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Selenium Java Training - Session 24 - Selenium Grid, Properties (Global Parameters) and SelectorsHub Addon

Cross Browser Testing using Selenium Grid

We can distribute our tests to run on different machines having different browser using Selenium Grid.

- TestNG - Allows parallel execution, where as Selenium Grid - Allows distribution of tests on different machines and their browsers
 - Limitations of TestNG
 - TestNG + Selenium Grid saves time
- Understanding Hub and Nodes
- Steps for configuring Selenium Grid
 - Download Selenium Standalone Server
 - Register Hub by following below steps:
 - Open command prompt from C drive
 - Copy Selenium Standalone Server to C drive
 - Run `java -jar selenium-server-standalone-3.141.59.jar -role hub`
 - Get the ip address and port number from the command prompt and append /grid/console as shown below:
 - <http://192.168.0.106:4444/grid/console>
 - Register nodes to the above Hub
 - In Node machine, make sure Java is already installed and configured (check java - version)
 - Download Selenium Standalone Server Jar here too
 - Download chromedriver.exe
 - Copy Selenium Standalone Server and chromedriver.exe to C drive
 - Run `java -Dwebdriver.chrome.driver="C:\chromedriver.exe" -jar selenium-server-standalone-3.141.59.jar -role webdriver -hub http://192.168.0.106:4444/grid/register -port 5555`
 - We can run on any port
 - Hub command prompt - will show that a node got registered to the hub
 - Refresh in Hub - <http://192.168.0.106:4444/grid/console>
 - Create a Project
 - Configure it with selenium standalone server jar file
 - Create a class with main method
 - Create an object for DesiredCapabilities and other code - [View here](#)
 - Execute the Test to see whether the Test is running on the node machine

2. Execute a selenium script with hard-coded values to login into the application
3. Creating the data.properties file
4. Create an object for the Properties
5. load() for loading the properties file
6. getProperty() for retrieving the data from the properties file
7. store() for updating the data in the properties file

SelectorsHub

1. Creating XPath Expressions and CSS Selectors manually
2. SelectorsHub will help you

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