**Different ways to specify the configuration**

There are two ways to specify the configuration parameter to the Selenium Grid's hub and node. The first one is what we have been seeing all this time; that is, specifying the configuration parameters over the command line. The second way of doing it is providing a JSON file that contains all these configuration parameters.

A node configuration file (say nodeConfig.json)—a typical JSON file having all the configuration parameters—looks something similar to the following:

{

"capabilities":

[

{

"browserName": "\*firefox",

"maxInstances": 5,

"seleniumProtocol": "Selenium"

},

{

"browserName": "\*googlechrome",

"maxInstances": 5,

"seleniumProtocol": "Selenium"

},

{

"browserName": "\*iexplore",

"maxInstances": 1,

"seleniumProtocol": "Selenium"

},

{

"browserName": "firefox",

"maxInstances": 5,

"seleniumProtocol": "WebDriver"

},

{

"browserName": "chrome",

"maxInstances": 5,

"seleniumProtocol": "WebDriver"

},

{

"browserName": "internet explorer",

"maxInstances": 1,

"seleniumProtocol": "WebDriver"

}

],

"configuration":

{

"proxy": "org.openqa.grid.selenium.proxy.DefaultRemoteProxy",

"maxSession": 5,

"port": 5555,

"host": ip,

"register": true,

"registerCycle": 5000,

"hubPort": 4444,

"hubHost": ip

}

}

Similarly, a hub configuration file (hubConfig.json) looks as follows:

{

"host": null,

"port": 4444,

"newSessionWaitTimeout": -1,

"servlets" : [],

"prioritizer": null,

"capabilityMatcher": "org.openqa.grid.internal.utils.DefaultCapabilityMatcher",

"throwOnCapabilityNotPresent": true,

"nodePolling": 5000,

"cleanUpCycle": 5000,

"timeout": 300000,

"browserTimeout": 0,

"maxSession": 5

}

Once these files are configured, they can be provided to the node and hub using the following command:

**java -jar selenium-server-standalone.jar -role node -nodeConfig nodeconfig.json**

**java -jar selenium-server-standalone.jar -role hub -hubConfig hubconfig.json**

This way, you can specify the configuration of your hub and node using JSON files.