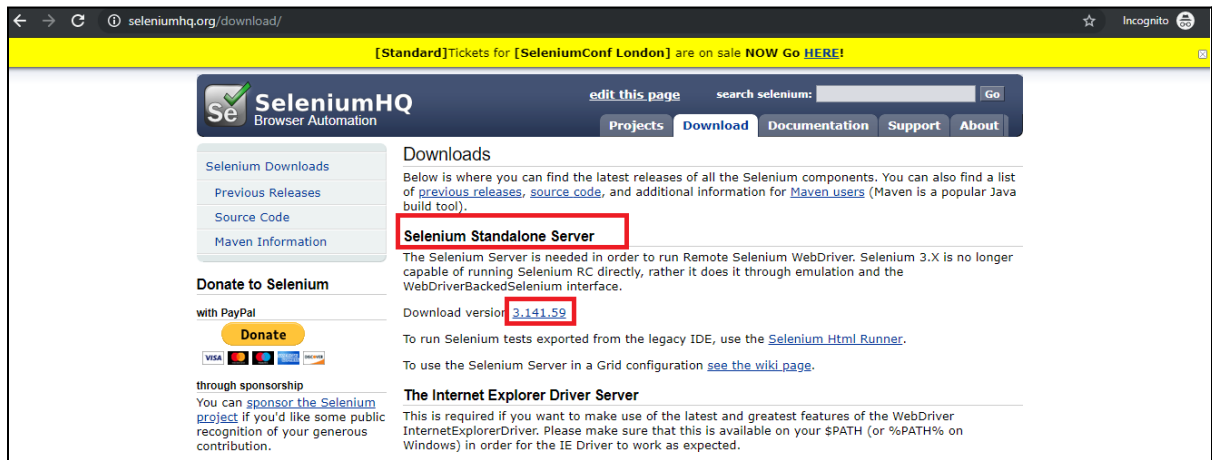


12. Set Up Selenium Grid

1. Setting up Selenium Grid hub

- a. Download Selenium standalone Server jar file from <https://www.seleniumhq.org/download/> link



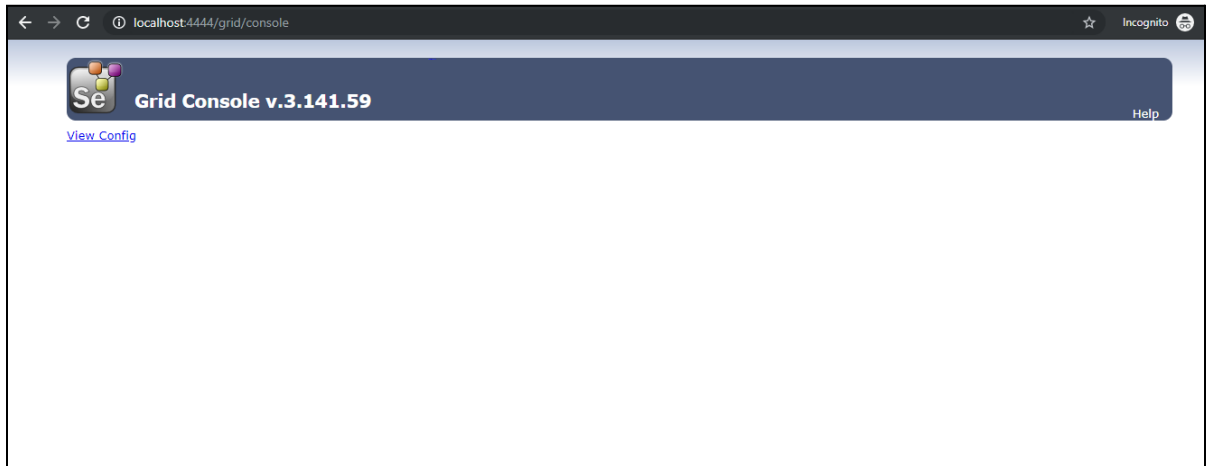
- b. Save it in a folder
- c. Go to command prompt
- d. Navigate to folder structure where you have saved the Selenium standalone Server jar file
- e. Type the below command in command prompt

Java -jar selenium-server-standalone-3.141.59.jar -role hub and click on **Enter** button

```
Command Prompt - java -jar selenium-server-standalone-3.141.59.jar -role hub
D:\Selenium Grid>java -jar selenium-server-standalone-3.141.59.jar -role hub
17:34:07.632 INFO [GridLauncherV3.parse] - Selenium server version: 3.141.59, revision: e82be7d358
17:34:07.769 INFO [GridLauncherV3.lambda$buildLaunchers$5] - Launching Selenium Grid hub on port 4444
2019-08-19 17:34:08.209:INFO::main: Logging initialized @897ms to org.seleniumhq.jetty9.util.log.StdErrLog
17:34:08.841 INFO [Hub.start] - Selenium Grid hub is up and running
17:34:08.842 INFO [Hub.start] - Nodes should register to http://192.168.1.248:4444/grid/register/
17:34:08.843 INFO [Hub.start] - Clients should connect to http://192.168.1.248:4444/wd/hub
```

- f. Open the Chrome browser

- g. Enter URL as **http://localhost:4444/grid/console** and click on **Enter**
- h. Grid console page is loaded as below



2. Setting up the Selenium Grid Nodes

- a. Once the Selenium Grid Hub is set up, the next step is to set up Selenium Grid nodes.
- b. Open the new command prompt
- c. Navigate to the folder structure where you have saved the Selenium standalone server jar file
- d. Type the below command in command prompt

java -jar selenium-server-standalone-3.141.59.jar -role node -hub
http://localhost:4444/grid/register and click on **Enter** button, which looks like

```
Command Prompt - java -jar selenium-server-standalone-3.141.59.jar -role node -hub http://localhost:4444/grid/register
Microsoft Windows [Version 10.0.17134.950]
(c) 2018 Microsoft Corporation. All rights reserved.

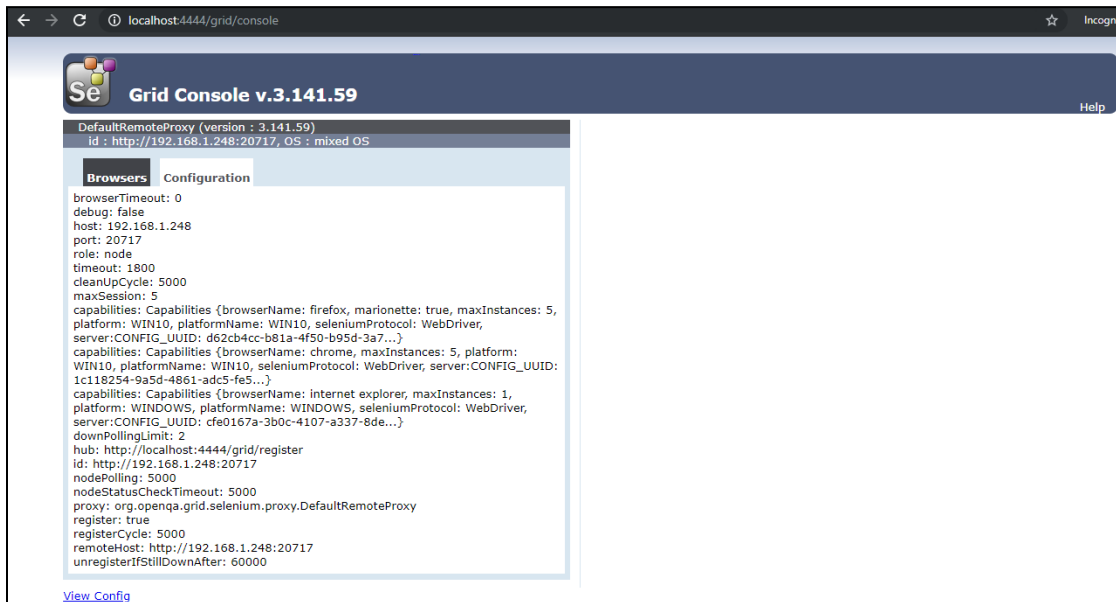
C:\Users\User>cd Selenium Grid

D:\Selenium Grid>java -jar selenium-server-standalone-3.141.59.jar -role node -hub http://localhost:4444/grid/register
17:54:25.329 INFO [GridLauncherV3.parse] - Selenium server version: 3.141.59, revision: e82be7d358
17:54:25.499 INFO [GridLauncherV3.lambda$buildLaunchers$7] - Launching a Selenium Grid node on port 20717
2019-08-19 17:54:26.247:INFO::main: Logging initialized @1328ms to org.seleniumhq.jetty9.util.log.StdErrLog
17:54:26.566 INFO [WebDriverServlet.<init>] - Initialising WebDriverServlet
17:54:26.655 INFO [SeleniumServer.boot] - Selenium Server is up and running on port 20717
17:54:26.656 INFO [GridLauncherV3.lambda$buildLaunchers$7] - Selenium Grid node is up and ready to register to the hub
17:54:26.939 INFO [SelfRegisteringRemote$1.run] - Starting auto registration thread. Will try to register every 5000 ms.
17:54:30.868 INFO [SelfRegisteringRemote.registerToHub] - Registering the node to the hub: http://localhost:4444/grid/register
17:54:31.159 INFO [SelfRegisteringRemote.registerToHub] - The node is registered to the hub and ready to use
```

- e. Open the browser
- f. Enter URL as **http://localhost:4444/grid/console** and click on **Enter**
- g. Grid console page is loaded below, which shows **Browsers** by default



- h. Click on **Configuration**, which shows Configuration details



Pushing the code to your GitHub repositories : -

- Open your folder where the Project . And then click the right button to open the git bash command prompt.
- Before that, open the github and create a new repository.
- Initialize your repository using the following command:

git init

- Add all the files to your git repository using the following command:

git add .

- To check the status of the repository use the below command:

git status

- Commit the changes using the following command:

`git commit . -m "Changes have been committed."`

- To add the files to the repository use the (URL) from the github and use the command;

`git remote add origin <url>`

- Push the files to the folder you initially created using the following command:

`git push origin master.`