Introduction to HP ALM

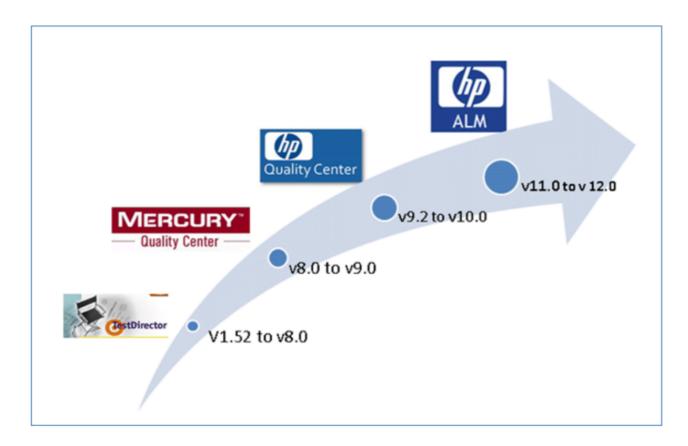
The various stakeholders involved in a typical project are -

- Developer
- Tester
- Business Analysts
- Project Managers
- Product Owners

These stakeholders perform diverse set of activities that need to be communicated to all concerned team members.



ALM evolution

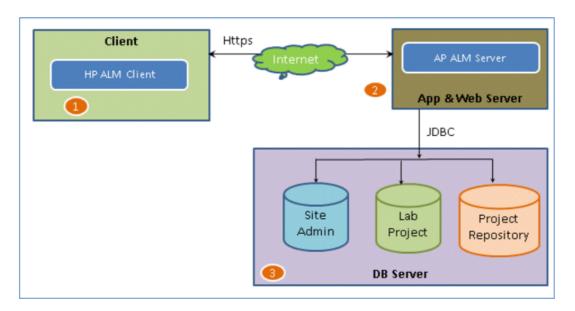


Architecture of QC

Now let us understand the technology part of HP-ALM. ALM is an enterprise application developed using Java 2 Enterprise Edition (J2EE) that can have MS SQL Server or Oracle as its back end. ALM has 3 components – Client, Application Server and Database Server.

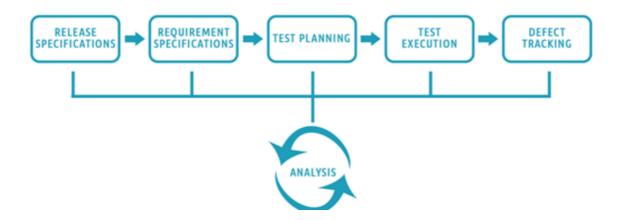
- 1.**HP ALM client:** when an end user/tester accesses the URL of ALM, the client components are downloaded on the client's system. ALM client components help the user to interact with the server using .NET and COM technologies over a secured connection (HTTPS).
- 2.**ALM server/Application server:** Application server usually runs on a Windows or Linux platform which caters to the client requests. App server makes use of the Java Database Connectivity (JDBC) driver to communicate between the application server and database servers.

- 3. Database servers: The Database layer stores three schemas.
- •Site Administration schema: It Stores information related to the domains, users, and site parameters.
- •Lab Project: This schema stores lab information related to functional and performance testing on remote hosts, Performance Center server data.
- •**Project schema:** Stores project information, such as work item/data created by the user under the project area. Each project has its own schema and they are are created on the same database server as the Site Administration schema.



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HP ALM WORKFLOW



How to install HP ALM

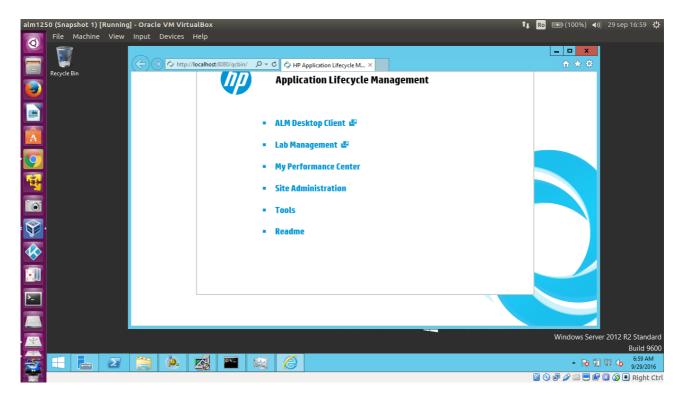
Installation process



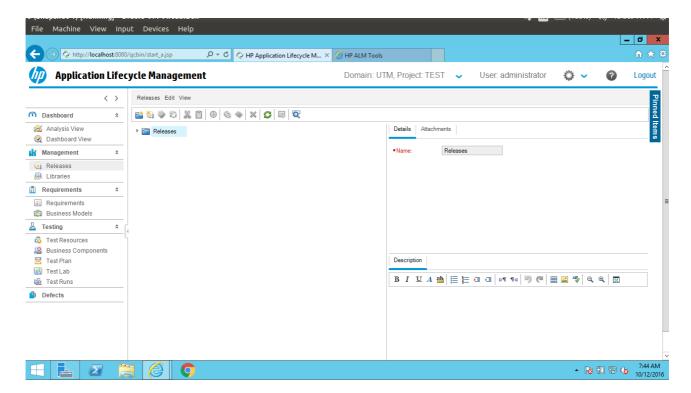
 $\underline{http://www8.hp.com/us/en/software-solutions/alm-software-development-testing/try-now.html}\\$

Create a Domain, Project, User in HP ALM

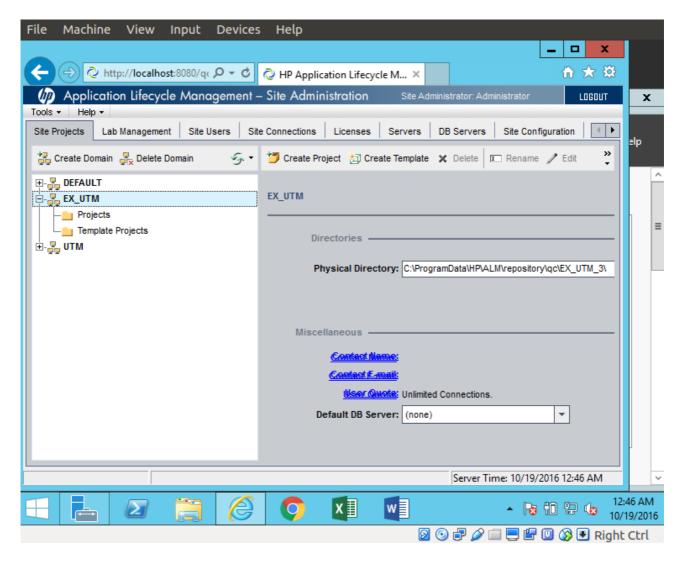
ALM client launch from IE



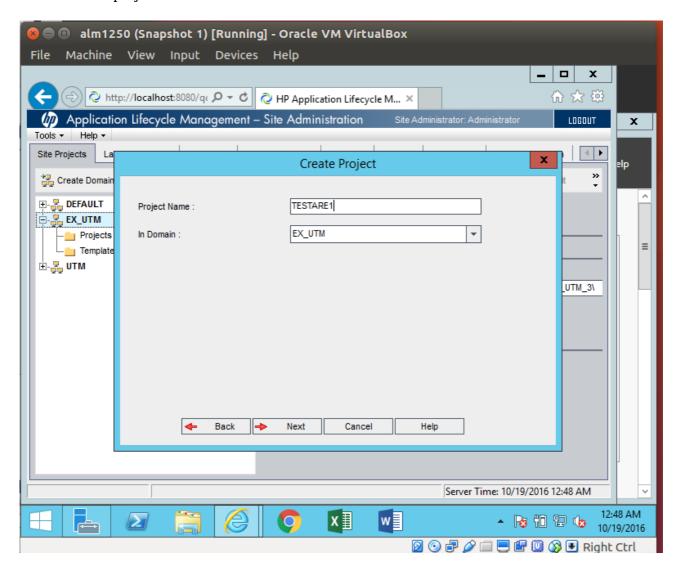
Client interface

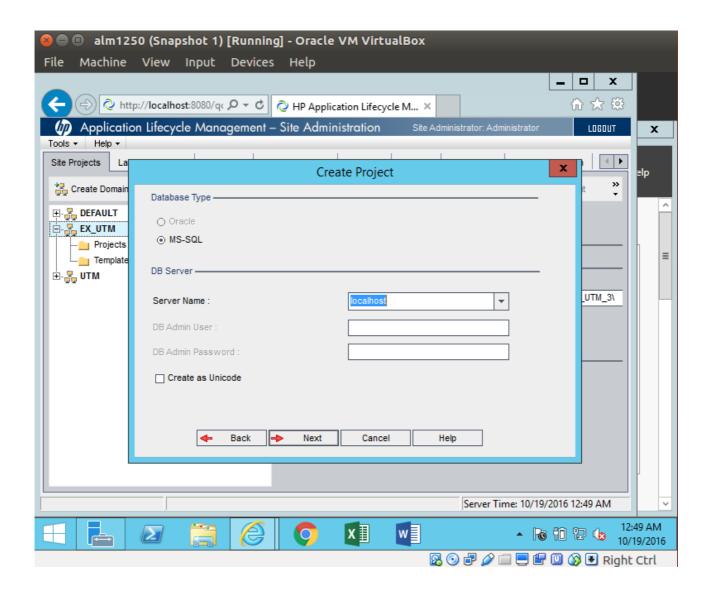


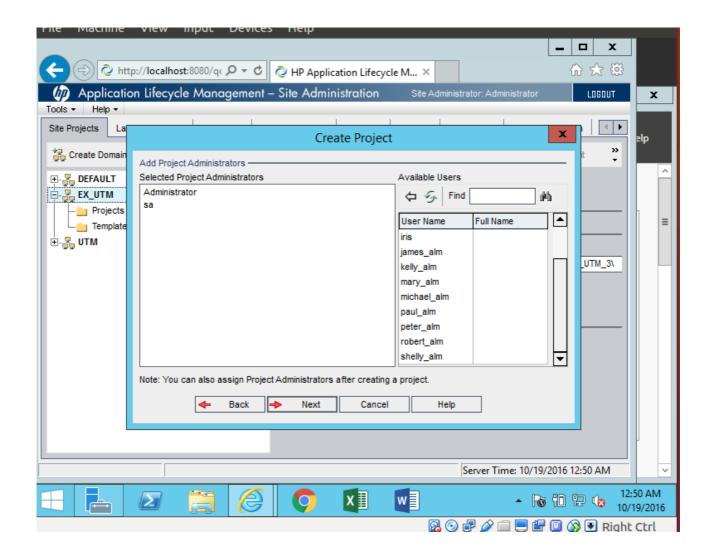
How to createEX_UTM domain

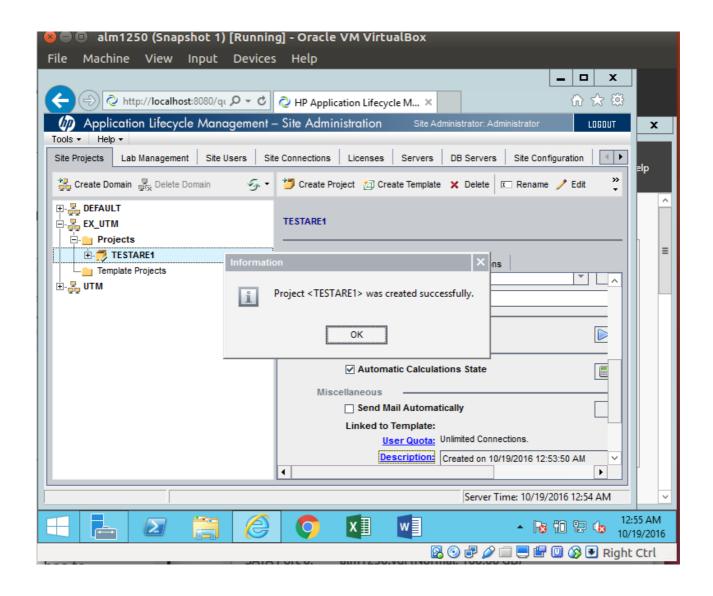


How to create project TESTARE1

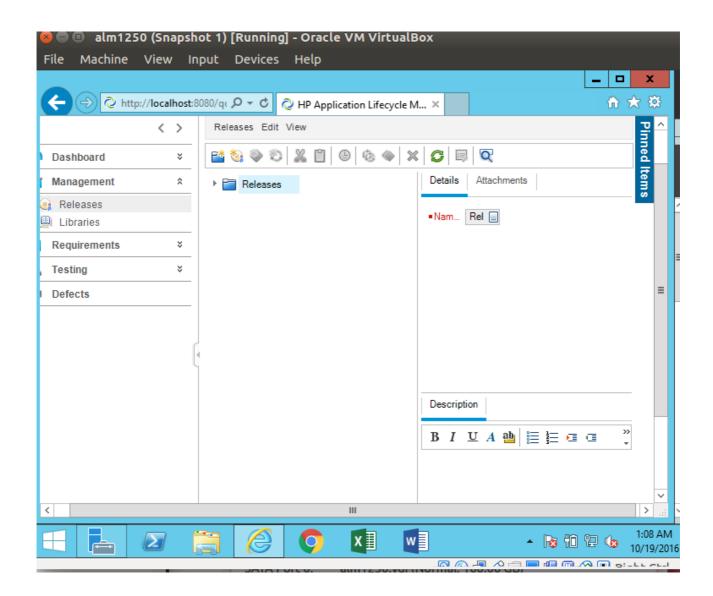


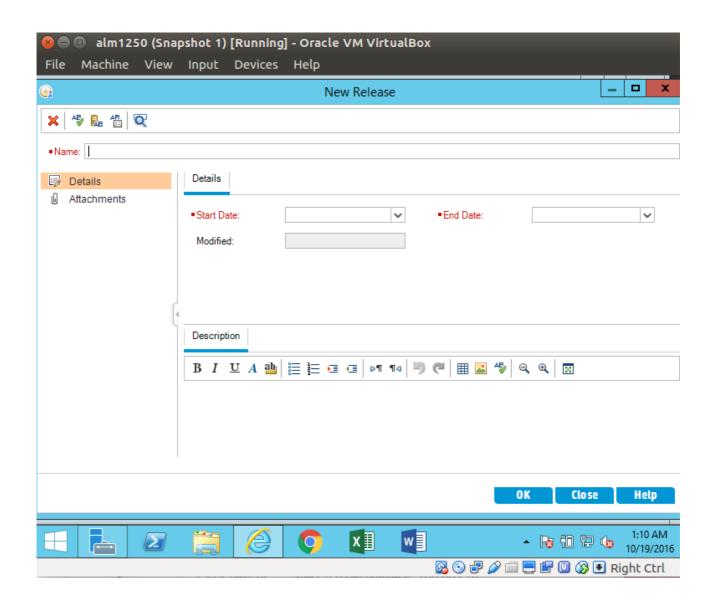


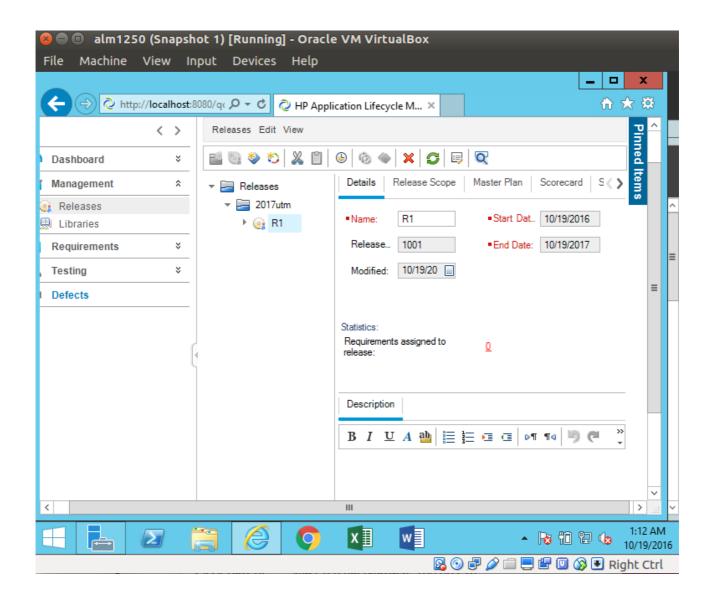




Release Specifications: Understanding the Management Tab in HP ALM





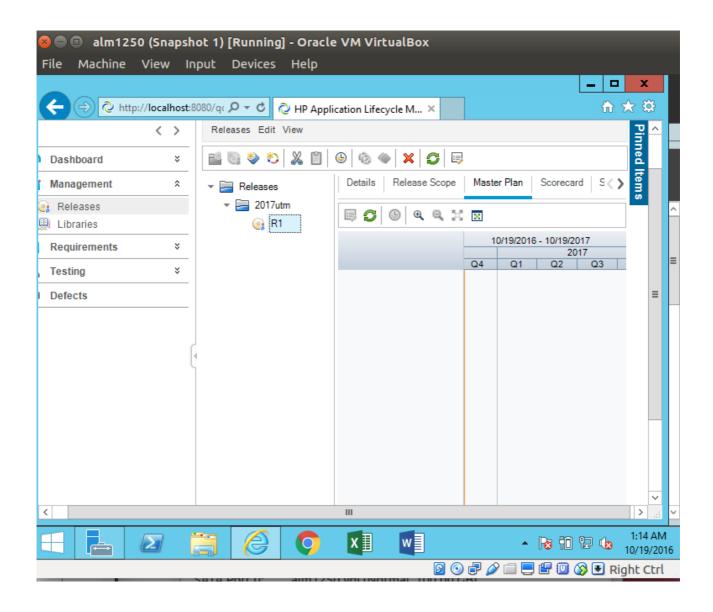


Requirements Specifications module in HP ALM

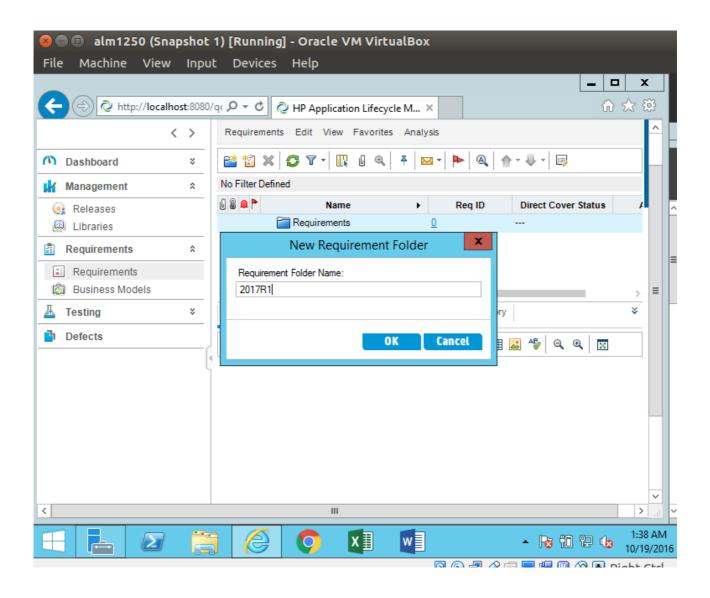
Test Plan Module in HP ALM

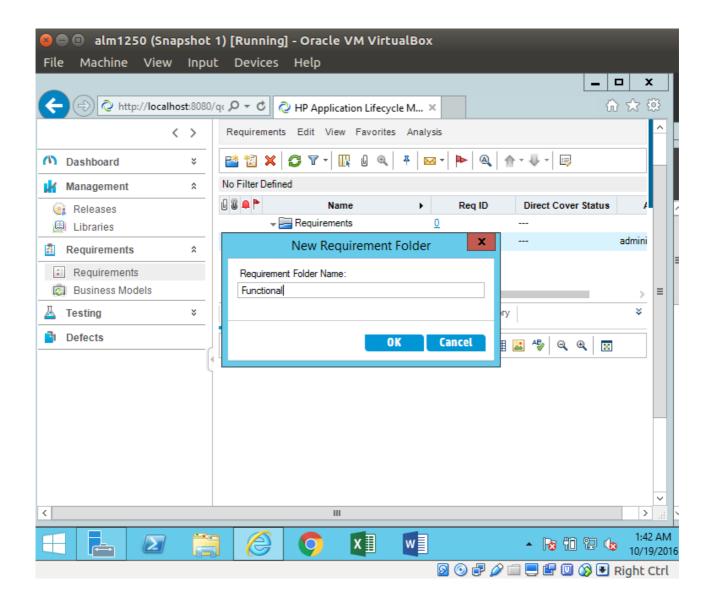
Test Lab in HP ALM

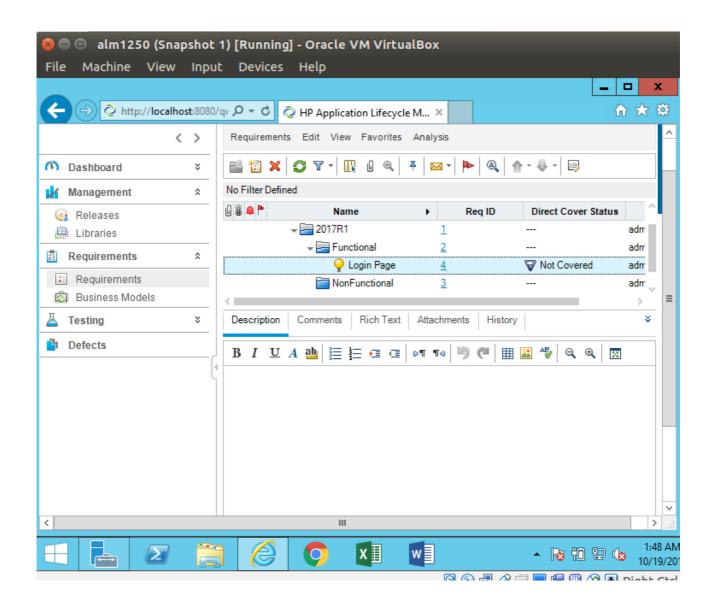
How to integrate UFT(QTP) with ALM

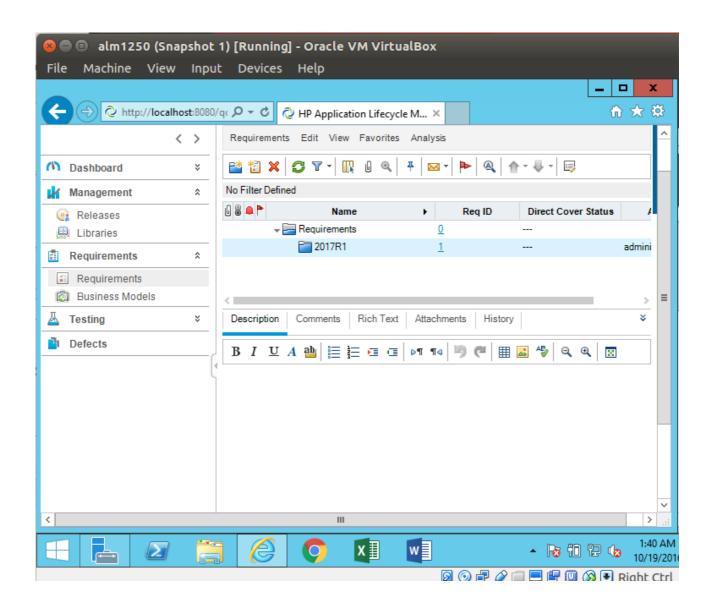


Requirements Specifications module in HP ALM

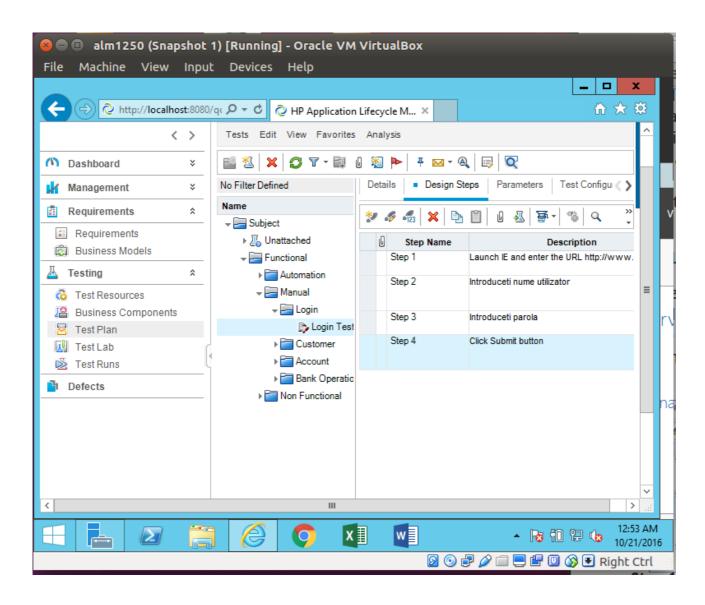


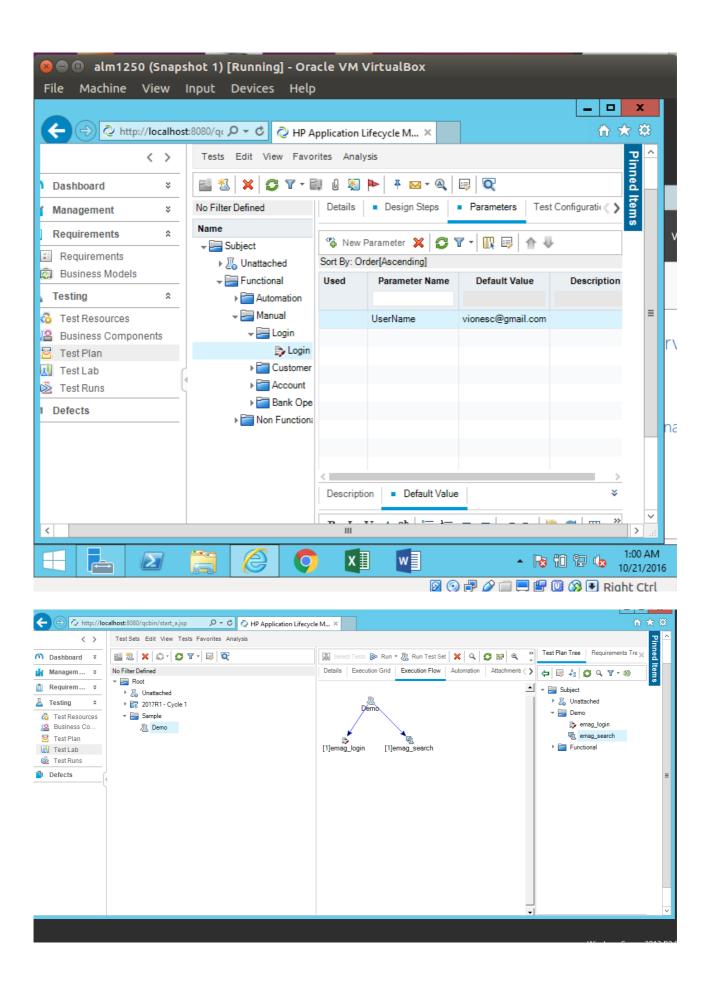




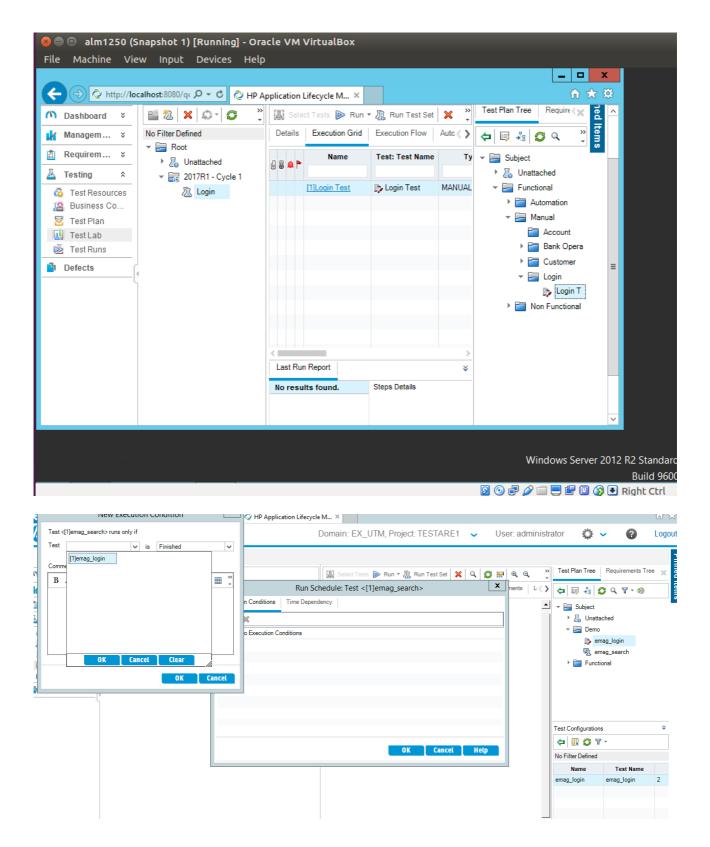


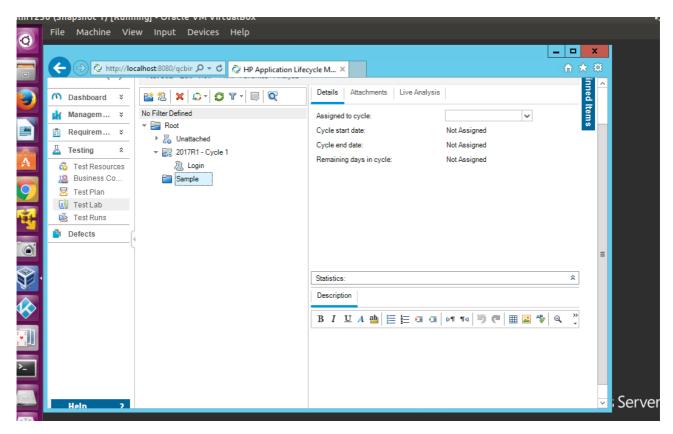
Test Plan Module in HP ALM

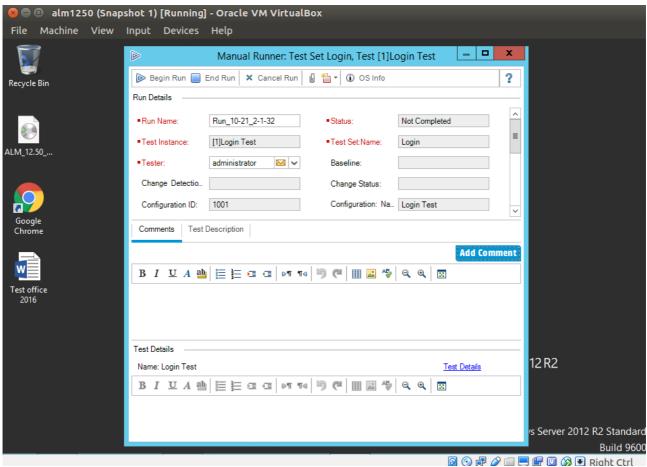


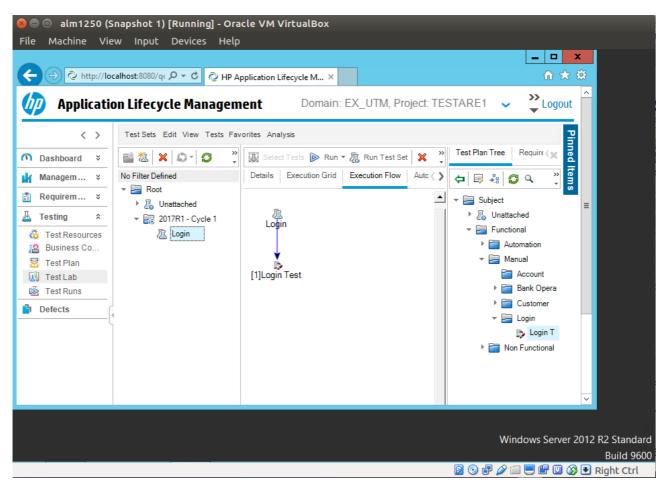


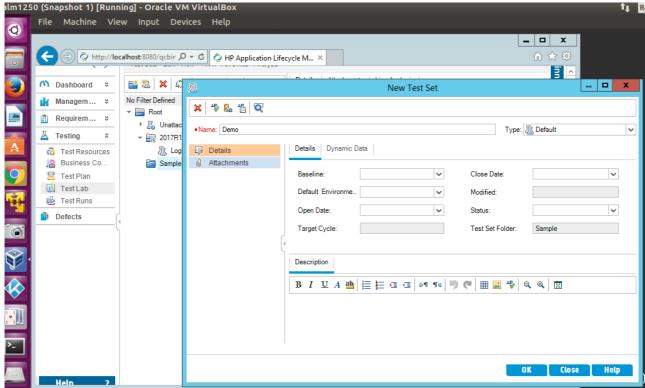
Working with Test Lab in HP ALM

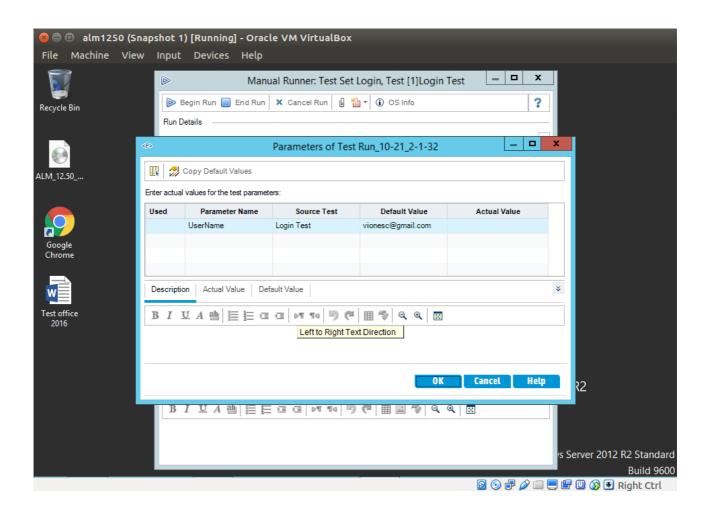


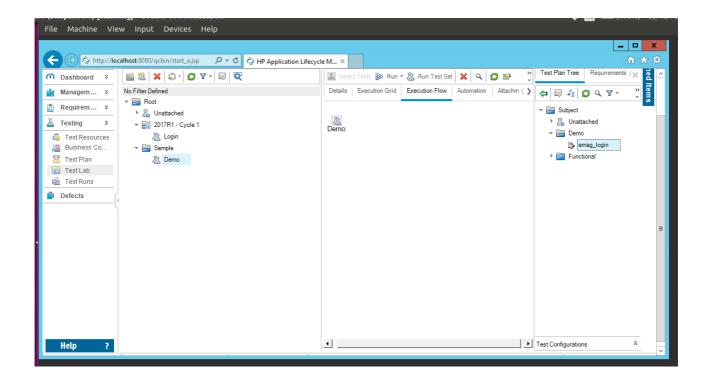


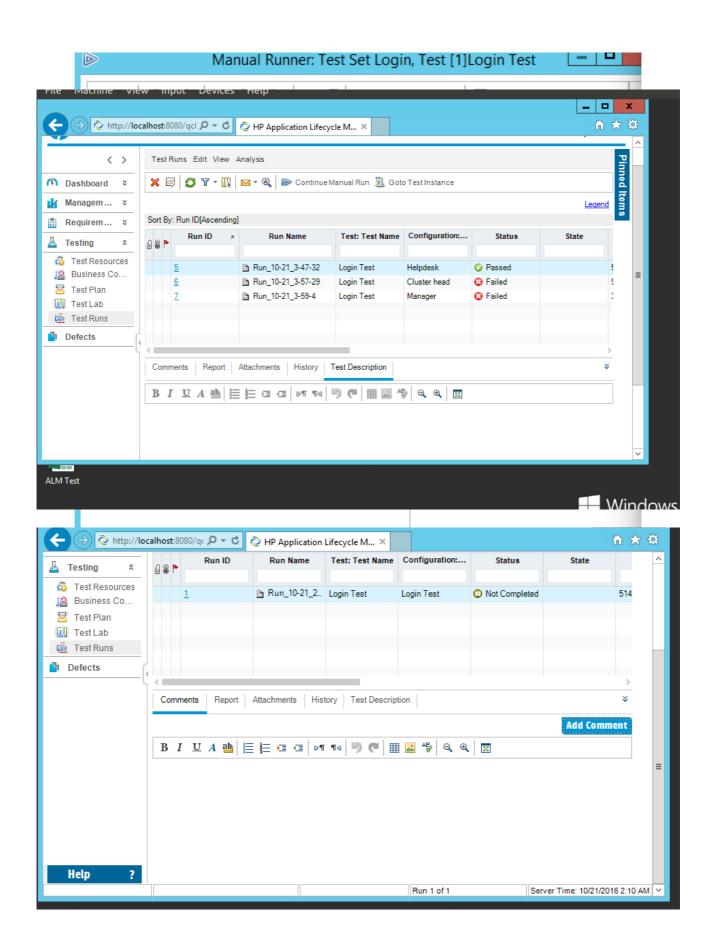


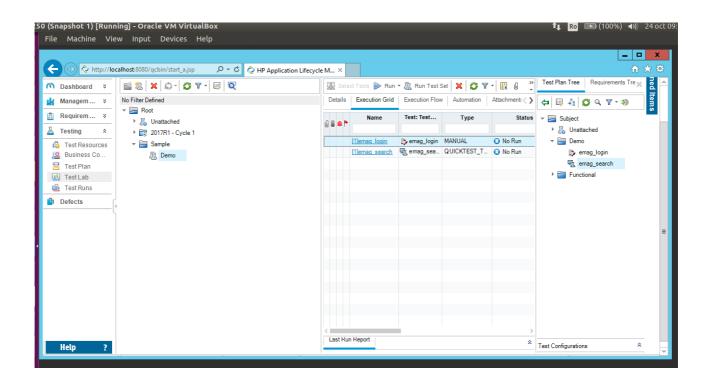












Advantages of Cucumber over other tools?

Cucumber	HP ALM (QTP)	Selenium
• It is free	QTP is expensive	It is free
It's a behavior driven development tool	It's a Functional Automation Tool	It's a Functional and Performance (Selenium Grid) test tool
Plugin in cucumber works faster	Plugin are slower compare to Cucumber and Selenium	Plugins are slower than cucumber
Cucumber supports other language as well beyond Ruby like Java, Scala, Groovy etc.	QTP supports only VB script	Selenium supports Java, .Net and many other languages
Writing automation steps are joint effort of testers and developer	In QTP only tester writes automation steps	Like Cucumber, writing automation steps are joint effort of testers and developer
Cucumber supports only web environment	Support web, desktop and any client server application	Supports only web environment