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DevTest/HP-ALM Integration

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Agenda

HPE ALM

What is the Integration?

Why do we need integration?

Types of integration

How does the Integration work?

Installation Utility

How to configure the integration?

Debugging Issues

Demo

Q & A

HPE ALM

Application Life cycle management – previously QC

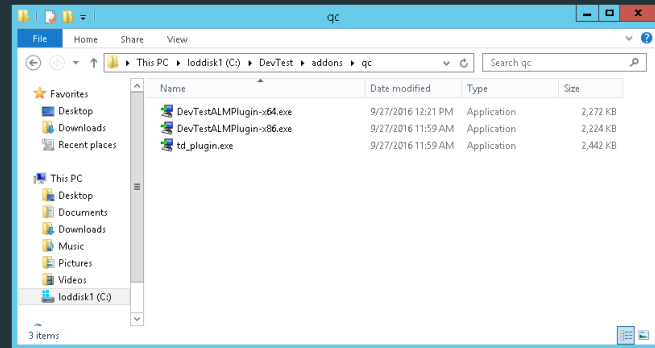
- Gain insights and team collaboration across SDLC, release faster with quality
- Test Management - Test Planning, Execution, Defects and Release quality
- Other Features
 - Agile Project Management
 - Application Lifecycle Intelligence
 - Open Source Integrations



Reference - <http://www8.hp.com/us/en/software-solutions/application-lifecycle-management.html>

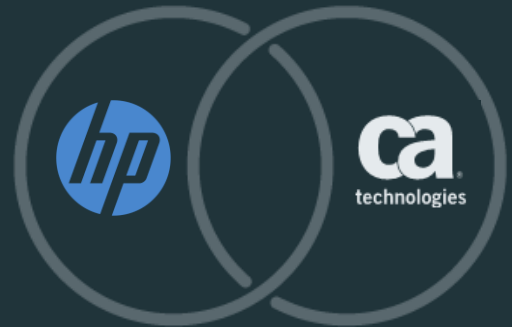
What is the integration?

- DevTest ALM Plugin
- Enables to load and run DevTest test case as a QC test from HP ALM
- QC features + Power of DevTest
- The plugin supports 64 and 32 bit installation of DevTest (Starting DevTest 9.1)



Why do we need integration?

- Enables to load and run DevTest test case as a QC test from HP ALM
- HP ALM is used widely by enterprises to track tests, defects etc.
- Helpful in managing tests, tracking results of test execution in one place.



Types of Integration

For HP ALM 12.20
and beyond (DevTest
9.1 and later)

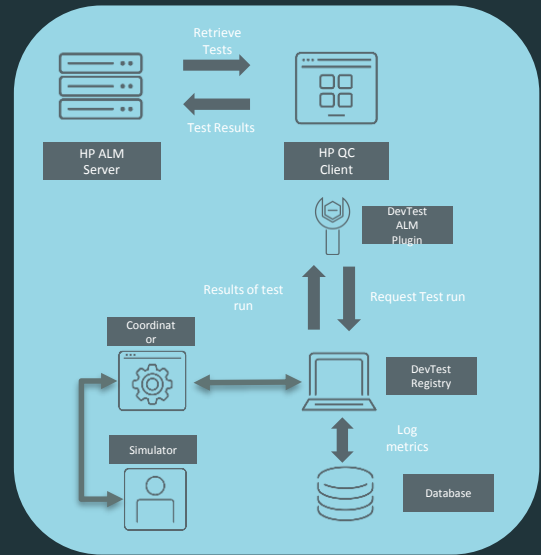
- DevTestALMPlugin-x64
(64 bit)
- DevTestALMPlugin-x86
(32 bit)
- .NET 4.5 Runtime or later

For older versions ALM
10 or 11 (DevTest 7.0
and later)

- td_plugin installer
- .NET 2.0 Runtime

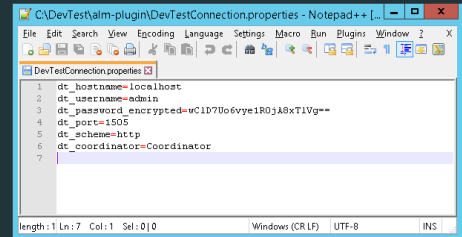
How does the integration work?

- QC Client retrieves tests from HP ALM Server.
- ALM tests mapped to DevTest tests using MAR, MAR info, Test, Config, Staging files.
- Test execution in ALM triggers plugin to execute DevTest tests.
- Results sent back to ALM client



Installation Utility

- Plugin Installer uses Installation Utility
 - Register the plugin
 - Create `DevTestConnection.properties` file
- Use to change connection information and generate new encrypted password in `DevTestConnection.properties`



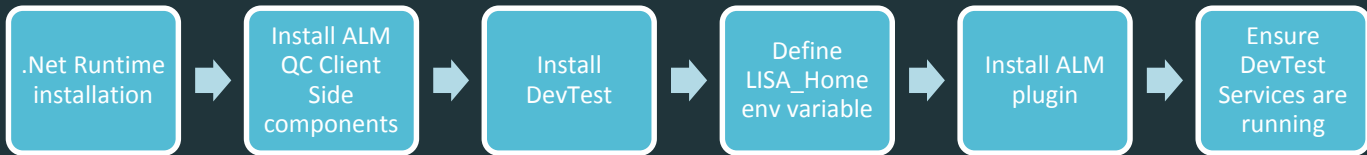
The following commands are available:

- **register <ddl_name>**
Registers the dll file.
- **deregister <ddl_name>**
Deregisters the dll file.
- **check <ddl_name>**
Checks the registration of the dll file.
- **config <options>**
Creates or replaces the configuration file.

```
C:\DevTest\bin>InstallationUtility config --host localhost --user admin --pass admin --port 1505 --protocol http --coord Coordinator
```

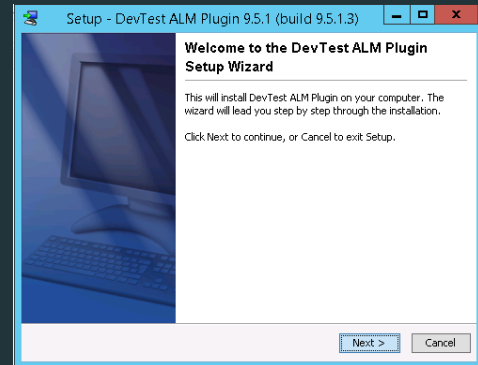
How to configure the integration?

Installation of DevTest ALM Plugin



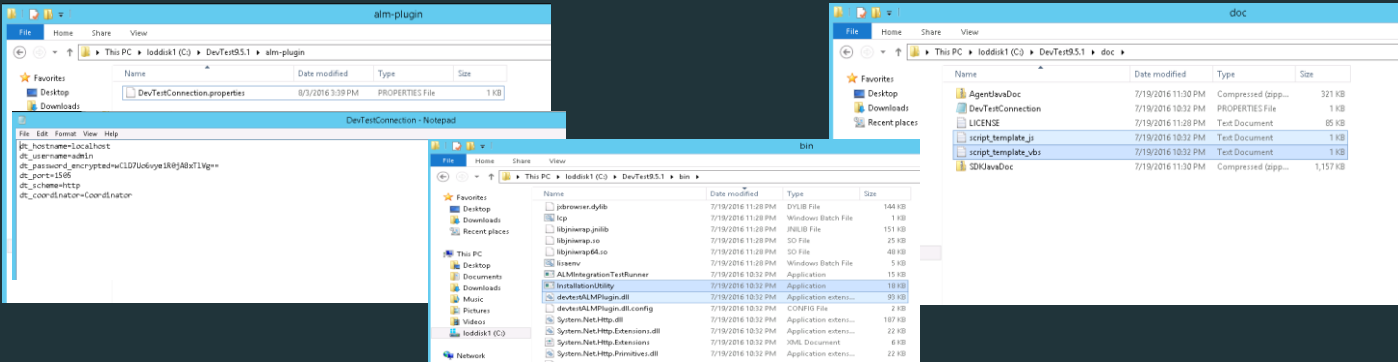
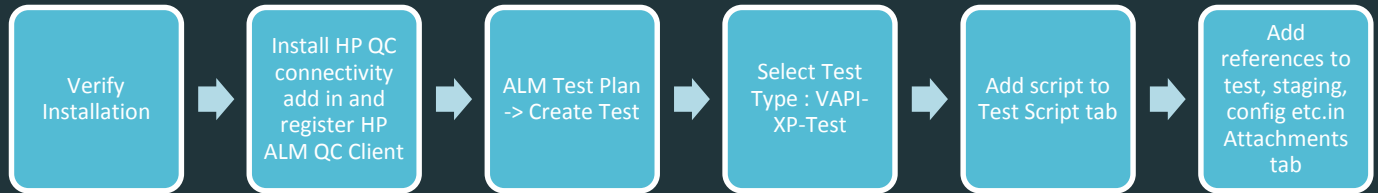
This PC > Iodisk1 (C:) > DevTest9.5.1 > addons > qc

| Name | Date modified | Type | Size |
|----------------------|--------------------|-------------|----------|
| DevTestALMPlugin-x64 | 7/19/2016 11:30 PM | Application | 2,272 KB |
| DevTestALMPlugin-x86 | 7/19/2016 11:30 PM | Application | 2,224 KB |
| td_plugin | 7/19/2016 11:30 PM | Application | 2,442 KB |

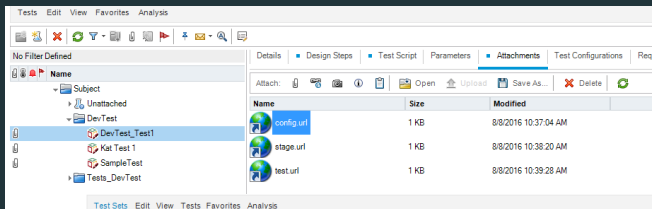
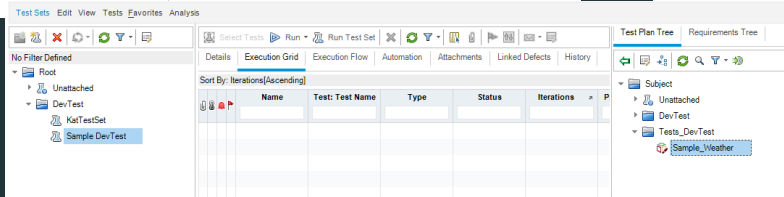


How to configure the integration?

Setup DevTest Test in HP Quality Center

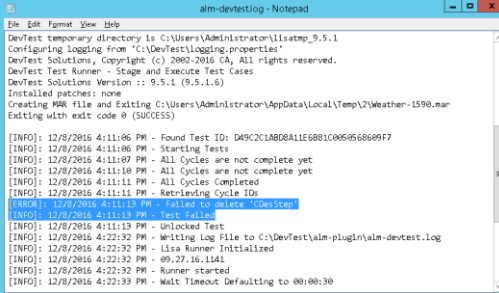


Run DevTest Test in HP Quality Center

[illegible]

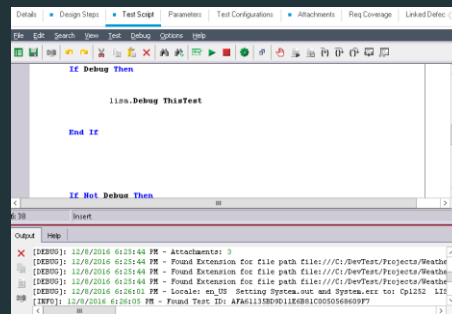
Debugging

- Error Log
 - DevTest Home/Alm-plugin folder
 - alm-devtest.log
- Integrated Debugger in ALM
 - Test Plan
- ALM Server Logs
 - Cases where alm devtest log doesn't offer much information



```
alm-devtestlog - Notepad
File Edit Format View Help
DevTest temporary directory is C:\Users\Administrator\AppData\LocalTemp\9.5.1
Configuring logging from 'C:\DevTest\logging.properties'
DevTest Solutions, Copyright (c) 2002-2016 CA, All rights reserved.
DevTest Test Runner - Stage and Execute Test Cases
DevTest Solutions Version :: 9.5.1 (9.5.1.6)
Installed patches: none
Creating PRR file and Exiting C:\Users\Administrator\AppData\LocalTemp\Weather-1590.mar
Exiting with exit code 0 (SUCCESS)

[INFO]: 12/8/2016 4:11:06 PM - Found Test ID: D49C2C1ABD6A1E6801006956869F7
[INFO]: 12/8/2016 4:11:06 PM - Starting Tests
[INFO]: 12/8/2016 4:11:07 PM - All Cycles are not complete yet
[INFO]: 12/8/2016 4:11:10 PM - All Cycles are not complete yet
[INFO]: 12/8/2016 4:11:11 PM - All Cycles Completed
[INFO]: 12/8/2016 4:11:11 PM - Retrieving Cycle IDs
[ERROR]: 12/8/2016 4:11:13 PM - failed to delete 'DevTest'
[INFO]: 12/8/2016 4:11:13 PM - Test file
[INFO]: 12/8/2016 4:22:32 PM - Unlocked Test
[INFO]: 12/8/2016 4:22:32 PM - Writing Log File to C:\DevTest\alm-plugin\alm-devtest.log
[INFO]: 12/8/2016 4:22:32 PM - Lisa Runner Initialized
[INFO]: 12/8/2016 4:22:32 PM - 09:27:16.1341
[INFO]: 12/8/2016 4:22:32 PM - Runner started
[INFO]: 12/8/2016 4:22:33 PM - Wait Timeout Defaulting to 00:00:30
```



[INFO]: 8/5/2016 6:51:13 PM - Got lock on test and run
[ERROR]: 8/5/2016 6:51:15 PM - Item does not exist.
[INFO]: 8/5/2016 6:51:15 PM - Waiting 10 seconds for lock

Demo





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