

Node:

```
C:\Windows\System32\cmd.exe - java -Dwebdriver.chrome.driver="C:\Users\ASUS\Desktop\chromedriver-win32\chromedriver.exe" -jar selenium-server-4.12.1.jar node --hub http://192.168.52.2:4444/grid/register

Environment variable to check in order to determine if a vnc stream is
available or not.
Default: SE_START_XVFB

C:\Users\ASUS\Downloads>java -Dwebdriver.chrome.driver="C:\Users\ASUS\Desktop\chromedriver-win32\chromedriver.exe" -jar selenium-server-4.12.1.jar node --hub http://192.168.52.2:4444/grid/register
Picked up JAVA_TOOL_OPTIONS: -agentlib:jvmtool
Picked up JAVA_TOOL_OPTIONS: -Xrunjvmtool -Xbootclasspath/a:"C:\Program Files (x86)\Micro Focus\UFT One\bin\java_shared\classes\jasmine.jar"
16:43:37.626 INFO [LoggingOptions.configureLogEncoding] - Using the system default encoding
16:43:37.631 INFO [OpenTelemetryTracer.createTracer] - Using OpenTelemetry for tracing
16:43:37.815 INFO [UnboundZmqEventBus.<init>] - Connecting to tcp://192.168.52.2:4442 and tcp://192.168.52.2:4443
16:43:37.869 INFO [UnboundZmqEventBus.<init>] - Sockets created
16:43:38.873 INFO [UnboundZmqEventBus.<init>] - Event bus ready
16:43:39.262 INFO [NodeServer.createHandlers] - Reporting self as: http://192.168.52.2:5555
16:43:39.530 INFO [NodeOptions.getSessionFactories] - Detected 8 available processors
16:43:39.531 INFO [NodeOptions.discoverDrivers] - Looking for existing drivers on the PATH.
16:43:39.533 INFO [NodeOptions.discoverDrivers] - Add "selenium-manager true" to the startup command to setup drivers automatically.
16:43:39.977 WARN [SeleniumManager.lambda$runCommand$1] - Unable to discover proper geckodriver version in offline mode
16:43:40.297 WARN [SeleniumManager.lambda$runCommand$1] - Unable to discover proper geckodriver version in offline mode
16:43:40.546 WARN [SeleniumManager.lambda$runCommand$1] - Unable to discover proper IEDriverServer version in offline mode
16:43:40.574 INFO [NodeOptions.report] - Adding Chrome for {"browserName": "chrome", "goog:chromeOptions": {"args": ["--remote-allow-origins*"]}, "platformName": "Windows 10"} 8 times
16:43:40.592 INFO [Node.<init>] - Binding additional locator mechanisms: relative
16:43:41.021 INFO [NodeServer$.start] - Starting registration process for Node http://192.168.52.2:5555
16:43:41.022 INFO [NodeServer.execute] - Started Selenium node 4.12.1 (revision 8e34639b11): http://192.168.52.2:5555
16:43:41.040 INFO [NodeServer$.lambda$start$1] - Sending registration event...
16:43:51.055 INFO [NodeServer$.lambda$start$1] - Sending registration event...
16:44:01.076 INFO [NodeServer$.lambda$start$1] - Sending registration event...
16:44:11.091 INFO [NodeServer$.lambda$start$1] - Sending registration event...
16:44:21.106 INFO [NodeServer$.lambda$start$1] - Sending registration event...
16:44:31.112 INFO [NodeServer$.lambda$start$1] - Sending registration event...
16:44:41.125 INFO [NodeServer$.lambda$start$1] - Sending registration event...
```

Hub:

```
C:\Users\ASUS\Downloads>java -jar selenium-server-4.12.1.jar hub
Picked up JAVA_TOOL_OPTIONS: -agentlib:jvmtool
Picked up JAVA_TOOL_OPTIONS: -Xrunjvmtool -Xbootclasspath/a:"C:\Program Files (x86)\Micro Focus\UFT One\bin\java_shared\classes\jasmine.jar"
15:41:32.628 INFO [LoggingOptions.configureLogEncoding] - Using the system default encoding
15:41:32.628 INFO [OpenTelemetryTracer.createTracer] - Using OpenTelemetry for tracing
15:41:33.071 INFO [UnboundZmqEventBus.<init>] - XPUB binding to [binding to tcp://*:4442, advertising as tcp://192.168.52.2:4442], XSUB binding to [binding to tcp://*:4443, advertising as tcp://192.168.52.2:4443]
15:41:33.133 INFO [UnboundZmqEventBus.<init>] - Connecting to tcp://192.168.52.2:4442 and tcp://192.168.52.2:4443
15:41:33.164 INFO [UnboundZmqEventBus.<init>] - Sockets created
15:41:34.200 INFO [UnboundZmqEventBus.<init>] - Event bus ready
15:41:35.555 INFO [Hub.execute] - Started Selenium Hub 4.12.1 (revision 8e34639b11): http://192.168.52.2:4444
15:52:49.503 INFO [Node.<init>] - Binding additional locator mechanisms: relative
15:52:49.842 INFO [GridModel.setAvailability] - Switching Node 207f48a0-1d61-4ac6-bf95-d871ac4f9175 (uri: http://192.168.52.2:5555) from DOWN to UP
15:52:49.842 INFO [LocalDistributor.add] - Added node 207f48a0-1d61-4ac6-bf95-d871ac4f9175 at http://192.168.52.2:5555. Health check every 120s
16:15:32.840 INFO [LocalDistributor.newSession] - Session request received by the Distributor:
[Capabilities {browserName: chrome, platformName: windows}]
16:16:41.360 INFO [LocalDistributor.newSession] - Session request received by the Distributor:
[Capabilities {browserName: chrome, platformName: windows}]
16:17:55.638 INFO [LocalDistributor.newSession] - Session request received by the Distributor:
[Capabilities {browserName: chrome, platformName: windows}]
16:18:32.071 WARN [SeleniumSpanExporter$.lambda$export$3] - ("traceId": "c22c169fedd4e5e7a02ffd3f457a4b24", "eventTime": 1694256332039311600, "eventName": "Session request received by the Distributor", "request.payload": "[Capabilities {browserName: chrome, platformName: windows}]")
```

Eclipse Code:

```
Package Explorer X
> Amazon
> AmazonWithCucumber
> Ass_Practice_project2
> CucumberLssnEnd
> DemoWebShop
  > src/main/java
  > src/test/java
    > com.Listeners
    > mphasis.DemoWebShop
      > BaseTest.java
      > CustomListener.java
      > DDF.java
      > LoginFunctionalityTest.java
      > ScreenshotDemo.java
      > SeleniumGrid.java
    > Utils
  > JRE System Library [JavaSE-1.7]
  > Maven Dependencies
  > Resources
  > Screenshots
  > src
  > target
  > test-output
  > TestReport
  > pom.xml
  > testng.xml
> GradleDemo
> Java1
> JenkinsDemo [DemoRepoForMaven main]
> JUnitDemo
> lib
> Mavendemo
> Redbus
> RestAssuredDemo
> saucedemo
> simplilearn
> SportyShoes

LoginFunctionalityTest.java BaseTest.java SeleniumGrid.java X
1 package mphasis.DemoWebShop;
2
3
4 import java.net.URL;
5
6 import org.openqa.selenium.Platform;
7 import org.openqa.selenium.WebDriver;
8 import org.openqa.selenium.remote.DesiredCapabilities;
9 import org.openqa.selenium.remote.RemoteWebDriver;
10 import org.testng.annotations.BeforeTest;
11 import org.testng.annotations.Test;
12
13 Run All
14 public class SeleniumGrid {
15
16     WebDriver d;
17
18     @Test
19     Run | Debug
20     public void f() {
21         d.get("https://www.google.com/");
22     }
23
24     @BeforeTest
25     @SuppressWarnings("deprecation")
26     public void setup() {
27         URL u;
28         DesiredCapabilities cap = new DesiredCapabilities();
29         cap.setBrowserName("chrome");
30         cap.setPlatform(Platform.WINDOWS);
31         try {
32             u = new URL("http://192.168.52.2:4444/wd/hub");
33         } catch (Exception e) {
34             u=null;
35             e.printStackTrace();
36         }
37         d = new RemoteWebDriver(u, cap);
38     }
39
40 }
41
42
```