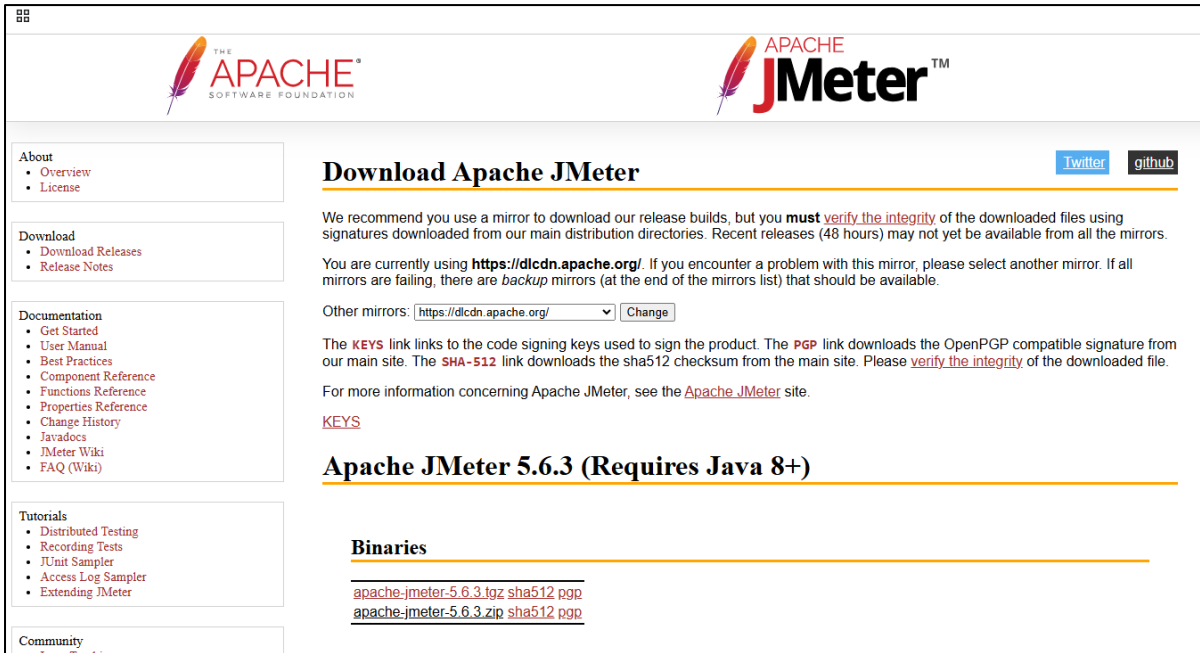


PRACTICAL 13

AIM : Load Testing using JMeter.

1. Install JMeter in your system.



The screenshot shows the Apache JMeter download page. On the left, there are navigation links for About, Download, Documentation, and Tutorials. The main content area is titled "Download Apache JMeter" and includes instructions on how to download the software, including a list of mirrors and a link to the code signing keys. Below this, there is a section for "Binaries" with links to download the JMeter binaries for Windows, Linux, and Mac.

Download Apache JMeter

We recommend you use a mirror to download our release builds, but you **must verify the integrity** of the downloaded files using signatures downloaded from our main distribution directories. Recent releases (48 hours) may not yet be available from all the mirrors.

You are currently using <https://d1cdn.apache.org/>. If you encounter a problem with this mirror, please select another mirror. If all mirrors are failing, there are [backup mirrors](#) (at the end of the mirrors list) that should be available.

Other mirrors: <https://d1cdn.apache.org/> | [Change](#)

The **KEYS** link links to the code signing keys used to sign the product. The **PGP** link downloads the OpenPGP compatible signature from our main site. The **SHA-512** link downloads the sha512 checksum from the main site. Please [verify the integrity](#) of the downloaded file.

For more information concerning Apache JMeter, see the [Apache JMeter](#) site.

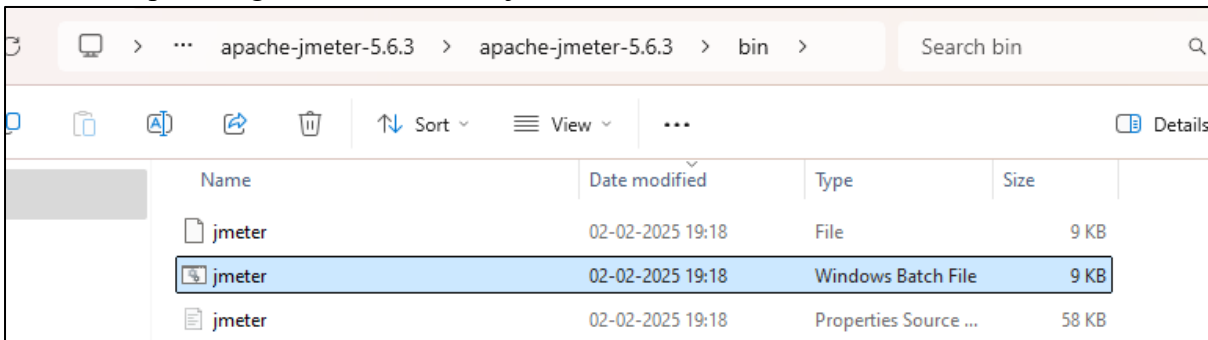
[KEYS](#)

Apache JMeter 5.6.3 (Requires Java 8+)

Binaries

[apache-jmeter-5.6.3.tgz sha512 pgp](#)
[apache-jmeter-5.6.3.zip sha512 pgp](#)

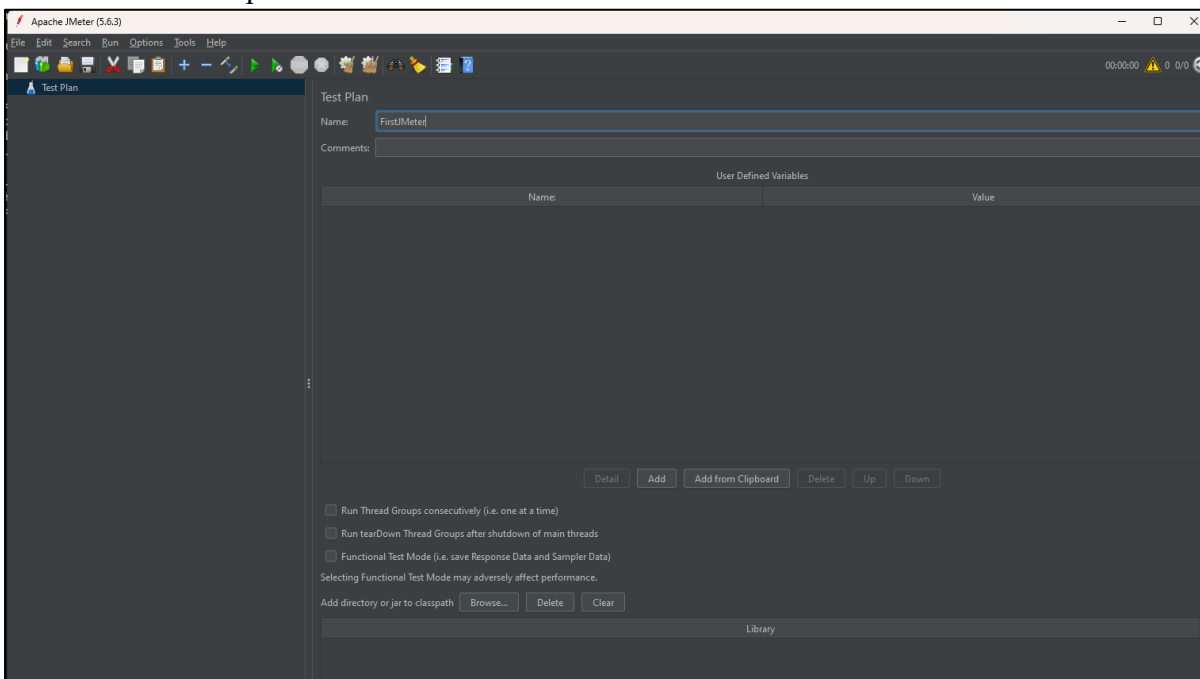
2.Extract zip file > go to bin > click on jmeter batch file.



The screenshot shows a Windows file explorer window with the path "apache-jmeter-5.6.3 > apache-jmeter-5.6.3 > bin". The file list shows three files: "jmeter" (File, 9 KB), "jmeter" (Windows Batch File, 9 KB), and "jmeter" (Properties Source ..., 58 KB). The "jmeter" (Windows Batch File) is selected.

Name	Date modified	Type	Size
jmeter	02-02-2025 19:18	File	9 KB
jmeter	02-02-2025 19:18	Windows Batch File	9 KB
jmeter	02-02-2025 19:18	Properties Source ...	58 KB

3. Rename the test plan as the FirstJMeter.



The screenshot shows the Apache JMeter interface. The "Test Plan" is selected in the left sidebar, and its name is "FirstJMeter" in the main window. The "User Defined Variables" section is empty. The "Run" button is visible at the bottom.

Test Plan

Name:

Comments:

User Defined Variables

Name	Value
------	-------

☐ Run Thread Groups consecutively (i.e. one at a time)

☐ Run tearDown Thread Groups after shutdown of main threads

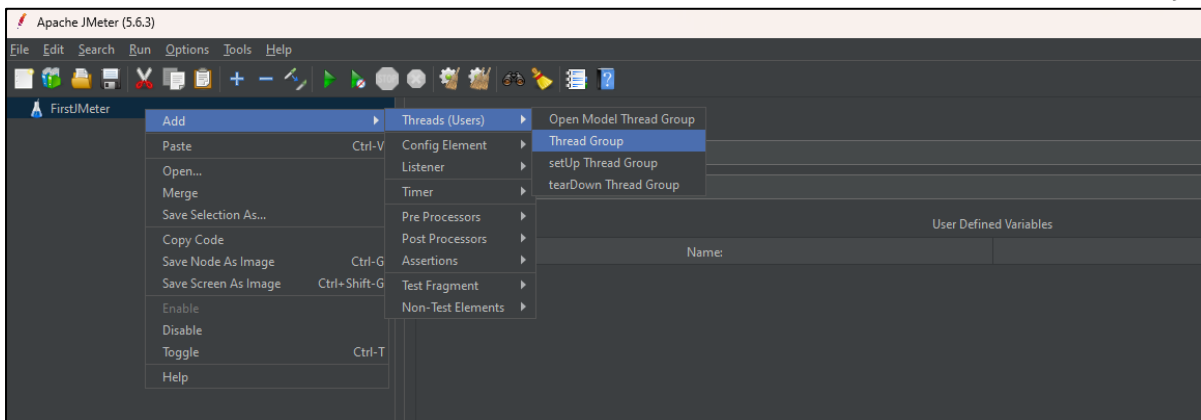
☐ Functional Test Mode (i.e. save Response Data and Sampler Data)

Selecting Functional Test Mode may adversely affect performance.

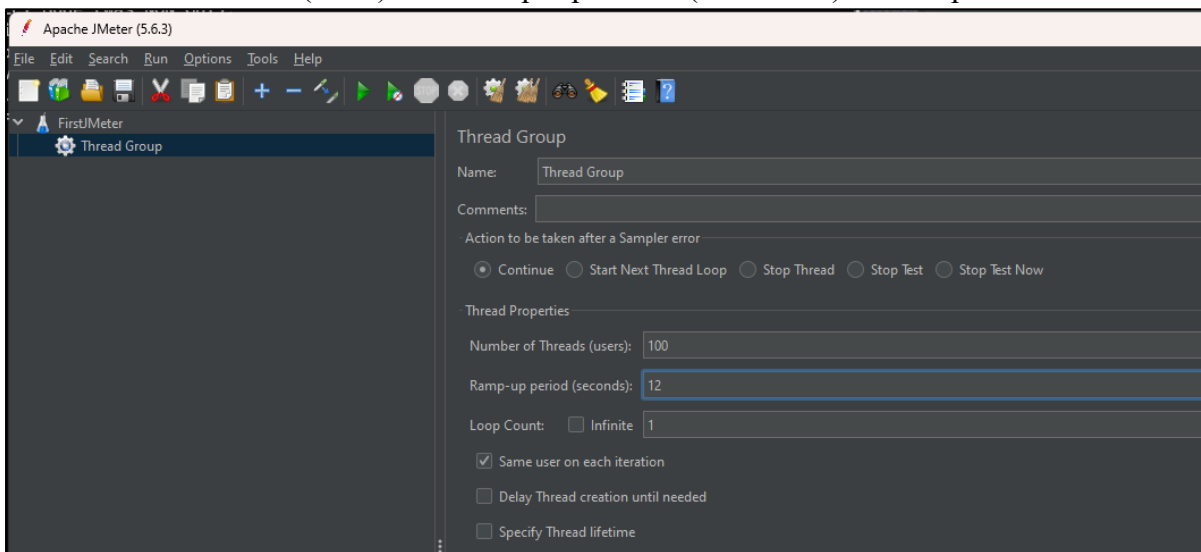
Add directory or jar to classpath

Library

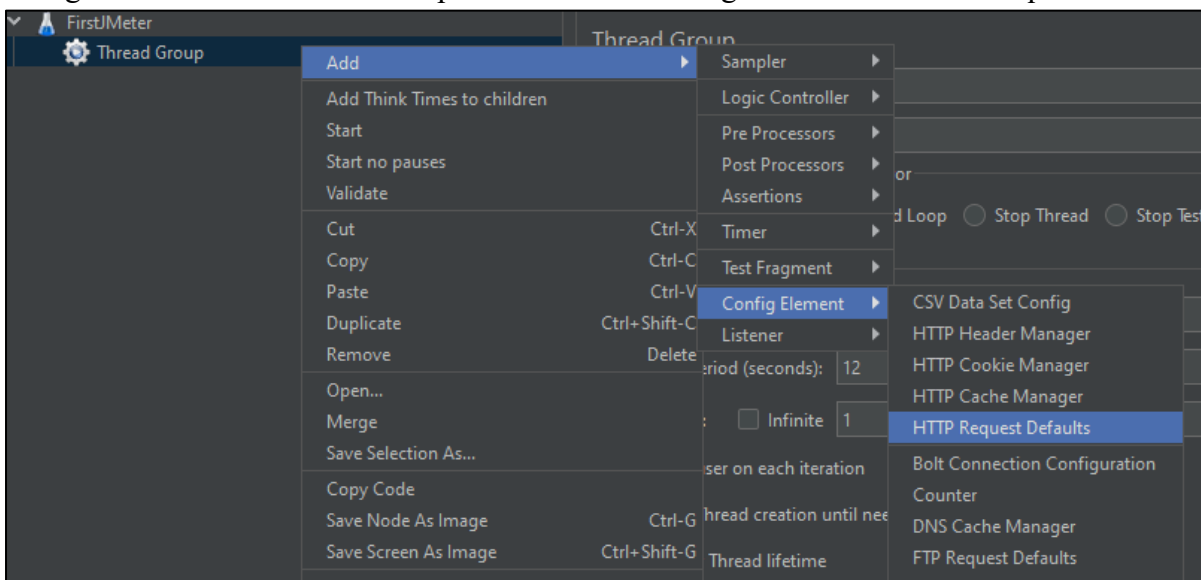
4. Right-click on the test plan. Go to add -> Threads (Users) -> Thread Group



5. click on Thread Group, there are three things on the screen that are important concerning the load test:
The number of threads (users): 100.Ramp-Up Period (in seconds): 12.Loop Count: 1



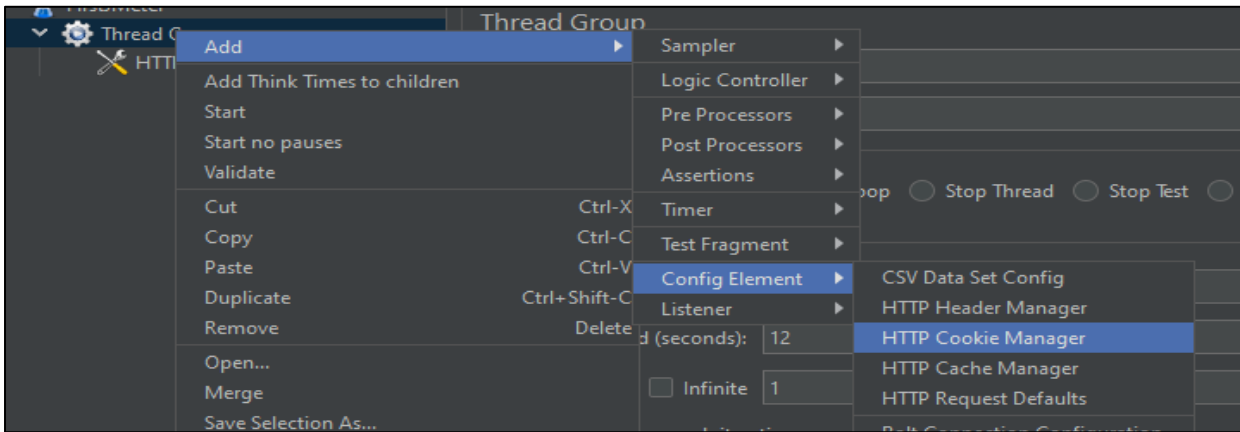
6. Right-click on the Thread Group. Go to Add -> Config Element -> HTTP Request Defaults.



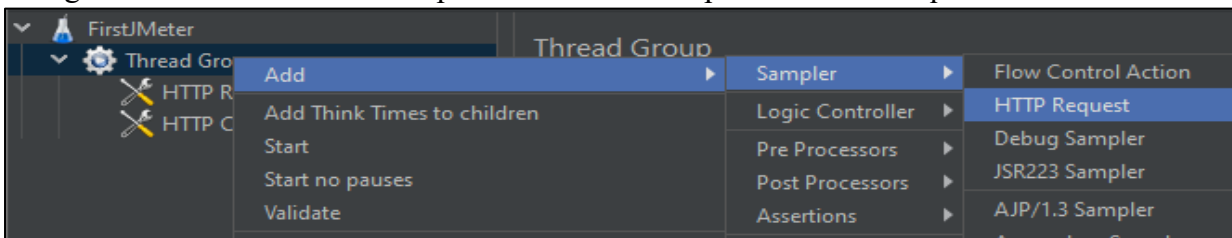
7.Name the server name or IP (www.simplilearn.com).



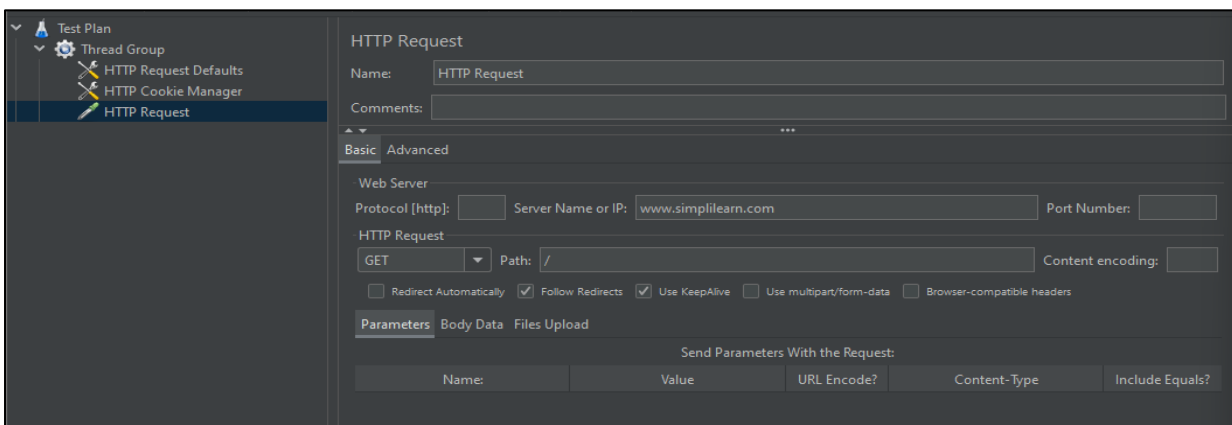
8. Right-click on the Thread Group. Go to Add -> Config Element -> HTTP Cookie Manager



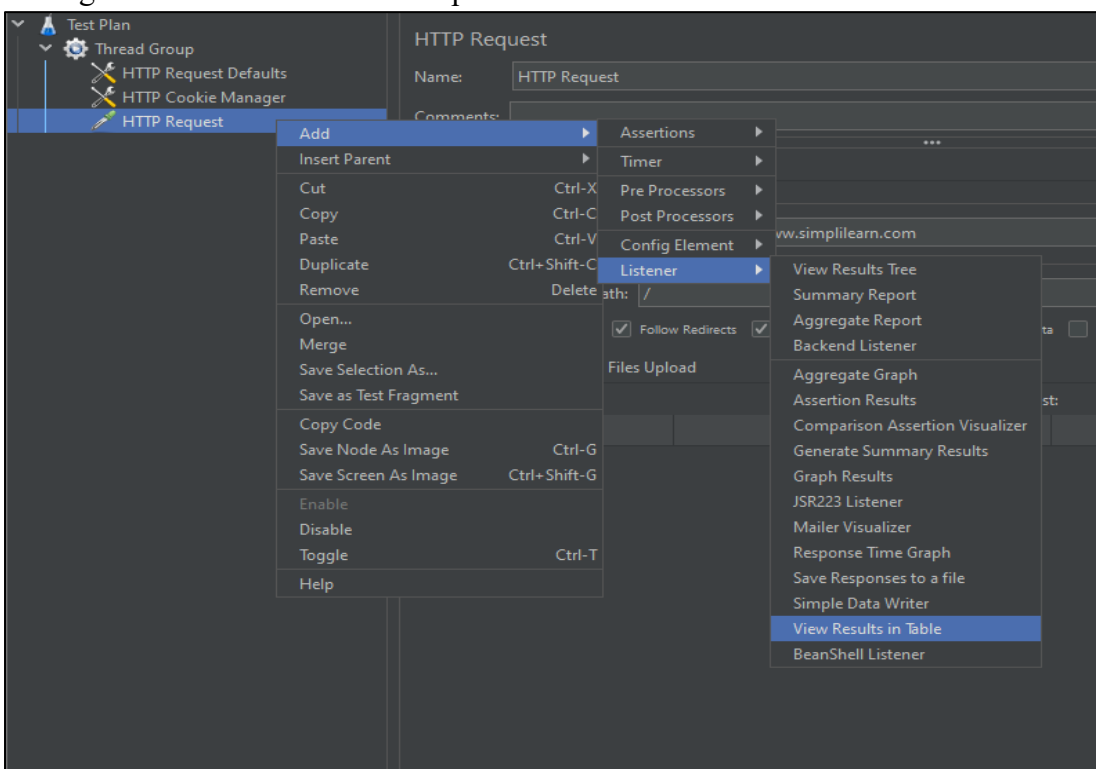
9. Right-click on the Thread Group. Go to Add -> Sampler -> HTTP Request.



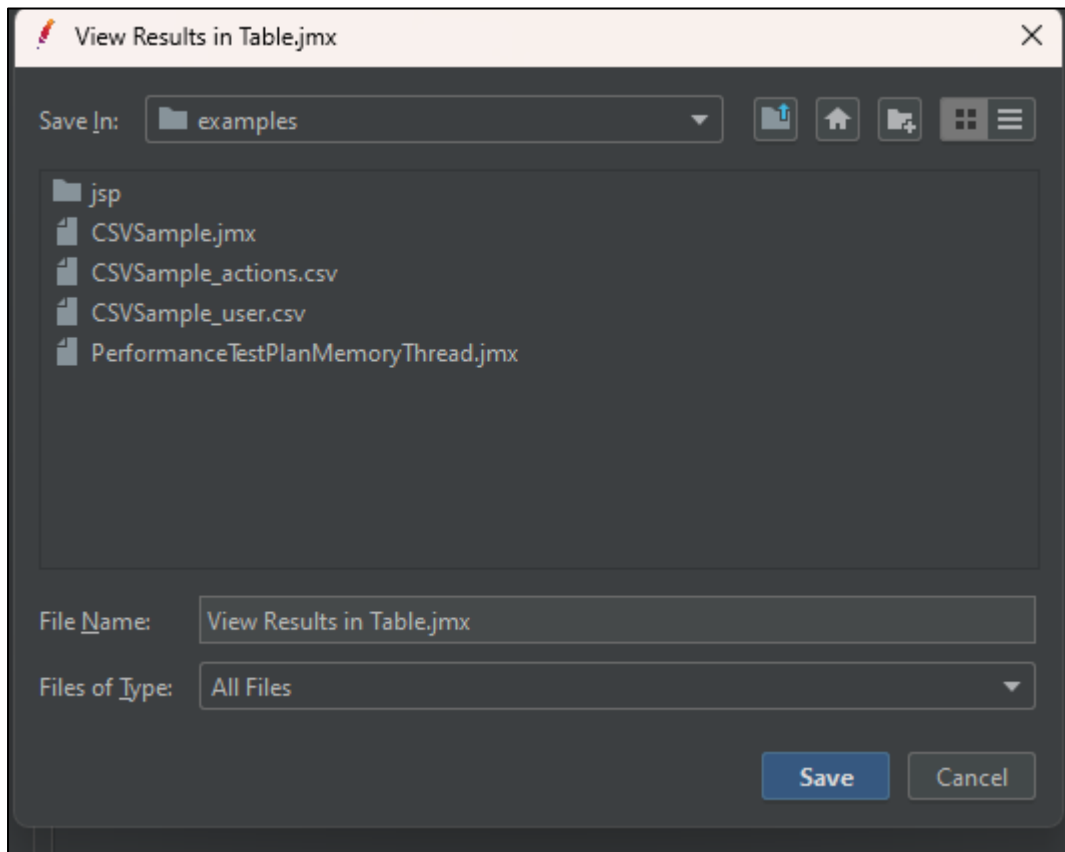
10. Path set it to be "/". Fill Server Name or IP.



11. Right-click on the Thread Group. Go to Add -> Listener -> View Results in Table.



12. Save the file.



13. Run the Basic Test Plan. Click on View Results in Table. Click on the Run button (green start button).

View Results in Table

Name: View Results in Table

Comments:

Write results to file / Read from file

Filename: Browse... Log/Display Only: Errors Successes Configure

Sample #	Start Time	Thread Name	Label	Sample Time(ms)	Status	Bytes	Sent Bytes	Latency	Connect Time(ms)
1	23:27:34.353	Thread Group 1-1	HTTP Request	106	✓	669116	302	11	5
2	23:27:34.472	Thread Group 1-2	HTTP Request	169	✓	669116	302	9	3
3	23:27:34.722	Thread Group 1-4	HTTP Request	117	✓	669116	302	10	4
4	23:27:34.997	Thread Group 1-3	HTTP Request	412	✓	669116	302	234	6
5	23:27:34.937	Thread Group 1-6	HTTP Request	235	✓	669116	302	13	5
6	23:27:35.194	Thread Group 1-8	HTTP Request	185	✓	669116	302	8	2
7	23:27:35.082	Thread Group 1-7	HTTP Request	473	✓	669116	302	13	6
8	23:27:35.319	Thread Group 1-9	HTTP Request	651	✓	669116	302	8	3
9	23:27:35.548	Thread Group 1-11	HTTP Request	448	✓	669116	302	11	6
10	23:27:36.027	Thread Group 1-15	HTTP Request	219	✓	669116	302	8	3
11	23:27:36.668	Thread Group 1-12	HTTP Request	827	✓	669116	302	14	6
12	23:27:36.140	Thread Group 1-16	HTTP Request	371	✓	669116	302	14	6
13	23:27:36.388	Thread Group 1-18	HTTP Request	328	✓	669116	302	14	7
14	23:27:36.832	Thread Group 1-5	HTTP Request	2209	✓	669116	302	9	3
15	23:27:36.747	Thread Group 1-21	HTTP Request	549	✓	669116	302	244	6
16	23:27:36.988	Thread Group 1-23	HTTP Request	500	✓	669116	302	8	3
17	23:27:35.908	Thread Group 1-14	HTTP Request	1662	✓	669116	302	15	6
18	23:27:37.347	Thread Group 1-26	HTTP Request	671	✓	669116	302	9	3
19	23:27:35.787	Thread Group 1-13	HTTP Request	2264	✓	669116	302	1022	1014
20	23:27:35.427	Thread Group 1-10	HTTP Request	2758	✓	669116	302	19	11
21	23:27:38.067	Thread Group 1-32	HTTP Request	417	✓	669116	302	8	3
22	23:27:37.588	Thread Group 1-28	HTTP Request	945	✓	669116	302	12	5
23	23:27:38.187	Thread Group 1-33	HTTP Request	787	✓	669116	302	11	5
24	23:27:37.228	Thread Group 1-25	HTTP Request	1764	✓	669116	302	1022	1015
25	23:27:37.467	Thread Group 1-27	HTTP Request	1979	✓	669116	302	14	6
26	23:27:38.667	Thread Group 1-37	HTTP Request	833	✓	669116	302	164	158
27	23:27:37.947	Thread Group 1-31	HTTP Request	1969	✓	669116	302	1025	1016
28	23:27:37.107	Thread Group 1-24	HTTP Request	2963	✓	669116	302	16	6
29	23:27:36.867	Thread Group 1-22	HTTP Request	3444	✓	669116	302	1030	1022
30	23:27:38.428	Thread Group 1-35	HTTP Request	2114	✓	669116	302	1023	1015
31	23:27:37.707	Thread Group 1-29	HTTP Request	2966	✓	669116	302	15	6
32	23:27:36.268	Thread Group 1-17	HTTP Request	4795	✓	669116	302	9	3
33	23:27:39.386	Thread Group 1-43	HTTP Request	1698	✓	669116	302	15	7
34	23:27:39.147	Thread Group 1-41	HTTP Request	1968	✓	669116	302	15	7
35	23:27:38.548	Thread Group 1-36	HTTP Request	2908	✓	669116	302	476	6

☐ Scroll automatically? ☐ Child samples?

No of Samples: 100 Latest Sample: 37301 Average: 4531 Deviation: 5090