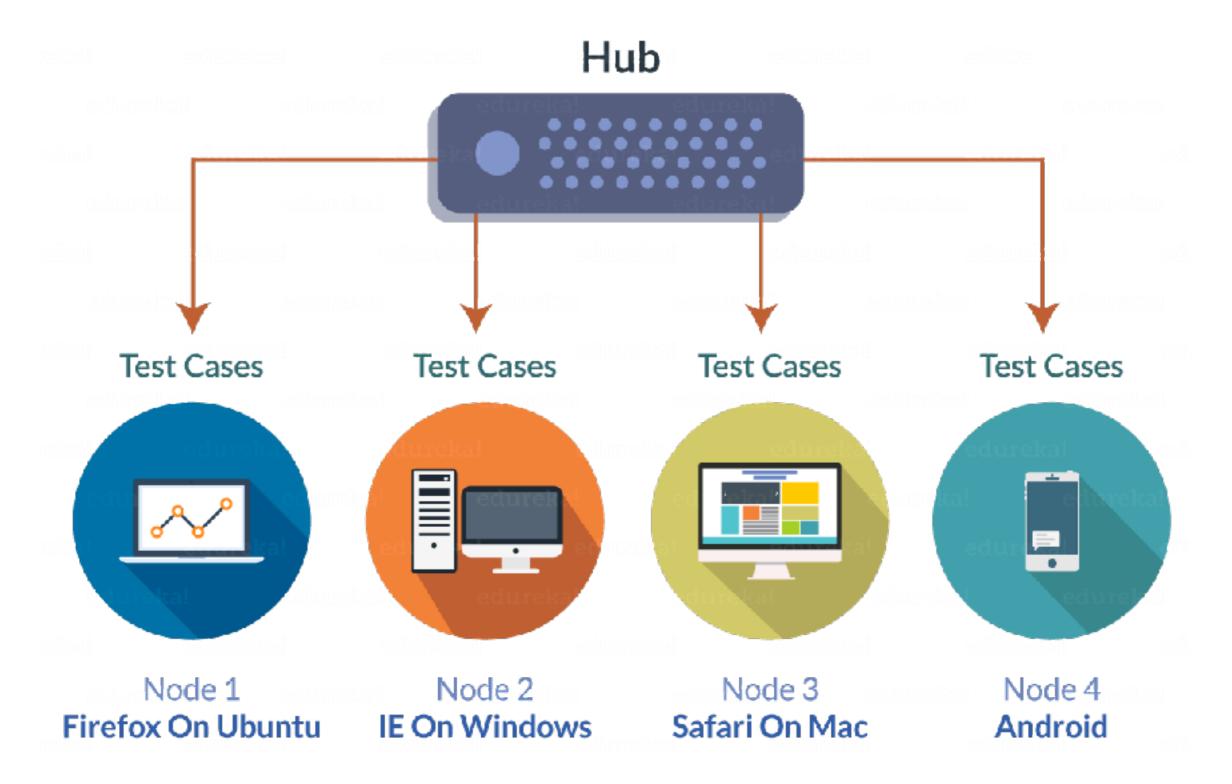




Agenda

- 1. Concept of Selenium Grid
- 2. Workshop
- 3. Workshop with Docker
- 4. Workshop with Docker compose







Scale by distributed testing on several machine
Parallel execution
Manage multiple environments in central point
Easy to run tests against a many combination
of OS and Browser

Minimize the maintenance time



Download latest version

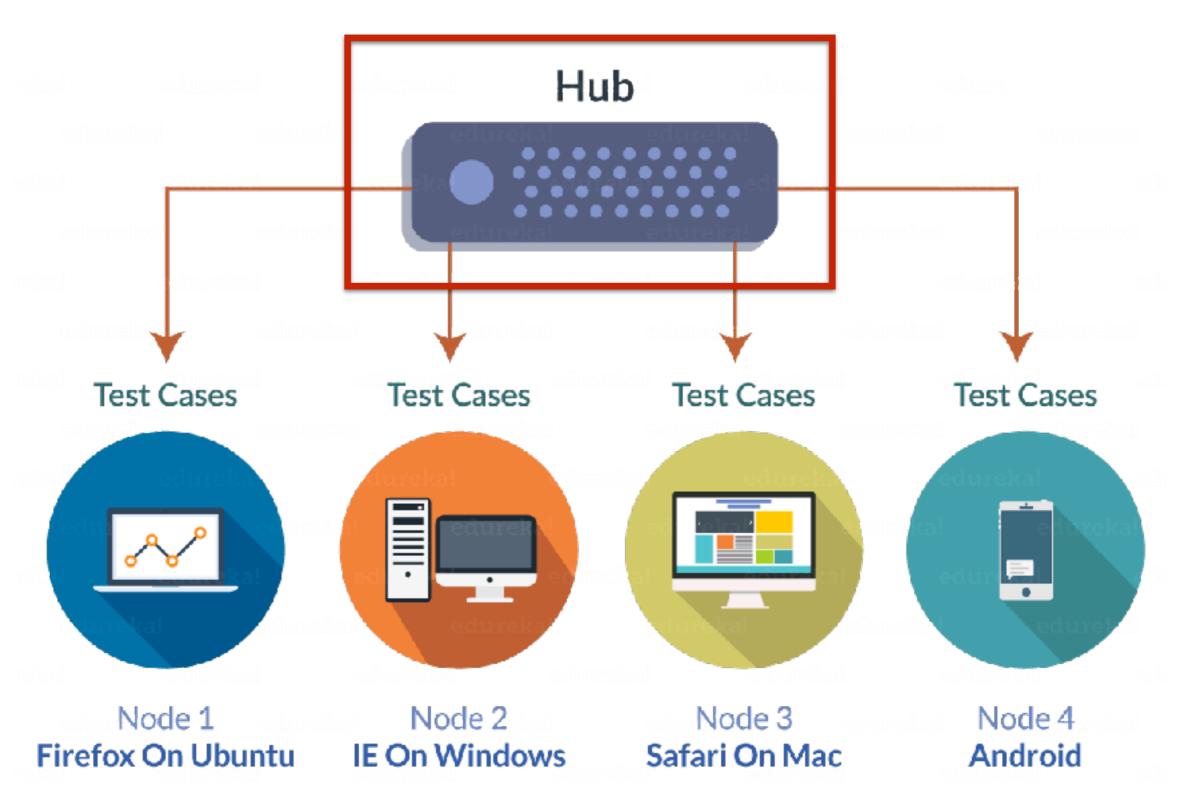
http://selenium-release.storage.googleapis.com/ index.html

← → C ① selenium-release.storage.googleapis.com/index.html?path=3.9/

Index of /3.9/

| | <u>Name</u> | Last modified | Size | ETag |
|--|---------------------------------------|---------------------|---------|----------------------------------|
| | Parent Directory | | - | |
| 01 01 | selenium-java-3.9.0.zip | 2018-02-05 14:57:34 | 8.43MB | 7e9a0002b8e28074f52bcfe7a239f2ca |
| 10 | IEDriverServer_Win32_3.9.0.zip | 2018-02-05 17:44:30 | 0.94MB | c7d7743b24cb897c8565839cec22ca83 |
| 10 91 10 | selenium-dotnet-3.9.0.zip | 2018-02-05 17:44:32 | 4.47MB | 997e2db93d50be64d58ba374fd1b1819 |
| 10 01 10 | selenium-dotnet-strongnamed-3.9.0.zip | 2018-02-05 17:44:32 | 4.48MB | debcfeaa4149cdb4d92f580844acd158 |
| 10 S 01 10 | selenium-html-runner-3.9.0.jar | 2018-02-05 14:57:45 | 14.23MB | 74923c40144ce876b60412018acd1054 |
| 100 100 100 100 100 100 100 100 100 100 | selenium-html-runner-3.9.1.jar | 2018-02-07 22:43:43 | 14.23MB | bddf0e5bedcd9afc2f3829225fa5ef9b |
| 10 L | IEDriverServer_x64_3.9.0.zip | 2018-02-05 17:44:31 | 1.08MB | 5cff5e4d62b13876c0b2cd9b7bd4a2b3 |
| 91 91 | selenium-java-3.9.1.zip | 2018-02-07 22:43:32 | 8.43MB | 1fcd99a0df0a537002d99e28db6cf596 |
| 10 L | selenium-server-3.9.0.zip | 2018-02-05 14:57:28 | 21.05MB | d6blcc14a0369cd2f5974757bc7f656b |
| 10 | selenium-server-3.9.1.zip | 2018-02-07 22:43:25 | 21.05MB | 0825e089662edcb27ec5ee30ef05d152 |
| 91 10 | selenium-server-standalone-3.9.0.jar | 2018-02-05 14:57:12 | 22.34MB | 306a475b6f1d540969416cdf11cd7361 |
| 10 01 10 | selenium-server-standalone-3.9.1.jar | 2018-02-07 22:43:10 | 22.34MB | eee40b2683858fd7091bf8b5481f306f |
| _ | | | | |







Start Hub

\$java -jar selenium-server-standalone-3.9.1.jar

-role hub

-host localhost

```
656:INFO:osjs.Server:main: jetty-9.4.7.v20170914, build timestar 37+07:00, git hash: 82b8fb23f757335bb3329d540ce37a2a2615f0a8 703:INFO:osjs.session:main: DefaultSessionIdManager workerName=r 703:INFO:osjs.session:main: No SessionScavenger set, using defaur 712:INFO:osjs.session:main: Scavenging every 600000ms 729:INFO:osjsh.ContextHandler:main: Started o.s.j.s.ServletContextull,AVAILABLE} 915:INFO:osjs.AbstractConnector:main: Started ServerConnector@12.0/1.1]}{0.0.0.0:4444} 922:INFO:osjs.Server:main: Started @1884ms Selenium Grid hub is up and running Nodes should register to http://localhost:4444/grid/register/Clients should connect to http://localhost:4444/wd/hub
```



Selenium Grid page

http://localhost:4444



Selenium Grid Hub v.3.9.1

Whoops! The URL specified routes to this help page.

For more information about Selenium Grid Hub please see the <u>docs</u> and/or visit the <u>wiki</u>. Or perhaps you are looking for the Selenium Grid Hub <u>console</u>.

Happy Testing!

Selenium is made possible through the efforts of our open source community, contributions from these <u>people</u>, and our <u>sponsors</u>.



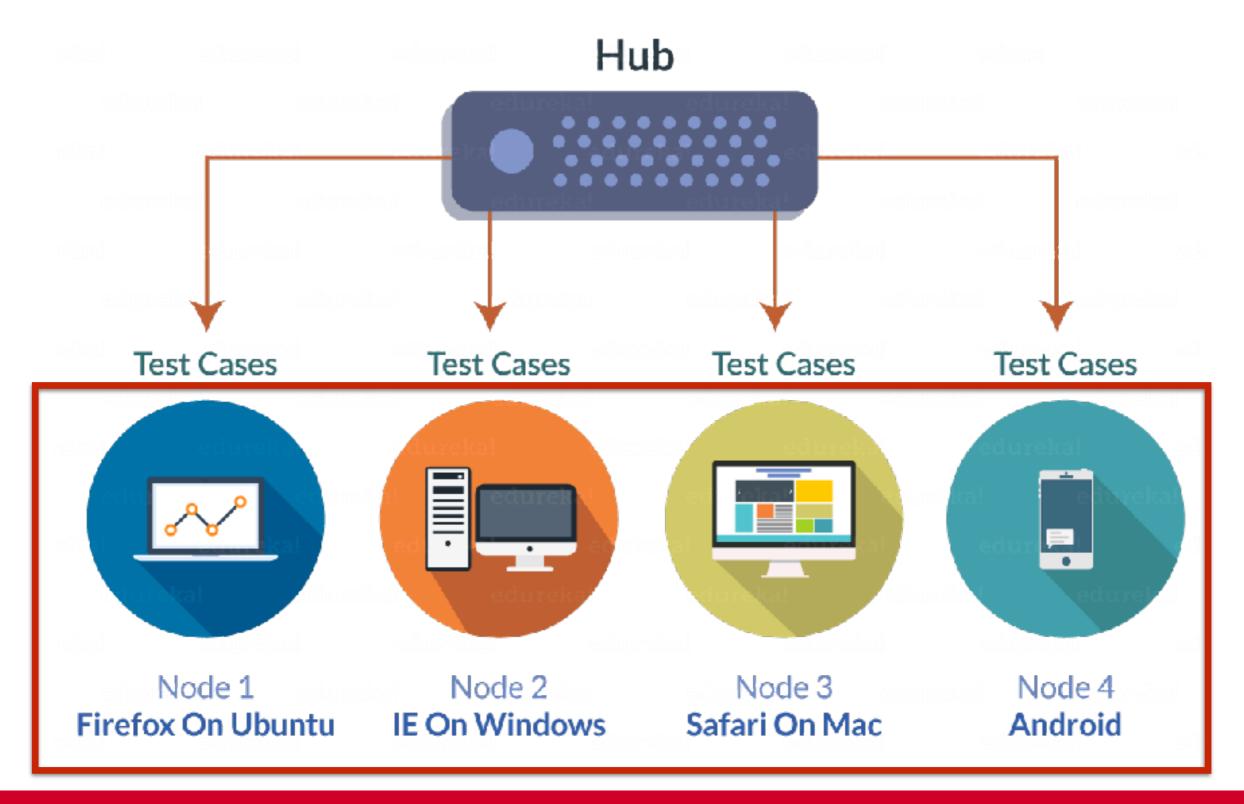
Grid console page

http://localhost:4444/grid/console



view config







Must prepare your node before starting eg. GoogleChrome Driver



java -jar selenium-server-standalone-3.9.1.jar
-role node
-hub http://localhost:4444/grid/register
-host localhost

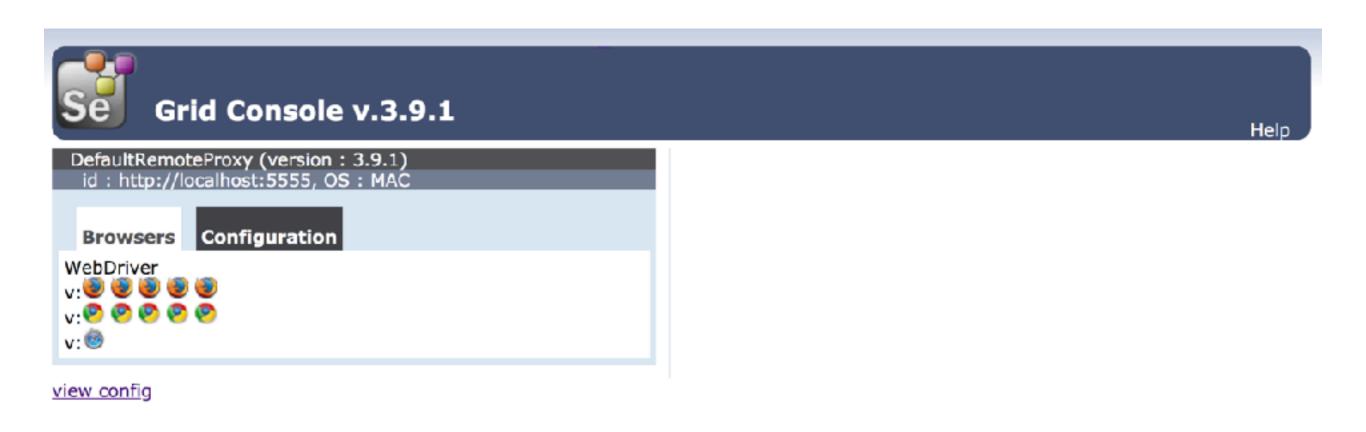


```
Selenium build info: version: '3.9.1', revision: '63f7b50'
Launching a Selenium Grid node on port 5555
.412:INFO::main: Logging initialized @834ms to org.seleniumhq.jetty9.uti
.563:INFO:osjs.Server:main: jetty-9.4.7.v20170914, build timestamp: 2017
00, git hash: 82b8fb23f757335bb3329d540ce37a2a2615f0a8
.592:WARN:osjs.SecurityHandler:main: ServletContext@o.s.j.s.ServletConte
/,null,STARTING} has uncovered http methods for path: /
.607:INFO:osjsh.ContextHandler:main: Started o.s.j.s.ServletContextHandl
AVAILABLE}
.645:INFO:osjs.AbstractConnector:main: Started ServerConnector@538b01f1{
}{0.0.0.0:5555}
.647:INFO:osis.Server:main: Started @1069ms
Selenium Server is up and running on port 5555
Selenium Grid node is up and ready to register to the hub
Starting auto registration thread. Will try to register every 5000 ms.
Registering the node to the hub: http://localhost:4444/grid/register
Updating the node configuration from the hub
 The node is registered to the hub and ready to use
```



Grid console page

http://localhost:4444/grid/console





Use from Robotframework

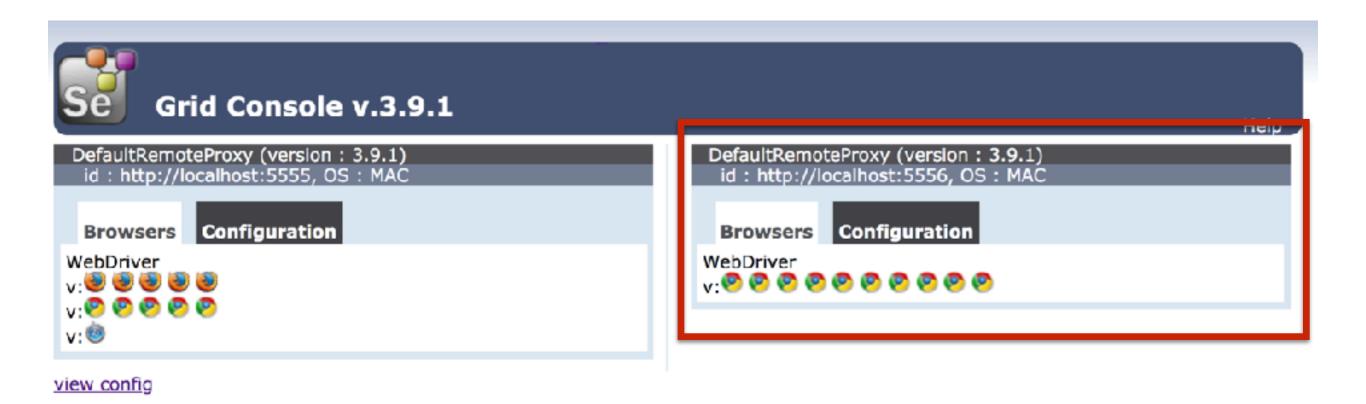
```
เข้าหน้า login
Open Browser <a href="http://localhost:8082/demo/">http://localhost:8082/demo/</a>
... browser=chrome
... remote_url=<a href="http://localhost:4444/wd/hub">http://localhost:4444/wd/hub</a>
... desired_capabilities=browserName:chrome,platform:MAC,platformName:MAC
```



Try to configuration nodes



Node with Google chrome only





Node Configuration

file name = node_chrome.json

```
"capabilities":
      "browserName": "chrome",
            "maxInstances": 10,
            "seleniumProtocol": "WebDriver"
```



java -jar selenium-server-standalone-3.9.1.jar -role node -hub http://localhost:4444/grid/register -host localhost -nodeConfig node_chrome.json -port 5556



Try it by yourself

