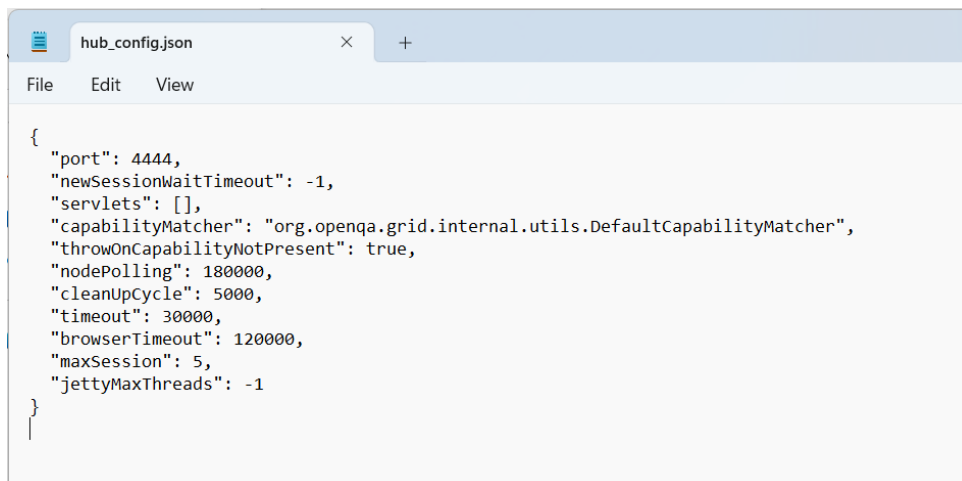


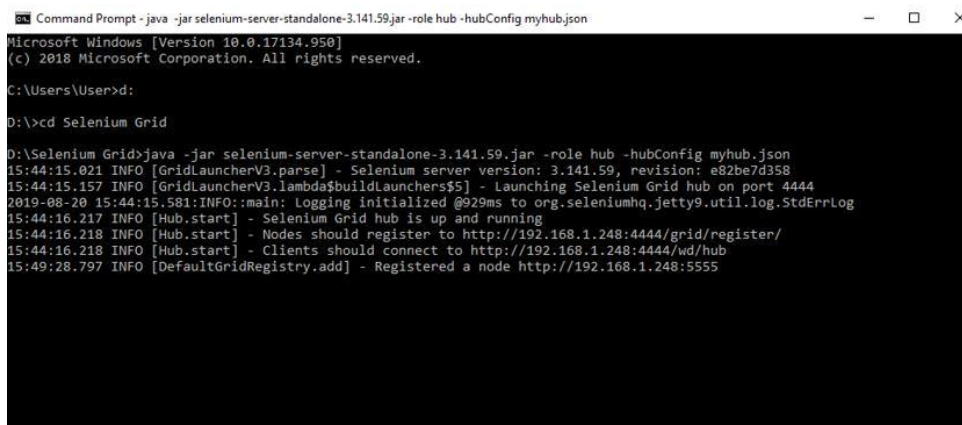
## 2.6 Grid Configuration Using JSON

### Hub\_config.json



```
{
  "port": 4444,
  "newSessionWaitTimeout": -1,
  "servlets": [],
  "capabilityMatcher": "org.openqa.grid.internal.utils.DefaultCapabilityMatcher",
  "throwOnCapabilityNotPresent": true,
  "nodePolling": 180000,
  "cleanupCycle": 5000,
  "timeout": 30000,
  "browserTimeout": 120000,
  "maxSession": 5,
  "jettyMaxThreads": -1
}
```

### Java -jar selenium-server-standalone-3.141.59.jar -role hub -hubConfig Hub\_config.json



```
Command Prompt - java -jar selenium-server-standalone-3.141.59.jar -role hub -hubConfig myhub.json
Microsoft Windows [Version 10.0.17134.950]
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C:\Users\User>cd Selenium Grid

D:\Selenium Grid>java -jar selenium-server-standalone-3.141.59.jar -role hub -hubConfig myhub.json
15:44:15.021 INFO [GridLauncherV3.parse] - Selenium server version: 3.141.59, revision: e82be7d358
15:44:15.157 INFO [GridLauncherV3.lambda$buildLaunchers$5] - Launching Selenium Grid hub on port 4444
2019-08-20 15:44:15.581:INFO:main: Logging initialized @929ms to org.seleniumhq.jetty9.util.log.StdErrLog
15:44:16.217 INFO [Hub.start] - Selenium Grid hub is up and running
15:44:16.218 INFO [Hub.start] - Nodes should register to http://192.168.1.248:4444/grid/register/
15:44:16.218 INFO [Hub.start] - Clients should connect to http://192.168.1.248:4444/wd/hub
15:49:28.797 INFO [DefaultGridRegistry.add] - Registered a node http://192.168.1.248:5555
```

## Mynodes.json

```
{
  "capabilities": [
    {
      "browserName": "firefox",
      "maxInstances": 5,
      "seleniumProtocol": "WebDriver"
    },
    {
      "browserName": "chrome",
      "maxInstances": 5,
      "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="geckodriver.exe" -  
Dwebdriver.chrome.driver="chromedriver.exe" -jar selenium-server-  
standalone-3.141.59.jar -role node -nodeConfig mynodes.json**

```
Microsoft Windows [Version 10.0.17134.950]
(c) 2018 Microsoft Corporation. All rights reserved.

C:\Users\User>cd Selenium Grid

D:\Selenium Grid>java -Dwebdriver.gecko.driver="geckodriver.exe" -Dwebdriver.chrome.driver="chromedriver.exe" -jar selenium-server-standalone-3.141.59.jar -role node -nodeConfig mynodes.json
16:05:36.650 INFO [GridLauncherV3.parse] - Selenium server version: 3.141.59, revision: e82be7d358
16:05:36.809 INFO [GridLauncherV3.lambda$buildLaunchers$7] - Launching a Selenium Grid node on port 5555
16:05:37.511 INFO [main:main] - Logging initialized @1177ms to org.openqa.selenium.grid.jetty9.util.log.StderrLog
16:05:37.856 INFO [WebDriversServlet.<init>] - Initialising WebDriverServlet
16:05:37.959 INFO [SeleniumServer.boot] - Selenium Server is up and running on port 5555
16:05:37.959 INFO [GridLauncherV3.lambda$buildLaunchers$7] - Selenium Grid node is up and ready to register to the hub
16:05:38.225 INFO [SelfRegisteringRemote$1.run] - Starting auto registration thread. Will try to register every 5000 ms.
16:05:38.769 INFO [SelfRegisteringRemote.registerToHub] - Registering the node to the hub: http://localhost:4444/grid/register
16:05:38.992 INFO [SelfRegisteringRemote.registerToHub] - The node is registered to the hub and ready to use
```

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

The screenshot displays the Selenium Grid console interface in a web browser. The browser's address bar shows the URL `localhost:4444/ui/#`. The page header includes the Selenium logo and the text "Selenium Grid 4.10.0 (revision c14d967899)". A left sidebar contains navigation links: "Overview", "Sessions", and "Help". The main content area shows a single node configuration with the following details:

- URL: `http://192.168.0.102:5555`
- Stereotypes: A list of browser and platform stereotypes, including "Windows" and "Chrome".
- Sessions: 0
- Max. Concurrency: 4
- A progress bar at the bottom of the node card shows 0% completion.

At the bottom of the page, a small footer reads: "Helix - All rights reserved - Software Freedom Foundation 2023."