Docker or Selenium Grid (component of for / fall Execution

scross various OS MAG

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-Node) Aech. -> follows (Hub-Node) Arch.

Seeves - Client - Selevium Standalone Server (Condo)

(Server) (M/C) (2) conds LAN -> portNo 14444 HUB (Server) - Hub > Node (C) (Seiner) Noder Cs 5355 11 Browced 5556 (m/c) Lines Node 1 Node 3 (Server) 04 Cho (M/c) 5 chrome (M (c) Ma (M(c) Start (dient) LIE (client 2) Windslo Sel. Edge MAC Cheone Standone (Linux) Saferi Server FF

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Hub
1M1C Hodel
Wodel Saver 11 Way: Code Browser Browner Deivers



- 1. Download Standalone Srever fom Selenium Website
- 2. Place that .jsr file in any folder
- 3. From that location (where server.jar file is placed), open cmd.
- 4. Create a HUb (Server)

java -jar selenium-server-standalone-3.141.59.jar -role hub

Selenium Hub is up and Running - Message

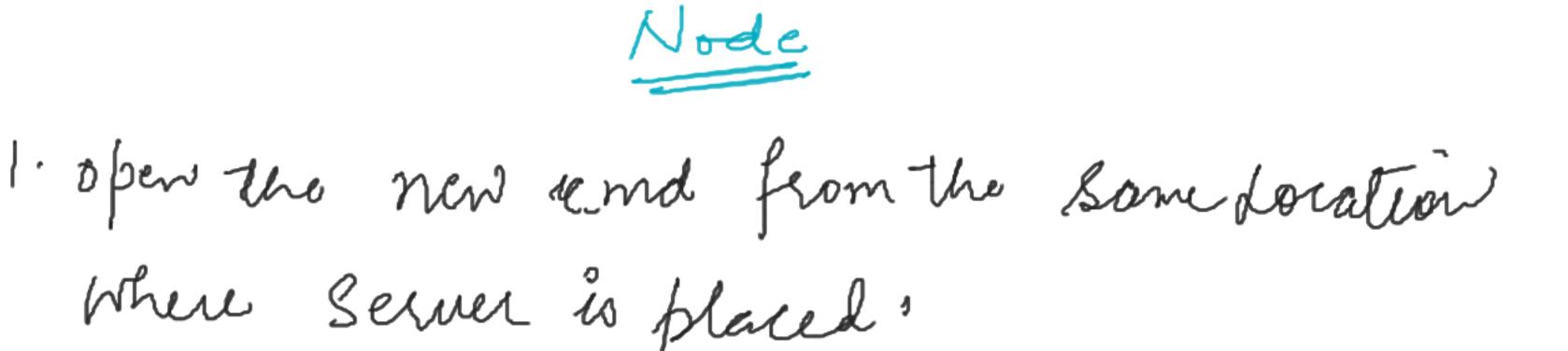
java -jar selenium-server-standalone-3.141.59.jar -role hub -port 5555

5. Open the Browser and enter url: http://localhost:<port-no>/grid/console

For Eg:

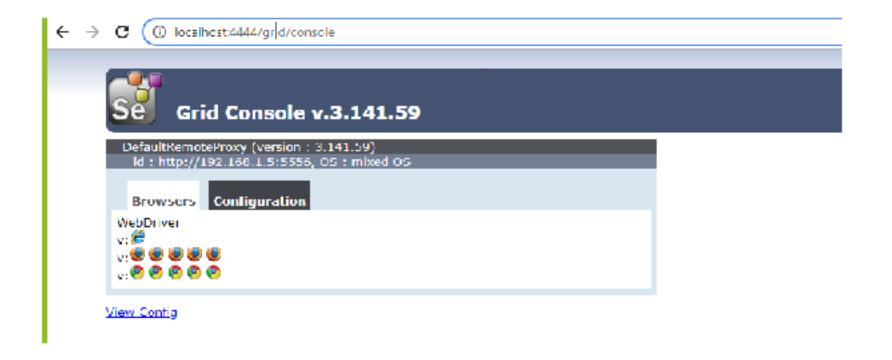
http://localhost:4444/grid/console

only if port 4444 is brusy



java -jar selenium-server-standalone-3.141.59.jar -role webdriver -hub http://localhost: 4444/grid/register -port 5556

2. Regresh the page: http://localhost:4444/grid/console on Browser



1. Drives -> Chrome, gecko and & Mus -> Saipt -> [Jull] 2. Hub TestNG === and - Node Drivers - Browser

Hus (G.S) Browsus diverpet

Hub:-

java -jar selenium-server-standalone-3.141.59.jar -role hub

Node:

java -Dwebdriver.chrome.driver=D:\\2021\\Batches_DATA\\SDET_0402\\LearnSel_0402\\SelGrid\\driver\\chromedriver.exe -jar selenium-server-standalone-3.141.59.jar -role webdriver -hub http://localhost:4444/grid/register -port 5556 -browser browserName=chrome

Hut (FF, Chrome) beript 112 - Festing Node 2 hrome guko diver Chromedriver

Hub:-

java -jar selenium-server-standalone-3.141.59.jar -role hub

Node1:

//For chrome Browser

java -Dwebdriver.chrome.driver=D:\\2021\\Batches_DATA\\SDET_0402\\Sel_GridDemos\\chromedriver.exe -jar selenium-server-standalone-3.141.59.jar -role webdriver -hub http://localhost:4444/grid/register -port 5556 -browser browserName=chrome

//for firefox Browser

java -Dwebdriver.gecko.driver=D:\\2021\\Batches_DATA\\SDET_0402\\Sel_GridDemos\\geckodriver.exe -jar selenium-server-standalone-3.141.59.jar -role webdriver -hub http://localhost:4444/grid/register -port 5557 -browser browserName=firefox

```
TestNG Class -s jang Script
```

```
URL url;
  WebDriver driver;
  DesiredCapabilities cap;
@Parameters("browser")
  @Test
  public void setUp(String browserName) throws MalformedURLException {
    ChromeOptions options = new ChromeOptions();
    if (browserName.equalsIgnoreCase("firefox")) {
       options.setCapability("browserName", "firefox");
       options.setCapability("platformName", Platform.ANY);
    } else if (browserName.equalsIgnoreCase("chrome")) {
       options.setCapability("browserName", "chrome");
       options.setCapability("platformName", Platform.ANY);
    try {
       url = new URL("http://localhost:4444/wd/hub");
    } catch (MalformedURLException e) {
       e.printStackTrace();
    driver = new RemoteWebDriver(url, options);
    driver.get("https://opensource-demo.orangehrmlive.com/");
```

testing xml <suite name="Suite" parallel="tests"> <test thread-count="5" name="Test on Chrome"> <parameter name="browser" value="chrome"></parameter> <classes> <class name="Sel_Grid.SelGridDemo" /> </classes> </test> <!-- Test --> <test thread-count="5" name="Testing On Firefox"> <parameter name="browser" value="firefox"></parameter> <classes> <class name="Sel_Grid.SelGridDemo" /> </classes> </test> <!-- Test --> </suite> <!-- Suite -->