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Selenium hub is a part of the Selenium Suite that specializes in running multiple tests across different browsers, operating systems, and machines in parallel.

It is achieved by routing the commands of remote browser instances where a server acts as a hub. A user needs to configure the remote server in order to execute the tests.

Selenium Grid uses a hub-node concept where you only run the test on a single machine called a hub, but the execution will be done by different machines called nodes.

Github Link: <https://github.com/Mayuri12G/Selenium-Hub-Grid-on-Docker-Compose>

Steps:

firstly create docker-compose.yaml file.

After that install docker-compose and run below command

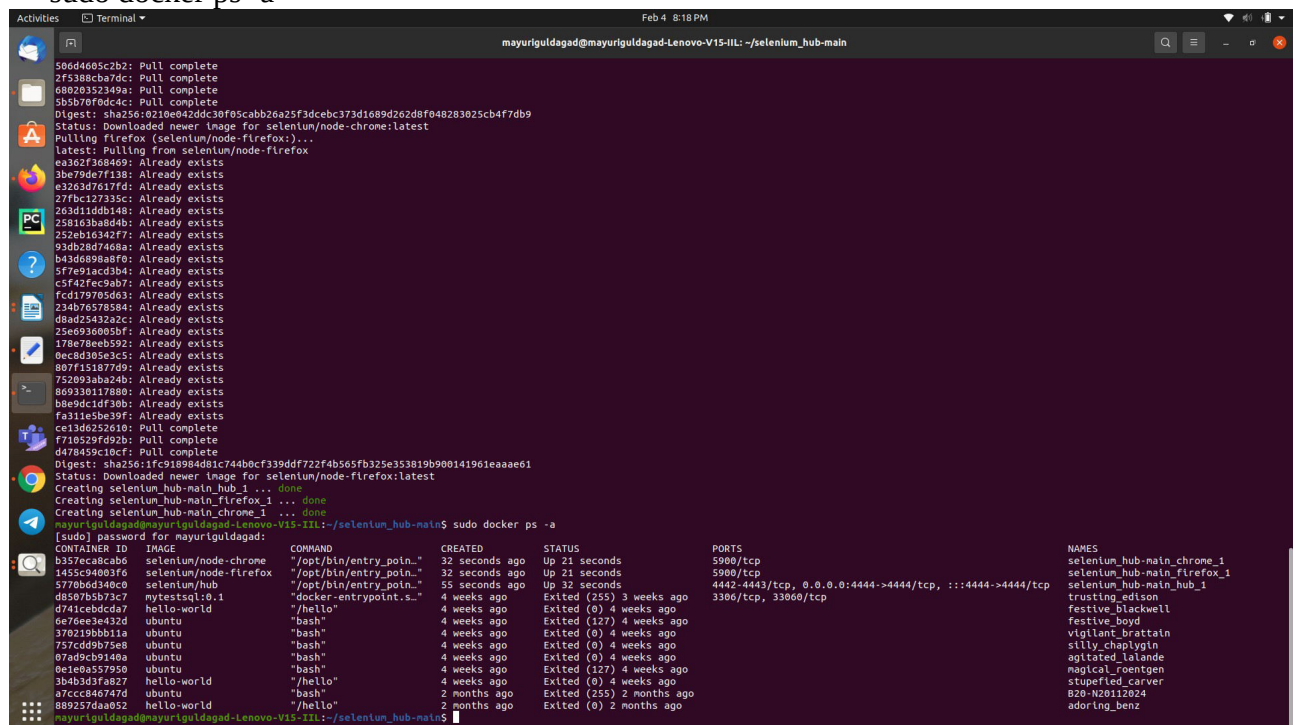
`sudo docker-compose up -d`

This command aggregates the output of each container.

When command exit containers are stopped.

After that run

`sudo docker ps -a`



```
CONTAINER ID        IMAGE               COMMAND                  CREATED        STATUS        PORTS                               NAMES
b357feca8c6b       selenium/node-chrome "/opt/bin/entry_poi..." 32 seconds ago Up 21 seconds 5980/tcp                          selenium_hub-main_chrome_1
1455c94003f6       selenium/node-firefox "/opt/bin/entry_poi..." 32 seconds ago Up 21 seconds 5980/tcp                          selenium_hub-main_firefox_1
5770b6d34dc0       selenium/hub        "docker-entrypoint.s..." 55 seconds ago Up 32 seconds 4442-4443/tcp, 0.0.0.0:4444->4444/tcp, :::4444->4444/tcp selenium_hub-main_hub_1
d85875b573c7       mytestsql:0.1      "hello-world"           4 weeks ago   Exited (255) 3 weeks ago 3306/tcp, 33060/tcp              trusting_edison
d141ee9dc677       ubuntu             "bash"                   4 weeks ago   Exited (127) 4 weeks ago                               festive_blackwell
6e76ee3e432d       ubuntu             "bash"                   4 weeks ago   Exited (0) 4 weeks ago                               vigilant_brattain
370219bbb11a       ubuntu             "bash"                   4 weeks ago   Exited (0) 4 weeks ago                               stilly_chaplygin
07d0dc8914ba       ubuntu             "bash"                   4 weeks ago   Exited (0) 4 weeks ago                               agitated_lalande
0e1e0a557959       ubuntu             "bash"                   4 weeks ago   Exited (127) 4 weeks ago                               magical_roentgen
3b4b3d3fa827       hello-world        "/hello"                 4 weeks ago   Exited (0) 4 weeks ago                               stupefied_carver
a7ccc846747d       ubuntu             "bash"                   2 months ago   Exited (255) 2 months ago                               B20-N20112024
8892576a0852       hello-world        "/hello"                 2 months ago   Exited (0) 2 months ago                               adoring_benz
```

Is it good practice to use the Selenium Hub/Grid in software testing?

Using a selenium grid for performance testing gives you the advantage of being able to easily and quickly implement performance of the tests into your continuous testing environment familiar selenium tests as performance tests.

The Selenium testing tool is used to automate tests across browsers for web applications.

It's used to ensure high-quality web applications whether they are responsive, progressive, or regular.

Selenium is an open-source tool.

Testers use Selenium because it is easy to generate test scripts to validate functionality.

So, according to me it is good choice to use Selenium Hub/Grid for software testing.