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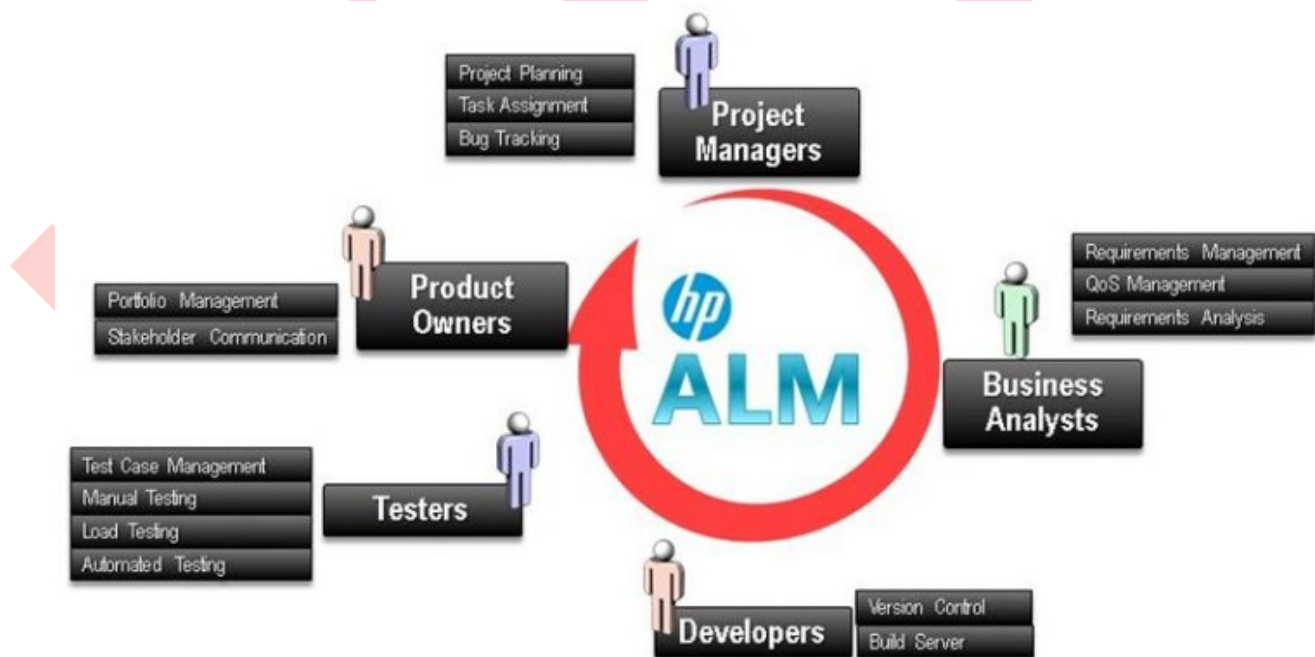
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Introduction to HP ALM/ MICROFOCUS

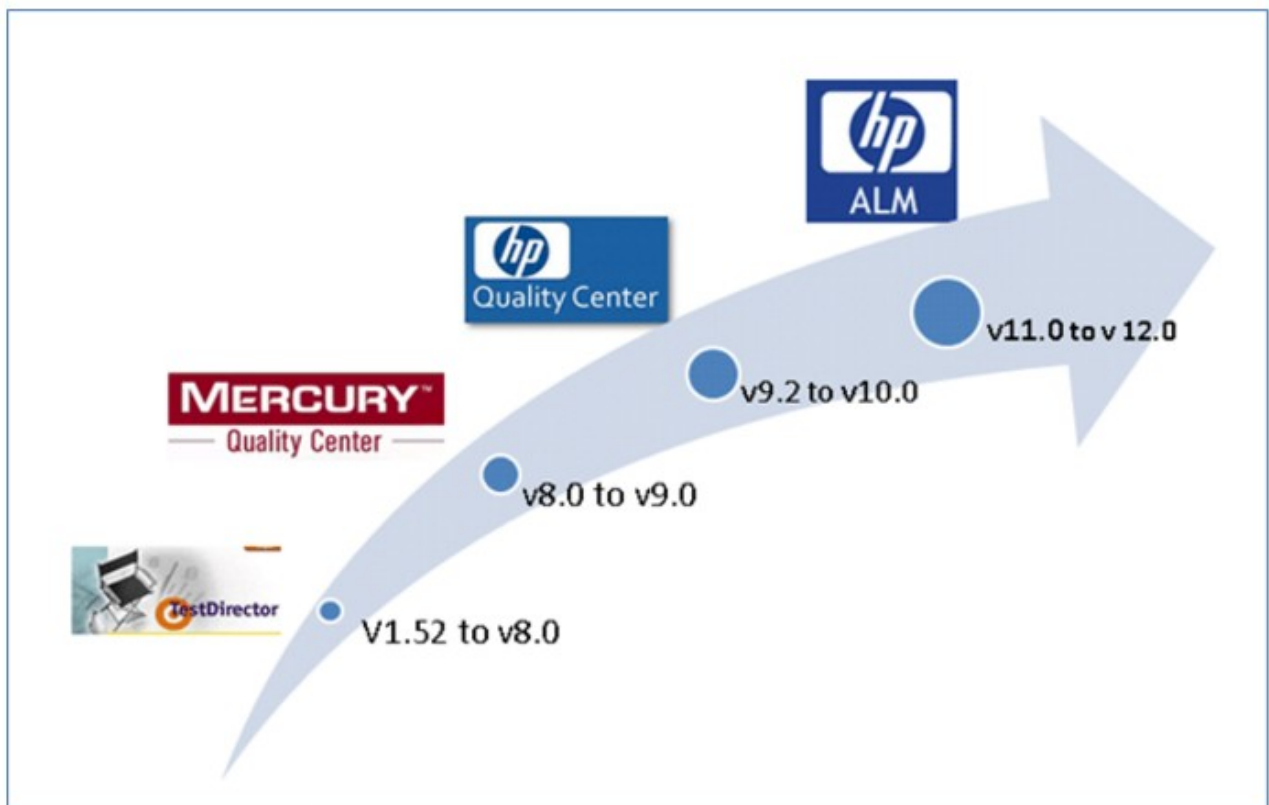
The various stakeholders involved in a typical project are –

- 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).

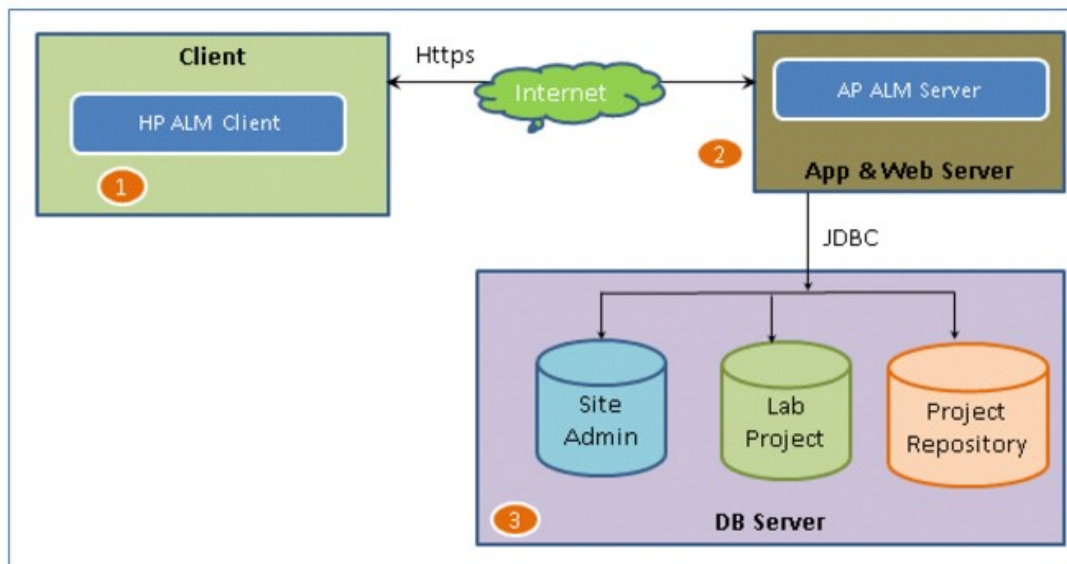
2.**ALM server/Application server:** Application server usually runs on a Windows or Linux platform which caters to the client requests. App server makes use of the Java Database Connectivity (JDBC) driver to communicate between the application server and database servers.

3. **Database servers:** The Database layer stores three schemas.

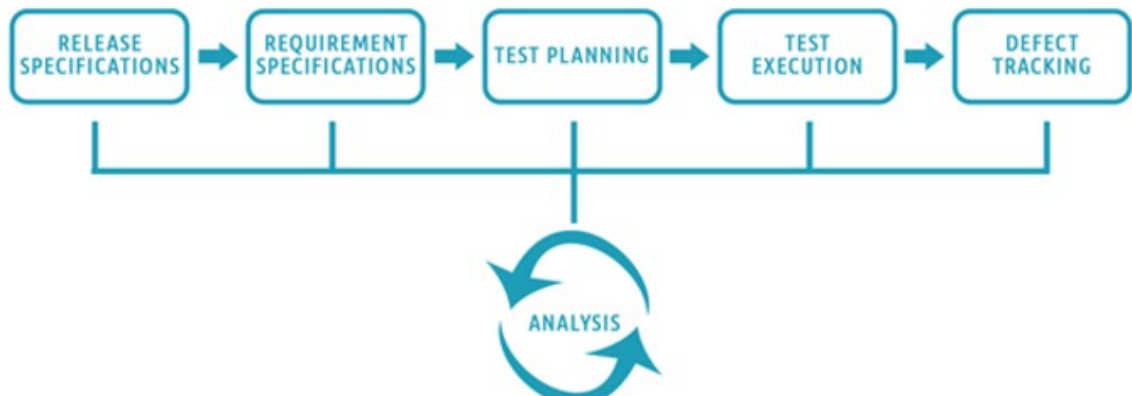
- **Site Administration schema:** It Stores information related to the domains, users, and site parameters.

- **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 created on the same database server as the Site Administration schema.



HP ALM WORKFLOW



How to install HP ALM

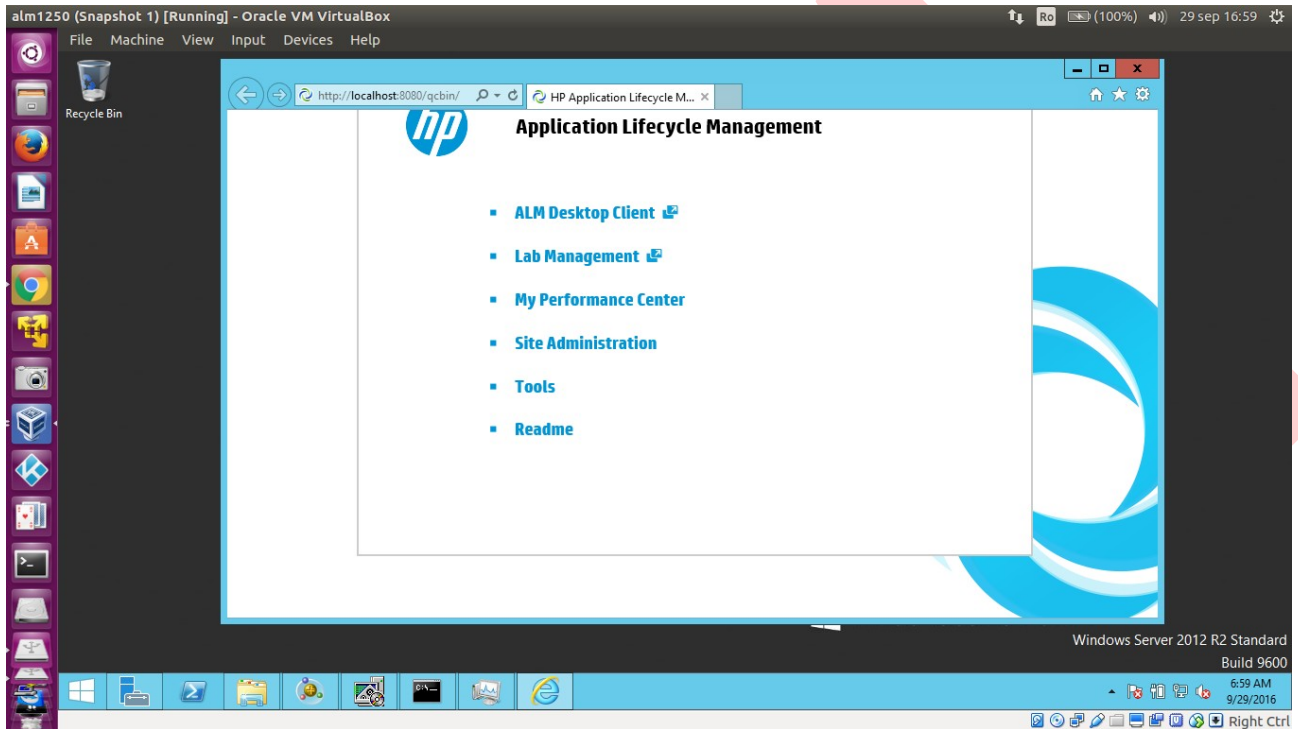
Installation process



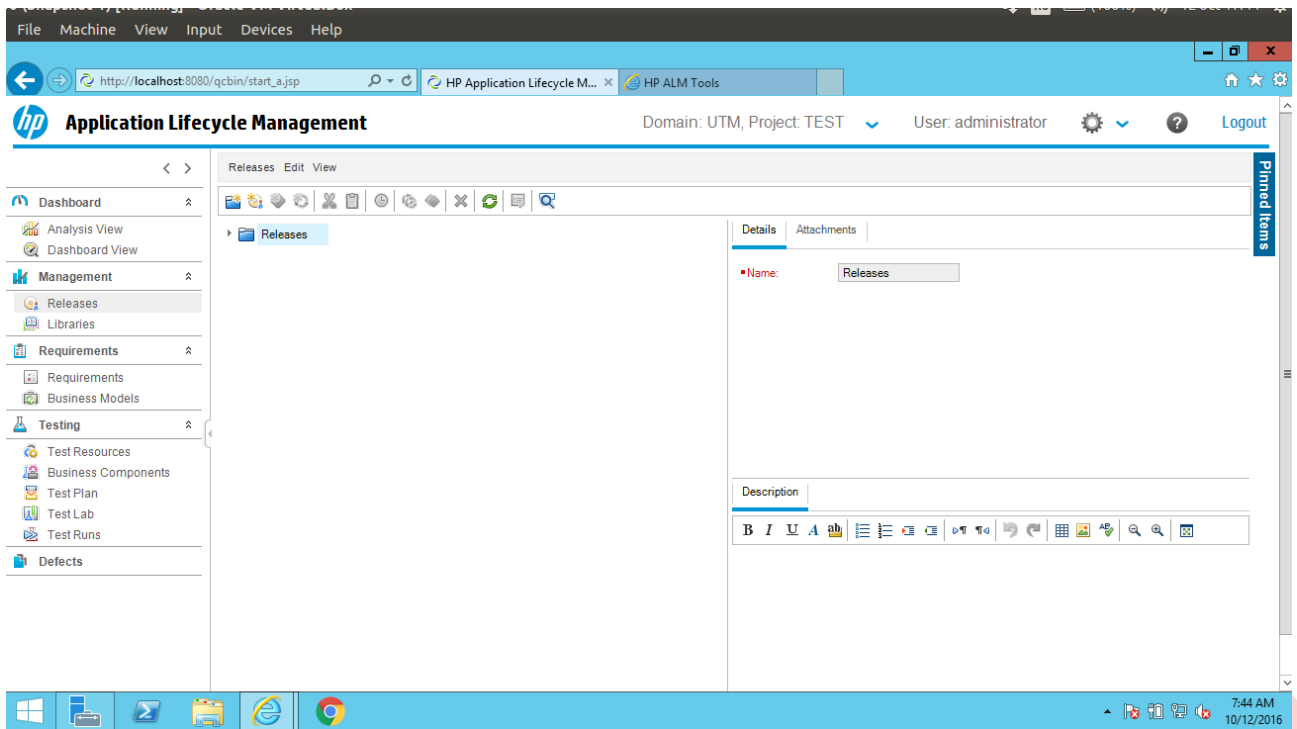
<http://www8.hp.com/us/en/software-solutions/alm-software-development-testing/try-now.html>

Create a Domain, Project, User in HP ALM

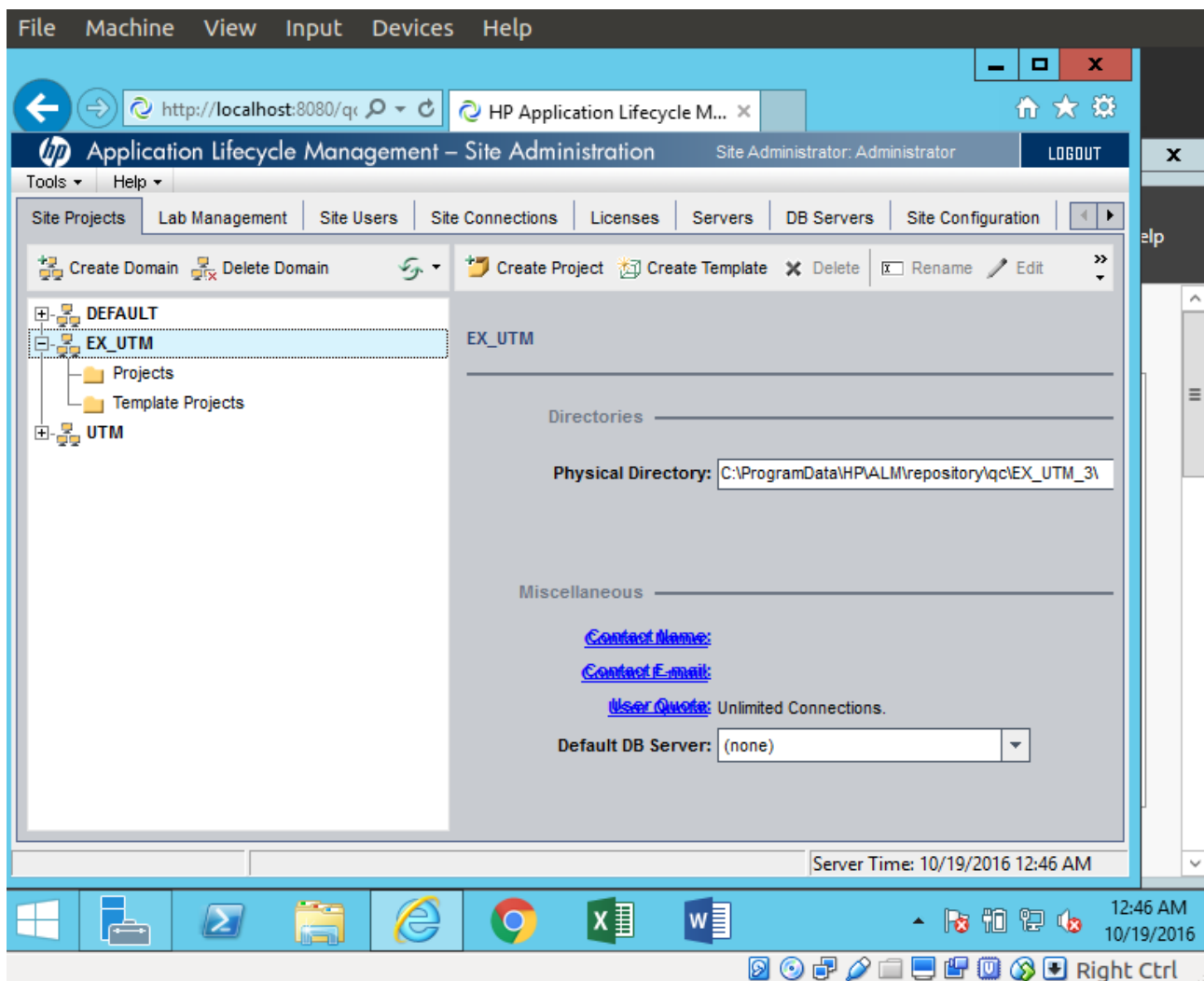
ALM client launch from IE



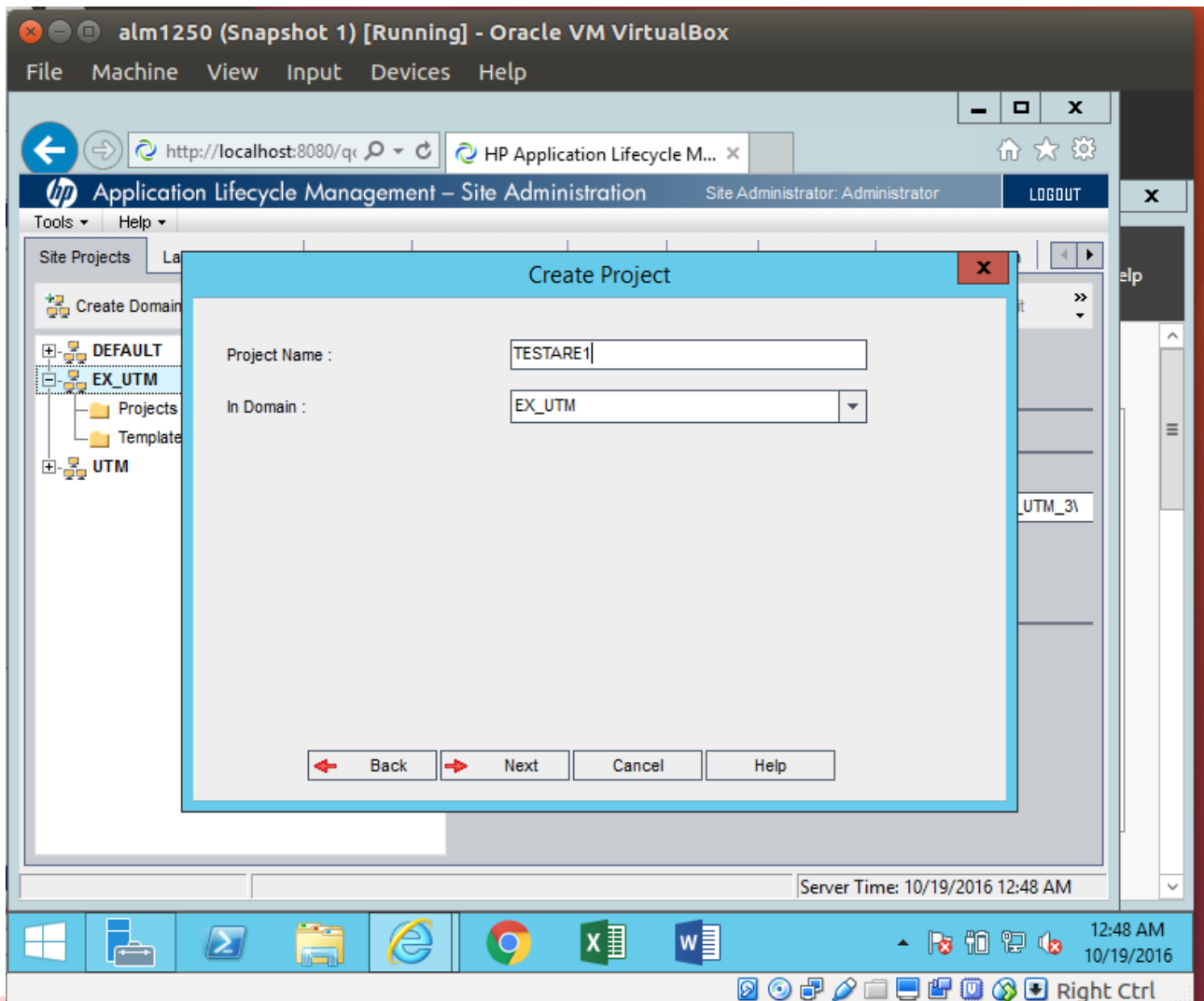
Client interface

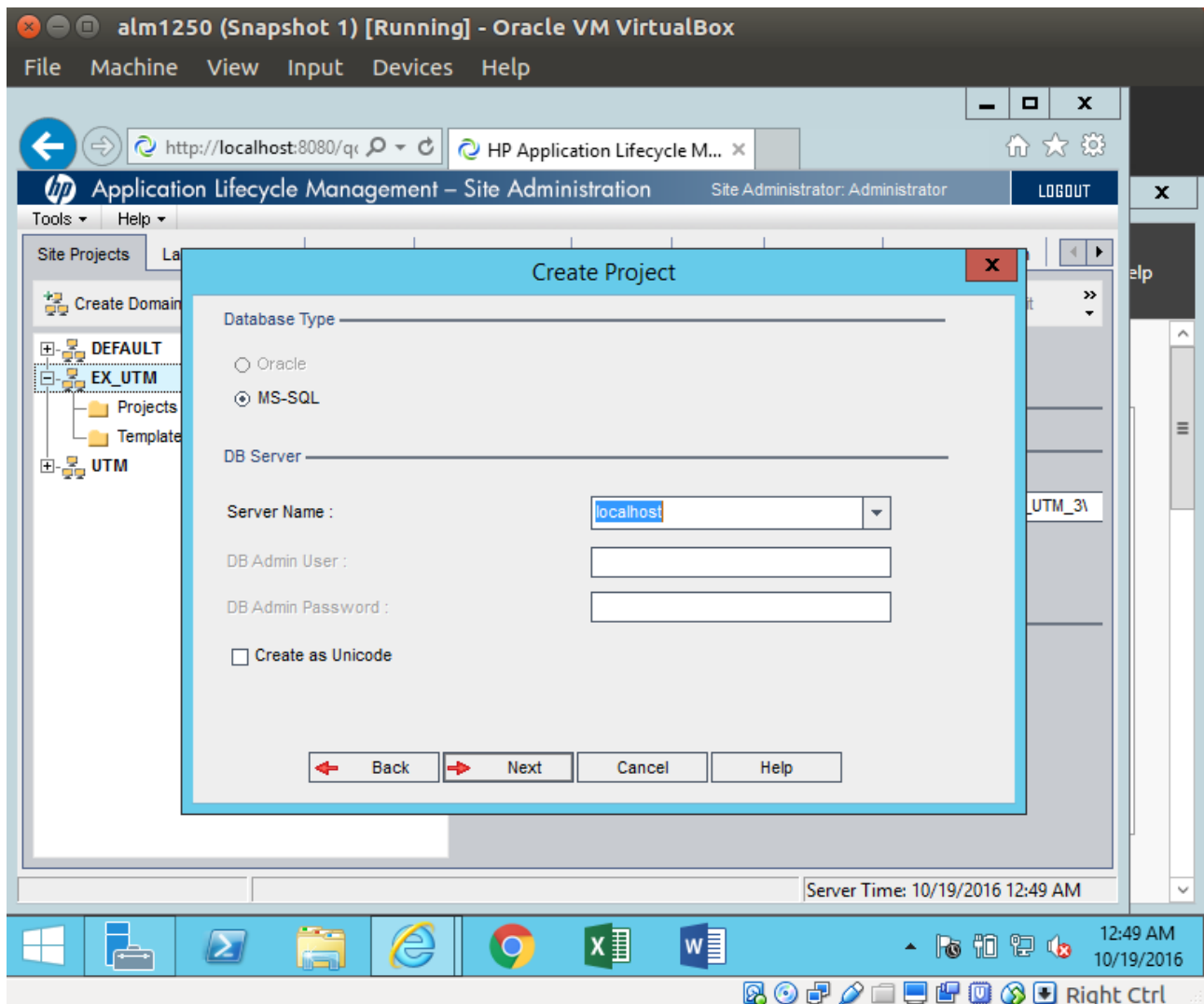


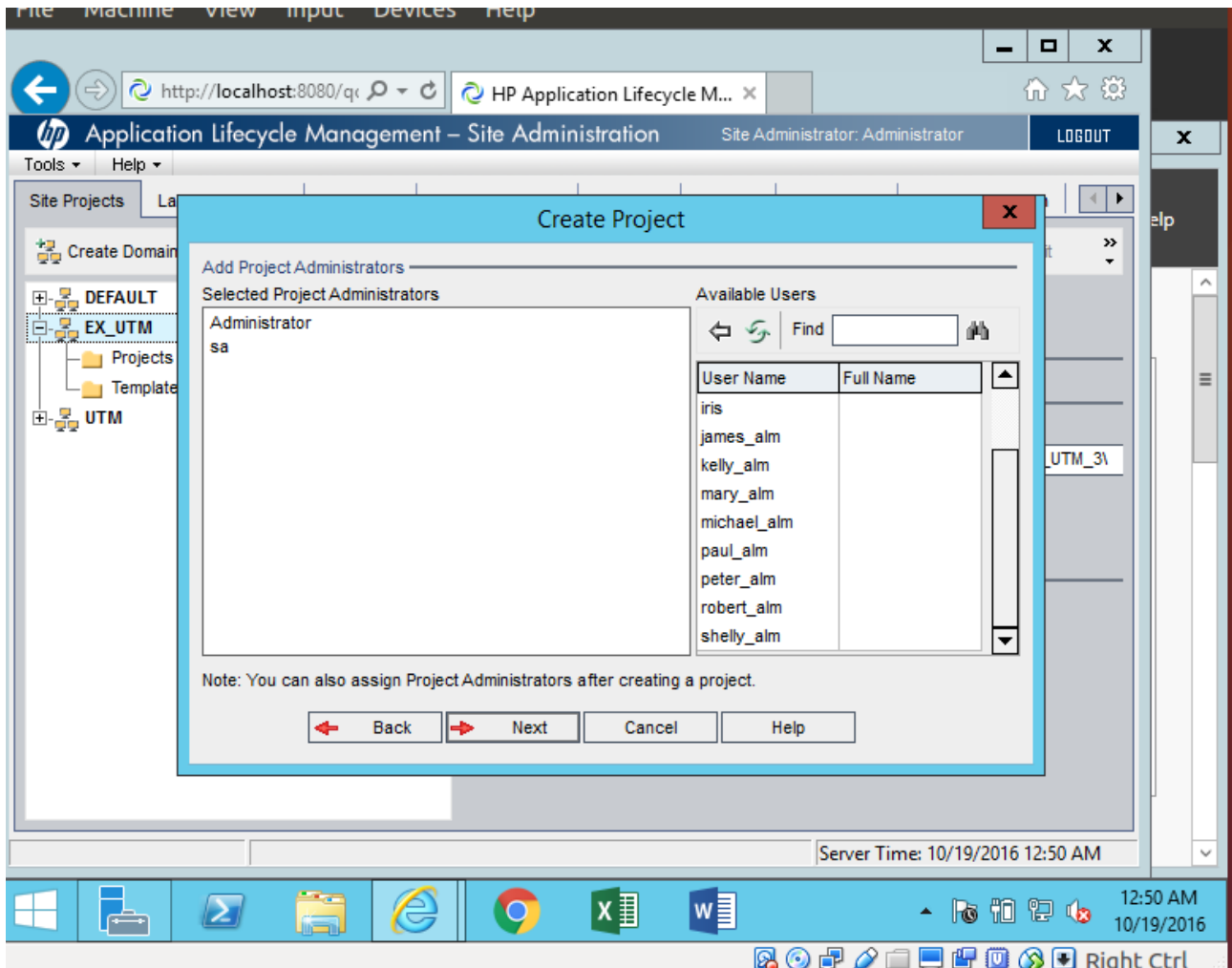
How to create EX_UTM domain

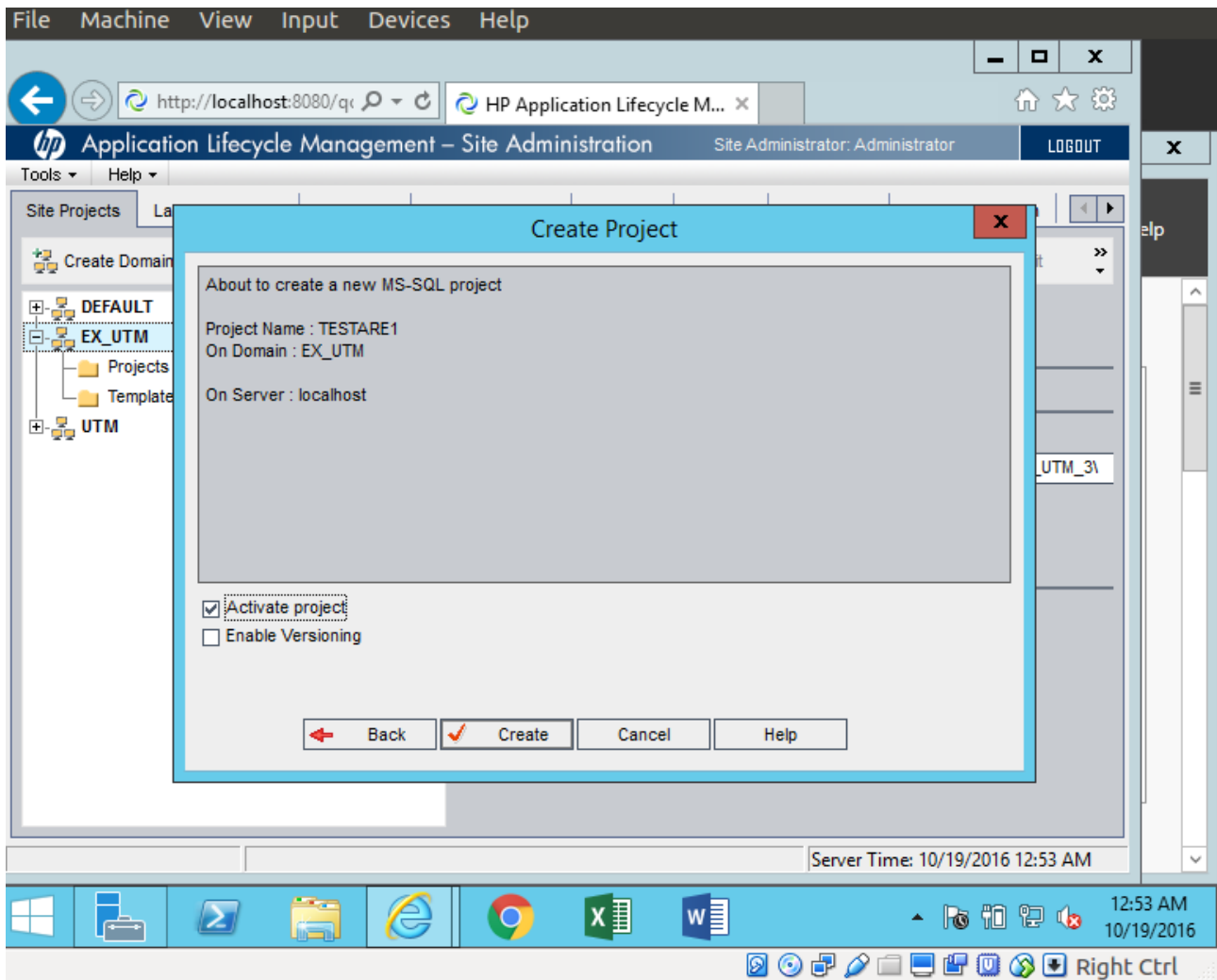


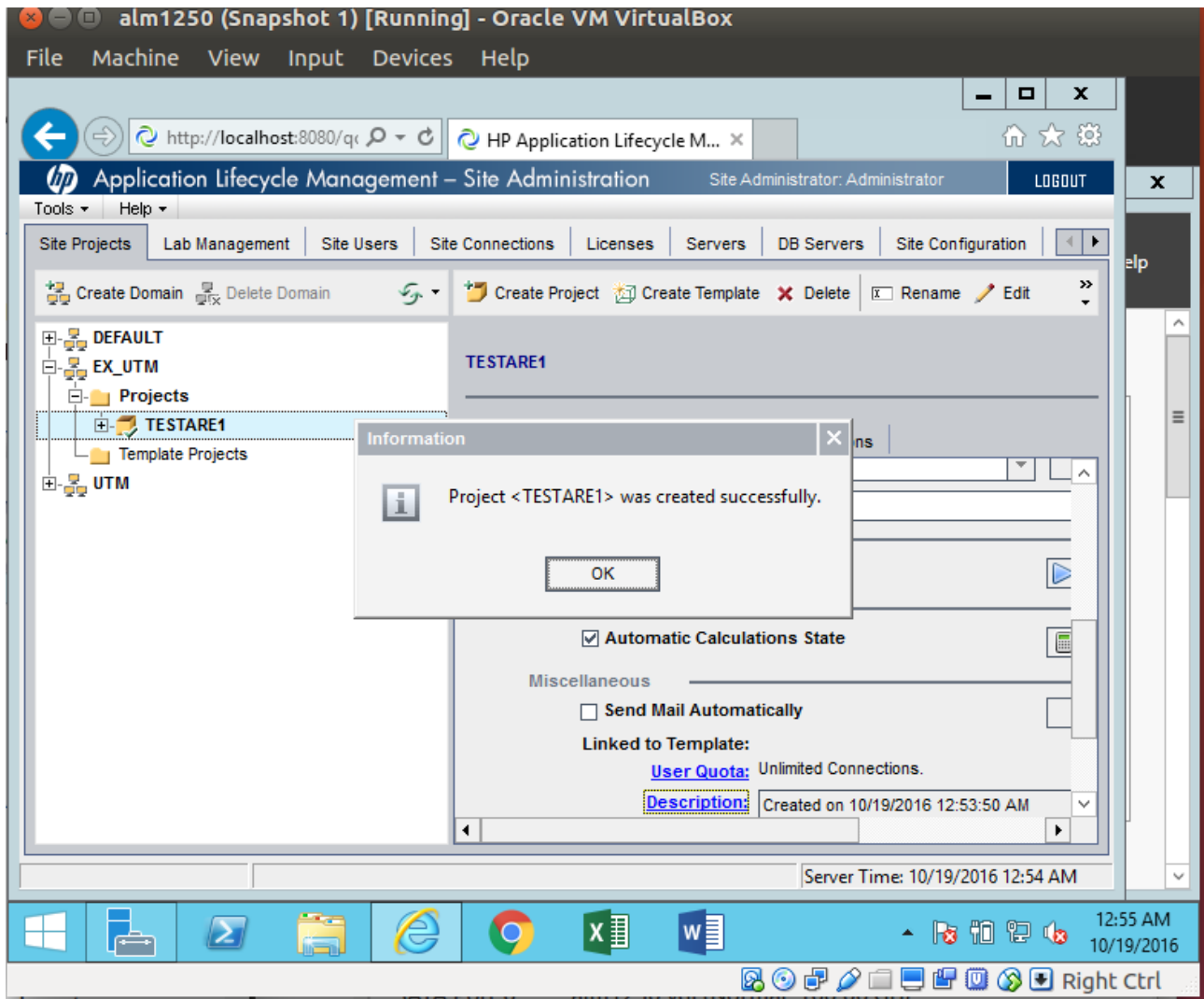
How to create project TESTARE1



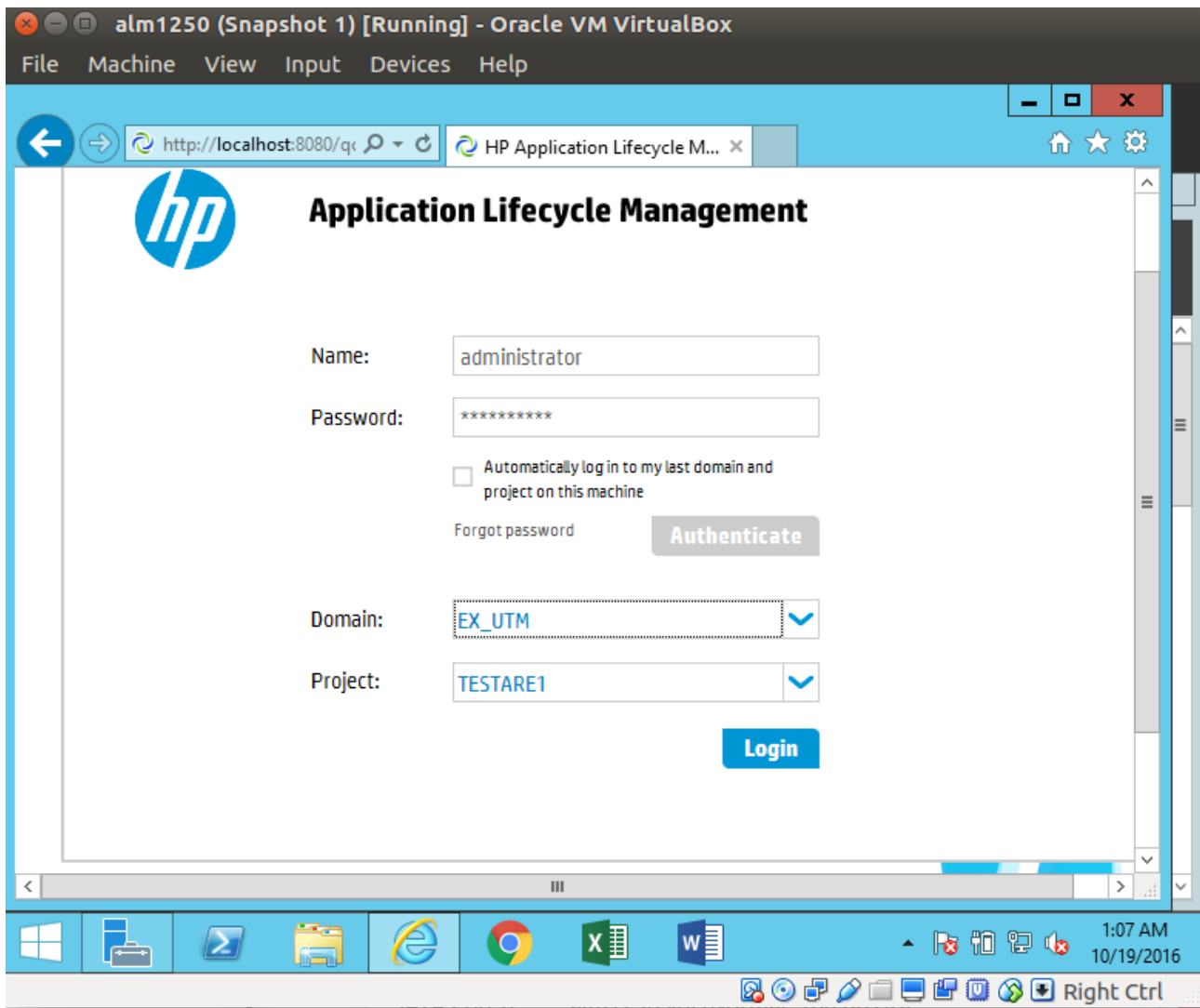


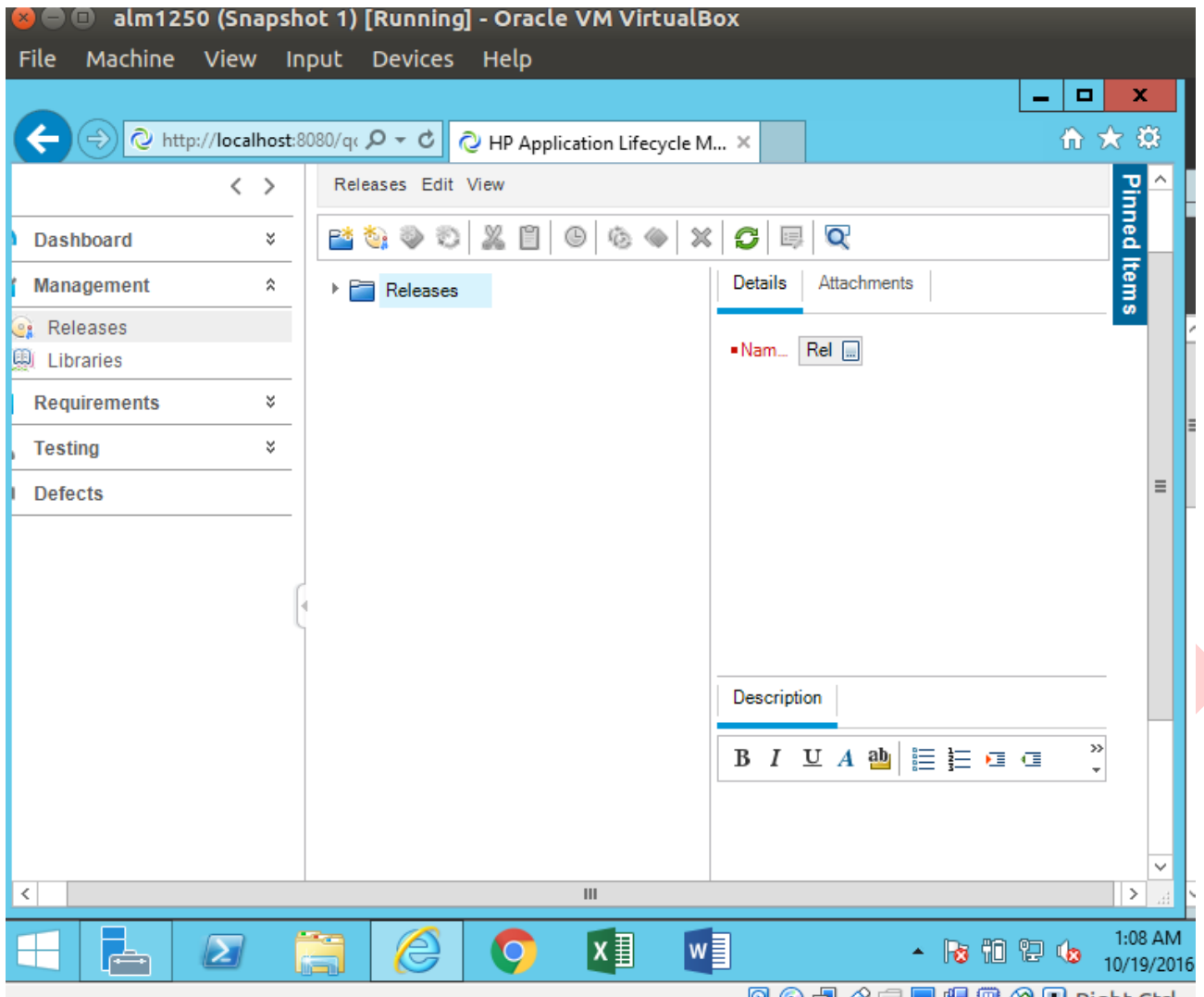


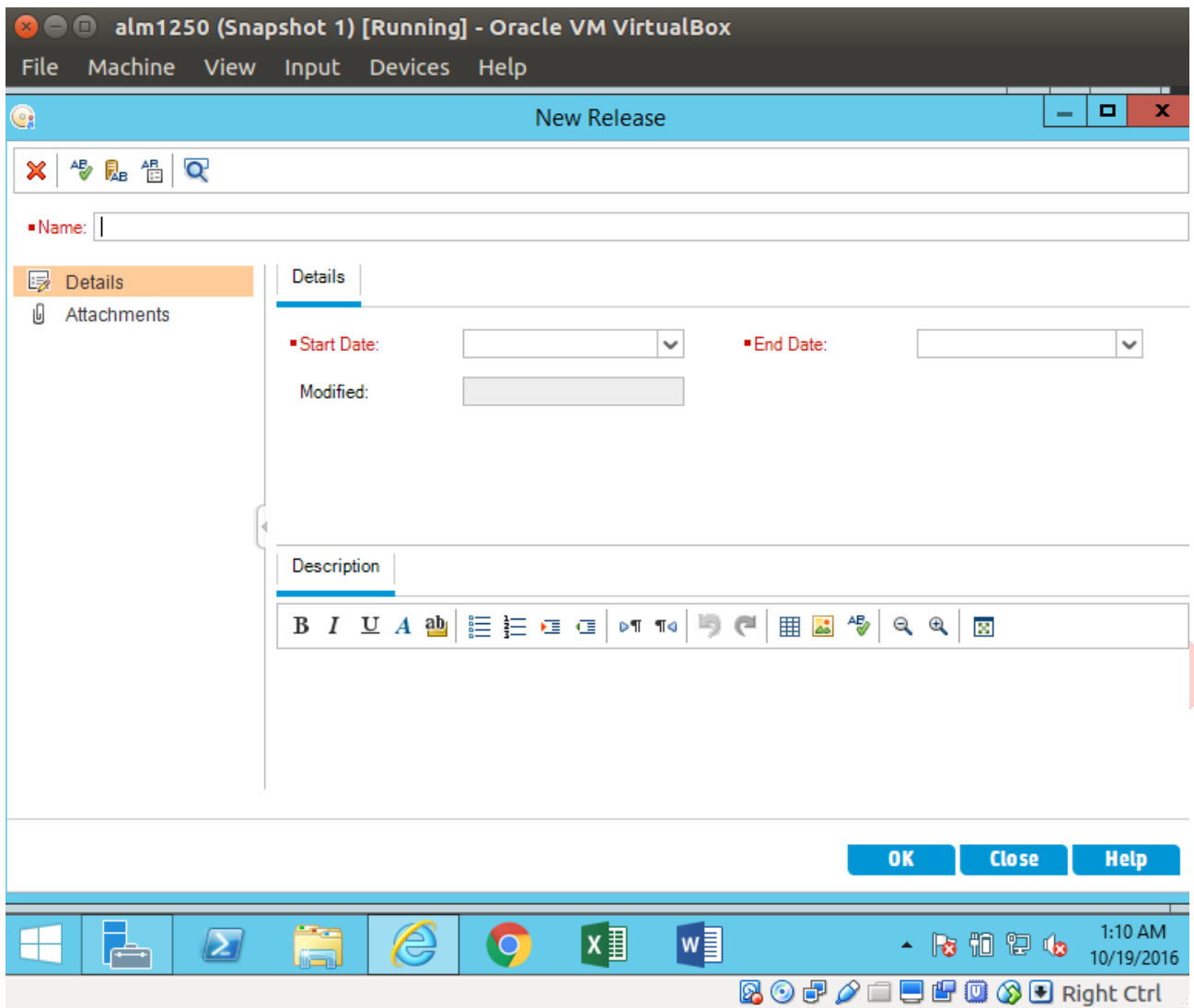


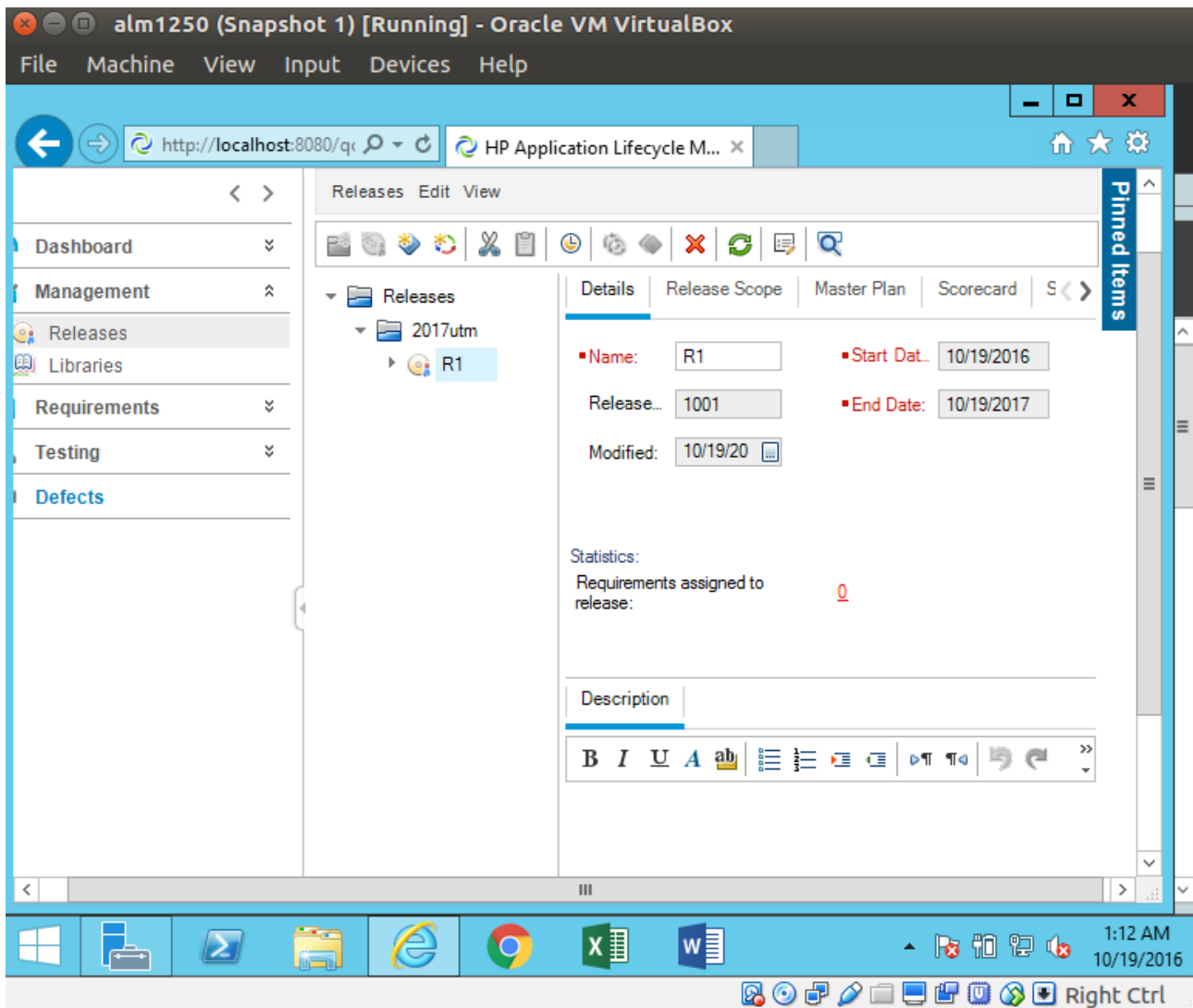


Release Specifications: Understanding the Management Tab in HP ALM







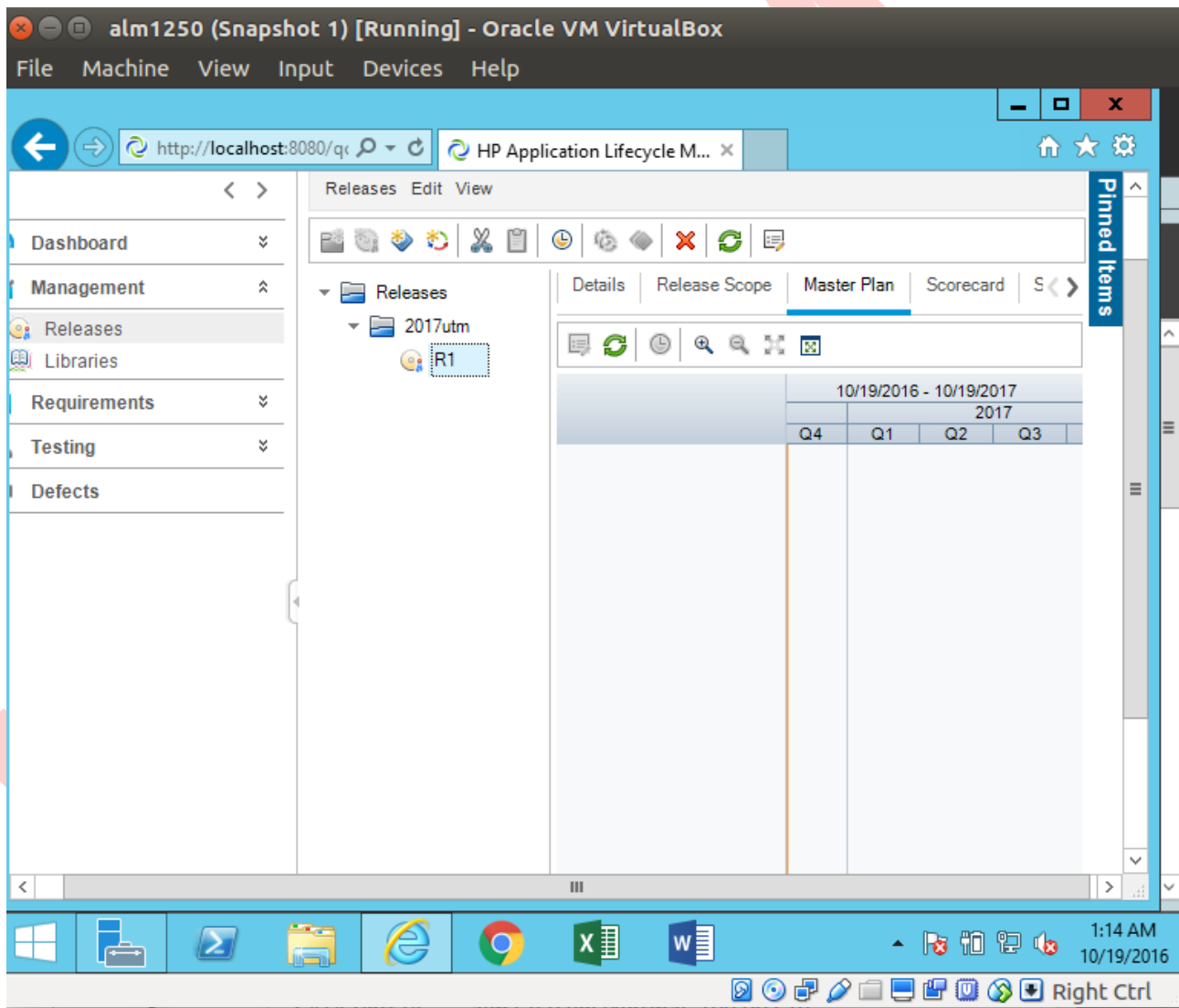


Requirements Specifications module in HP ALM

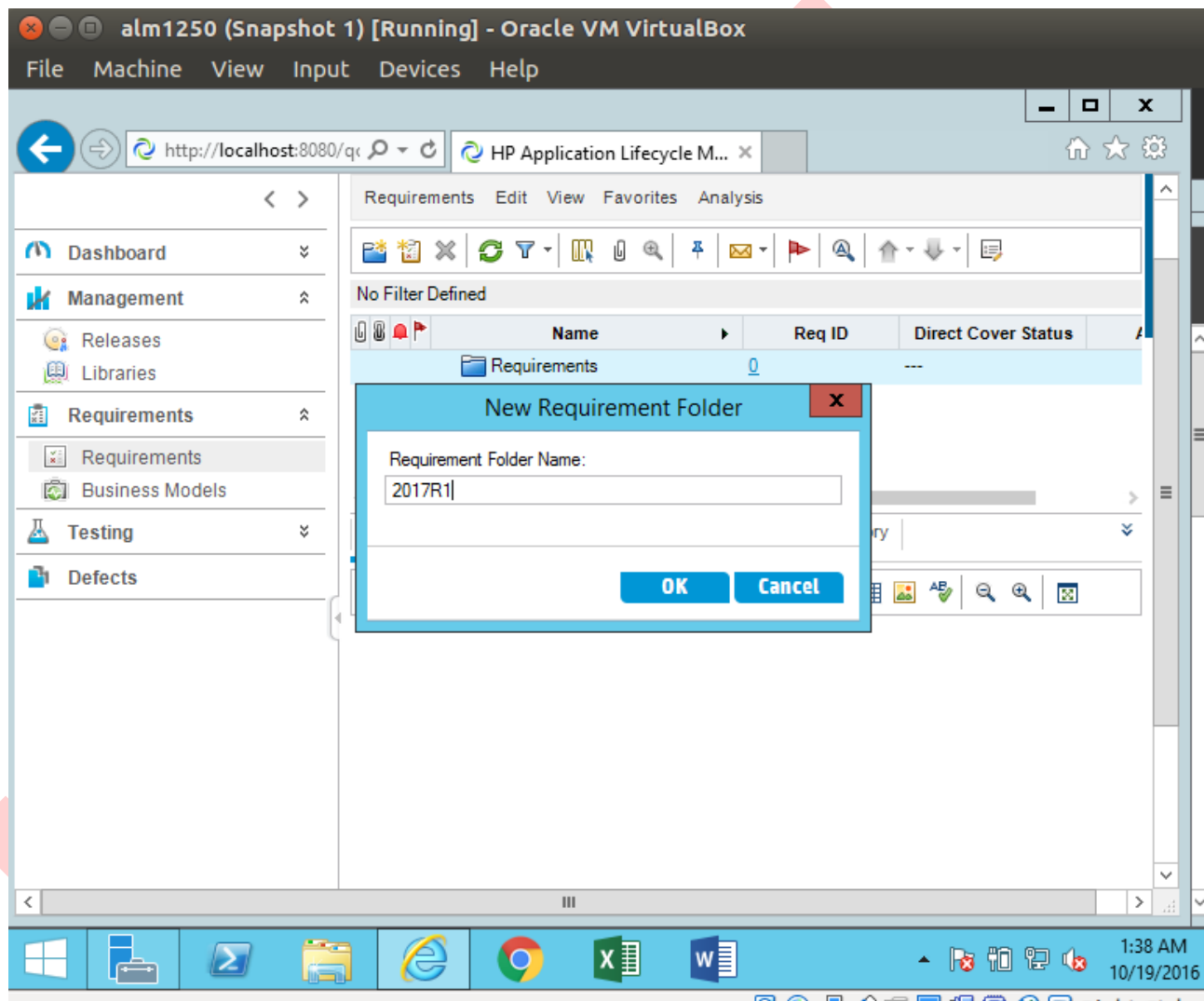
Test Plan Module in HP ALM

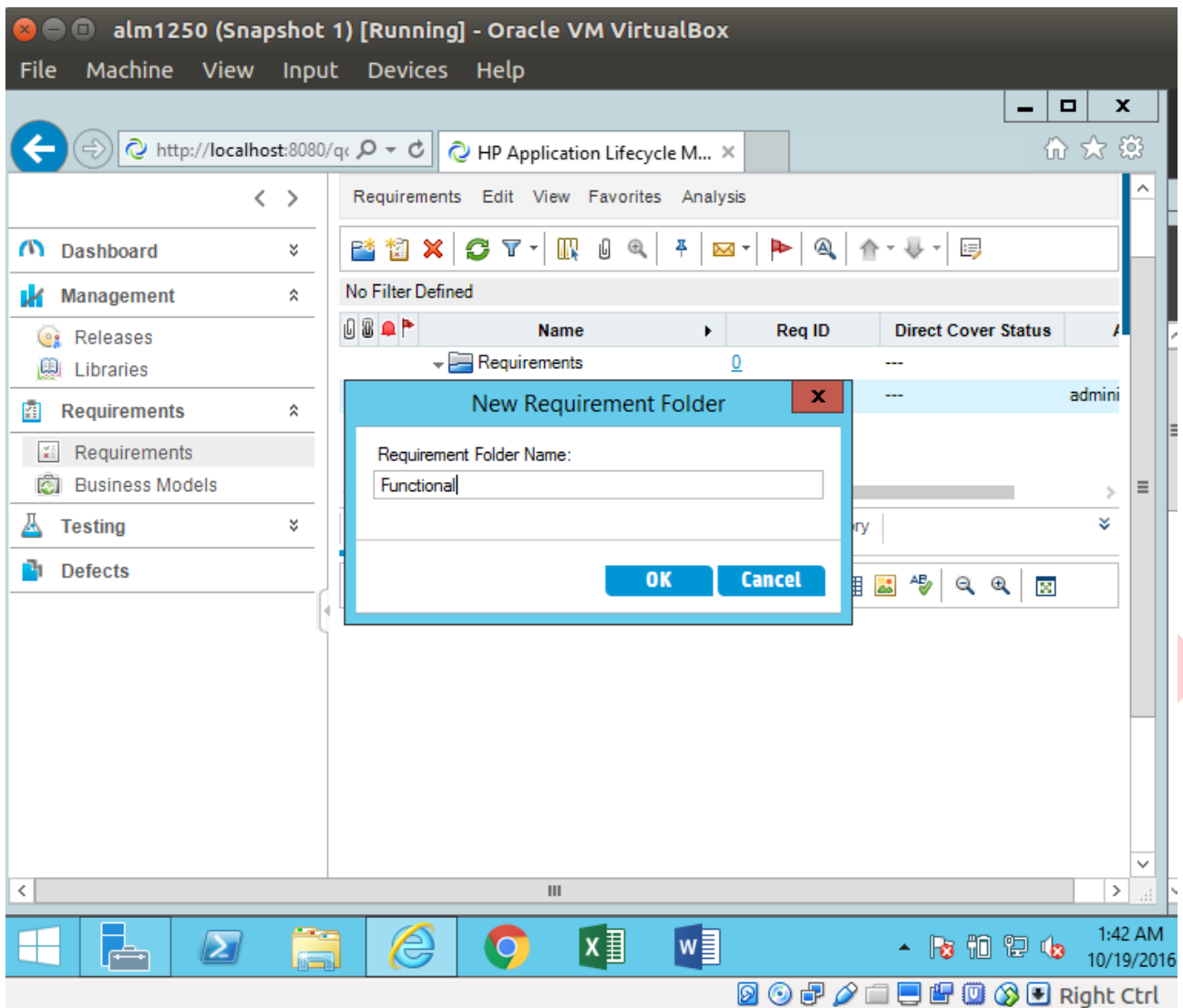
Test Lab in HP ALM

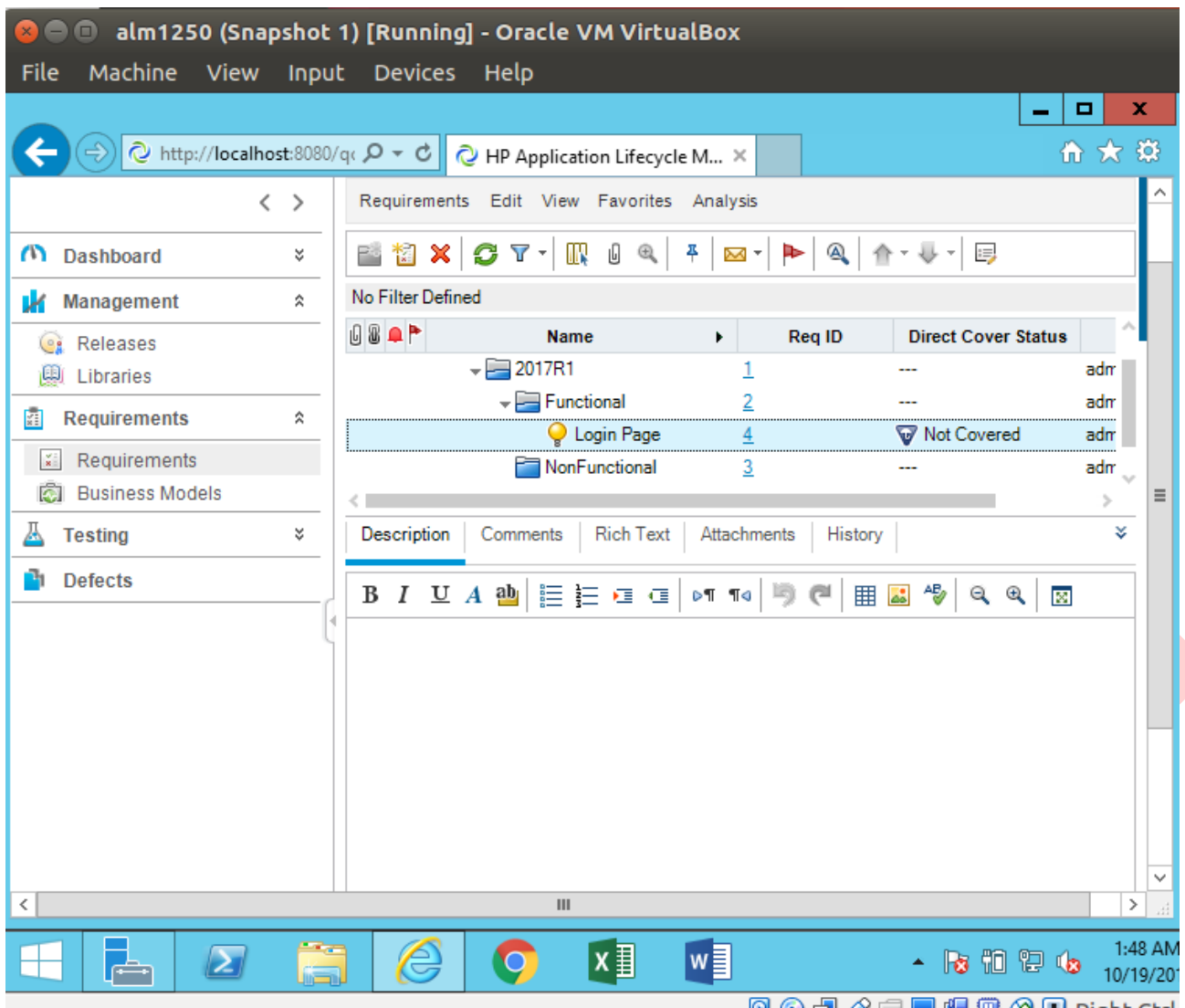
How to integrate UFT(QTP) with ALM

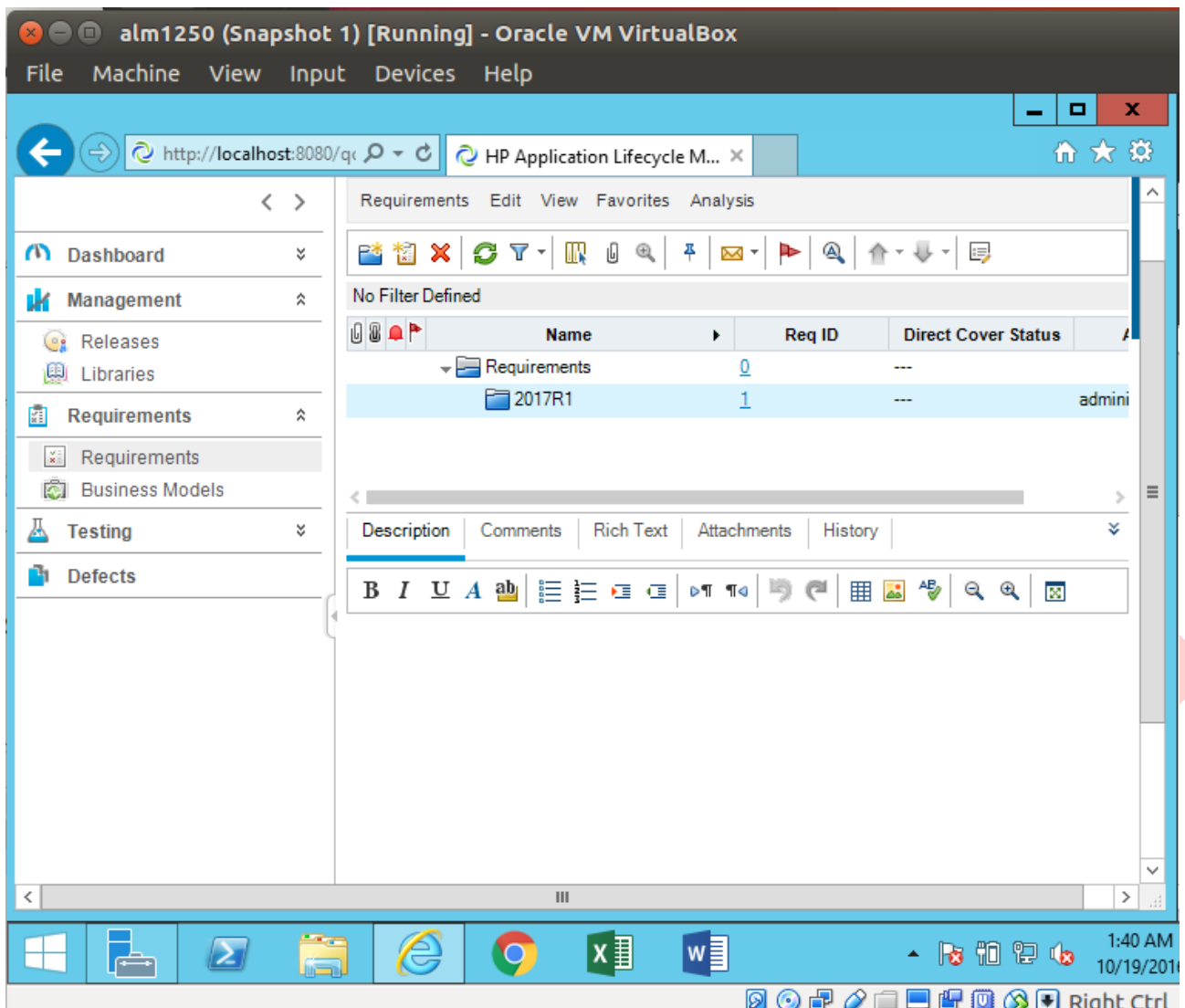


Requirements Specifications module in HP ALM









Test Plan Module in HP ALM

The screenshot displays the HP ALM Test Plan module interface within a VirtualBox VM window titled 'alm1250 (Snapshot 1) [Running] - Oracle VM VirtualBox'. The browser address bar shows 'http://localhost:8080/qc'. The left sidebar contains a navigation menu with categories: Dashboard, Management, Requirements, Testing (selected), and Defects. Under 'Testing', the 'Test Plan' option is highlighted. The main content area shows a tree view of test subjects. The 'Login Test' subject is selected, and its details are shown in a table.

Step Name	Description
Step 1	Launch IE and enter the URL http://www.
Step 2	Introduceti nume utilizator
Step 3	Introduceti parola
Step 4	Click Submit button

The Windows taskbar at the bottom shows the time as 12:53 AM on 10/21/2016, along with various application icons and system tray icons.

alm1250 (Snapshot 1) [Running] - Oracle VM VirtualBox

File Machine View Input Devices Help

http://localhost:8080/qc HP Application Lifecycle M...

Tests Edit View Favorites Analysis

Dashboard Management Requirements Requirements Business Models Testing Test Resources Business Components Test Plan Test Lab Test Runs Defects

No Filter Defined

Name

- Subject
 - Unattached
 - Functional
 - Automation
 - Manual
 - Login
 - Login
 - Customer
 - Account
 - Bank Ope
 - Non Functioni

Details Design Steps Parameters Test Configurati

New Parameter

Sort By: Order[Ascending]

Used	Parameter Name	Default Value	Description
	UserName	vionesc@gmail.com	

Description Default Value

1:00 AM 10/21/2016

Right Ctrl

http://localhost:8080/qcbin/start_a.jsp HP Application Lifecycle M...

Test Sets Edit View Tests Favorites Analysis

Dashboard Management Requirement... Requirement... Testing Test Resources Business Co... Test Plan Test Lab Test Runs Defects

No Filter Defined

- Root
 - Unattached
 - 2017R1 - Cycle 1
 - Sample
 - Demo

Details Execution Grid Execution Flow Automation Attachment

Test Plan Tree Requirements Tre

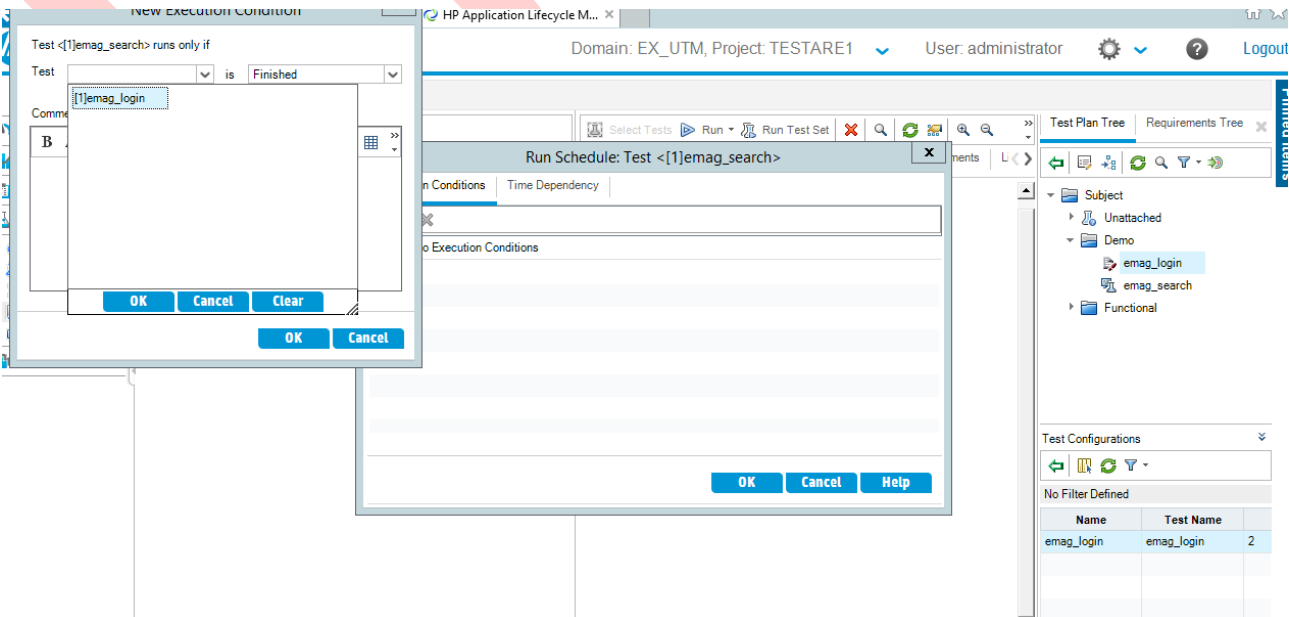
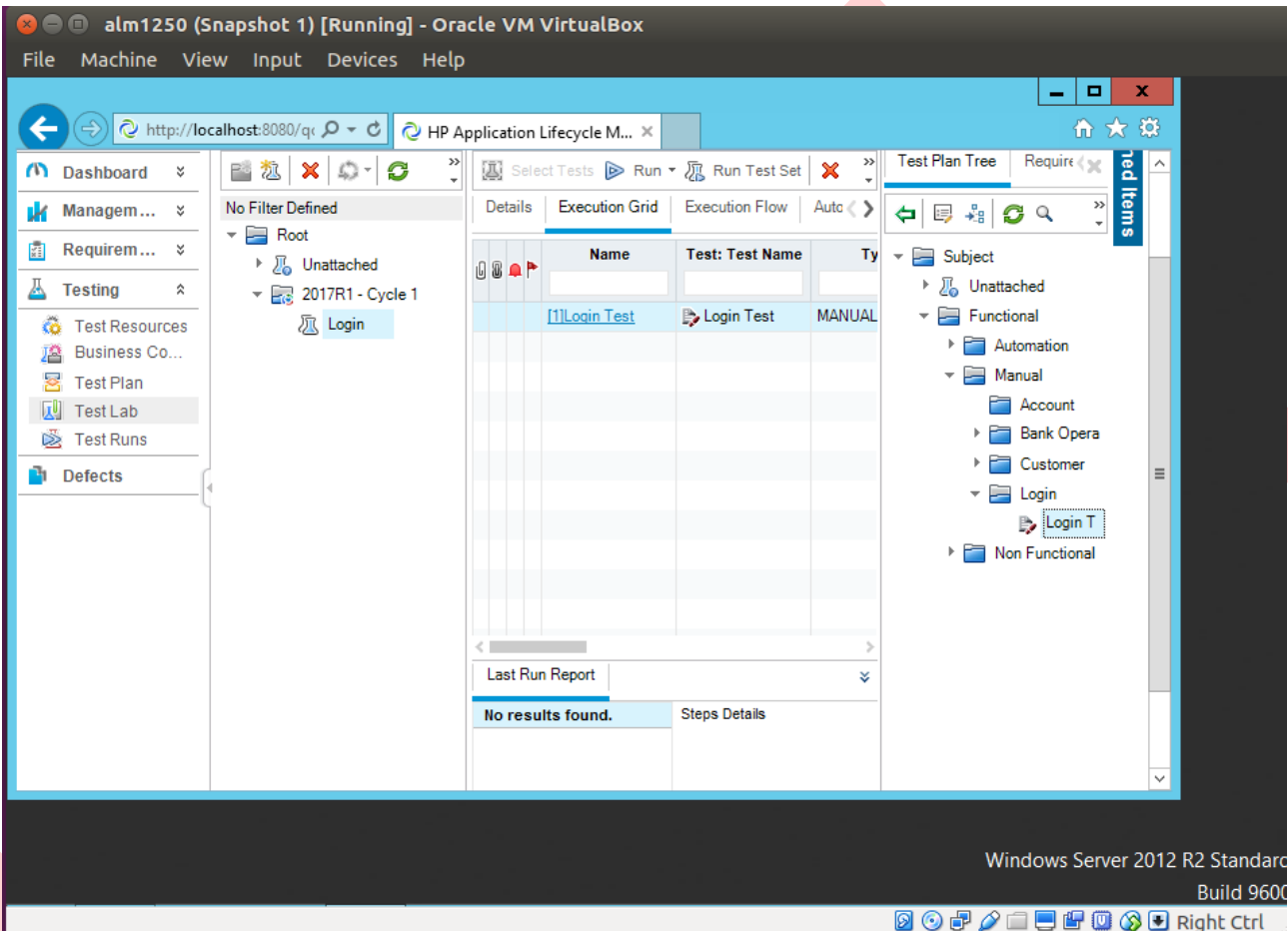
Subject

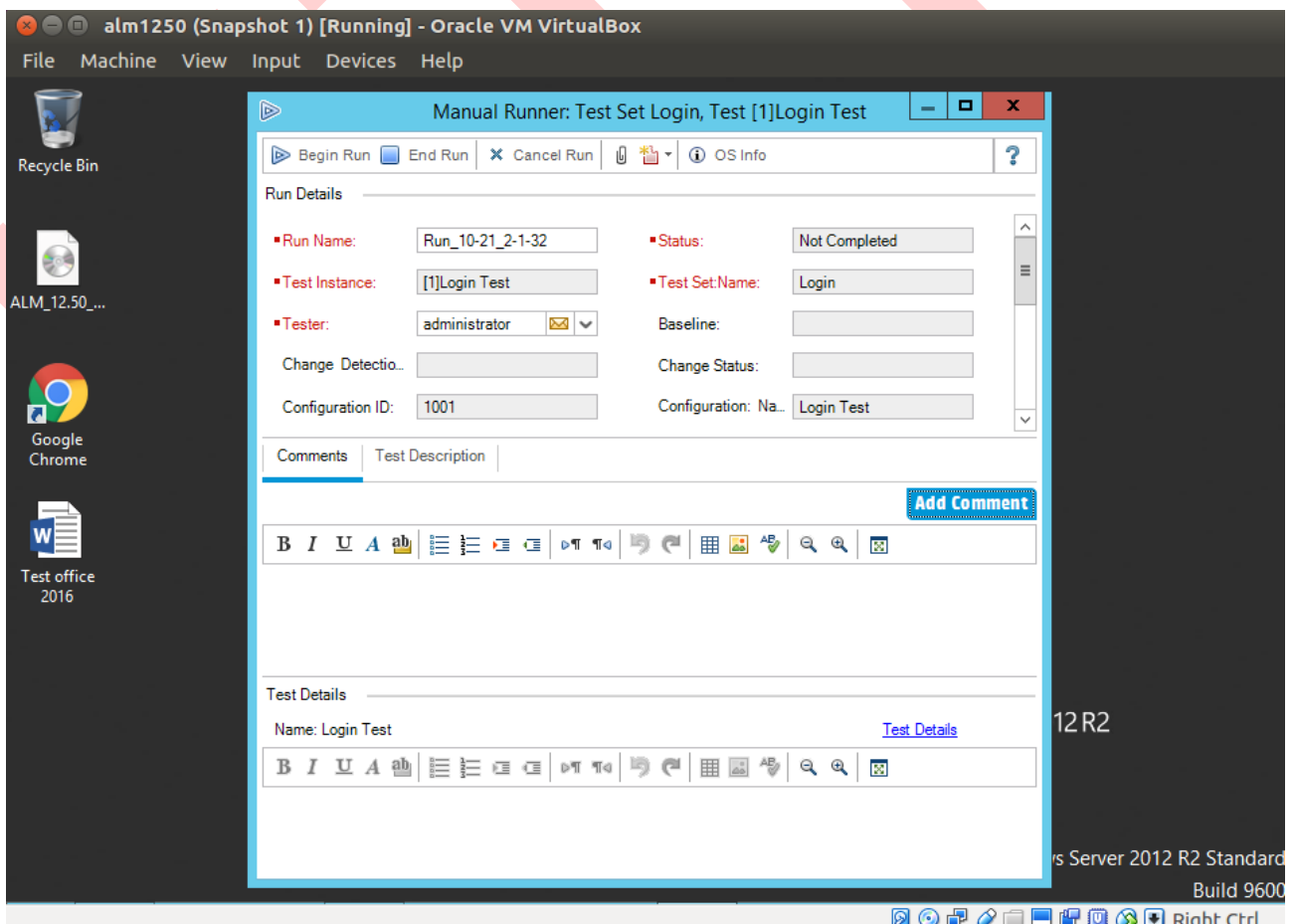
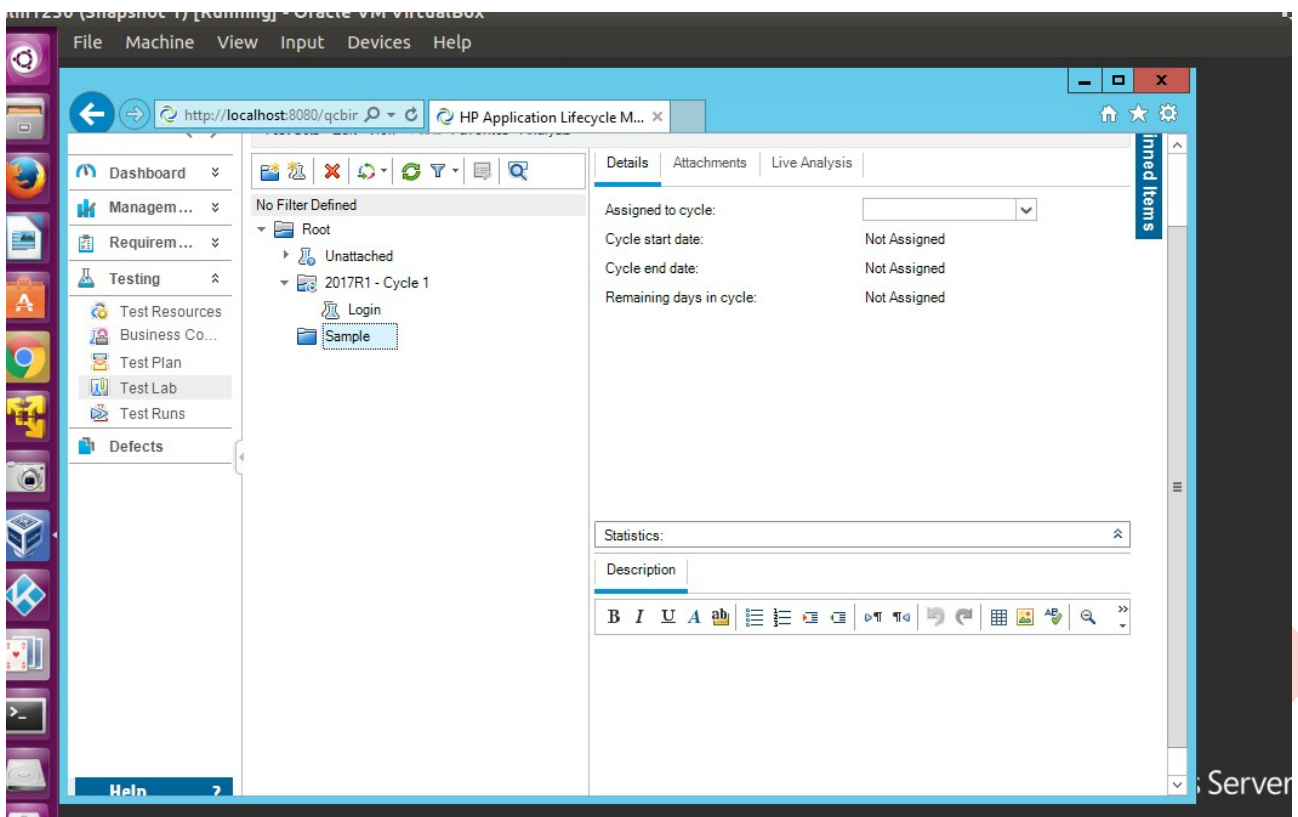
- Unattached
- Demo
 - emag_login
 - emag_search
- Functional

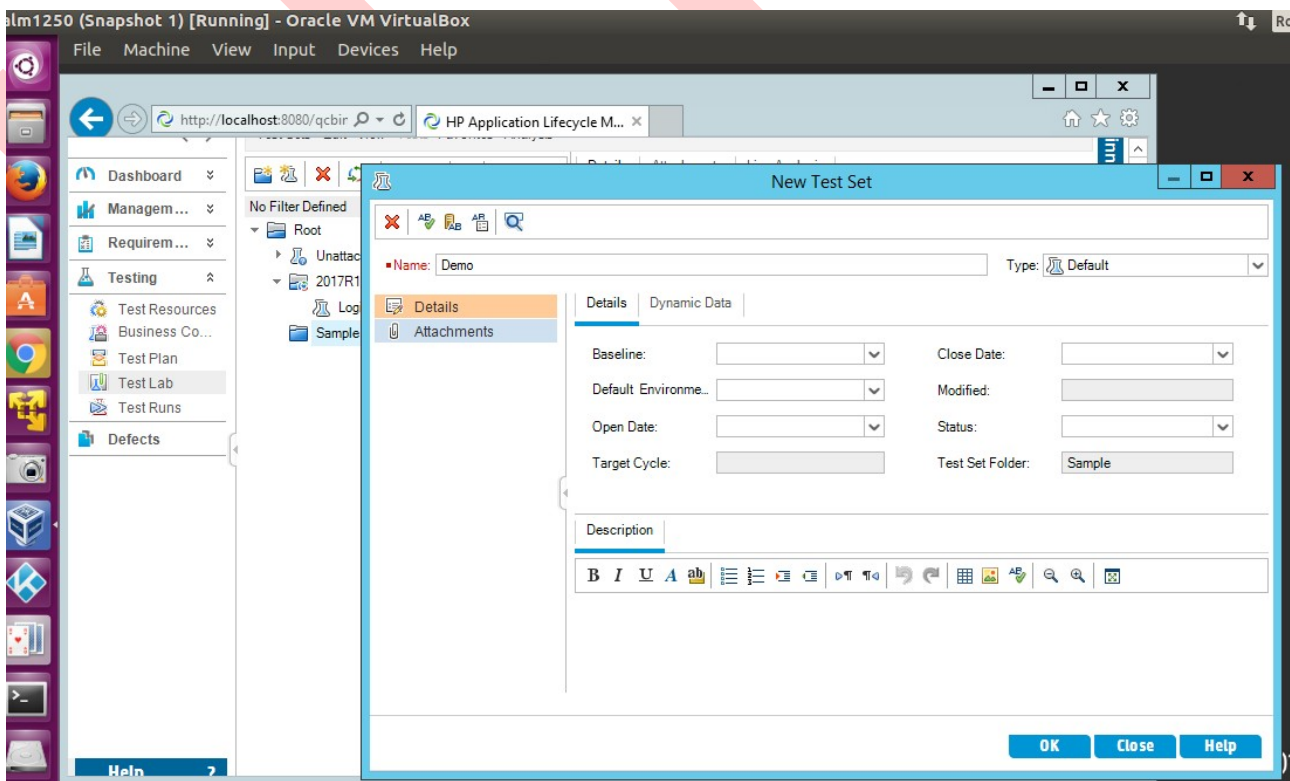
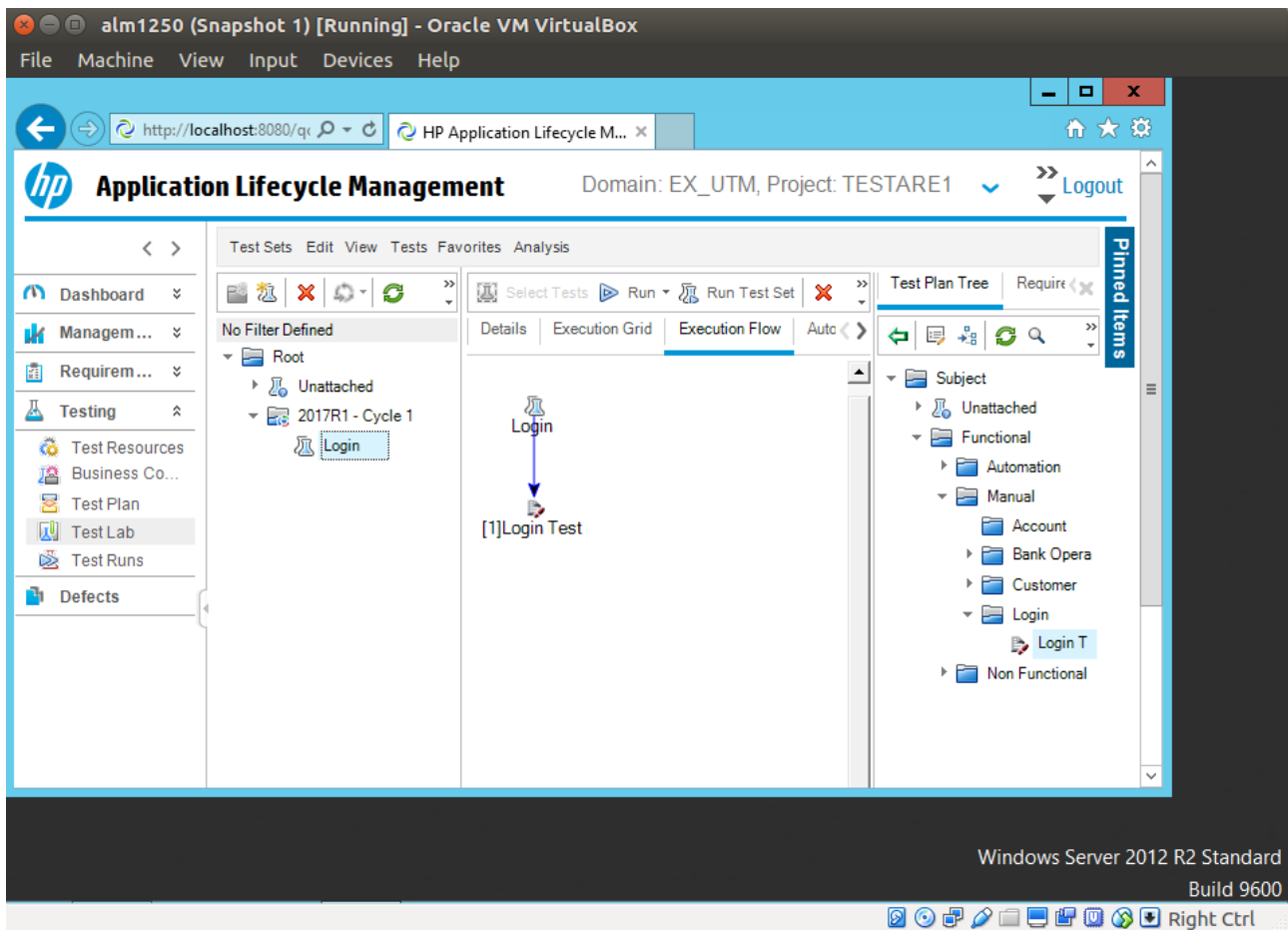
[1]emag_login [1]emag_search

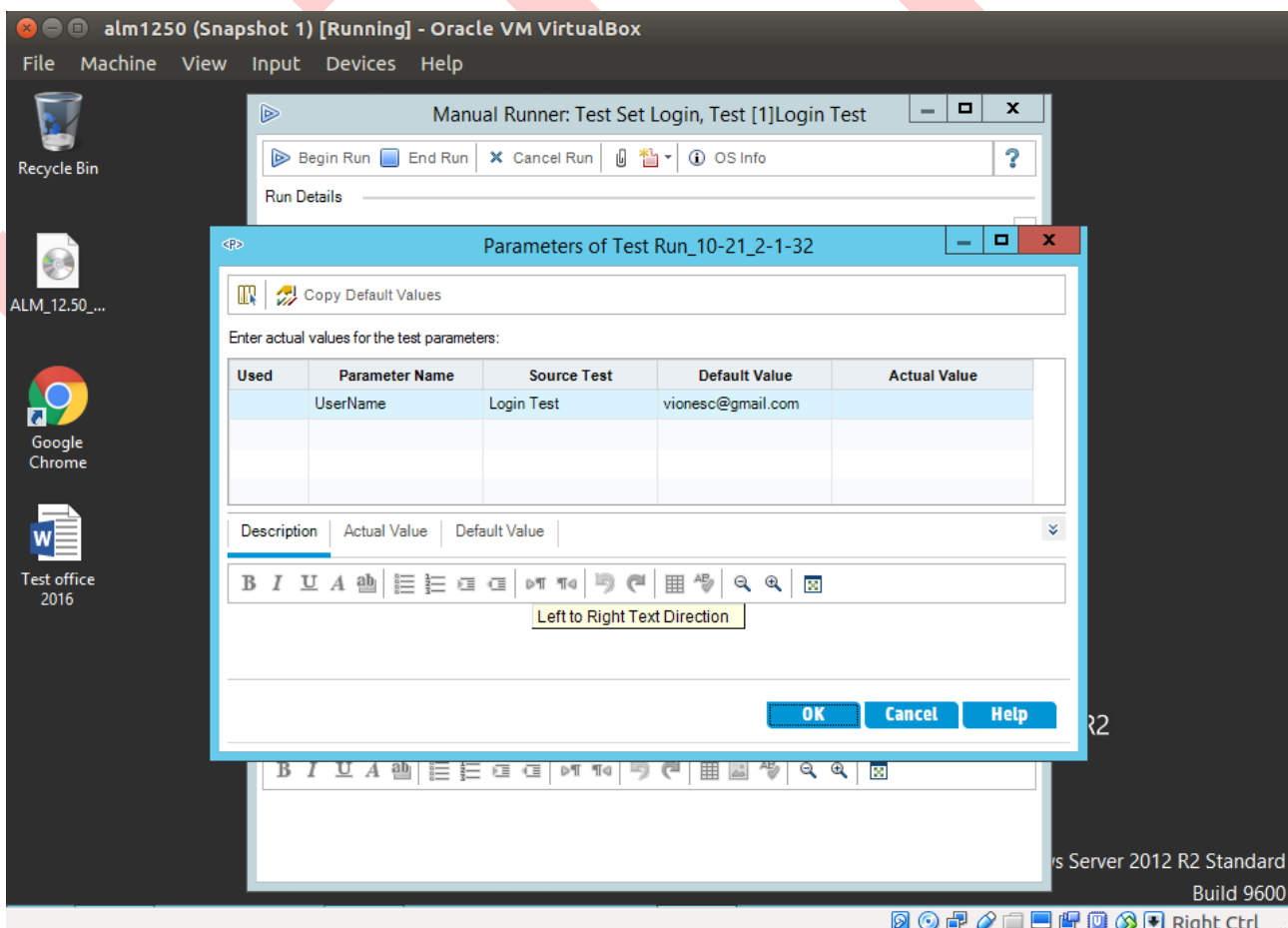
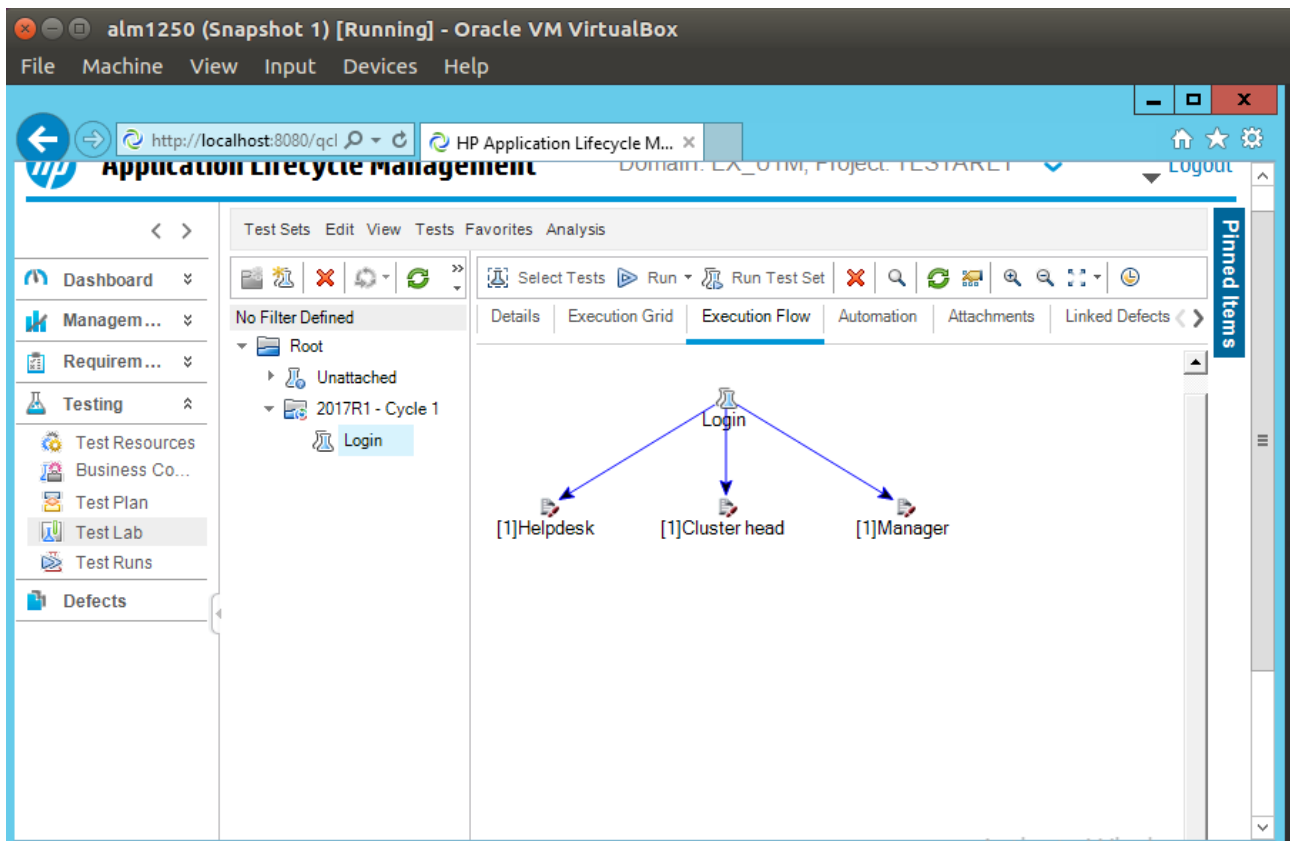
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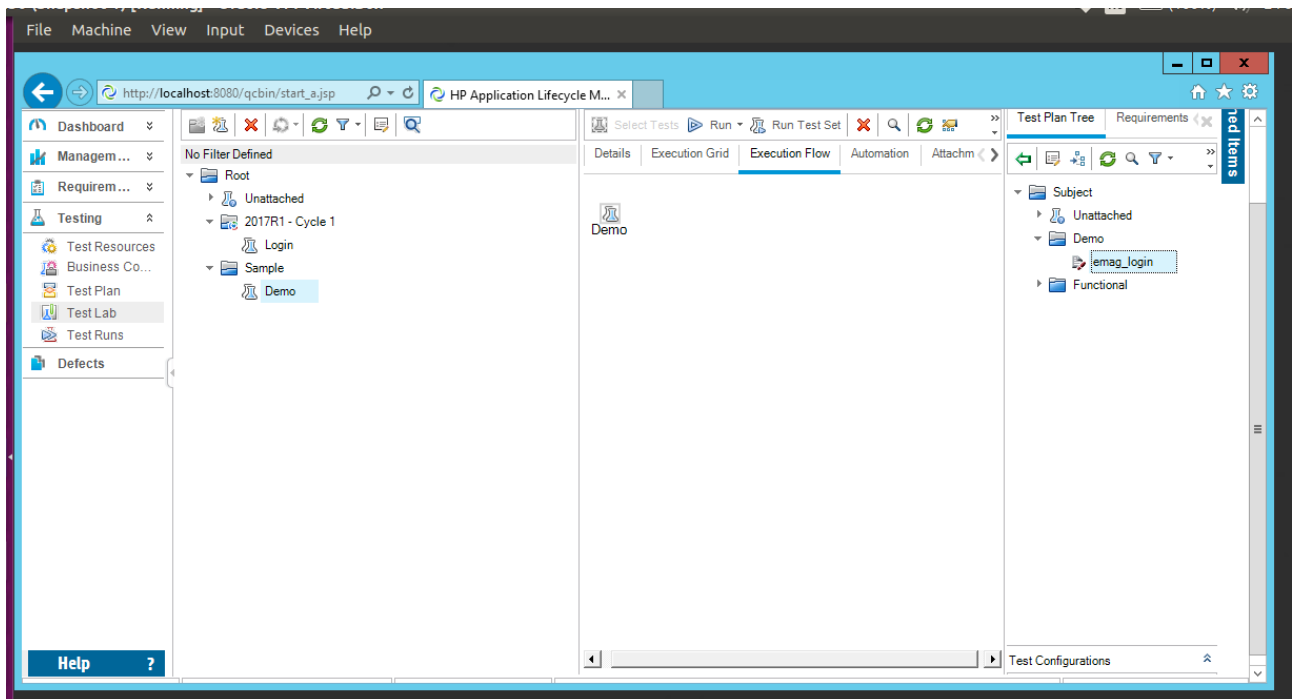
Working with Test Lab in HP ALM





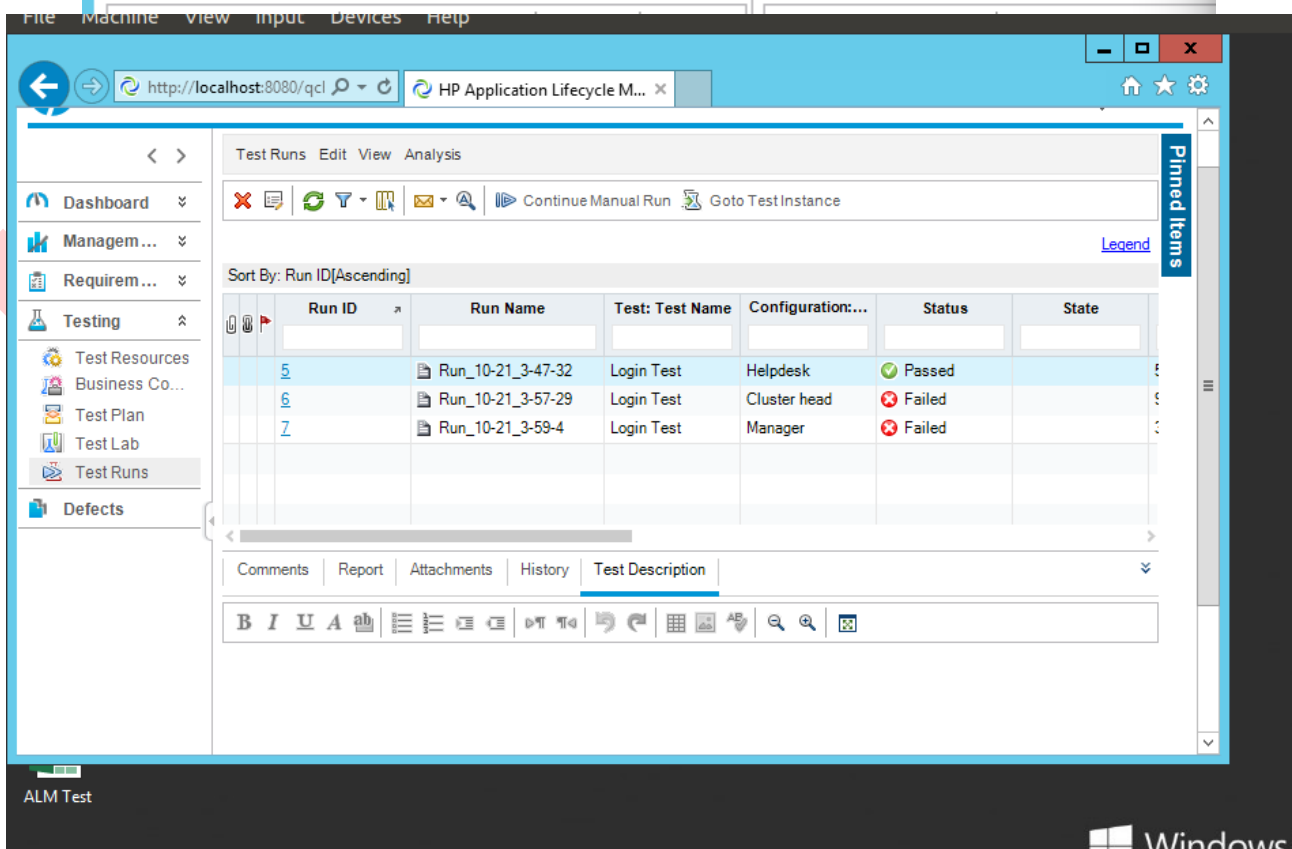


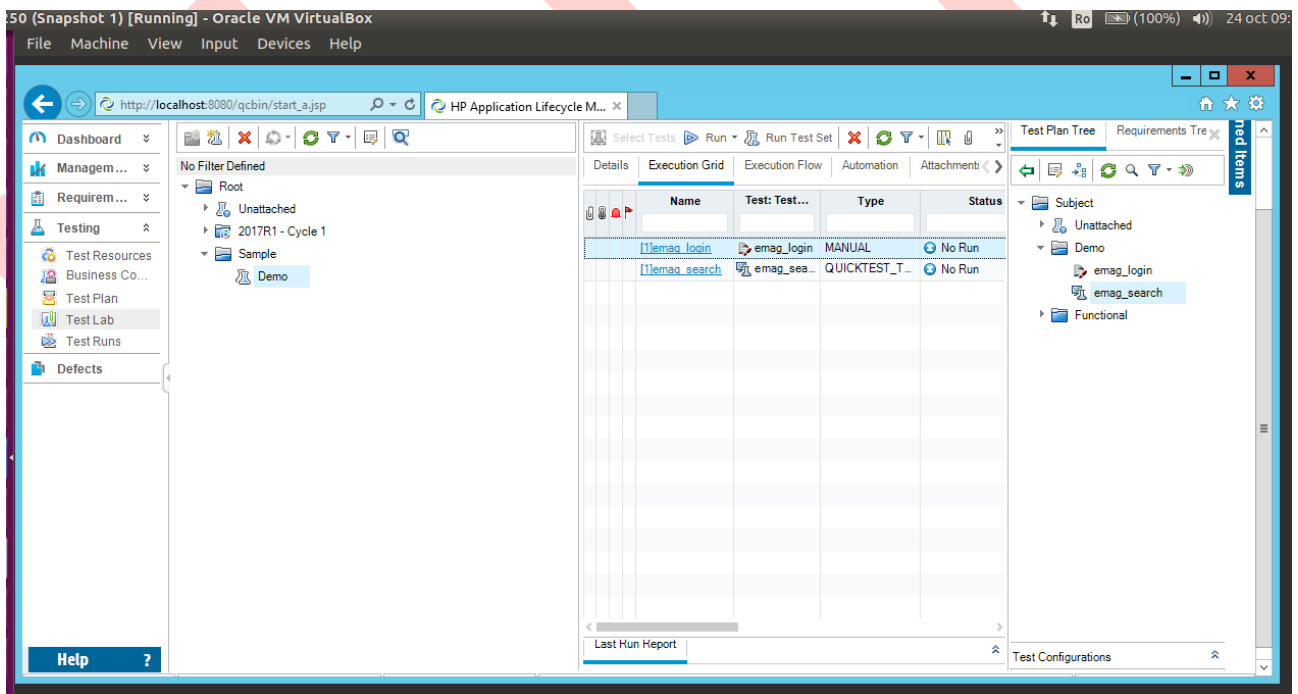
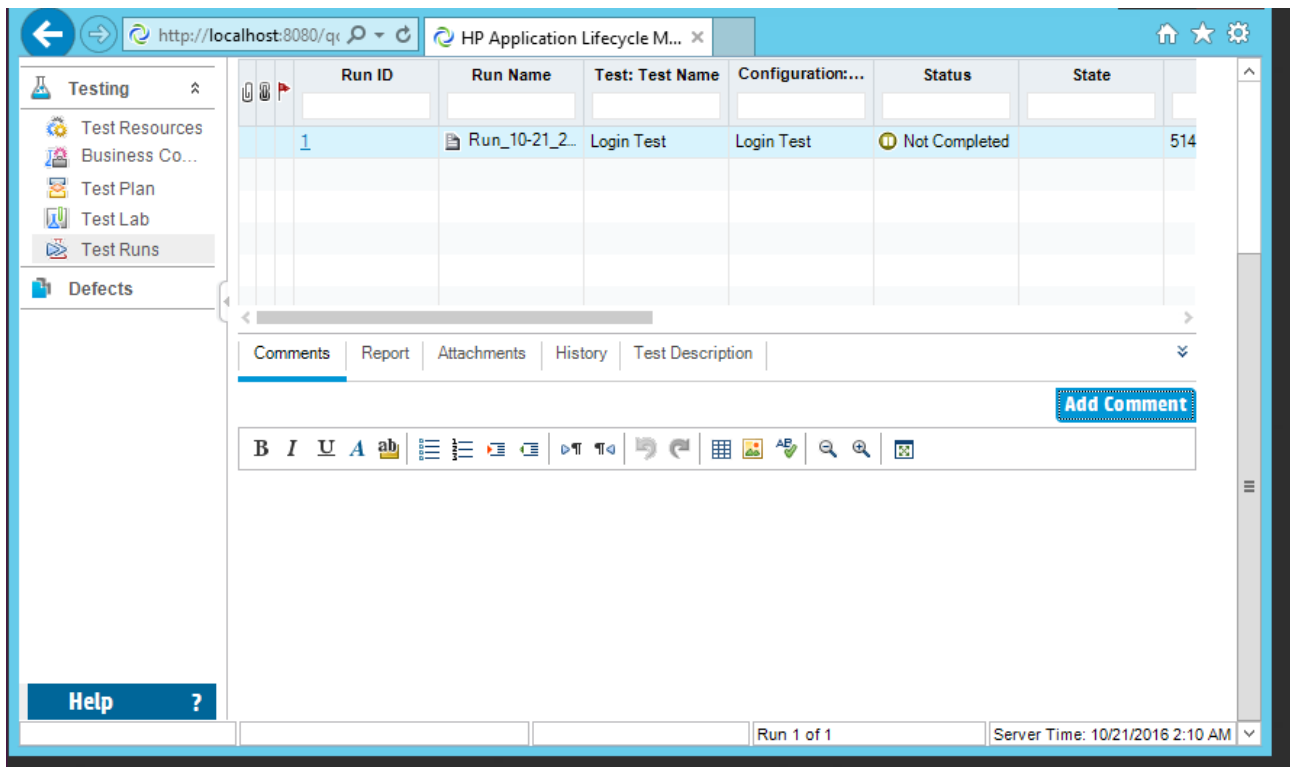




Expected:

Actual:





Advantages of Cucumber over other tools?

Cucumber	HP ALM (QTP)	Selenium
<ul style="list-style-type: none">• It is free	<ul style="list-style-type: none">• QTP is expensive	<ul style="list-style-type: none">• It is free
<ul style="list-style-type: none">• It's a behavior driven development tool	<ul style="list-style-type: none">• It's a Functional Automation Tool	<ul style="list-style-type: none">• It's a Functional and Performance (Selenium Grid) test tool
<ul style="list-style-type: none">• Plugin in cucumber works faster	<ul style="list-style-type: none">• Plugin are slower compare to Cucumber and Selenium	<ul style="list-style-type: none">• Plugins are slower than cucumber
<ul style="list-style-type: none">• Cucumber supports other language as well beyond Ruby like Java, Scala, Groovy etc.	<ul style="list-style-type: none">• QTP supports only VB script	<ul style="list-style-type: none">• Selenium supports Java, .Net and many other languages
<ul style="list-style-type: none">• Writing automation steps are joint effort of testers and developer	<ul style="list-style-type: none">• In QTP only tester writes automation steps	<ul style="list-style-type: none">• Like Cucumber, writing automation steps are joint effort of testers and developer
<ul style="list-style-type: none">• Cucumber supports only web environment	<ul style="list-style-type: none">• Support web, desktop and any client server application	<ul style="list-style-type: none">• Supports only web environment