Hands-On Lab

# Introduction to Platform Testing with Microsoft Test Manager 2015

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## Overview

* 1. Microsoft Test Manager 2015 can be used to organize your test plans, author and manage your test cases, and run manual tests. This lab will introduce you to working with platform testing configurations in Microsoft Test Manager.
	2. This hands-on-lab is one out of a number of labs that deal with Microsoft Test Manager. The recommended order to complete the labs in is as follows:
	+ Introduction to Test Planning with Microsoft Test Manager 2015
	+ Introduction to Test Case Management with Microsoft Test Manager 2015
	+ Authoring and Running Manual Tests using Microsoft Test Manager 2015
	+ Introduction to Platform Testing with Microsoft Test Manager 2015

### Prerequisites

In order to complete this lab you will need the Visual Studio 2015 virtual machine provided by Microsoft. For more information on acquiring and using this virtual machine, please see [this blog post](http://aka.ms/almvm).

### Exercises

* 1. This hands-on lab includes the following exercises:
	2. Creating New Test Configurations for Test Plans
	3. Assigning Test Configurations to Existing Test Cases
	4. Assigning Test Cases to a Tester Based on Test Configurations
	5. Filtering Tests and Viewing Test Configurations when Analyzing Test Runs
	6. Estimated time to complete this lab: **60 minutes**.

## Exercise 1: Creating New Test Configurations for Test Plans

* 1. In this exercise, you will learn how to use Microsoft Test Manager to create new test configurations and assign them to a test plan.
	2. Log in as **Julia** (VSALM\Julia). All user passwords are **P2ssw0rd**
	3. Launch **Microsoft Test Manager** from the taskbar. Microsoft Test Manager allows testers to work with test plans, author and organize manual test cases, execute test cases, file bugs, and post results back to Team Foundation Server.
		1. 
		2. Figure
		3. Microsoft Test Manager splash screen
	4. If not already connected, connect to the **Iteration 2** test plan from the **Tailspin Toys** team project. You can change this selection by clicking on the **Home** button.
		1. 
		2. Figure
		3. Connecting to Tailspin Toys team project
		4. 
		5. Figure
		6. Connecting to Iteration 2 test plan
		7. 
		8. Figure
		9. Location of currently selected team project and test plan
	5. Select the **Organize** tab at the top of the window and then select the **Test Configuration Manager** link.
		1. 
		2. Figure
		3. Test Configuration Manager window
	6. Select the **New** button to create a new test configuration.
		1. 
		2. Figure
		3. Location of New button
	7. For **Name**, enter “**Windows Server 2008 and Firefox 3.0**”.
	8. In the **Configuration variables** grid, select the **Add** dropdown box and select **Operating System**.
		1. 
		2. Figure
		3. Location of Add button
	9. Change the default Windows 7 value to **Windows Server 2008**.
	10. Select the **Add** dropdown box again and select **Browser**. Change the value to **Firefox 3.0** if necessary.
		1. 
		2. Figure
		3. Adjusting values of Configuration variables
	11. Select the **Save and Close** button to save the new test configuration.
		1. 
		2. Figure
		3. Location of Save and Close button
	12. The **Test Configuration Manager** window should now show the new test configuration.
		1. 
		2. Figure
		3. Test Configuration Manager window showing new configuration option
	13. Select the **Plan** tab at the top of the window and then select the **Run Settings** link to view the test plan properties for Iteration 2.
		1. 
		2. Figure
		3. Location of Plan and Properties buttons
	14. Locate the **Configurations** section and click the dropdown box to view all available platform configurations. This shows the default configurations for new test cases.
		1. 
		2. Figure
		3. Configuring configuration options
	15. Select the new test configuration named “**Windows Server 2008 and Firefox 3.0**”, then select the **Apply** button to save the changes.
		1. 
		2. Figure
		3. Selecting new default configuration options for new test cases
	16. Select the **Save and Close** button to save the changes to the test plan configuration.
		1. 
		2. Figure
		3. Location of Save and Close button

## Exercise 2: Assigning Test Configurations to Existing Test Cases

* 1. In this exercise, you will learn how to assign test configurations to existing test cases.
	2. In **Microsoft Test Manager**, select the **Plan** tab and then select the **Contents** link to open the project plan contents window.
		1. 
		2. Figure
		3. Test plan contents window for Iteration 2
	3. Select test suite **7** to view its test cases.
	4. Select test case with ID = **40**, titled “**Customer can remove items from shopping cart by clicking “X” icon**”.
		1. 
		2. Figure
		3. Selecting a specific test case to adjust configurations
	5. Select the **Configurations** button.
		1. 
		2. Figure
		3. Location of Configurations button
	6. Select the **Configurations** drop down for the test case, then select the **Windows Server 2008 and Firefox 3.0** option, and finally select the **Apply** button.
		1. 
		2. Figure
		3. Selecting the new configuration option
	7. Select the **Close** button to close the **Select Test Configuration** view.
	8. Select the **Test** tab at the top of the window and then select the **Run Tests** link.
		1. 
		2. Figure
		3. Run Tests window
	9. Select test suite **7** to view all of the assigned test cases, and note that there is a new active test case permutation listed corresponding to test case 40 with the new **Windows Server 2008 and Firefox 3.0** configuration.
		1. 
		2. Figure
		3. Test activity automatically recognizes the need for more testing

## Exercise 3: Assigning Test Cases to a Tester Based on Test Configurations

* 1. In this exercise, you will learn how to assign test cases to different testers based on test configurations.
	2. In **Microsoft Test Manager**, select the **Plan** tab and then select the **Contents** link to open the project plan contents window.
		1. 
		2. Figure
		3. Test plan contents window for Iteration 2
	3. Select test suite **7** if not already selected to view its test cases.
	4. Select **test cases** **40** and **41** (hold down Ctrl) and then select the **Assign** button to begin assigning testers.
		1. 
		2. Figure
		3. Selecting test cases to assign testers
	5. In the **Assign Testers** window, test cases are shown with all assigned configurations. Note that each test case and configuration combination can be assigned to a different tester. Select the **Tester** dropdown box next to the row for **ID** = 40 and **Configuration** = “Windows Server 2008 and Firefox 3.0” and select **Julia Ilyiana** as the responsible tester.
	6. Select the **Save Assignments** button to save your changes.
		1. 
		2. Figure
		3. Location of Save Assignments button

## Exercise 4: Filtering Tests and Viewing Test Configurations when Analyzing Test Runs

* 1. In this exercise, you will learn how to filter test runs and view test configurations when analyzing test runs.
	2. In **Microsoft Test Manager**, select the **Test** tab and then select the **Run Tests** link.
	3. Select test suite **7** to view all of the assigned test cases. At this point, no filtering should be applied so you should see all test suites and their associated test cases.
		1. 
		2. Figure
		3. Viewing test cases
	4. Select the **Filter** dropdown box to see all available filter options and select the **Windows Server 2008 and IE8** configuration.
	5. Select the **Set Filter** button.
		1. 
		2. Figure
		3. Filtering by test configuration
	6. Once the configuration filter is applied, only test cases that are assigned to one of the filtered configurations are shown.
		1. 
		2. Figure
		3. Test cases filtered by test configuration
	7. Select one of the test runs and select the **View Results** button. It does not matter which one you select.
		1. 
		2. Figure
		3. Viewing results for a test case
	8. In the test results window for the test run that you opened, note that the associated configuration is shown.
		1. 
		2. Figure
		3. Test results always show the configuration that was used
	9. Select the **Analyze Test Runs** link.
		1. 
		2. Figure
		3. Location of Analyze Test Runs link
	10. Use the **Start date range** dropdown to select the **All** option. Use the **View** dropdown to select the **Manual runs** option.
		1. 
		2. Figure
		3. Adjusting drop down boxes values
	11. Select one of the test runs and then select the **Open** button to load the test run details. It does not matter which one you select.
		1. 
		2. Figure
		3. Opening a specific test run
	12. Expand the **Tests** section of the test run details. Note that the associated test configuration was also recorded here.
		1. 
		2. Figure
		3. Results of test run showing configuration that was used

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