**Integrating Selenium tests with JMeter:**

Performance test: need to know **page rendering time** (not the only response time) using JMeter.

When we do load test we get user response times including page rendering time.

[ JMeter is not a real browser, so the reported response times do not include page rendering

**Response time**: HTTP request and HTTP response (200 ok)

**Page Rendering time**: includes repose time till the whole page is loaded on client Desktop/Machine).

Solutions:

* Selenium WebDriver to interact with Firefox.
* JMeter WebDriver Sample to call Selenium for JMeter.

Steps:

* First need to download Plugins Manager, it is a .jar file and place in lib/ext folder of Jmeter S

<https://jmeter-plugins.org/wiki/PluginsManager/>

* Options > Plugins Manager > Available plugins > select Selenium /WebDriver Support> apply and restart.
* Add > Config Element > HTTP Cookies Manager, Config Element > jp@gc – Firefox Driver Config, Sampler > jp@gc WebDriver Sample, Listener > View Summary report.

JMeter components

* Test Plan -- > (JMeter script)
* Thread Group -- > (thread =user)
* Samplers -- > (make a request)
* Config Elements
* Timer -- > (add a delay)
* Listener -- > (reporting, logging and debugging)
* Assertions -- > (error checking)
* Pre processors -- > (modify the request)
* Post processor -- > (parse the request)
* Logic Controller
* WorkBench -- > (temp working space)

JMeter and Jenkins:

* Basic load tests should be part of early stages of Continuous Integration.
* To find out the changes had a bad influence on the performance.
* Make sure we have the performance plugin installed in Jenkins.
* Go to /bin/user.properties and add the following to visualize the performance trned.

#jmeter.save.saveservices.output\_format=xml