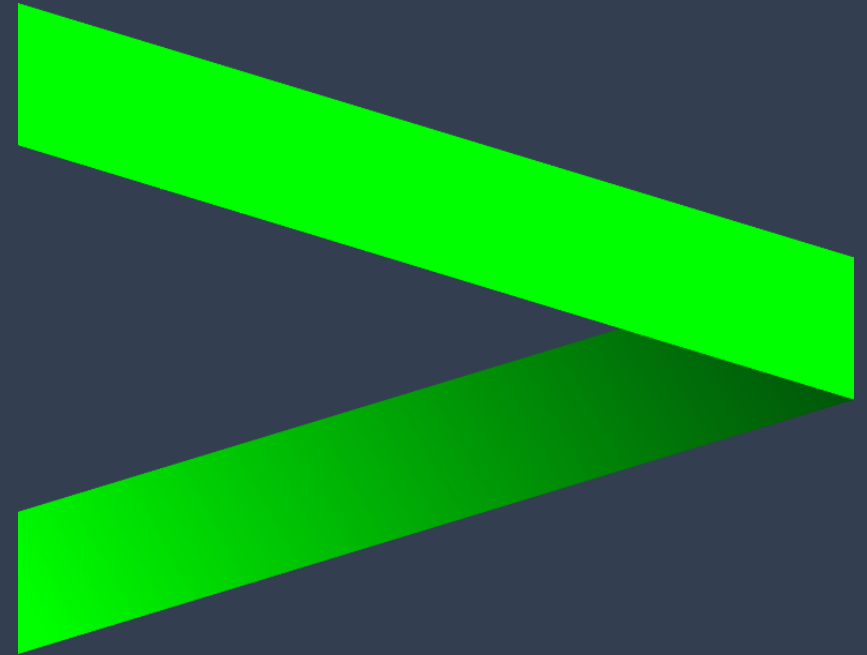




Learning and Knowledge Management

Module 1: Selenium Suite



Module Objectives

At the end of this module, you will be able to:

- Discuss Selenium Suite components such as Selenium WebDriver and Selenium Grid



Topic List

Introduction to Selenium Suite

Selenium WebDriver

Selenium Grid

Topic List

Introduction to Selenium Suite

Selenium WebDriver

Selenium Grid

Introduction To Selenium Suite (1)

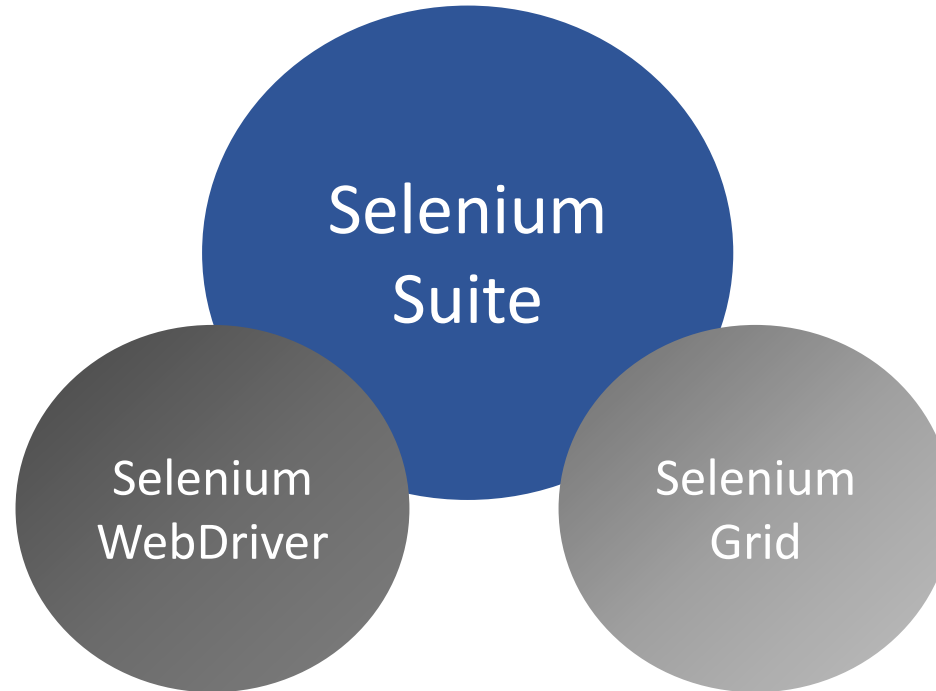
Introduction to Selenium

- Selenium is an open source[available for free] automation testing tool / library for web applications
- Selenium automates the user interaction with browsers. This capability of Selenium tool is used for test automation of HTML based web applications



Introduction To Selenium Suite (2)

Selenium 3



Note: Selenium Remote Control (RC) was the main Selenium project for a long time, before the WebDriver/Selenium merge brought up Selenium 2



Topic List

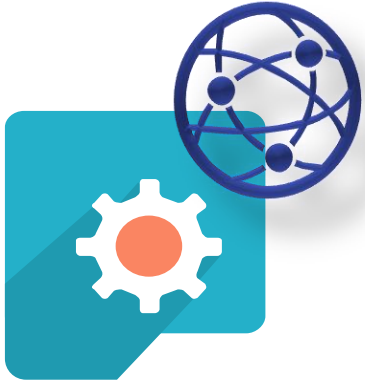
Introduction to Selenium Suite

Selenium WebDriver

Selenium Grid

Selenium WebDriver

WebDriver overcomes the limitations of the Selenium RC



- WebDriver uses browser's built in support for automation
- WebDriver such as ChromeDriver, FirefoxDriver, GeckoDriver etc., uses specific Python API to implement automation
- WebDriver provisions dynamic webpages, where the elements of the page changes despite of the parent page being not reloaded
- WebDriver comes with well designed Object oriented (OO) APIs that can provide solutions to previously existing problems in testing advanced web applications



Topic List

Introduction to Selenium Suite

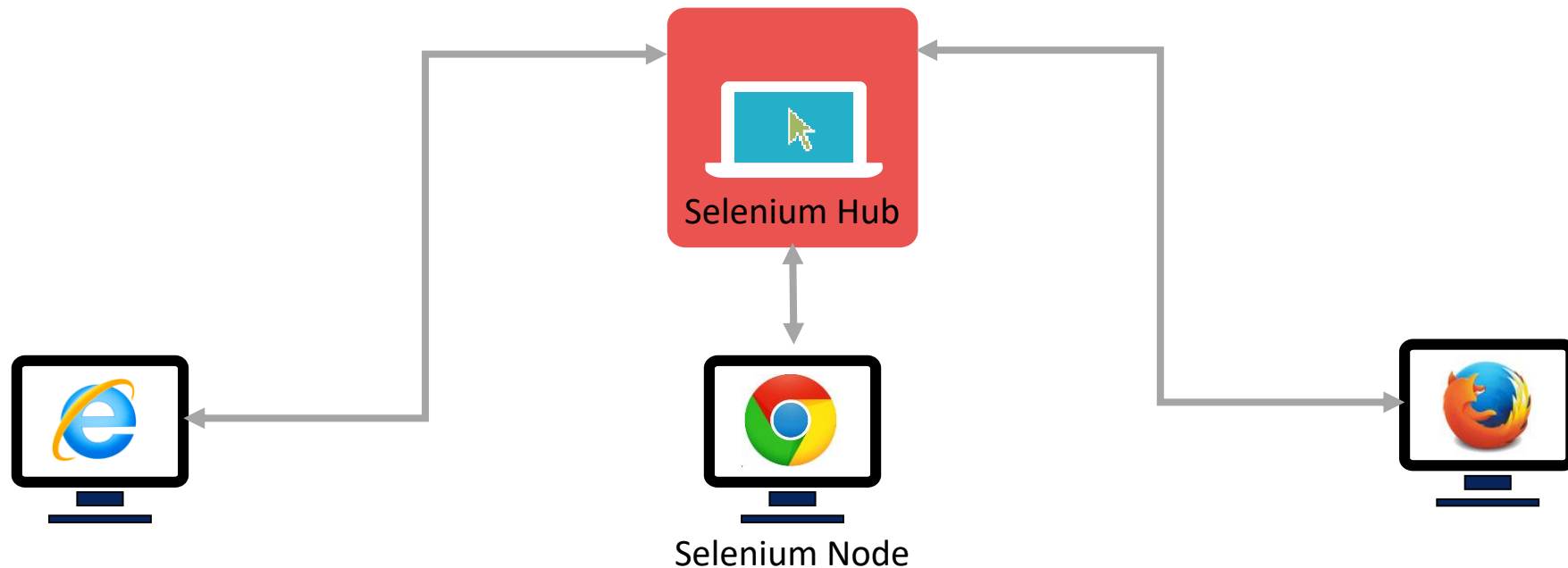
Selenium WebDriver

Selenium Grid

Selenium Grid

What is Selenium Grid?

- Selenium Grid is used to run the tests with:
 - Multiple browsers and their different versions
 - Browsers running on different Operating Systems (OS)
- Selenium Grid is used to execute test scripts on a remote machine
 - Different tests can be executed in parallel on various remote machines to create a distributed test environment
- Selenium Grid can be used to increase the performance of a large and slow test suite



Module Summary

Now, you should be able to:

- Discuss Selenium Suite components such as Selenium WebDriver and Selenium Grid



Reference

- http://www.seleniumhq.org/docs/03_webdriver.jsp
- <http://www.seleniumhq.org/projects/webdriver/>
- http://www.seleniumhq.org/docs/07_selenium_grid.jsp



Thank You