

## OMSE-535 Assignment 2 (Load test-Jmeter)

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Submit a description of the System Under test, submit the scripts you used and the results for a 2 or more user load test.

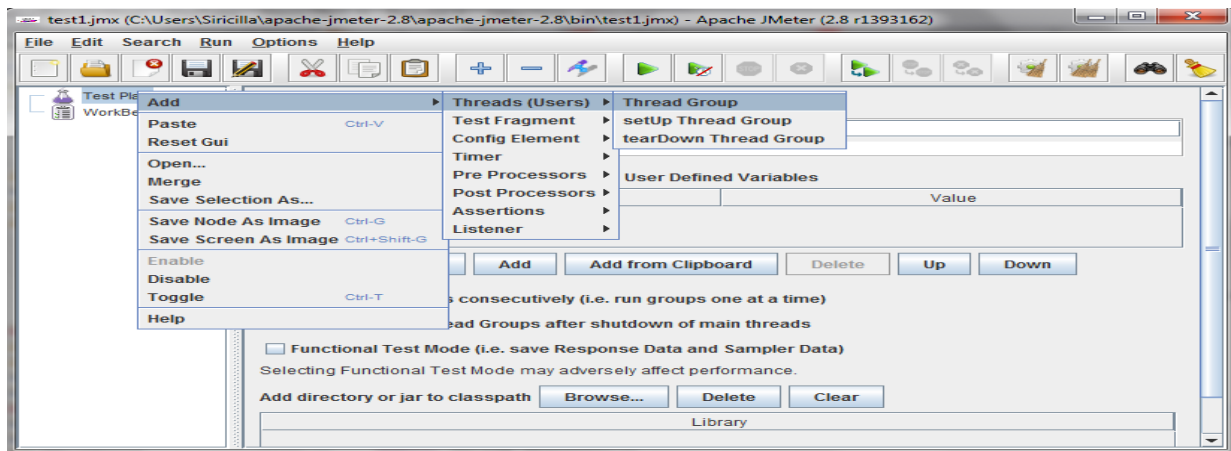
The following test plan describes the system that *Jmeter* will take to perform the testing

### Description of the system under test:

The test plan does the stress testing of a “d2l.pdx.edu” website with a load of 100 requests at the same time.

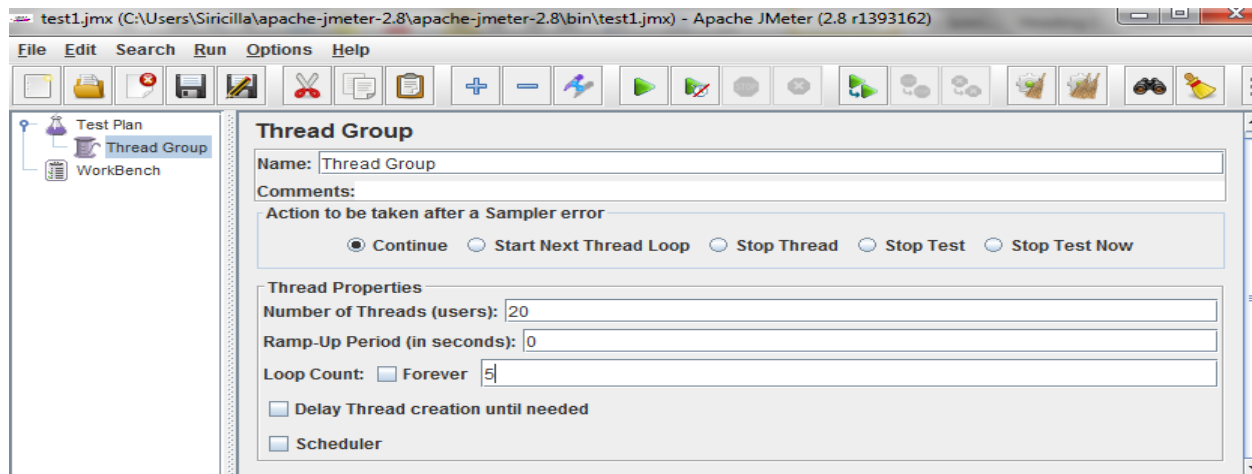
### Implementation of the test plan:

Created a thread group. It is used to control the threads that will be created by Jmeter to simulate simultaneous users.

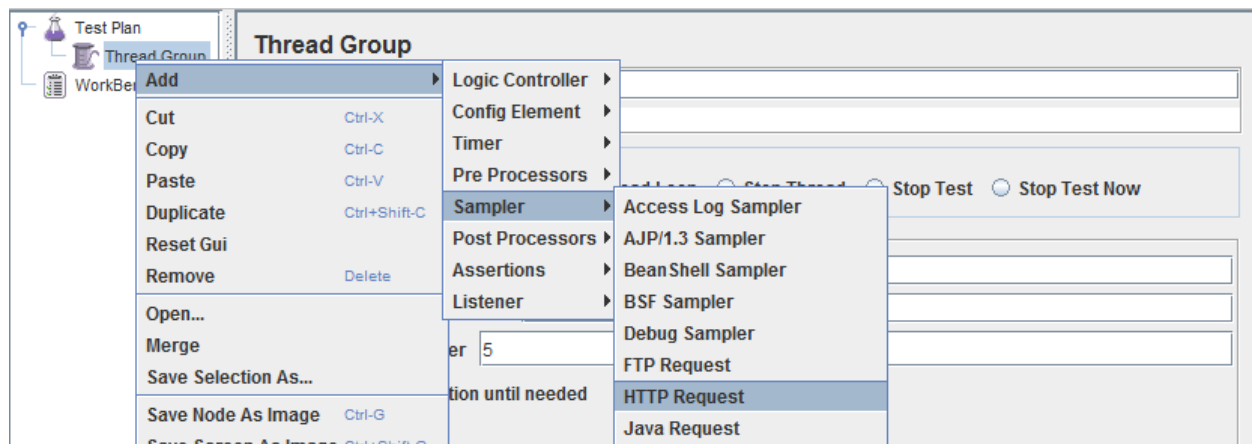


Assigned 20 in *Number of Threads(users)* , set the *Ramp Up Period* to 0 which creates all the threads at once and kept the *Loop Count* to 5(repeat the test 5 times).

This test plan generates a load of 100 requests to website.



Added the *HTTP Request* page, which is used to hit the web application

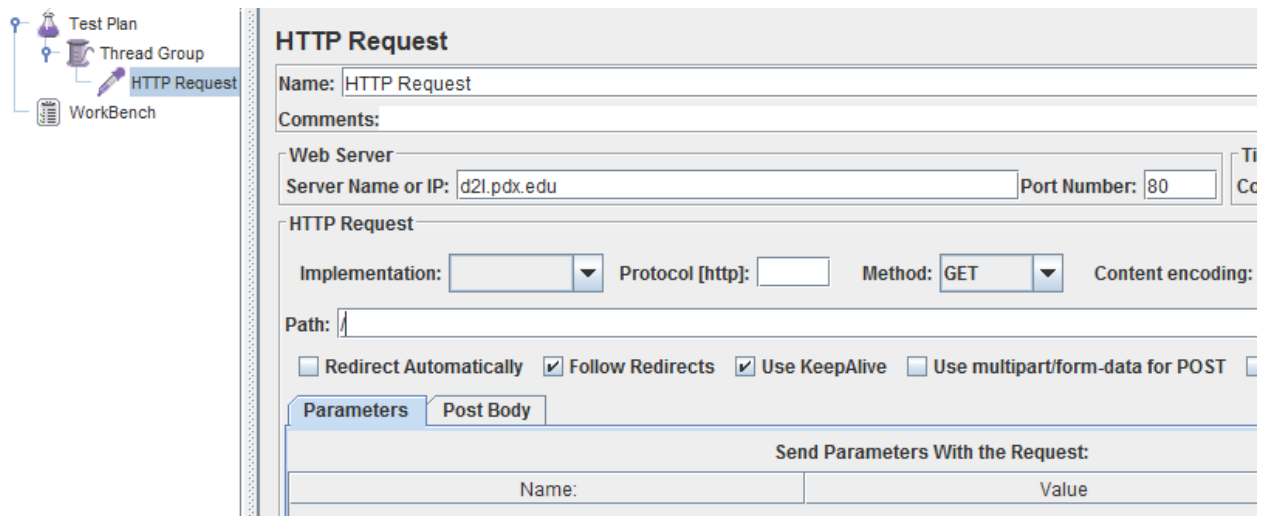


Configured the *HTTP Request* page as below

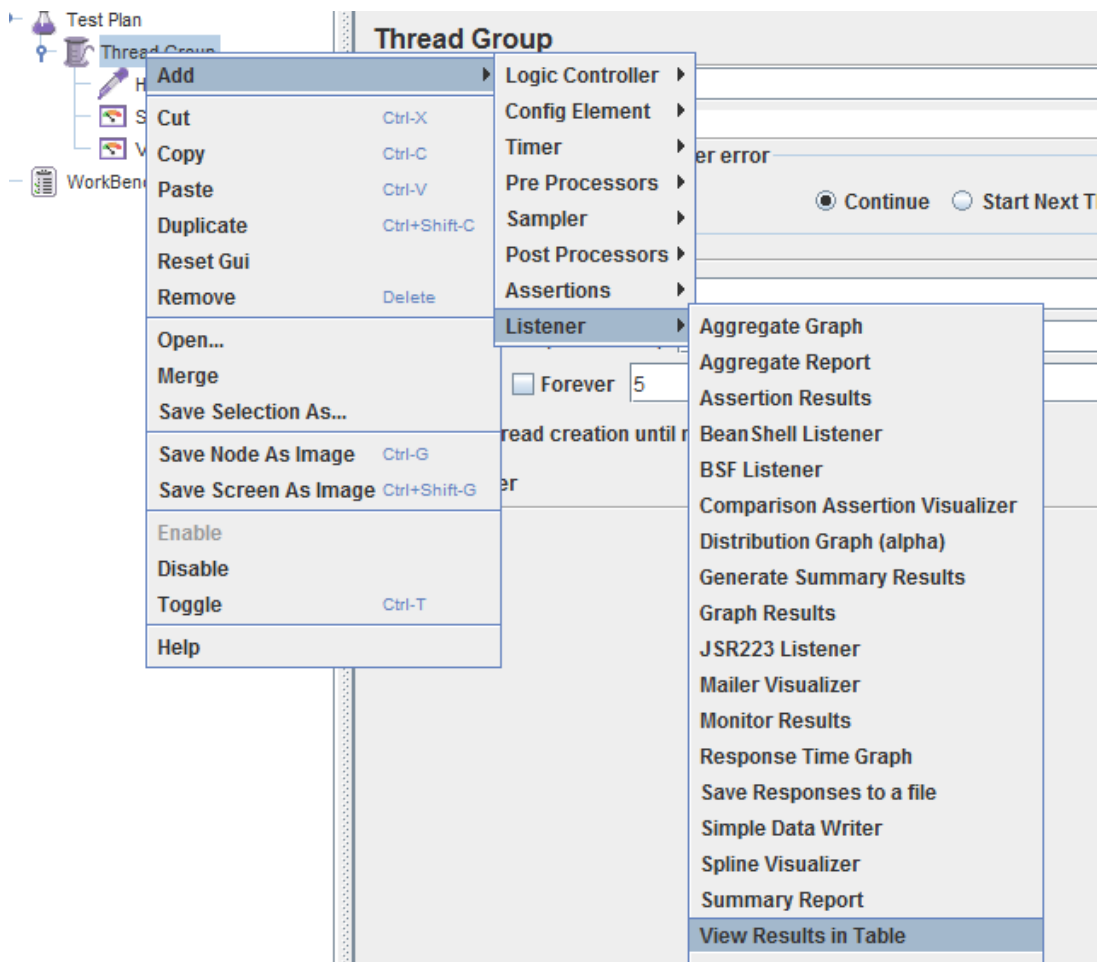
*Server Name* – *d2l.pdx.edu* [server name of the application being tested]

*Port number* – *80* [port number used by the application]

*Path* - */* [path to the resource tha twill handle the request]



Listener gathers the data as the test runs. Used to view results in table/graphs or export data into files.



And Run the test.

## Results:

The results of the test shows a total of 100 requests are executed, with a minimum response time of 184ms and maximum response time of 1936ms. An average response time of 467ms per request with a throughput of 26.8 requests per second. The test didn't show any errors (failed assertions).

## Summary Report:

The screenshot shows the 'Summary Report' window in Apache JMeter. The left sidebar contains a tree view with 'Test Plan', 'Thread Group', 'HTTP Request', 'View Results in Table', 'Summary Report', and 'WorkBench'. The main panel is titled 'Summary Report' and contains a 'Name' field with the value 'Summary Report' and a 'Comments' field. Below these is a section for 'Write results to file / Read from file' with a 'Filename' field, a 'Browse...' button, and checkboxes for 'Log/Display Only: Errors' and 'Successes'. A 'Configure' button is also present. The main area displays a table with the following data:

Label	# Samples	Average	Min	Max	Std. Dev	Error %	Throughput	KB/sec	Avg. Bytes
HTTP Request	100	467	184	1936	404.48	0.00%	26.8/sec	408.08	15620.0
TOTAL	100	467	184	1936	404.48	0.00%	26.8/sec	408.08	15620.0

At the bottom, there are checkboxes for 'Include group name in label?' and 'Save Table Header' (checked), and a 'Save Table Data' button.

## Results in table:

The screenshot shows the 'View Results in Table' window in Apache JMeter. The left sidebar is the same as the previous screenshot. The main panel is titled 'View Results in Table' and contains a 'Name' field with the value 'View Results in Table' and a 'Comments' field. Below these is a section for 'Write results to file / Read from file' with a 'Filename' field, a 'Browse...' button, and checkboxes for 'Log/Display Only: Errors' and 'Successes'. A 'Configure' button is also present. The main area displays a table with the following data:

Sample #	Start Time	Thread Name	Label	Sample Time(ms)	Status	Bytes	Latency
76	17:34:05.676	Thread Group 1-10	HTTP Request	232	Success	15620	109
77	17:34:05.674	Thread Group 1-11	HTTP Request	234	Success	15620	111
78	17:34:05.683	Thread Group 1-19	HTTP Request	225	Success	15620	105
79	17:34:05.707	Thread Group 1-15	HTTP Request	202	Success	15620	86
80	17:34:05.688	Thread Group 1-14	HTTP Request	232	Success	15620	97
81	17:34:05.823	Thread Group 1-7	HTTP Request	212	Success	15620	104
82	17:34:05.803	Thread Group 1-18	HTTP Request	232	Success	15620	124
83	17:34:05.832	Thread Group 1-4	HTTP Request	253	Success	15620	87