Selenium Grid:

Step 1:

Download the selenium server from http://docs.seleniumhq.org/download/ Put it on Hub and all Nodes

Step 2:

Go to hub. Using the command prompt, navigate to the directory where Selenium Server jar is placed.

Run selenium server using this command

java -jar selenium-server-standalone-3.7.1.jar -role hub

Name of the jar files varies on version 3.7.1 is not always true

Step 3:  
Go to all nodes. Using the command prompt, navigate to the directory Selenium Server jar is placed.

Run selenium server using this command

java -jar selenium-server-standalone-2.47.1.jar –role node –hub http://<hub ib address>/grid/register –port 5555

Advance command for specific browser

java "-Dwebdriver.gecko.driver = path of driver file" -jar selenium-server-standalone-3.7.1.jar -role node -hub http://<hub ip address>/grid/register/ -port 5555 -browser “browserName=firefox, maxInstances=1, platform=MAC”

Run node using json configuration file (node1Cofig.json)

|  |  |
| --- | --- |
| { |  |
|  | "capabilities": |
|  | [ |
|  | { |
|  | "browserName": "firefox", |
|  | "marionette": true, |
|  | "maxInstances": 5, |
|  | "seleniumProtocol": "WebDriver" |
|  | }, |
|  | { |
|  | "browserName": "chrome", |
|  | "maxInstances": 5, |
|  | "seleniumProtocol": "WebDriver" |
|  | }, |
|  | { |
|  | "browserName": "internet explorer", |
|  | "platform": "WINDOWS", |
|  | "maxInstances": 1, |
|  | "seleniumProtocol": "WebDriver" |
|  | }, |
|  | { |
|  | "browserName": "safari", |
|  | "technologyPreview": false, |
|  | "platform": "MAC", |
|  | "maxInstances": 1, |
|  | "seleniumProtocol": "WebDriver" |
|  | } |
|  | ], |
|  | "proxy": "org.openqa.grid.selenium.proxy.DefaultRemoteProxy", |
|  | "maxSession": 5, |
|  | "port": 5555, |
|  | "register": true, |
|  | "registerCycle": 5000, |
|  | "hub": "http://localhost:4444", |
|  | "nodeStatusCheckTimeout": 5000, |
|  | "nodePolling": 5000, |
|  | "role": "node", |
|  | "unregisterIfStillDownAfter": 60000, |
|  | "downPollingLimit": 2, |
|  | "debug": false, |
|  | "servlets" : [], |
|  | "withoutServlets": [], |
|  | "custom": {} |
|  | } |

java "-Dwebdriver.gecko.driver = path of driver file" -jar selenium-server-standalone-3.7.1.jar -role node -nodeConfig node1Config.json