

Selenium Grid

Supported Browsers: Firefox, Chrome, IE, Safari, Opera

Operating System: Microsoft Windows, Apple OS X, Linux

Steps to run using selenium grid :-

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1. Download the Selenium Server jar file from the following link

<http://www.seleniumhq.org/download/> (Download version : 3.4.0)

2. Open the command prompt and navigate to the folder where the downloaded server jar file is located.
(For eg : cd C:\Server Jar)

3. To launch the **hub** run the server using the following command
Java -Dwebdriver.chrome.driver=C:\drivers\chromedriver.exe -jar selenium-server-standalone-3.4.0.jar -role hub

*[Note : For other browsers ,download the driver files from the following link
<http://www.seleniumhq.org/download/>]*

4. Status of the **hub** can be checked by the following web interface

<http://localhost:4444/grid/console>

5. Go to the other machine where we want to setup the **node** and open the Command prompt and run the following command

Java -Dwebdriver.chrome.driver=C:\drivers\chromedriver.exe -jar selenium-server-standalone-3.4.0.jar -role node -hub

<http://localhost:4444/grid/register> -port 5556 (In the place of local host give the IP address of the machine where the hub is launched)

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6. After starting the **node** we can check the nodes connected to **hub** and

The available browsers in the grid console.

```
@BeforeClass
public void login() throws IOException, InterruptedException {
    DesiredCapabilities capabilities = DesiredCapabilities.firefox();
    capabilities.setCapability("marionette", true);
    capabilities.setBrowserName("firefox");
    //capabilities.setVersion("53.0.2");
    capabilities.setPlatform(Platform.VISTA);
    driver = new RemoteWebDriver(new URL("http://192.168.1.142:5555/wd/hub"), capabilities);
    driver.get("http://dev.fuseplm.com/login/aws");
    //Launch Browsers
    launchBrowser("chrome", "http://dev.fuseplm.com/login/aws");
}
```

7. In Code, change the **Hub** URL while changing or using as **hub** machine.

8. On launching the **hub**, we can run on the node machine without Eclipse IDE

Create a batch file :-

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1. Open the notepad

2. Copy the following command and save the file type as bat.

Java -Dwebdriver.chrome.driver=E:\drivers\chromedriver.exe -jar selenium-server-standalone-3.4.0.jar -role hub

3. Follow the above steps for both hub and node machine.

4. Now double click the created bat file.