CD SWAT

DevTest 9.5.1

How-To

DevTest ALM Integration
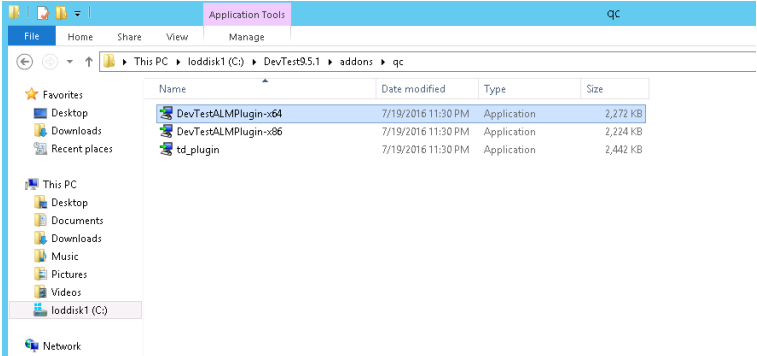
Prepared by: **Surya Suravarapu**
Date: **October 2016**

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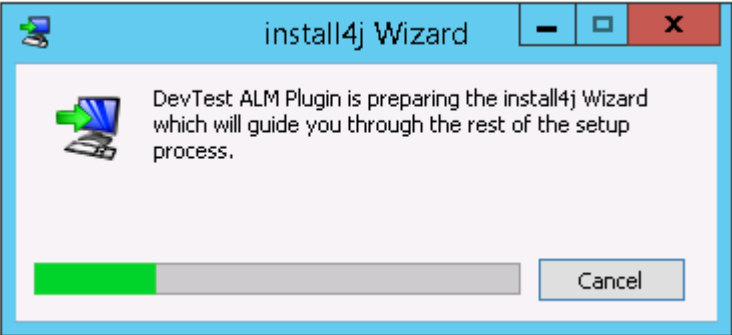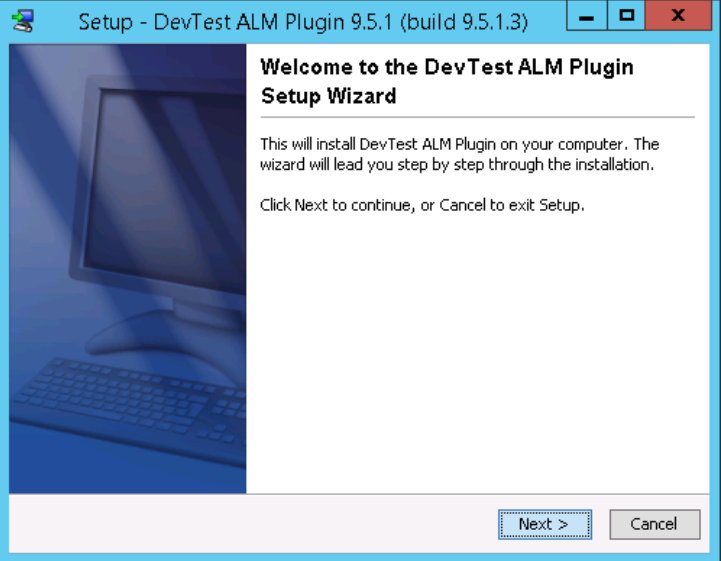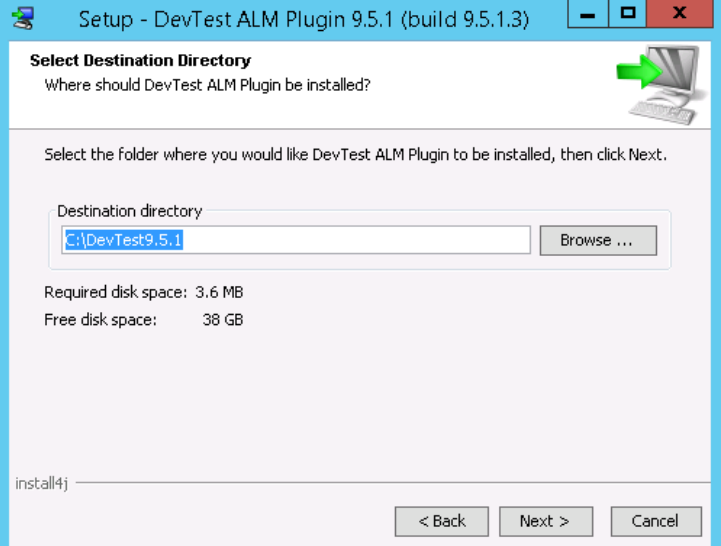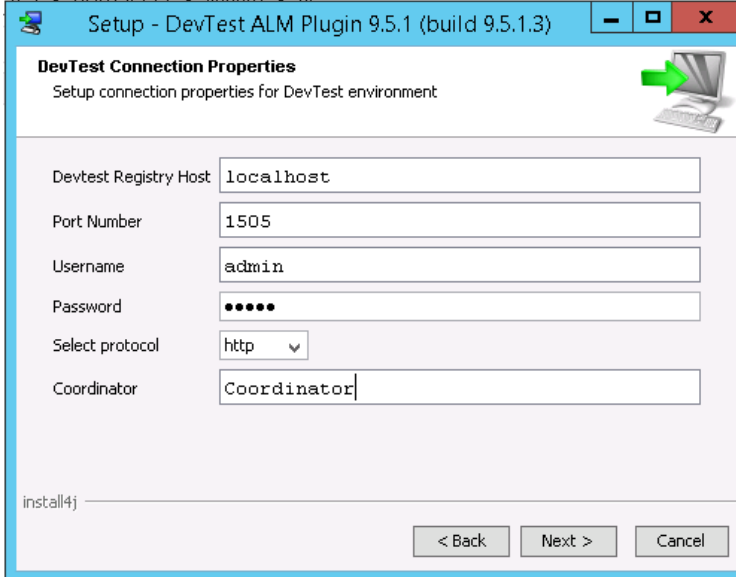
DevTest – ALM Prerequisites
Choosing an installer

	The installer for ALM integration with DevTest are present inside Lisa Root → addons → qc folder. Here, we have three installers. Depending on the version of HP ALM / HP QC and whether it is 32 bit or 64 bit, you can choose the installer.
	For HP ALM 12.2 or 12.5 we can choose the DevTestALMPlugin-x64 (64 bit) and DevTestALMPlugin-x86 (32 bit). (DevTest 9.1 and later) For older versions, we can use td_plugin installer. Pre requisites can be found below. **ALM** https://docops.ca.com/devtest-solutions/9-5/en/installing/installing-integration-tools/install-devtest-alm-plug-in#InstallDevTestALMPlug-in-Prerequisites **QC (Older)** https://docops.ca.com/devtest-solutions/8-0/en/installing-and-migrating/installing/installing-integration-tools/install-the-hp-alm-quality-center-plug-in
	Contact CA Support Online The plugins as delivered with DevTest 9.1.0 and 9.5.1 GA need to be updated so please open a new case on CA Support Online to get the latest version

DevTest – ALM Integration Setup

	For the purpose of the document, we chose the 64 bit ALM installer. The installation will be as given below.
	The installation wizard home screen is as given below.
	We can select the directory where we would like to install the plugin as shown in below screen.

Devtest Connection properties

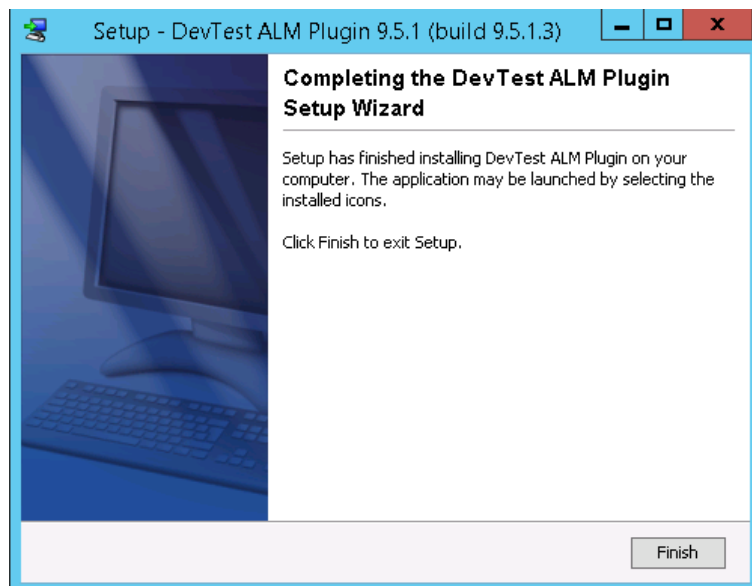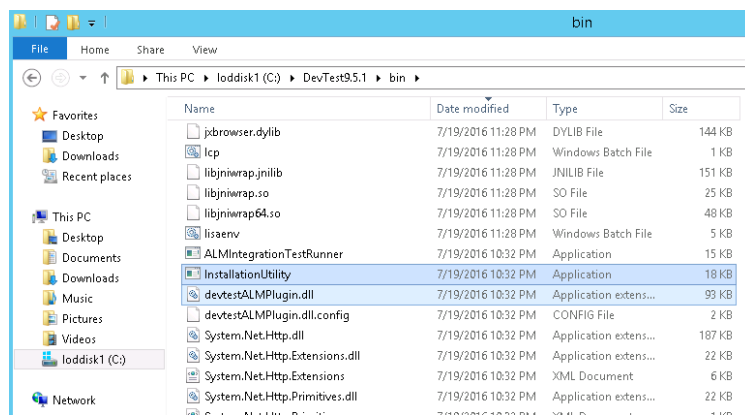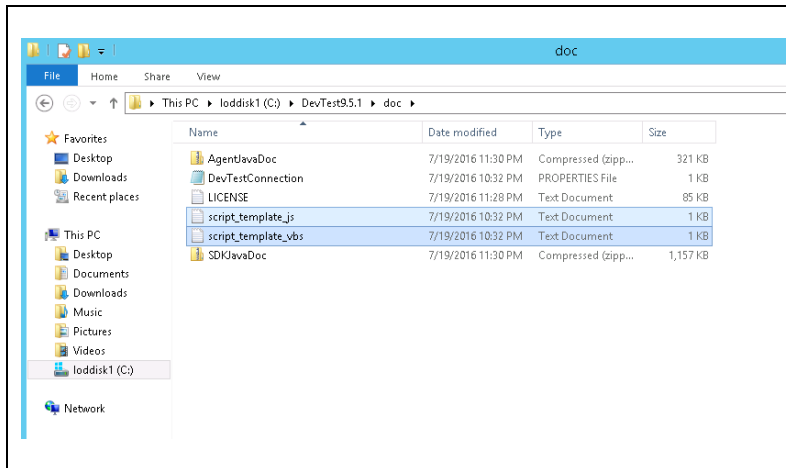|	
	In the below setup screen, provide the DevTest Connection properties. DevTest Registry Host – Host name where the Registry will run Port Number – Port number on which Registry service will run Username – User name for the DevTest connection Password – Password corresponding to the DevTest user name Protocol – Select the protocol used for communication Coordinator – The name of Coordinator server
	After this, the installer will continue as shown below and we can see the finish screen.
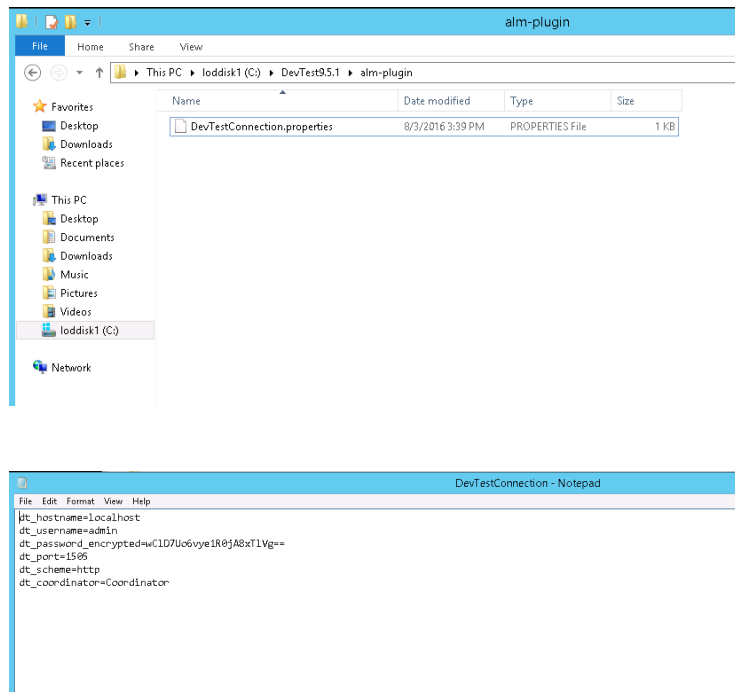
The connection information that we entered during the install gets stored under the Lisa Root → alm-plugin folder as shown below. This file will contain the connection settings; we can edit this file to change the connection settings as shown.

DevTestConnection - Notepad

```
dt_hostname=localhost
dt_username=admin
dt_password_encrypted=wC1D7Uo6vye1R0jA8xT1Vg==
dt_port=1505
dt_scheme=http
dt_coordinator=Coordinator
```

Verification of the install

In the Lisa Root → bin folder, we need to verify if we can see the files InstallationUtility.exe and devtestALMPlugin.dll
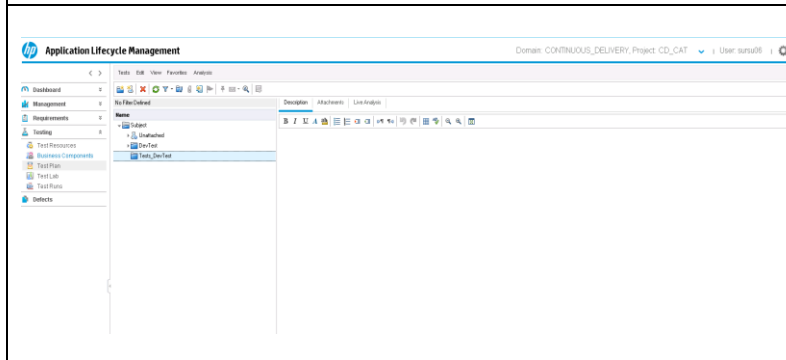
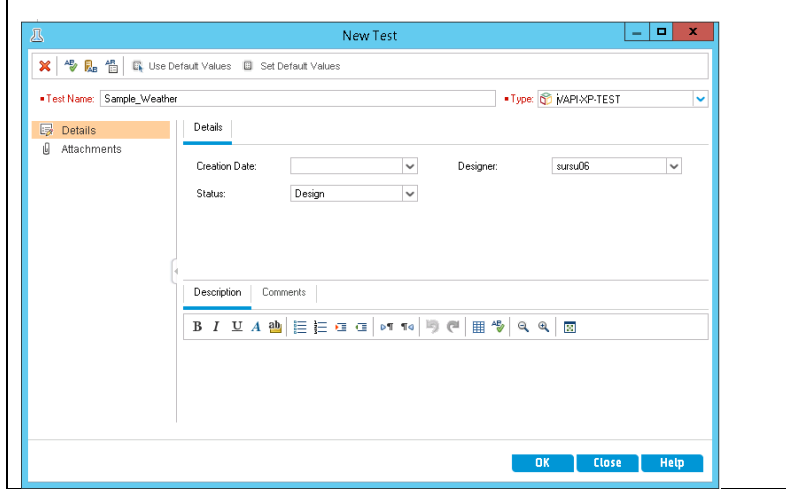|	
	The next thing to verify is to see if the script templates have been generated under Lisa Root → doc folder. The files will be script_template_js.js and script_template_vbs.vbs

Setup of Tests in ALM

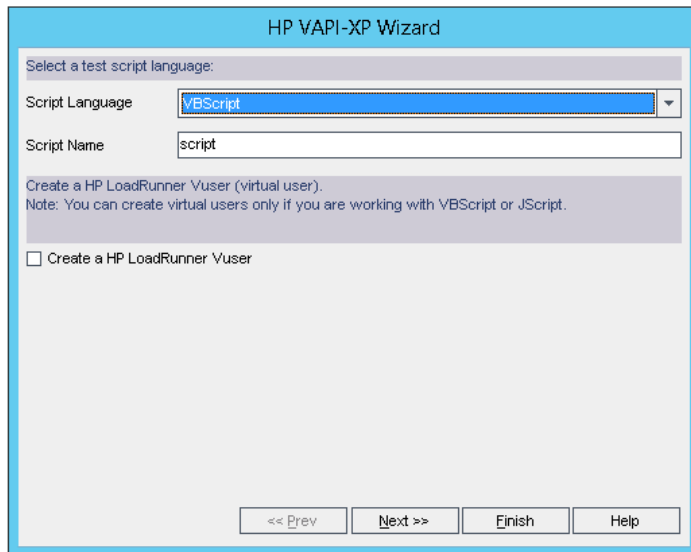## Defining test under Test Plan

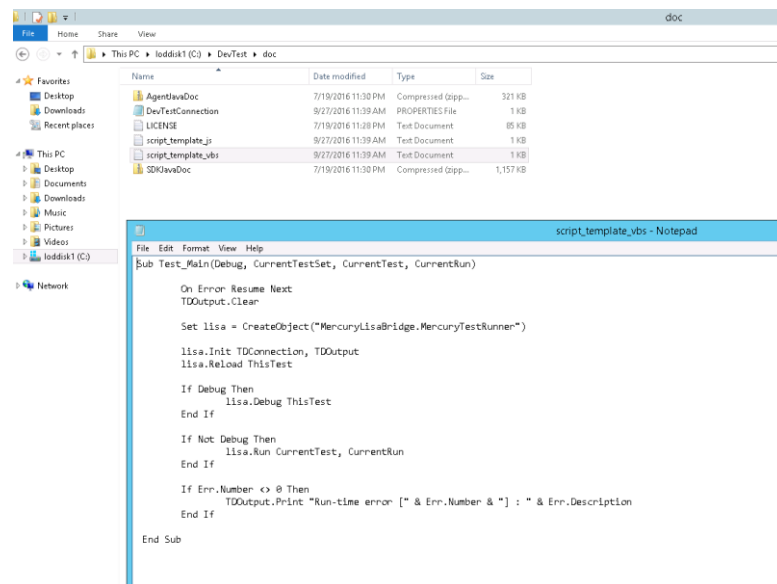|	
	Once these things have been verified, we can start executing tests using the DevTest ALM integration as shown below.
	In ALM, Test Plan, create a new Test following the steps below.
	In ALM, New Test screen, select type as 'VAPI-XP-TEST' and enter other details like Test Name.

In the VAPI-XP Wizard, we can select the script language of our choice (either Java script or VBScript).

Then, based on the language we choose, we need to go to the doc folder and copy the contents of the corresponding script template file. Based on whether we chose VBScript or Java Script, we need to copy script from the files 'script_template_vbs.vbs' or 'script_template_js.js' respectively.
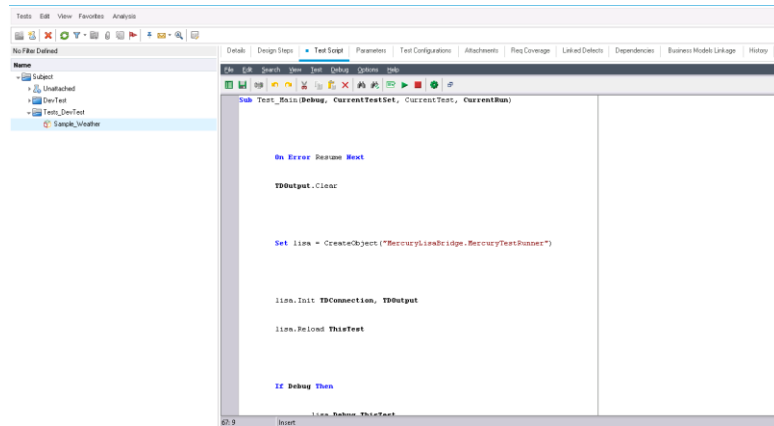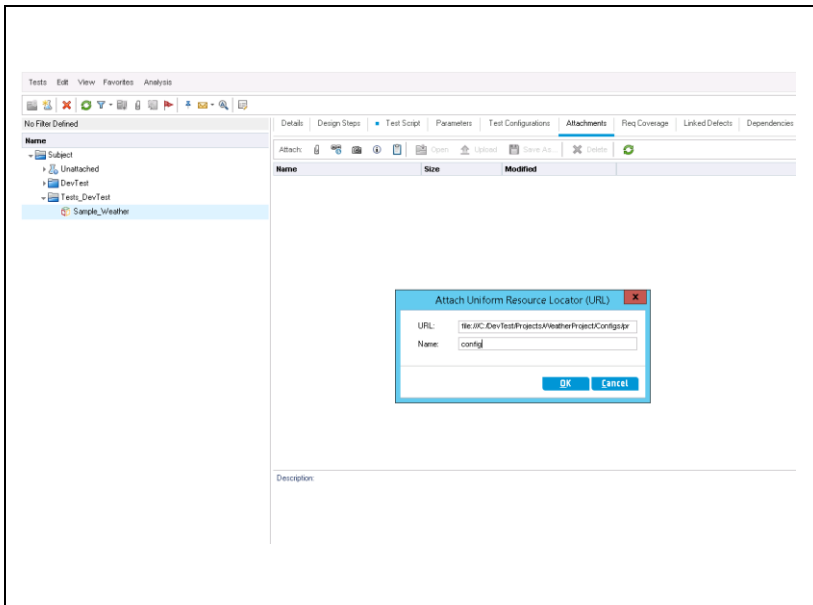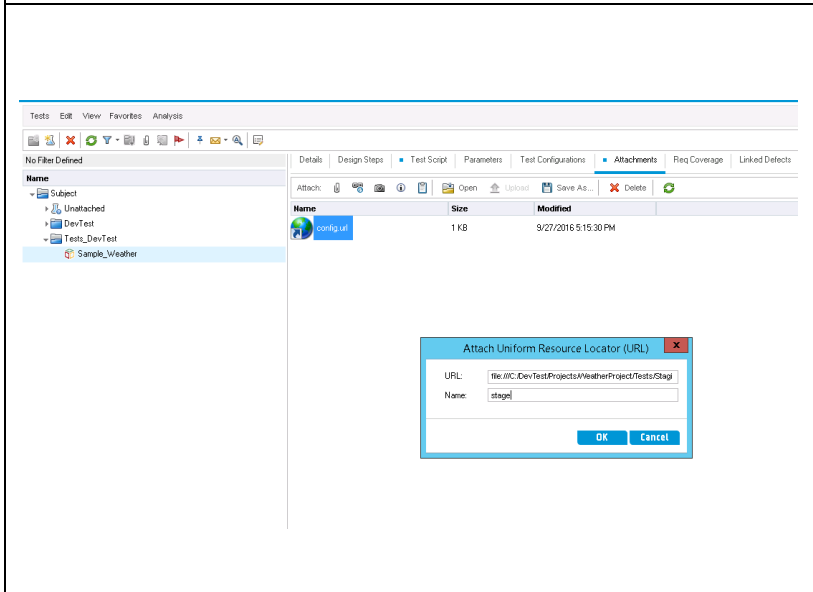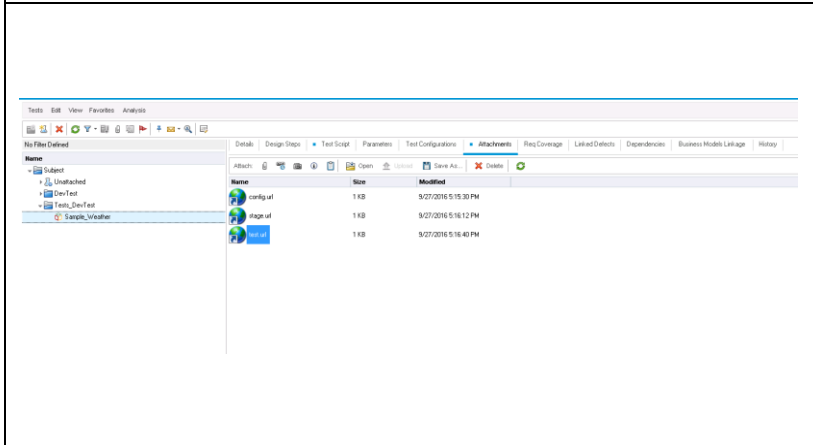
Once we copy the script, we need to paste it in the test case under the Test Script tab (After clearing the default script that is present in the test case) as shown below.
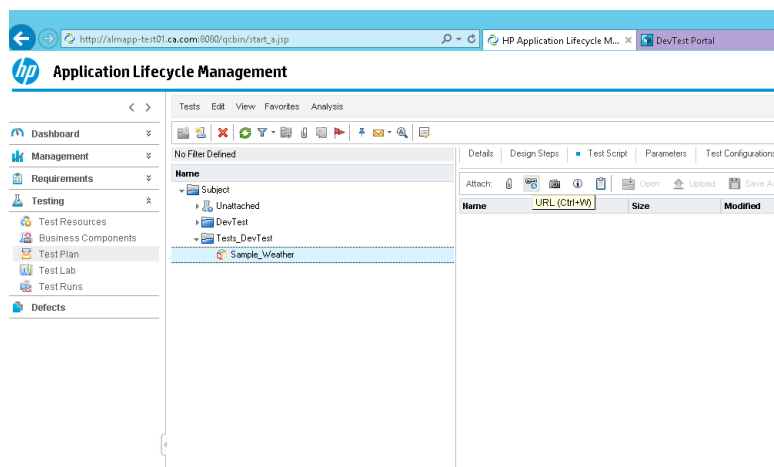

Next, we need to go to attachments tab and add 3 URL attachments as shown below.

For the purpose of the demo, we have added the below attachments with corresponding names as given below.

Name – config
URL - file:///C:/DevTest/
Projects/WeatherProject
/Configs/project.config

Name – stage
URL - file:///C:/DevTest/Projects
/WeatherProject/Tests
/StagingDocs/Run1User1Cycle.stg

Name - test
URL - file:///C:/DevTest
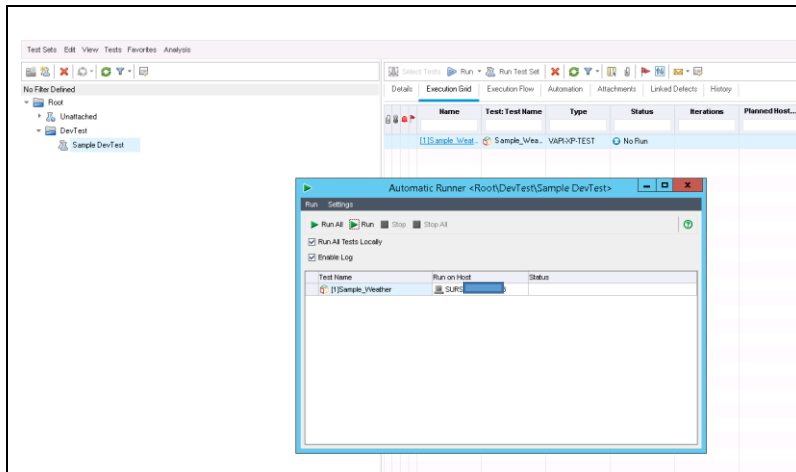/Projects/WeatherProject
/Tests/Weather.tst
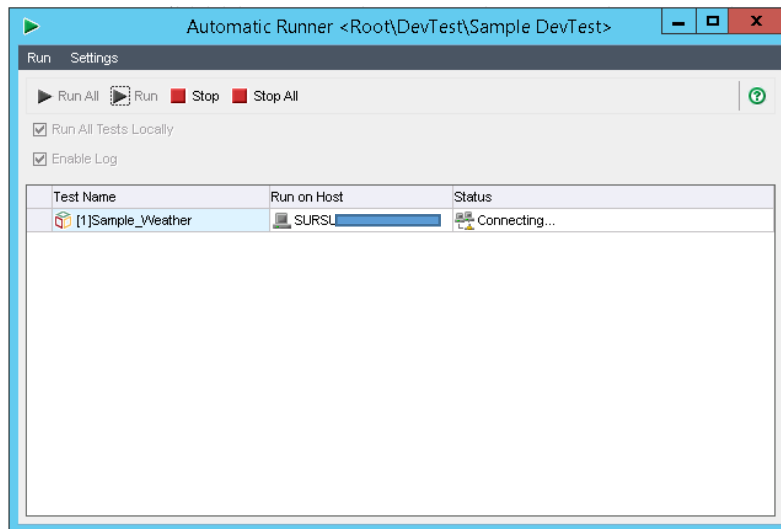
Defining Test Set under Test Lab
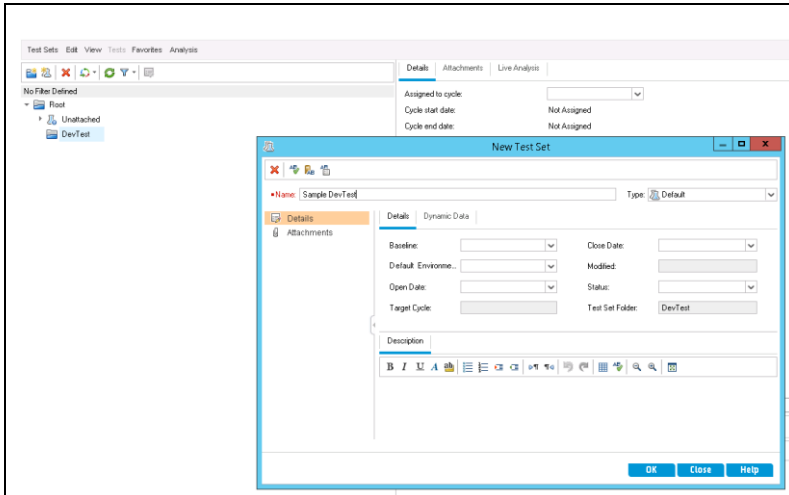
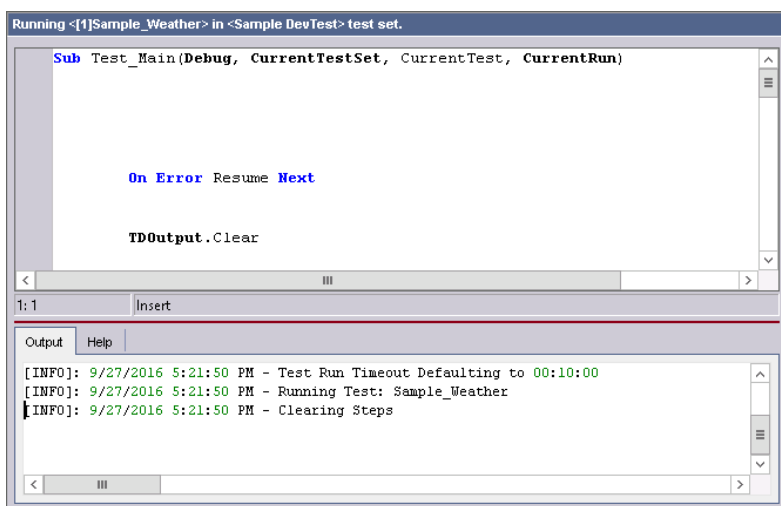Once the url have been defined, we need to create a new Test Set under Test Lab as shown below.
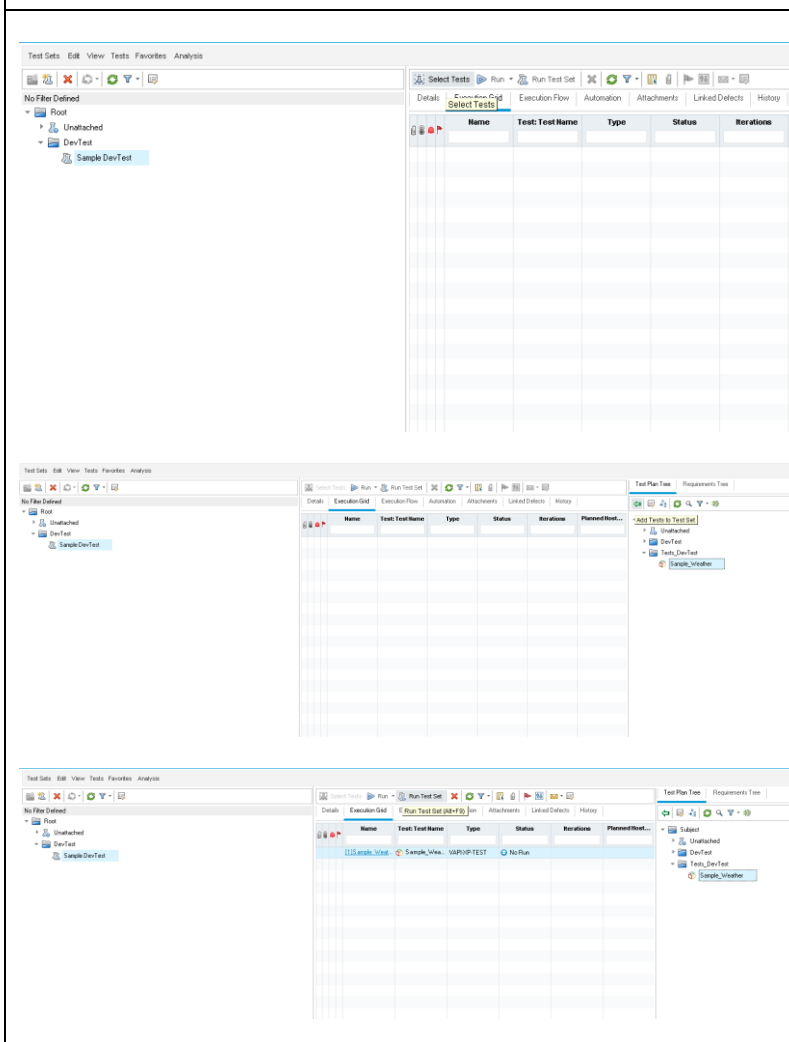
We need to select the new test we have previously created to the test set as shown in the below screens.
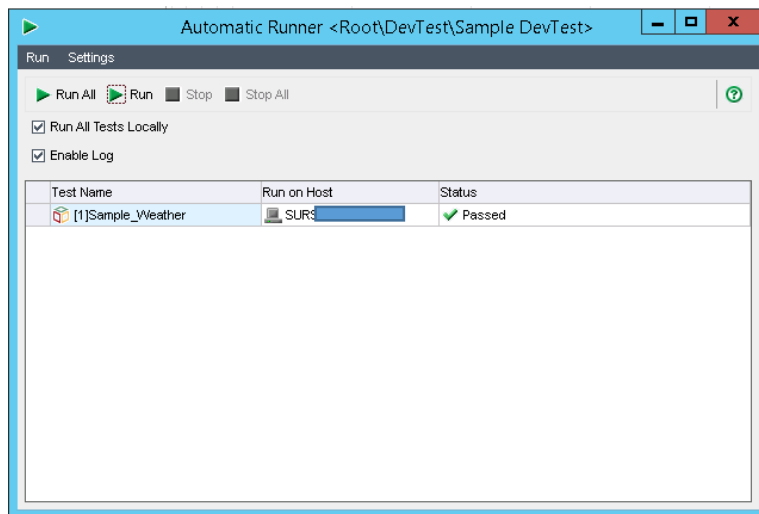
Once that is done, we can click on Run Test Set and select the Host on which to run as shown below.


The Test will start executing as shown below after connecting to the host on which to run the test and the result will be shown after the execution is completed.

Running <[1]Sample_Weather> in <Sample DevTest> test set.

```
Sub Test_Main(Debug, CurrentTestSet, CurrentTest, CurrentRun)




        On Error Resume Next


        TDOutput.Clear
```

1: 1   Insert

Output   Help

[INFO]: 9/27/2016 5:21:50 PM - Test Run Timeout Defaulting to 00:10:00
[INFO]: 9/27/2016 5:21:50 PM - Running Test: Sample_Weather
[INFO]: 9/27/2016 5:21:50 PM - Clearing Steps
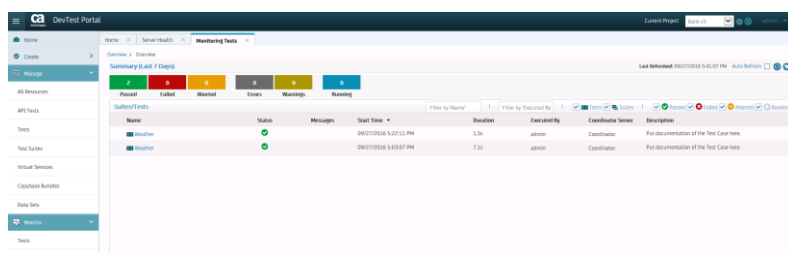
	In case the test fails, we can see detailed error in the log file (alm-devtest.log) under Lisa Root → alm-plugin folder.

Viewing the Test Runs
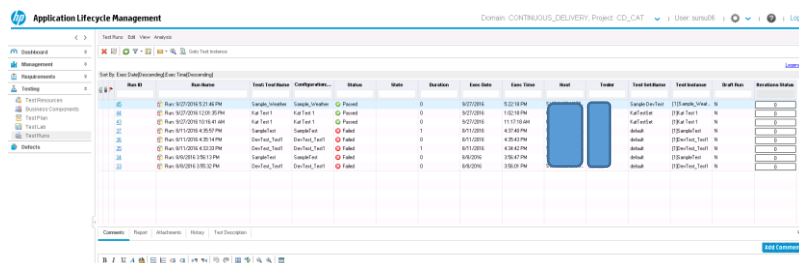
	In ALM, under Test Runs, we can see the list of tests run and the result along with other details.
	In DevTest also, we can see the details of the tests that got staged via ALM and we can generate the required reports for the executions in DevTest via portal, which offers a number of reports out of box for the users.