



Docker + Selenium Grid

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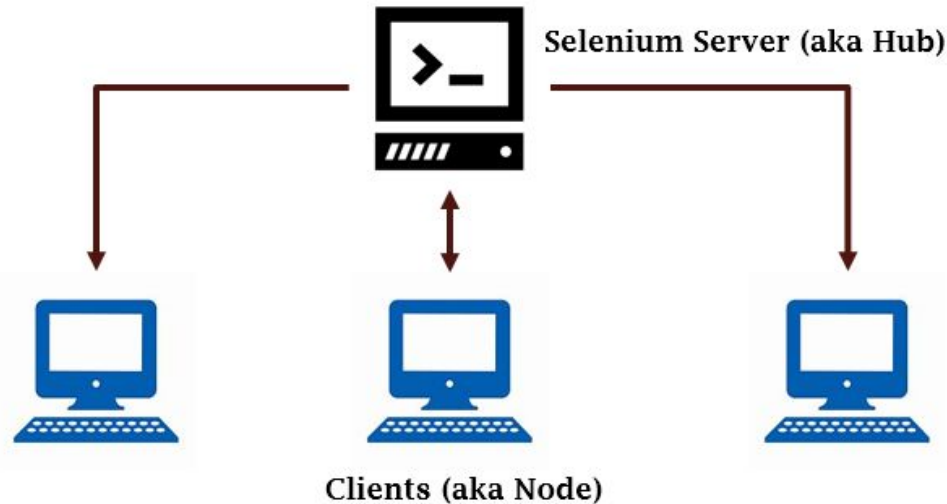
Selenium

Selenium automates browsers!



Selenium Grid

Selenium-Grid allows you run your tests on different machines against different browsers in parallel.





Docker + Selenium Grid Demo

Docker-Selenium-Demo

1. First, You must be having docker understanding as well I also have already published a beginner guide for Windows use here:

<https://www.linkedin.com/pulse/beginner-guide-start-docker-running-vnc-enabled-ubuntu-anand-bhagwat/>

2. So you'll need to pull down the latest images*:

```
docker pull selenium/hub:latest
```

```
docker pull selenium/node-chrome-debug:latest
```



contd.

3 .Start the selenium grid:

```
docker run -d -p 4444:4444 --name selenium-hub selenium/hub:latest
```

Then add selenium nodes. I like to use the chrome-debug and firefox-debug versions to VNC to watch the tests.

```
docker run -d -p 5900:5900 --link selenium-hub:hub selenium/node-chrome-debug:latest
```

After linking your selenium grid, this should be enough to run your Protractor test using the seleniumAddress: 'http://localhost:4444/wd/hub'.



contd.

4. For debugging, find the VNC port for the container with:

```
docker port <container-name or container-id> 5900
```

and access it via VNC Viewer.

5. I used chrome-debug node so that I can view the container using VNC.

by MY_DOCKER_HOST_IP:PORT_which is 5530 here, you can see the image of the VM like ubuntu logo



4. Last I created one script using Webdriver :

```
public static void main(String[] args) throws MalformedURLException {  
  
    // TODO Auto-generated method stub  
  
    DesiredCapabilities dc = new DesiredCapabilities();  
  
    //System.setProperty("webdriver.chrome.driver","D:\\ChromeDriver\\chromedriver_win32\\chromedriver.exe");  
  
    dc.setBrowserName("firefox");  
  
    dc.setPlatform(Platform.LINUX);  
  
    WebDriver driver = new RemoteWebDriver(new URL("http://10.192.71.19:5555/wd/hub"), dc);  
  
    driver.get("https://www.google.co.in");  
  
    driver.findElement(By.id("lst-ib")).sendKeys("Selenium Software");  
  
    System.out.println("Completed");  
}
```