest 9.1 OSX GEN01104420E.zip	N/A	02/01/2016	1.18GB	☐	Download
DevTest 9.1 Solaris Sparc GEN01104444E.zip	N/A	02/01/2016	1.15GB	☐	Download
DevTest 9.1 Solaris x64 GEN01104507E.zip	N/A	02/01/2016	1.15GB	☐	Download
DevTest 9.1 Unix (no JRE) GEN01104530E.zip	N/A	02/01/2016	1.27GB	☐	Download
DevTest 9.1 Windows GEN01104553E.zip	N/A	02/01/2016	1.16GB	☐	Download
DevTest 9.1 Windows x64 GEN01104615E.zip	N/A	02/01/2016	1.17GB	☐	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	☑	Download
DevTest 9.1 Linux GEN01104338E.zip	N/A	02/01/2016	1.11GB	☐	Download
DevTest 9.1 Linux x64 GEN01104359E.zip	N/A	02/01/2016	1.11GB	☐	Download
DevTest 9.1 OSX GEN01104420E.zip	N/A	02/01/2016	1.18GB	☐	Download
DevTest 9.1 Solaris Sparc GEN01104444E.zip	N/A	02/01/2016	1.15GB	☐	Download
DevTest 9.1 Solaris x64 GEN01104507E.zip	N/A	02/01/2016	1.15GB	☐	Download
DevTest 9.1 Unix (no JRE) GEN01104530E.zip	N/A	02/01/2016	1.27GB	☐	Download
DevTest 9.1 Windows GEN01104553E.zip	N/A	02/01/2016	1.16GB	☐	Download
DevTest 9.1 Windows x64 GEN01104615E.zip	N/A	02/01/2016	1.17GB	☑	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 Go

Product	Release	OS	Title	Fix #	File	Delete	Download
CA Service Virtualization Power User - MULTI-PLATFORM	9.1	N/A	DevTest 9.1 Windows x64	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

Choose one of the methods for download and start the download to your Download location

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
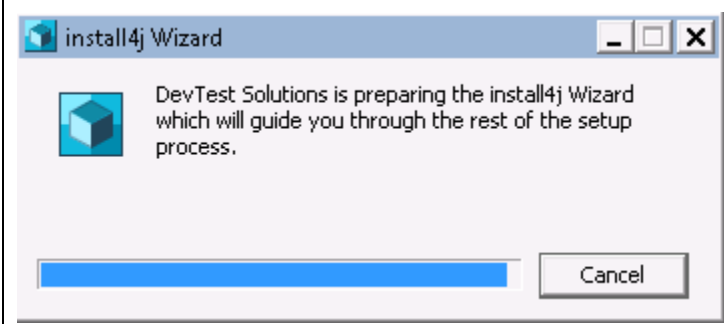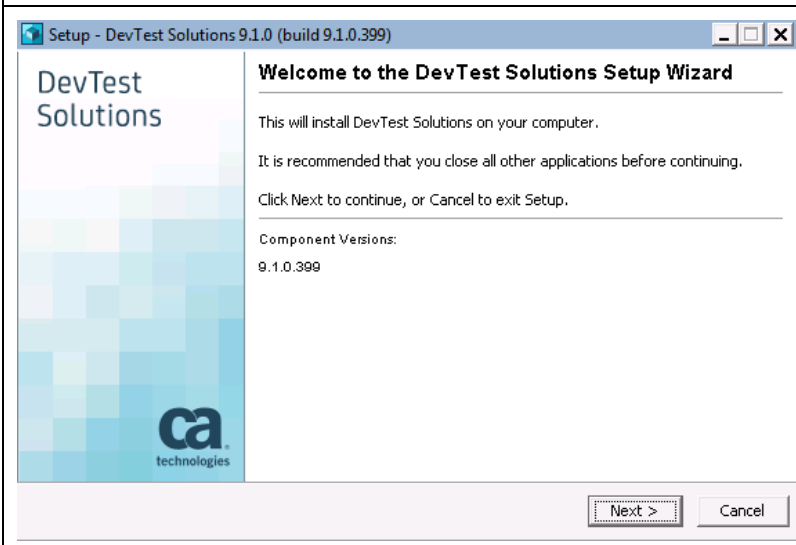
# Chapter 4: Installation

Shutdown DevTest Windows Services

If you have any CA LISA 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 CA LISA runs as Windows services). This is applicable for the various components installed remotely that connect to the Registry.

- LISA Enterprise Dashboard

- LISA Registry Service

- LISA Coordinator Service

- LISA Simulator Service

- LISA VSE Service

Installation steps to upgrade to DevTest 9.1

	Double clicking on the DevTest 9.1 installer starts the setup wizard.
	The setup wizard guides you through the install procedure, querying for mandatory and optional product settings.
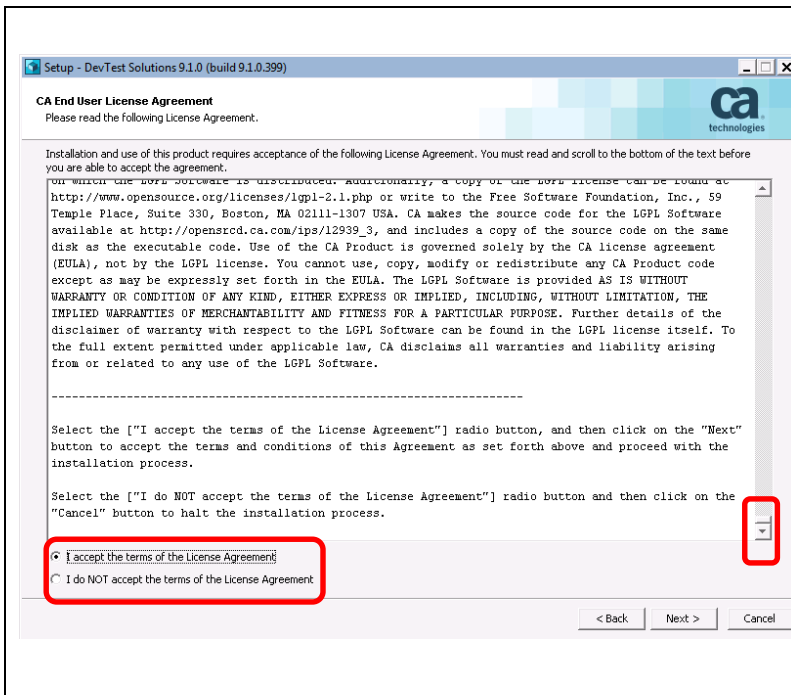
As with other CA products the installer now requires the user to scroll down the entire EULA before being able to accept it.
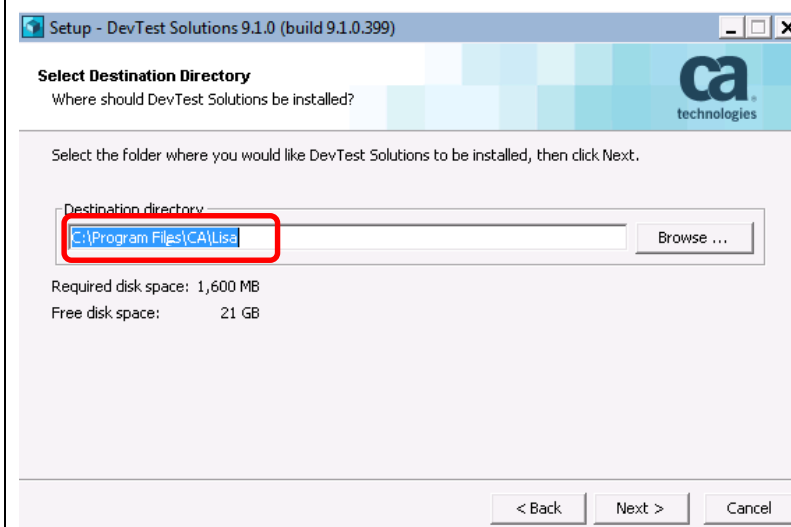
Since you already have Lisa 7.5.x, the installer picks up that path

**Note: You have already taken a backup of this folder. We will be doing an in-place upgrade.**
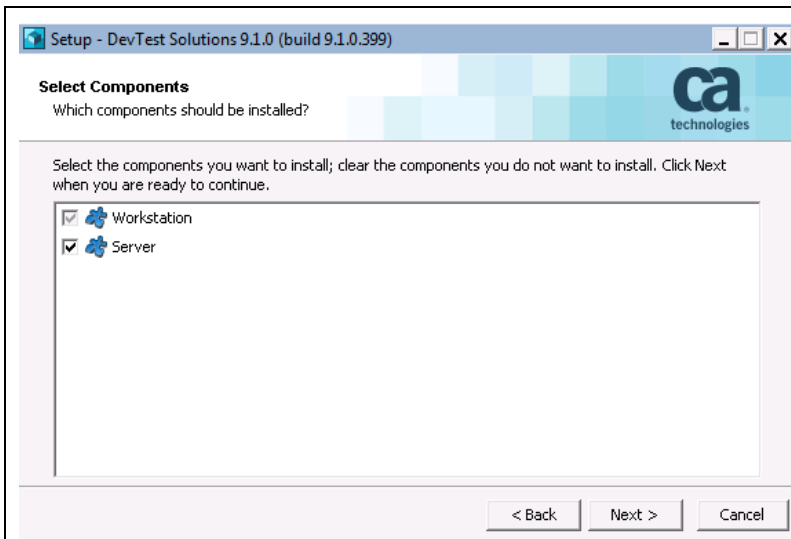
Options are offered to deselect the installation of server components.

The Workstation component can be deselected only if the server component is deselected before. This means the server installation requires a workstation installation.
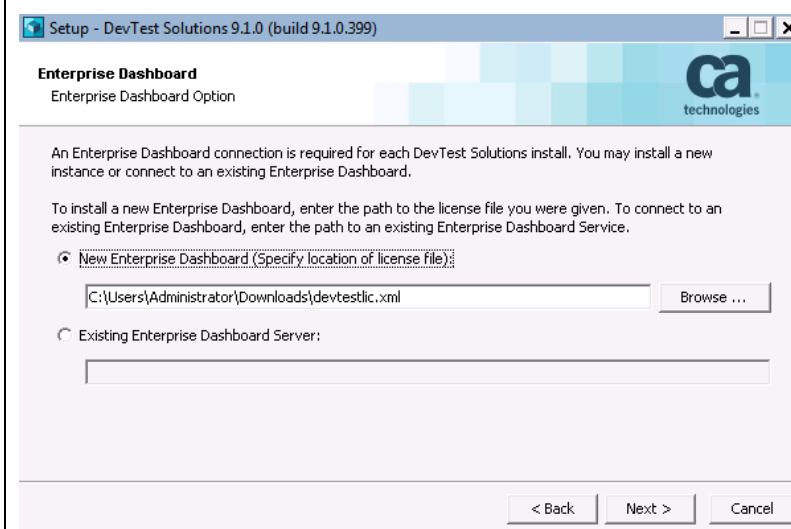
As previously mentioned, any 7.5.x Dashboards are not supported. The 9.1 installer will prompt you to select one or provide the location of a license file to continue. In this case, provide the location of the devtestlic.xml file and click Next
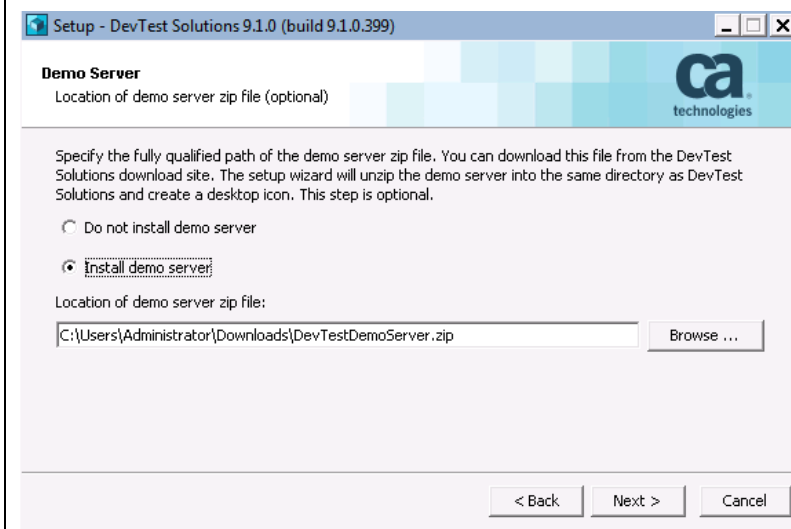
When opting for demo server installation the user must specify the location of the demo server zip file – just as with previous releases.
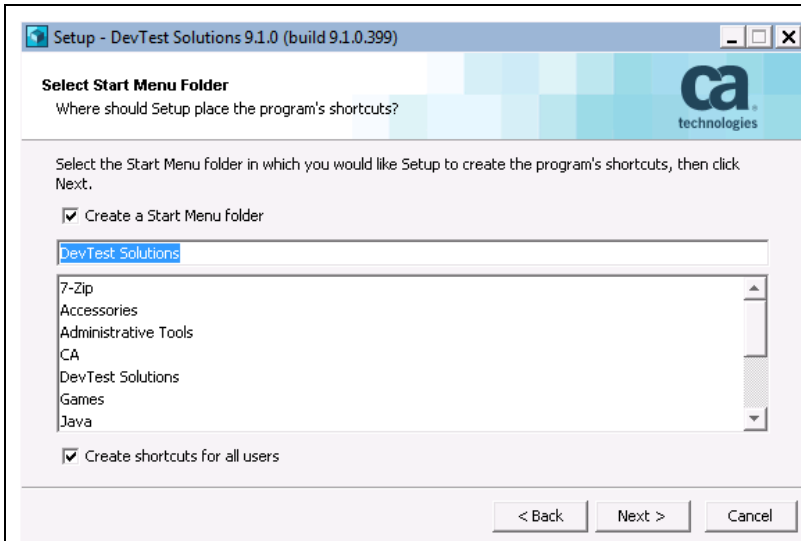
The installer queries for the name of the Menu Folder for DevTest, and whether or not is will be part of the Windows Start menu and whether or not Menu shortcuts shall be created for all
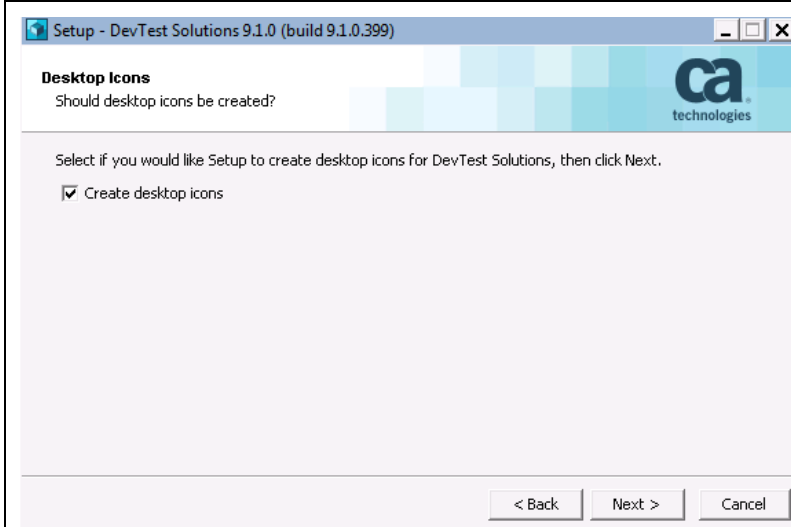
The next question is about whether or not the user wants to a have a desktop icon for DevTest solutions.
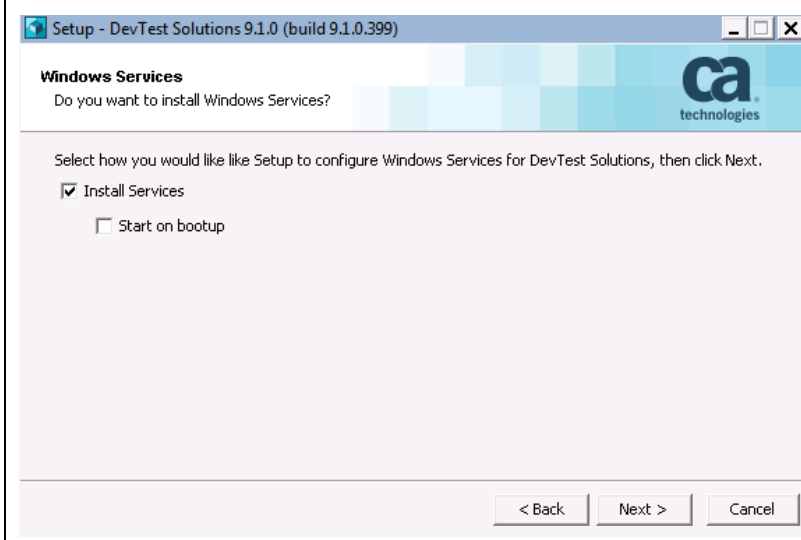
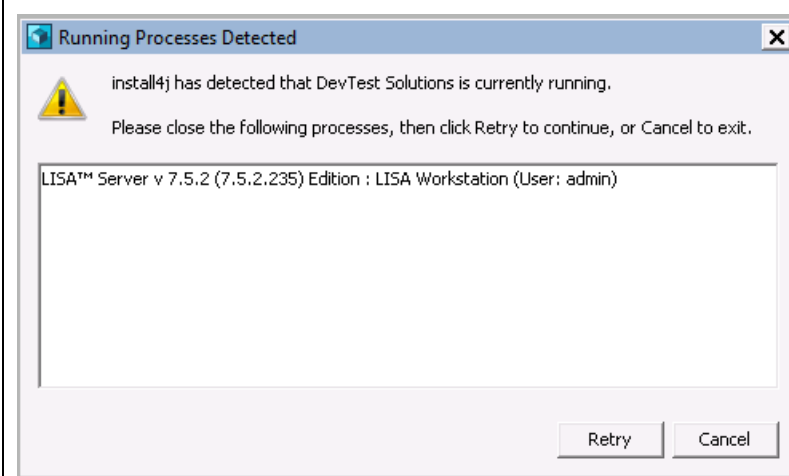By default the DevTest services are installed as Windows services.

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.

Setup - DevTest Solutions 9.1.0 (build 9.1.0.399) **Select File Associations** Which file associations should be created? Select the file associations you want to create; clear the file associations you do not want to create. Click Install when you are ready to continue. ☑ DevTest Suite (*.ste) ☑ DevTest Test Case (*.tst) ☑ DevTest Staging Document (*.stg) ☑ DevTest Virtual Service Image (*.vsi) ☑ DevTest Virtual Service Model (*.vsm) < Back Install Cancel	Eventually options are offered to associate file with DevTest solutions. Clicking on the Install button launches the installation process.
Running Processes Detected install4j has detected that DevTest Solutions is currently running. Please close the following processes, then click Retry to continue, or Cancel to exit. LISA™ Server v 7.5.2 (7.5.2.235) Edition : LISA Workstation (User: admin) Retry Cancel	The installer detected that the Lisa Workstation was open. So after closing it, click Retry. Note: If you do not have any components running this step will not be seen.
Setup - DevTest Solutions 9.1.0 (build 9.1.0.399) **Information** Please read the following important information before continuing. When you are ready to continue with Setup, click Next. If you are having difficulty starting DevTest Solutions applications, this is almost always due to conflicts or errors in your Java JDK configuration. To avoid conflicts, you can set a system environment variable called LISA_JAVA_HOME to the home directory of the Java JDK you wish to use. Your firewall MUST allow DevTest Solutions to send and receive network transmissions. The functionality provided by DevTest Solutions requires access to network resources and will not work properly if blocked by a firewall. Please authorize DevTest Solutions applications such as the Workstation.exe to resolve this issue. Thank you for choosing DevTest Solutions! Next > Cancel	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.
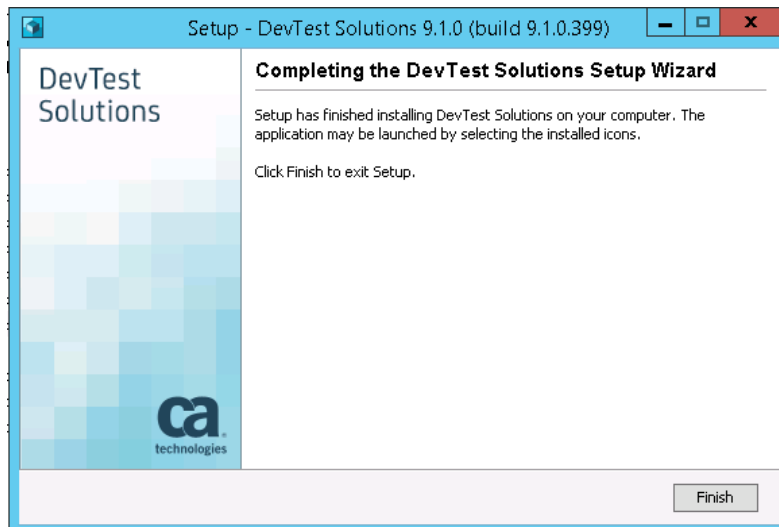
	Click Finish to close the Setup Wizard
	You will notice the names of the services have changed from LISA **** to DevTest ****. After installation, the DevTest Enterprise Dashboard Service must be started first prior to starting DevTest Registry Service(s), which have to register with the Enterprise Dashboard. 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%
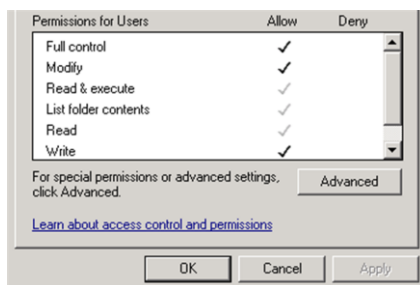
The Lisa folder was upgraded by the installer. Any custom files that were created will be preserved.

A few notable items –

- A new folder called as Projects was created which contains 4 folders:
    - Bank v5
    - Bank v6
    - Bank v8
    - Cars v9
- An pre-existing custom folder called *Do Nothing* was preserved
- DemoServer folder now contains 2 folders inside –
    - Lisa-demo-server
    - Carsdemo
- If you had any custom jars in the HotDeploy folder they will be preserved
- A few new properties file can be seen
    - _authentication-providers.xml
    - _dradis.properties
    - _ldap-mappings.xml
    - _phoenix.properties
    - _res-hub-config.properties
    - _selenium-config.json

Start the DevTest (9.1) services in this order –

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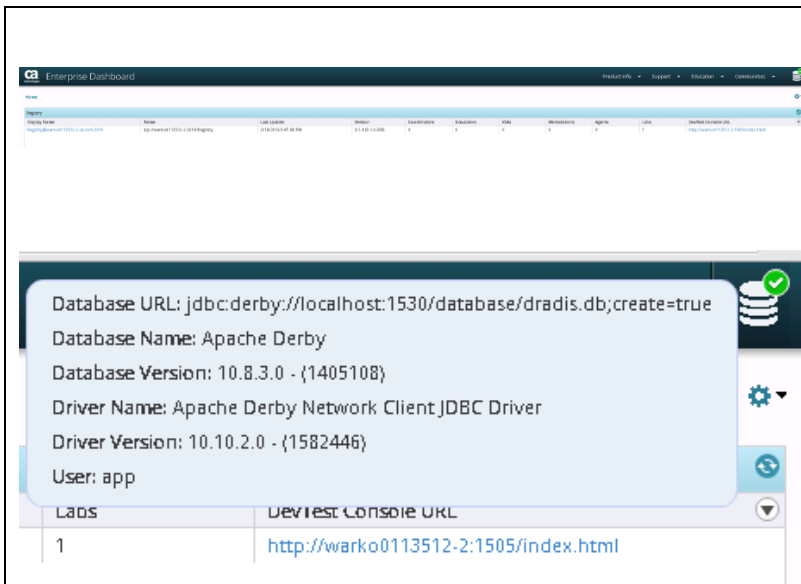
Before you bring up the Enterprise Dashboard UI, be sure to clear and delete your browser cache as the UI for the Enterprise Dashboard has been changed in 9.1.

http://localhost:1506 should show the new UI and also upgraded Registry information.
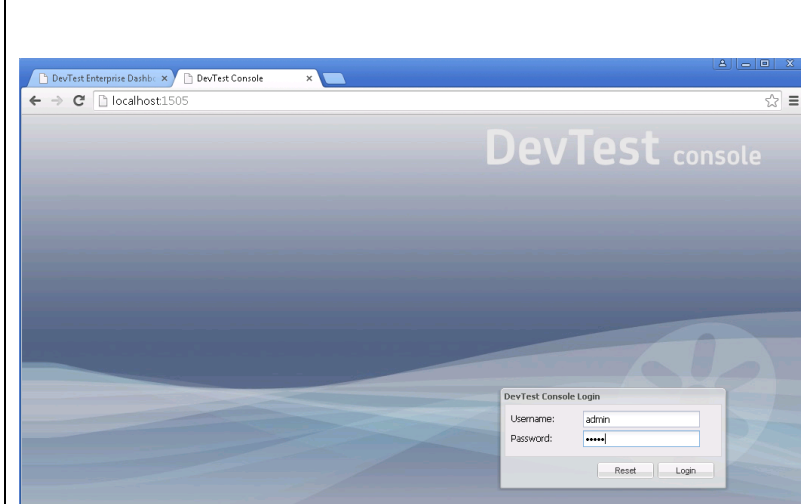
Note: The Enterprise Dashboard by default uses the Derby database out of the box.

You can modify the dradis.properties file to point to a new database and then restart the Dashboard service.
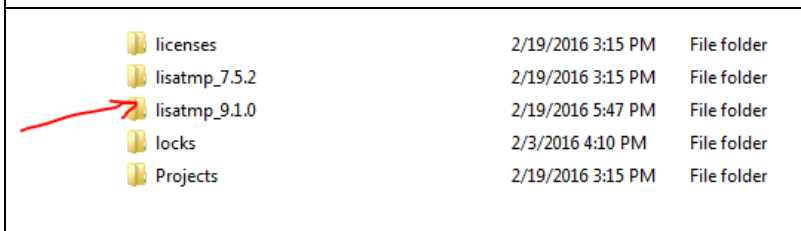

Verify that the lisatmp_9.1.0 folder is created

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
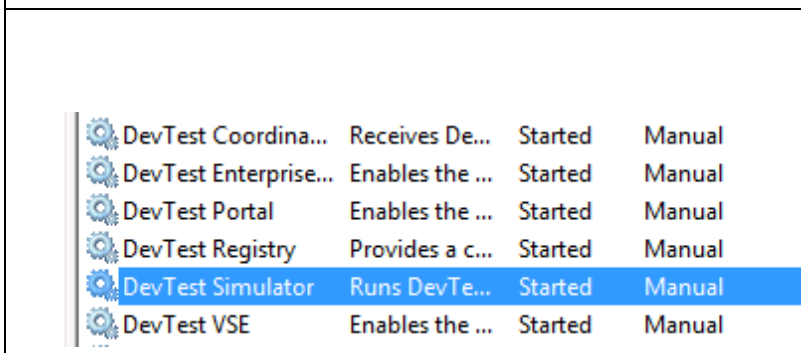
Now start the DevTest VSE service followed by the DevTest Portal Service. Then start the Coordinator and the Simulator.
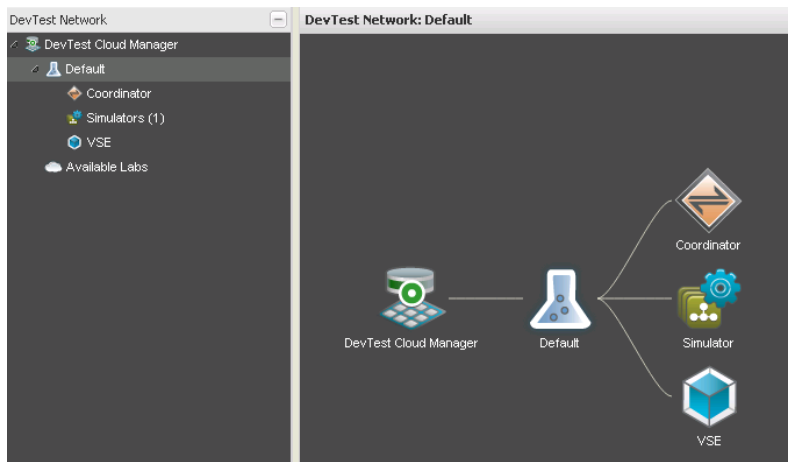
	In the DevTest Console UI click on Server Console to open the UI. You will see that the Coordinator, Simulator and the VSE entries
	Open a new tab in the browser and traverse to http://localhost:1507/devtest to open the DevTest Portal. Login as admin/admin
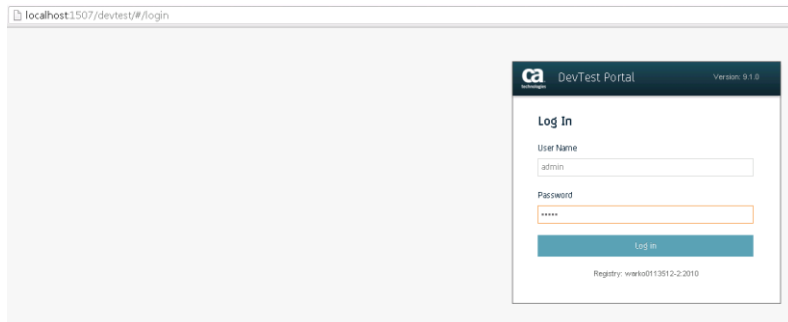
Chapter 5: Post-Installation Tasks

Configuring DevTest 9.1

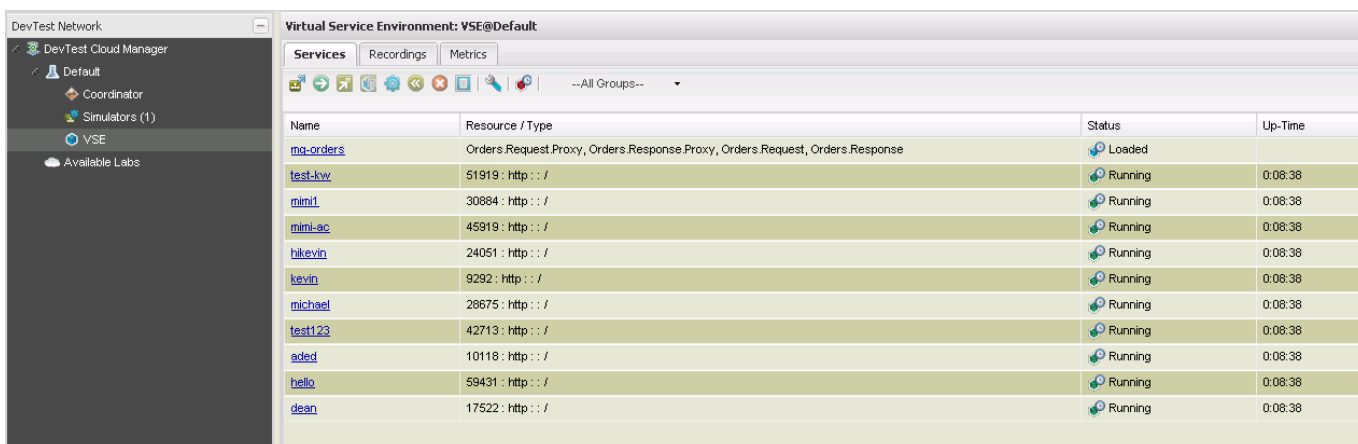This section will focus on configuring this DevTest installation

Consideration during the upgrade from 7.5.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 7.5.2 install prior to the release

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.

- ***Only Java 8 update 60 and above is supported for DevTest 9.x (except for CAI which still supports Java 7). As a result, if your custom extensions were with any previous Java release, you would have to recompile them with the new Java version.***

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
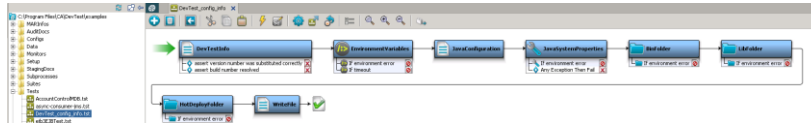
	From the shortcut on the desktop, open the DevTest Workstation Login as admin/admin The Examples project opens by default Expand the Tests folder and double-click to select and open the DevTest_config_info.tst test
	Right click and Stage this test to the coordinator and start the test This test should complete successfully.
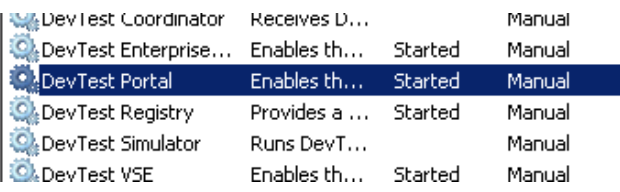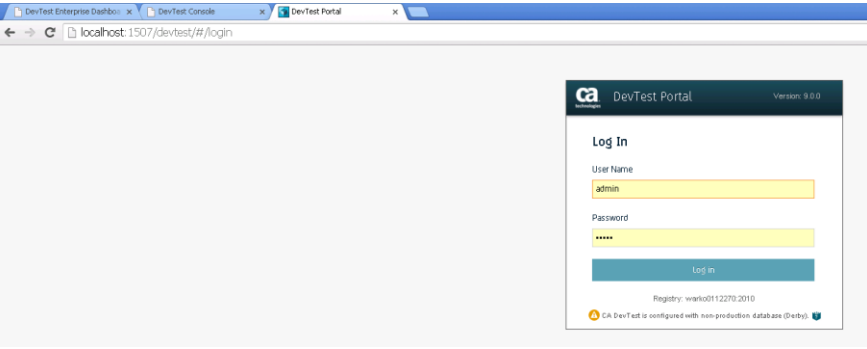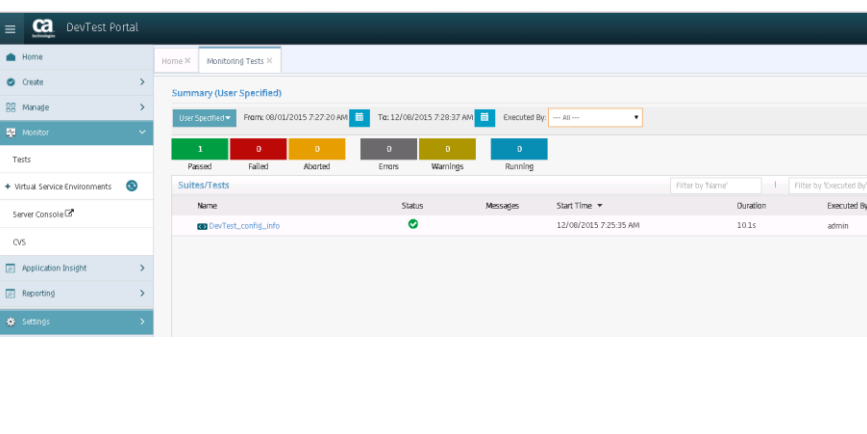
	From Windows Services, verify that the DevTest Broker service is running. If not, start this service Start the DevTest Portal service
	Once the service starts, wait for about 3-5 minutes (for the first time only). Then go to the DevTest Portal UI at port 1507 Login as admin/admin
	Click on the Monitor tab and then on the Tests. You should see your test(s) as passed. To get more information on the Test Case, click on the Name link of the test case to drill down into the details. 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!

Chapter 7: Pre-9.1 Registries

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.

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=13a0eef51bedf0fdbc7e8d6740632c27
lisa.acl.auth.enabled=true

lisa.enterprisedashboard.url=tcp://10.130.174.58:2003/Enterprise
Dashboard
```

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.

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

<table>
<tr>
<td>

```
##################################################################
####################
###
### 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
```
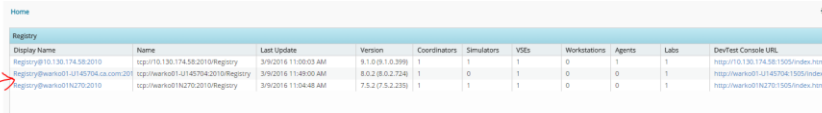
</td>
<td>

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.

</td>
</tr>
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</td>
<td>

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

</td>
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Now you can continue to use all the great new features of DevTest 9.1!

</td>
<td></td>
</tr>
</table>