

Assignment on JMeter

Submitted by: -

MTech, Software Engineering

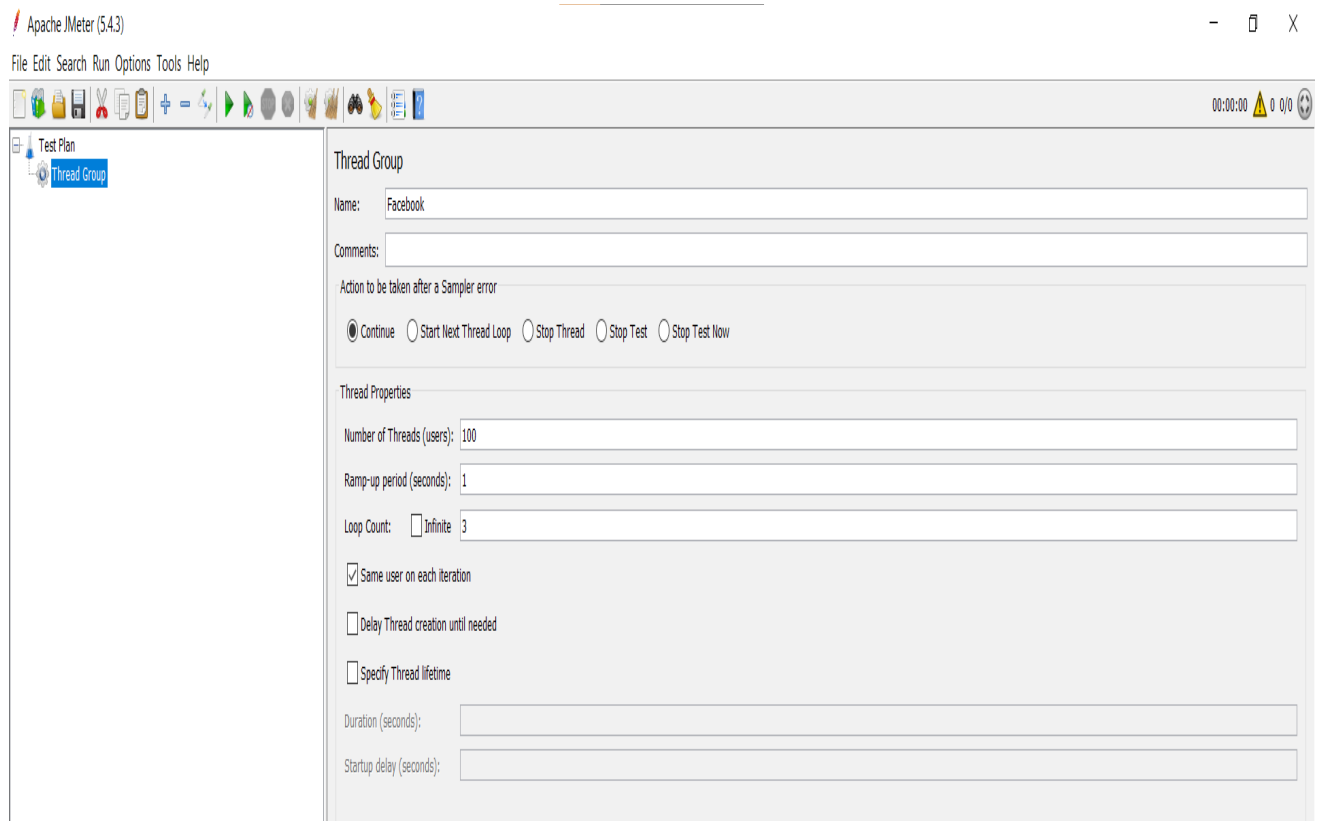
Sub – Software Testing Lab



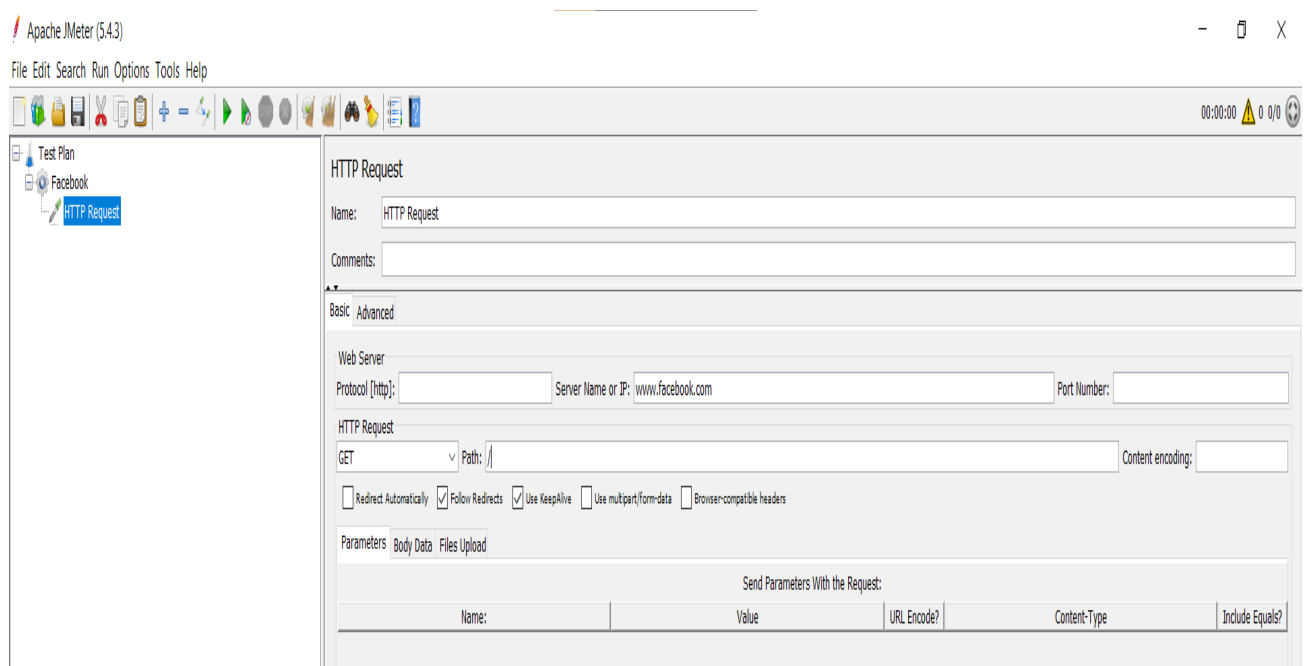
National Institute of Technology

Rourkela

Exercise 1) Create a JMeter Test Script to test the load on www.facebook.com with 100 users and 3 loops each.



HTTP Sampler –



Test Plan
Facebook
HTTP Request
View Results in Table
View Results Tree

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	19:09:52.449	Facebook 1-87	HTTP Request	3517	✓	89804	242	311	49
2	19:09:52.554	Facebook 1-98	HTTP Request	3594	✓	89785	242	317	58
3	19:09:52.354	Facebook 1-77	HTTP Request	3922	✓	89793	242	305	49
4	19:09:52.315	Facebook 1-73	HTTP Request	3973	✓	89809	242	301	52
5	19:09:52.137	Facebook 1-29	HTTP Request	4165	✓	89813	242	466	157
6	19:09:52.514	Facebook 1-93	HTTP Request	3848	✓	89817	242	310	50
7	19:09:52.137	Facebook 1-48	HTTP Request	4228	✓	89794	242	471	165
8	19:09:52.565	Facebook 1-99	HTTP Request	3820	✓	89798	242	352	91
9	19:09:52.277	Facebook 1-69	HTTP Request	4130	✓	89806	242	335	57
10	19:09:52.165	Facebook 1-52	HTTP Request	4243	✓	89793	242	442	142
11	19:09:52.411	Facebook 1-83	HTTP Request	4013	✓	89796	242	332	53
12	19:09:52.478	Facebook 1-90	HTTP Request	3949	✓	89807	242	297	47
13	19:09:52.159	Facebook 1-17	HTTP Request	4269	✓	89786	242	445	135
14	19:09:52.218	Facebook 1-63	HTTP Request	4217	✓	89802	242	390	84
15	19:09:52.438	Facebook 1-86	HTTP Request	4074	✓	89797	242	314	56
16	19:09:52.159	Facebook 1-11	HTTP Request	4404	✓	89796	242	446	135
17	19:09:52.335	Facebook 1-75	HTTP Request	4265	✓	89807	242	321	54
18	19:09:52.154	Facebook 1-56	HTTP Request	4453	✓	89797	242	449	140
19	19:09:52.159	Facebook 1-13	HTTP Request	4448	✓	89785	242	449	152
20	19:09:52.332	Facebook 1-74	HTTP Request	4281	✓	89786	242	292	51
21	19:09:52.249	Facebook 1-66	HTTP Request	4379	✓	89788	242	360	58
22	19:09:52.545	Facebook 1-97	HTTP Request	4111	✓	89788	242	341	64
23	19:09:52.129	Facebook 1-22	HTTP Request	4528	✓	89778	242	480	173
24	19:09:52.166	Facebook 1-46	HTTP Request	4510	✓	89799	242	445	141
25	19:09:52.130	Facebook 1-36	HTTP Request	4558	✓	89805	242	486	172
26	19:09:52.127	Facebook 1-8	HTTP Request	4572	✓	89782	242	480	180
27	19:09:52.296	Facebook 1-71	HTTP Request	4426	✓	89808	242	334	62
28	19:09:52.420	Facebook 1-84	HTTP Request	4313	✓	89830	242	323	53
29	19:09:52.496	Facebook 1-92	HTTP Request	4242	✓	89814	242	316	56
30	19:09:52.158	Facebook 1-47	HTTP Request	4583	✓	89786	242	445	135
31	19:09:52.128	Facebook 1-15	HTTP Request	4617	✓	89811	242	476	174
32	19:09:52.468	Facebook 1-89	HTTP Request	4287	✓	89804	242	301	47
33	19:09:52.165	Facebook 1-40	HTTP Request	4590	✓	89791	242	441	137
34	19:09:52.130	Facebook 1-6	HTTP Request	4637	✓	89808	242	479	164
35	19:09:52.157	Facebook 1-27	HTTP Request	4619	✓	89816	242	451	149
36	19:09:52.127	Facebook 1-38	HTTP Request	4667	✓	89807	242	484	180
37	19:09:52.166	Facebook 1-45	HTTP Request	4633	✓	89804	242	443	145
38	19:09:52.129	Facebook 1-24	HTTP Request	4671	✓	89807	242	479	173
39	19:09:52.159	Facebook 1-16	HTTP Request	4642	✓	89806	242	445	151
40	19:09:52.165	Facebook 1-42	HTTP Request	4640	✓	89804	242	439	137
41	19:09:52.305	Facebook 1-72	HTTP Request	4507	✓	89810	242	319	54
42	19:09:52.127	Facebook 1-39	HTTP Request	4685	✓	89803	242	481	180
43	19:09:52.136	Facebook 1-4	HTTP Request	4689	✓	89785	242	472	158
44	19:09:52.129	Facebook 1-10	HTTP Request	4696	✓	89792	242	478	173

☐ Scroll automatically? ☐ Child samples? No of Samples 300 Latest Sample 1041 Average 2608 Deviation 1540

261	19:09:58.978	Facebook 1-58	HTTP Request	1319	✓	89794	242	350	0
262	19:09:58.973	Facebook 1-31	HTTP Request	1346	✓	89799	242	372	0
263	19:09:58.942	Facebook 1-14	HTTP Request	1401	✓	89786	242	375	0
264	19:09:58.973	Facebook 1-70	HTTP Request	1380	✓	89789	242	345	0
265	19:09:58.911	Facebook 1-45	HTTP Request	1459	✓	89821	242	370	0
266	19:09:59.085	Facebook 1-41	HTTP Request	1289	✓	89804	242	325	0
267	19:09:59.010	Facebook 1-39	HTTP Request	1381	✓	89799	242	353	0
268	19:09:59.057	Facebook 1-2	HTTP Request	1335	✓	89809	242	343	0
269	19:09:59.150	Facebook 1-64	HTTP Request	1292	✓	89811	242	353	0
270	19:09:59.250	Facebook 1-32	HTTP Request	1219	✓	89812	242	352	0
271	19:09:59.128	Facebook 1-7	HTTP Request	1341	✓	89788	242	350	0
272	19:09:59.178	Facebook 1-57	HTTP Request	1292	✓	89797	242	361	0
273	19:09:59.196	Facebook 1-76	HTTP Request	1293	✓	89806	242	372	0
274	19:09:59.278	Facebook 1-12	HTTP Request	1222	✓	89789	242	352	0
275	19:09:59.293	Facebook 1-80	HTTP Request	1231	✓	89821	242	357	0
276	19:09:59.324	Facebook 1-67	HTTP Request	1202	✓	89805	242	341	0
277	19:09:59.211	Facebook 1-100	HTTP Request	1326	✓	89803	242	371	0
278	19:09:59.339	Facebook 1-3	HTTP Request	1199	✓	89789	242	340	0
279	19:09:59.260	Facebook 1-59	HTTP Request	1279	✓	89797	242	360	0
280	19:09:59.328	Facebook 1-96	HTTP Request	1239	✓	89790	242	335	0
281	19:09:59.311	Facebook 1-33	HTTP Request	1256	✓	89805	242	359	0
282	19:09:59.340	Facebook 1-35	HTTP Request	1265	✓	89789	242	352	0
283	19:09:59.435	Facebook 1-21	HTTP Request	1195	✓	89784	242	356	0
284	19:09:59.348	Facebook 1-79	HTTP Request	1286	✓	89805	242	357	0
285	19:09:59.553	Facebook 1-50	HTTP Request	1113	✓	89808	242	308	0
286	19:09:59.524	Facebook 1-62	HTTP Request	1148	✓	89788	242	311	0
287	19:09:59.400	Facebook 1-94	HTTP Request	1285	✓	89812	242	384	0
288	19:09:59.540	Facebook 1-25	HTTP Request	1182	✓	89785	242	323	0
289	19:09:59.502	Facebook 1-55	HTTP Request	1262	✓	89794	242	333	0
290	19:09:59.719	Facebook 1-65	HTTP Request	1047	✓	89807	242	304	0
291	19:09:59.625	Facebook 1-53	HTTP Request	1154	✓	89812	242	303	0
292	19:09:59.611	Facebook 1-44	HTTP Request	1195	✓	89805	242	296	0
293	19:09:59.613	Facebook 1-1	HTTP Request	1200	✓	89810	242	310	0
294	19:09:59.692	Facebook 1-82	HTTP Request	1180	✓	89803	242	284	0
295	19:09:59.842	Facebook 1-20	HTTP Request	1112	✓	89806	242	309	0
296	19:09:59.789	Facebook 1-88	HTTP Request	1196	✓	89811	242	297	0
297	19:09:59.953	Facebook 1-85	HTTP Request	1047	✓	89815	242	298	0
298	19:09:59.922	Facebook 1-61	HTTP Request	1082	✓	89779	242	279	0
299	19:10:00.093	Facebook 1-91	HTTP Request	1040	✓	89806	242	289	0
300	19:10:00.200	Facebook 1-23	HTTP Request	1041	✓	89789	242	260	0

Total 300 requests were made to the server.

Exercise 2) Create a script to record visiting a online shopping or social network site and play it with 100 threads and 3 loops per thread and view the results using View Results Tree.

Templates

Fill your parameters:

hostToRecord :

recordingOutputFile :

schemeToRecord :

Create Cancel Previous

User Defined Variables

Name:

Comments:

User Defined Variables

Name:	Value	Description
host	www.amazon.in	
scheme	https	

Apache JMeter (5.4.3)

File Edit Search Run Options Tools Help

Test Plan

- User Defined Variables
- HTTP Request Defaults
- HTTP Cookie Manager
- Thread Group
- View Results Tree
- HTTP(S) Test Script Recorder

HTTP Request Defaults

Name:

Comments:

Basic Advanced

Web Server

Protocol (http): Server Name or IP: Port Number:

HTTP Request

Path: Content encoding:

Parameters Body Data

Send Parameters With the Request:

Name:	Value	URL Encode?	Content-Type	Include Equals?
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Thread Group

Name:

Thread Group

Comments:

Action to be taken after a Sampler error

☒ Continue

☐ Start Next Thread Loop

☐ Stop Thread

☐ Stop Test

☐ Stop Test Now

Thread Properties

Number of Threads (users):

100

Ramp-up period (seconds):

1

Loop Count:

☐ Infinite

3

☒ Same user on each iteration

☐ Delay Thread creation until needed

☐ Specify Thread lifetime

Duration (seconds):

Startup delay (seconds):

Connection Settings

✕

Configure Proxies to Access the Internet

☐ No proxy

☐ Auto-detect proxy settings for this network

☐ Use system proxy settings

☒ Manual proxy configuration:

HTTP Proxy:

127.0.0.1

Port:

8888

☒ Use this proxy server for all protocols

SSL Proxy:

127.0.0.1

Port:

8888

FTP Proxy:

127.0.0.1

Port:

8888

SOCKS Host:

127.0.0.1

Port:

8888

☐ SOCKS v4

☒ SOCKS v5

No Proxy for:

localhost, 127.0.0.1

Example: .mozilla.org, .net.nz, 192.168.1.0/24

☐ Automatic proxy configuration URL:

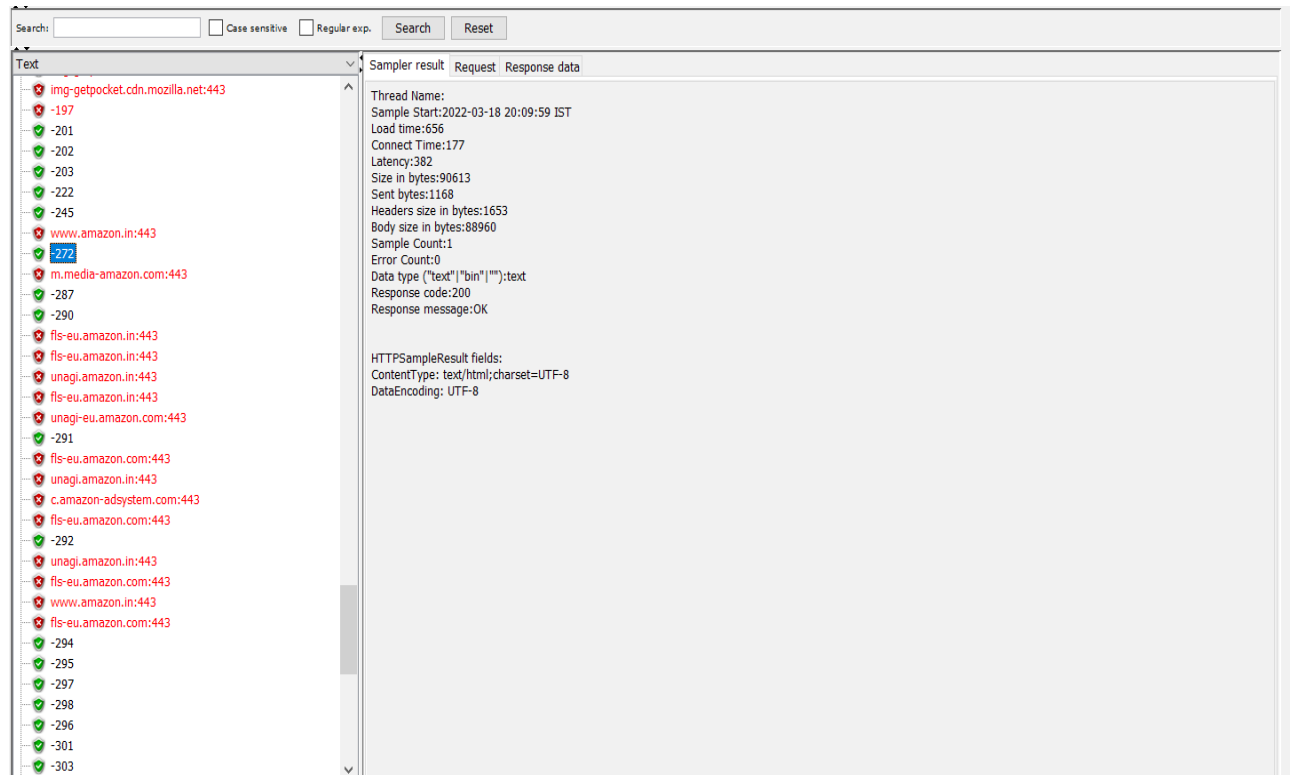
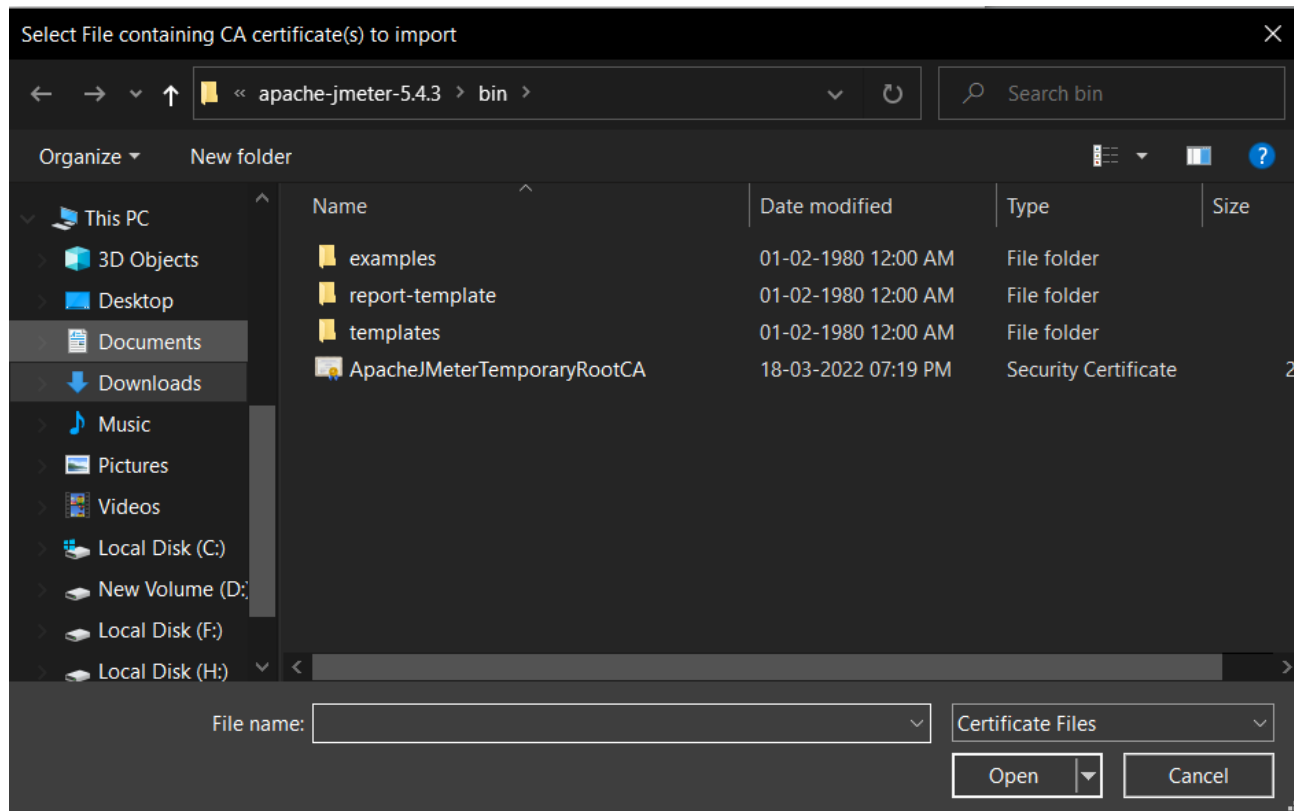
Reload

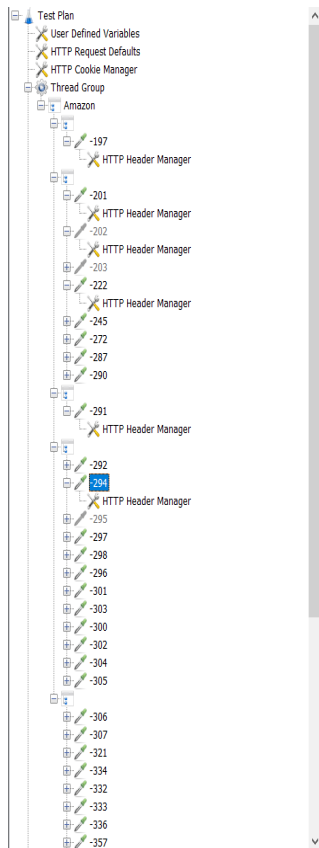
OK

Cancel

Help

Import Certificate –





HTTP Request

Name: -294

Comments: Detected the start of a redirect chain

Basic Advanced

Web Server

Protocol [http]: Server Name or IP: Port Number: 443

HTTP Request

POST Path: /api/signin Content encoding: UTF-8

☐ Redirect Automatically ☒ Follow Redirects ☒ Use KeepAlive ☐ Use multipart/form-data ☐ Browser-compatible headers

Parameters Body Data Files Upload

Send Parameters With the Request:

Name:	Value	URL Encode?	Content-Type	Include Equals?
appActionToken	XDTnWIE6VefgXZYgd6XpoJhG4J3D	<input type="checkbox"/>	text/plain	<input checked="" type="checkbox"/>
appAction	SIGNBH_PWD_COLLECT	<input type="checkbox"/>	text/plain	<input checked="" type="checkbox"/>
metadatal	ECJtT4Cs9hwZhu2p0CSYC/qnZhsNRtT0hthgwrtH4RycfZouqX...	<input checked="" type="checkbox"/>	text/plain	<input checked="" type="checkbox"/>
openid.return_to	ape:ahR0dH6Ly93d3cuYW1hem8uLmluZ9yZWZlPW5hd9pXN0cm...	<input checked="" type="checkbox"/>	text/plain	<input checked="" type="checkbox"/>
prevRID	ape:RIIZMTZYTTcmMFQONENBUjg5MVE=	<input checked="" type="checkbox"/>	text/plain	<input checked="" type="checkbox"/>
workflowState	ey36aXAOUERUyLClbmMQU8MjUzR0N0dWmYWcnjpoQTI1NktQn0...	<input type="checkbox"/>	text/plain	<input checked="" type="checkbox"/>
email	8882621889	<input type="checkbox"/>	text/plain	<input checked="" type="checkbox"/>
email	8882621889	<input type="checkbox"/>	text/plain	<input checked="" type="checkbox"/>
password		<input checked="" type="checkbox"/>	text/plain	<input checked="" type="checkbox"/>
encryptedPasswordExpected		<input type="checkbox"/>	text/plain	<input checked="" type="checkbox"/>

Detail Add Add from Clipboard Delete Up Down

Exercise 3) Create a test script to read 30 mails from the Inbox of your Gmail account.

Mail Reader Sampler.jmx (C:\Users\vedpr\Downloads\apache-jmeter-5.4.3\apache-jmeter-5.4.3\bin\Mail Reader Sampler.jmx) - Apache JMeter (5.4.3)

File Edit Search Run Options Tools Help

Test Plan

- Mail
- Mail Reader Sampler
- View Results Tree
- View Results in Table

Thread Group

Name: Mail

Comments:

Action to be taken after a Sampler error

☒ Continue ☐ Start Next Thread Loop ☐ Stop Thread ☐ Stop Test ☐ Stop Test Now

Thread Properties

Number of Threads (users): 15

Ramp-up period (seconds): 1

Loop Count: ☐ Infinite 2

☒ Same user on each iteration

☐ Delay Thread creation until needed

☐ Specify Thread lifetime

Duration (seconds):

Startup delay (seconds):

Mail Reader Sampler

Name: Mail Reader Sampler

Comments:

Protocol (e.g. pop3, imaps): imaps

Server Host: imap.gmail.com

Server Port (optional): 993

Username: vedprakash.hzb@gmail.com

Password: ●●●●●●●●

Folder: INBOX

Number of messages to retrieve: ☐ All ☒ 2

☐ Fetch headers only

☒ Delete messages from the server

☐ Store the message using MIME (raw)

Security settings

☐ Use no security features ☐ Use SSL ☒ Use StartTLS

☐ Trust all certificates ☐ Use local truststore ☐ Enforce StartTLS

Local truststore:

Override System SSL/TLS Protocols:

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	22:56:41.189	Mail 1-1	Mail Reader Sampler	1380		0	0	0	0
2	22:56:41.260	Mail 1-2	Mail Reader Sampler	1350		0	0	0	0
3	22:56:41.327	Mail 1-3	Mail Reader Sampler	1352		0	0	0	0
4	22:56:41.395	Mail 1-4	Mail Reader Sampler	1309		0	0	0	0
5	22:56:41.526	Mail 1-6	Mail Reader Sampler	1318		0	0	0	0
6	22:56:41.460	Mail 1-5	Mail Reader Sampler	1392		0	0	0	0
7	22:56:41.593	Mail 1-7	Mail Reader Sampler	1348		0	0	0	0
8	22:56:41.726	Mail 1-9	Mail Reader Sampler	1278		0	0	0	0
9	22:56:41.658	Mail 1-8	Mail Reader Sampler	1421		0	0	0	0
10	22:56:41.860	Mail 1-11	Mail Reader Sampler	1299		0	0	0	0
11	22:56:41.793	Mail 1-10	Mail Reader Sampler	1434		0	0	0	0
12	22:56:41.927	Mail 1-12	Mail Reader Sampler	1336		0	0	0	0
13	22:56:41.993	Mail 1-13	Mail Reader Sampler	1270		0	0	0	0
14	22:56:42.060	Mail 1-14	Mail Reader Sampler	1278		0	0	0	0
15	22:56:42.127	Mail 1-15	Mail Reader Sampler	1296		0	0	0	0
16	22:56:42.569	Mail 1-1	Mail Reader Sampler	1345		0	0	0	0
17	22:56:42.610	Mail 1-2	Mail Reader Sampler	1332		0	0	0	0
18	22:56:42.679	Mail 1-3	Mail Reader Sampler	1370		0	0	0	0
19	22:56:42.705	Mail 1-4	Mail Reader Sampler	1367		0	0	0	0
20	22:56:42.844	Mail 1-6	Mail Reader Sampler	1273		0	0	0	0
21	22:56:42.852	Mail 1-5	Mail Reader Sampler	1342		0	0	0	0
22	22:56:42.942	Mail 1-7	Mail Reader Sampler	1329		0	0	0	0
23	22:56:43.004	Mail 1-9	Mail Reader Sampler	1400		0	0	0	0
24	22:56:43.079	Mail 1-8	Mail Reader Sampler	1360		0	0	0	0
25	22:56:43.160	Mail 1-11	Mail Reader Sampler	1355		0	0	0	0
26	22:56:43.227	Mail 1-10	Mail Reader Sampler	1289		0	0	0	0
27	22:56:43.262	Mail 1-12	Mail Reader Sampler	1328		0	0	0	0
28	22:56:43.262	Mail 1-13	Mail Reader Sampler	1369		0	0	0	0
29	22:56:43.422	Mail 1-15	Mail Reader Sampler	1333		0	0	0	0
30	22:56:43.337	Mail 1-14	Mail Reader Sampler	1418		0	0	0	0

Exercise 4) Create a test script to send mail to a Gmail user using the same Gmail account.

The screenshot shows the JMeter Test Plan tree on the left with 'Thread Group' selected. The right pane displays the 'Thread Group' configuration. The 'Name' is 'Thread Group'. Under 'Action to be taken after a Sampler error', 'Continue' is selected. Under 'Thread Properties', 'Number of Threads (users)' is 1, 'Ramp-up period (seconds)' is 1, and 'Loop Count' is 1. The checkbox 'Same user on each iteration' is checked. Other options like 'Delay Thread creation until needed' and 'Specify Thread lifetime' are unchecked. 'Duration (seconds)' and 'Startup delay (seconds)' are empty.

Test Plan

- Thread Group
 - SMTP Sampler
 - View Results Tree
 - View Results in Table

Thread Group

Name: Thread Group

Comments:

Action to be taken after a Sampler error

☒ Continue ☐ Start Next Thread Loop ☐ Stop Thread ☐ Stop Test ☐ Stop Test Now

Thread Properties

Number of Threads (users): 1

Ramp-up period (seconds): 1

Loop Count: ☐ Infinite 1

☒ Same user on each iteration

☐ Delay Thread creation until needed

☐ Specify Thread lifetime

Duration (seconds):

Startup delay (seconds):

The screenshot shows the 'SMTP Sampler' configuration dialog. The 'Name' is 'SMTP Sampler'. Under 'Server settings', 'Server' is 'smtp.gmail.com' and 'Port' is '587'. Under 'Mail settings', 'Address From' is 'vedprakash.hzb@gmail.com' and 'Address To' is 'vedpr11111@gmail.com'. Under 'Auth settings', 'Use Auth' is checked, 'Username' is 'vedprakash.hzb@gmail.com', and 'Password' is masked. Under 'Security settings', 'Use StartTLS' is selected. Under 'Message settings', 'Subject' is 'Email from JMeter', 'Include timestamp in subject' is unchecked, and the 'Message' body is 'This is a test email from JMeter.'.

SMTP Sampler

Name: SMTP Sampler

Comments:

Server settings

Server: smtp.gmail.com

Port: 587 (Defaults: SMTP:25, SSL:465, StartTLS:587)

Timeouts (milliseconds)

Connection timeout: 20

Read timeout:

Mail settings

Address From: vedprakash.hzb@gmail.com

Address To: vedpr11111@gmail.com

Address To CC:

Address To BCC:

Address Reply-To:

Auth settings

☒ Use Auth

Username: vedprakash.hzb@gmail.com

Password:

Security settings

☐ Use no security features ☐ Use SSL ☒ Use StartTLS

☐ Trust all certificates ☐ Use local truststore ☐ Enforce StartTLS

Local truststore:

Override System SSL/TLS Protocols:

Message settings

Subject: Email from JMeter ☐ Suppress Subject Header

☐ Include timestamp in subject

Add Header

This is a test email from JMeter.

Message: ☐ Send plain body (i.e. not multipart/mixed)

Attach file(s): Browse...

☐ Send .eml: Browse...

Additional Settings

☐ Calculate message size ☐ Enable debug logging?

Text

SMTP Sampler

Sampler result

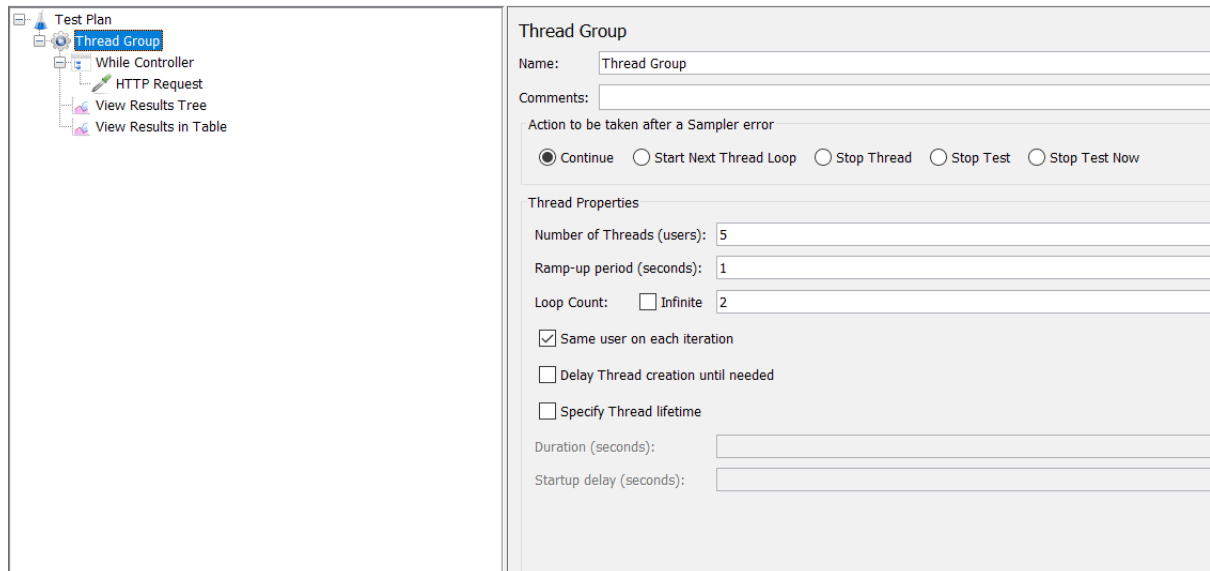
Request

Response data

Thread Name:Thread Group 1-1
Sample Start:2022-03-25 11:51:13 IST
Load time:43
Connect Time:0
Latency:0
Size in bytes:200
Sent bytes:0
Headers size in bytes:0
Body size in bytes:200
Sample Count:1
Error Count:1
Data type ("text"|"bin"|""):text
Response code:500
Response message:Couldn't connect to host, port: smtp.gmail.com, 587; timeout 20

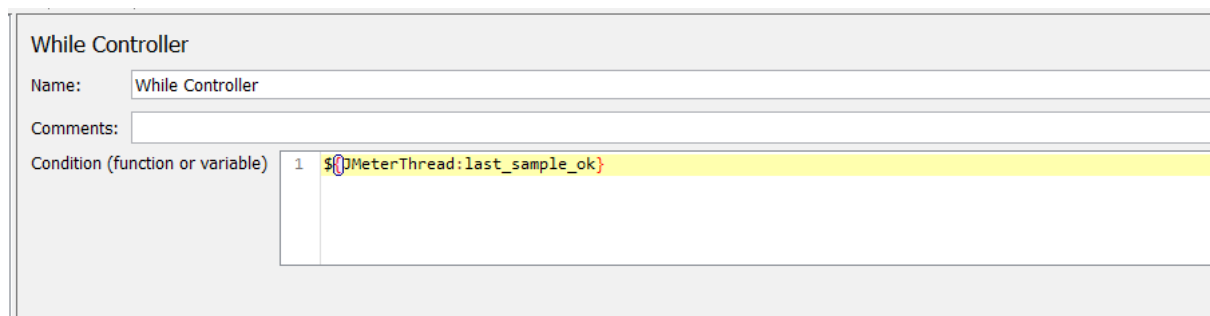
SampleResult fields:
ContentType:
DataEncoding: null

Exercise 5) Add a While Controller to test script which tests the HTTP service of Google web site which is based on the condition that it will execute the next thread when the previous thread execution is successful.



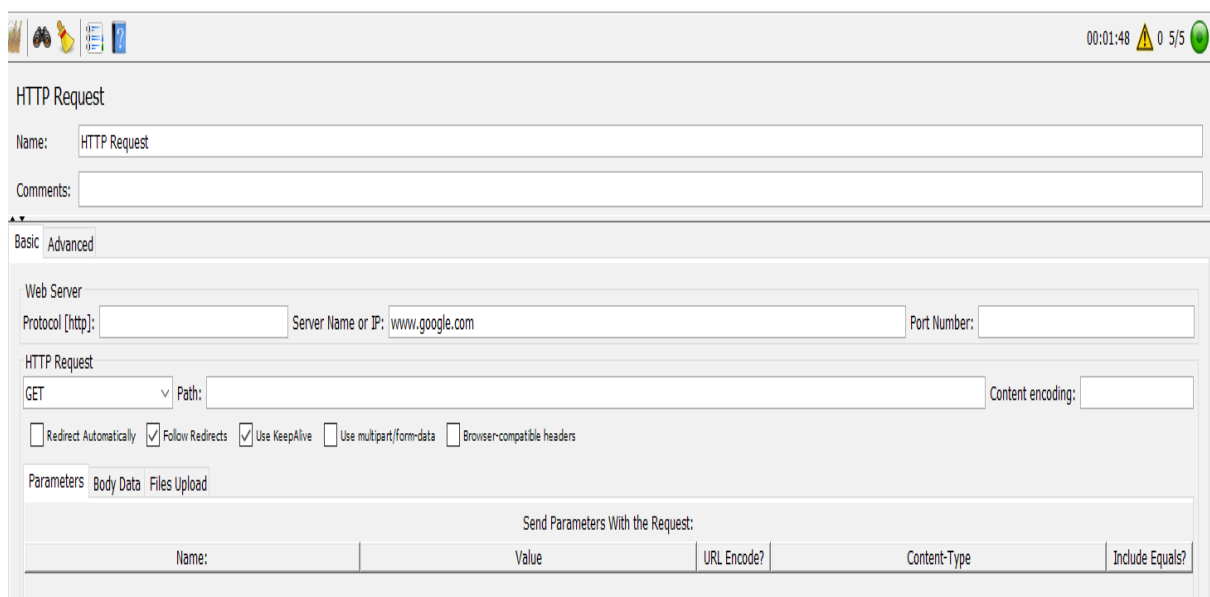
The screenshot shows the JMeter configuration for a Thread Group. On the left, a tree view shows the hierarchy: Test Plan > Thread Group > While Controller > HTTP Request > View Results Tree > View Results in Table. The Thread Group configuration panel on the right includes:

- Name:** Thread Group
- Comments:** (empty)
- Action to be taken after a Sampler error:** ☒ Continue, ☐ Start Next Thread Loop, ☐ Stop Thread, ☐ Stop Test, ☐ Stop Test Now
- Thread Properties:**
 - Number of Threads (users):** 5
 - Ramp-up period (seconds):** 1
 - Loop Count:** ☐ Infinite, ☒ 2
 - ☒ Same user on each iteration
 - ☐ Delay Thread creation until needed
 - ☐ Specify Thread lifetime
 - Duration (seconds):** (empty)
 - Startup delay (seconds):** (empty)



The screenshot shows the JMeter While Controller configuration panel. It includes:

- Name:** While Controller
- Comments:** (empty)
- Condition (function or variable):** 1 `${JMeterThread:last_sample_ok}`



The screenshot shows the JMeter HTTP Request configuration panel. At the top, there are icons for help, test, and status, along with a timer showing 00:01:48 and a progress indicator 0 5/5. The configuration includes:

- Name:** HTTP Request
- Comments:** (empty)
- Basic tab:**
 - Web Server:**
 - Protocol [http]:** (empty)
 - Server Name or IP:** www.google.com
 - Port Number:** (empty)
 - HTTP Request:**
 - Method:** GET
 - Path:** (empty)
 - Content encoding:** (empty)
 - ☐ Redirect Automatically, ☒ Follow Redirects, ☒ Use KeepAlive, ☐ Use multipart/form-data, ☐ Browser-compatible headers
- Parameters tab:**
 - Body Data:** (empty)
 - Files Upload:** (empty)
- Send Parameters With the Request:**

Name:	Value	URL Encode?	Content-Type	Include Equals?

Sample #	Start Time	Thread Name	Label	Sample Time(ms)	Status	Bytes	Sent Bytes	Latency	Connect Time(ms)
1	12:09:24.150	Thread Group 1-1	HTTP Request	579	✓	17142	119	523	137
2	12:09:24.150	Thread Group 1-2	HTTP Request	622	✓	17134	119	550	140
3	12:09:24.465	Thread Group 1-4	HTTP Request	493	✓	17139	119	430	66
4	12:09:24.730	Thread Group 1-1	HTTP Request	407	✓	17083	119	383	0
5	12:09:24.665	Thread Group 1-5	HTTP Request	493	✓	17170	119	435	62
6	12:09:24.772	Thread Group 1-2	HTTP Request	410	✓	17146	119	384	0
7	12:09:24.958	Thread Group 1-4	HTTP Request	405	✓	17134	119	387	0
8	12:09:25.159	Thread Group 1-5	HTTP Request	376	✓	17082	119	357	0
9	12:09:25.137	Thread Group 1-1	HTTP Request	402	✓	17087	119	380	0
10	12:09:25.183	Thread Group 1-2	HTTP Request	419	✓	17175	119	394	0
11	12:09:24.266	Thread Group 1-3	HTTP Request	1444	✓	17129	119	1376	71
12	12:09:25.364	Thread Group 1-4	HTTP Request	499	✓	17133	119	480	0
13	12:09:25.540	Thread Group 1-1	HTTP Request	378	✓	17124	119	360	0
14	12:09:25.711	Thread Group 1-3	HTTP Request	403	✓	17126	119	383	0
15	12:09:25.603	Thread Group 1-2	HTTP Request	517	✓	17100	119	399	0
16	12:09:25.536	Thread Group 1-5	HTTP Request	620	✓	17137	119	599	0
17	12:09:25.863	Thread Group 1-4	HTTP Request	384	✓	17123	119	350	0
18	12:09:25.918	Thread Group 1-1	HTTP Request	547	✓	17126	119	390	0
19	12:09:26.120	Thread Group 1-2	HTTP Request	419	✓	17116	119	397	0
20	12:09:26.156	Thread Group 1-5	HTTP Request	441	✓	17074	119	429	0
21	12:09:26.247	Thread Group 1-4	HTTP Request	364	✓	17074	119	345	0
22	12:09:26.465	Thread Group 1-1	HTTP Request	397	✓	17107	119	379	0
23	12:09:26.539	Thread Group 1-2	HTTP Request	410	✓	17119	119	381	0
24	12:09:26.598	Thread Group 1-5	HTTP Request	394	✓	17084	119	377	0
25	12:09:26.114	Thread Group 1-3	HTTP Request	1053	✓	17095	119	1034	0
26	12:09:26.611	Thread Group 1-4	HTTP Request	575	✓	17113	119	560	0
27	12:09:26.863	Thread Group 1-1	HTTP Request	395	✓	17140	119	374	0
28	12:09:26.949	Thread Group 1-2	HTTP Request	408	✓	17121	119	390	0
29	12:09:26.992	Thread Group 1-5	HTTP Request	397	✓	17111	119	376	0
30	12:09:27.168	Thread Group 1-3	HTTP Request	381	✓	17106	119	361	0
31	12:09:27.258	Thread Group 1-1	HTTP Request	377	✓	17156	119	353	0
32	12:09:27.187	Thread Group 1-4	HTTP Request	509	✓	17139	119	487	0
33	12:09:27.358	Thread Group 1-2	HTTP Request	398	✓	17118	119	377	0
34	12:09:27.390	Thread Group 1-5	HTTP Request	397	✓	17126	119	377	0
35	12:09:27.635	Thread Group 1-1	HTTP Request	397	✓	17085	119	376	0
36	12:09:27.787	Thread Group 1-5	HTTP Request	368	✓	17095	119	342	0
37	12:09:27.757	Thread Group 1-2	HTTP Request	408	✓	17104	119	386	0
38	12:09:27.697	Thread Group 1-4	HTTP Request	621	✓	17124	119	604	0
39	12:09:28.032	Thread Group 1-1	HTTP Request	409	✓	17144	119	385	0
40	12:09:28.155	Thread Group 1-5	HTTP Request	398	✓	17108	119	377	0
41	12:09:28.165	Thread Group 1-2	HTTP Request	408	✓	17079	119	389	0
42	12:09:27.549	Thread Group 1-3	HTTP Request	1057	✓	17101	119	1036	0
43	12:09:28.318	Thread Group 1-4	HTTP Request	379	✓	17126	119	359	0
44	12:09:28.441	Thread Group 1-1	HTTP Request	373	✓	17129	119	353	0

☐ Scroll automatically? ☐ Child samples?

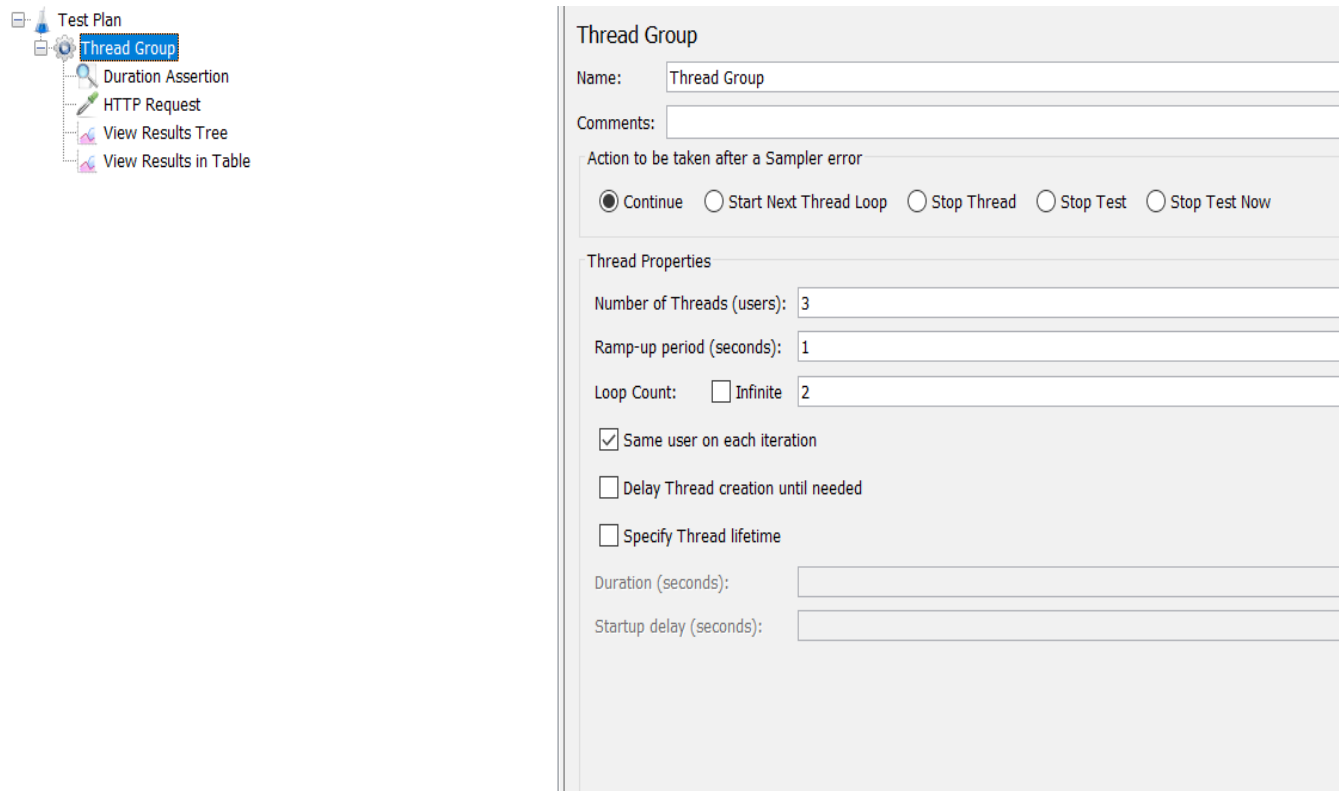
No of Samples 1514

Latest Sample 406

Average 508

Deviation 439

Exercise 6) Create a script which will raise a warning when the response from the server gets longer by 2000 milliseconds.



The screenshot shows the JMeter Test Plan tree on the left with 'Thread Group' selected. The right pane displays the 'Thread Group' configuration tab. The 'Name' field is 'Thread Group'. The 'Comments' field is empty. Under 'Action to be taken after a Sampler error', the 'Continue' radio button is selected. The 'Thread Properties' section shows 'Number of Threads (users)' as 3, 'Ramp-up period (seconds)' as 1, and 'Loop Count' as 2 with the 'Infinite' checkbox unchecked. The 'Same user on each iteration' checkbox is checked, while 'Delay Thread creation until needed' and 'Specify Thread lifetime' are unchecked. The 'Duration (seconds)' and 'Startup delay (seconds)' fields are empty.

Test Plan

- Thread Group
 - Duration Assertion
 - HTTP Request
 - View Results Tree
 - View Results in Table

Thread Group

Name: Thread Group

Comments:

Action to be taken after a Sampler error

☒ Continue ☐ Start Next Thread Loop ☐ Stop Thread ☐ Stop Test ☐ Stop Test Now

Thread Properties

Number of Threads (users): 3

Ramp-up period (seconds): 1

Loop Count: ☐ Infinite 2

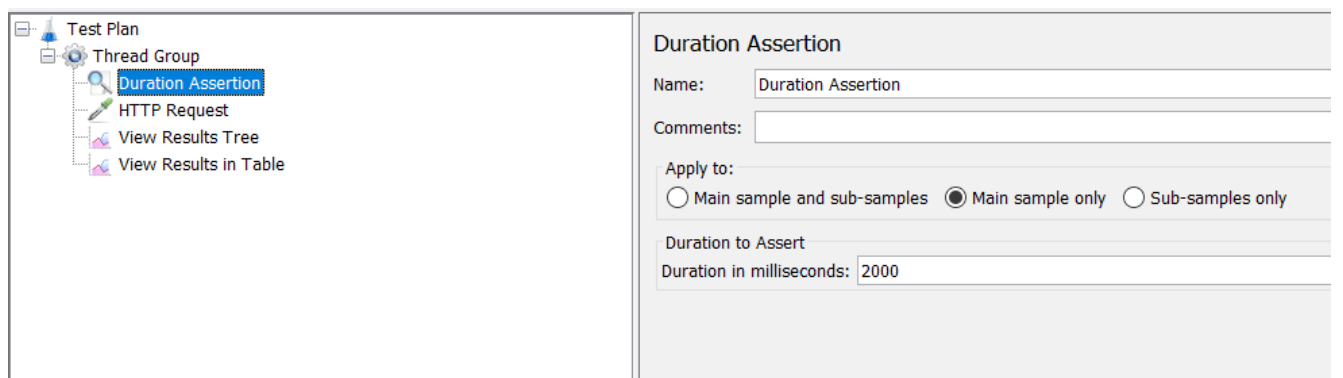
☒ Same user on each iteration

☐ Delay Thread creation until needed

☐ Specify Thread lifetime

Duration (seconds):

Startup delay (seconds):



The screenshot shows the JMeter Test Plan tree on the left with 'Duration Assertion' selected. The right pane displays the 'Duration Assertion' configuration tab. The 'Name' field is 'Duration Assertion'. The 'Comments' field is empty. Under 'Apply to:', the 'Main sample only' radio button is selected. The 'Duration to Assert' section shows 'Duration in milliseconds' as 2000.

Test Plan

- Thread Group
 - Duration Assertion
 - HTTP Request
 - View Results Tree
 - View Results in Table

Duration Assertion

Name: Duration Assertion

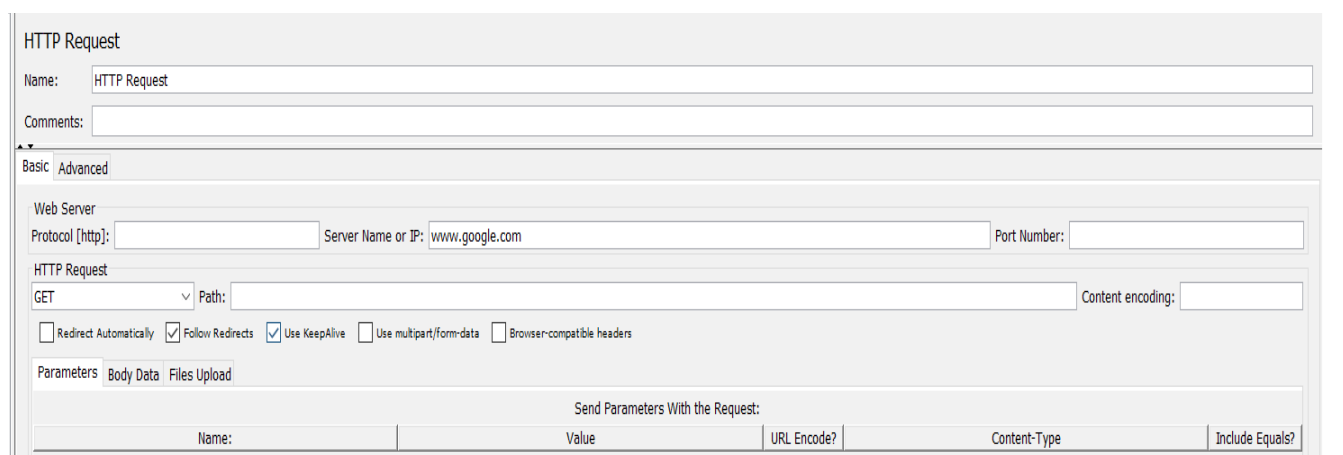
Comments:

Apply to:

☐ Main sample and sub-samples ☒ Main sample only ☐ Sub-samples only

Duration to Assert

Duration in milliseconds: 2000



The screenshot shows the JMeter HTTP Request configuration tab. The 'Name' field is 'HTTP Request'. The 'Comments' field is empty. The 'Basic' tab is selected. The 'Web Server' section shows 'Protocol [http]:' as http, 'Server Name or IP:' as www.google.com, and 'Port Number:' as empty. The 'HTTP Request' section shows 'Method' as GET and 'Path:' as empty. The 'Content encoding:' field is empty. The 'Redirect Automatically' checkbox is unchecked, 'Follow Redirects' is checked, 'Use KeepAlive' is checked, 'Use multipart/form-data' is unchecked, and 'Browser-compatible headers' is unchecked. The 'Parameters' tab is selected. The 'Send Parameters With the Request:' section shows a table with columns: Name, Value, URL Encode?, Content-Type, and Include Equals?.

HTTP Request

Name: HTTP Request

Comments:

Basic Advanced

Web Server

Protocol [http]: Server Name or IP: www.google.com Port Number:

HTTP Request

Method: GET Path: Content encoding:

☐ Redirect Automatically ☒ Follow Redirects ☒ Use KeepAlive ☐ Use multipart/form-data ☐ Browser-compatible headers

Parameters Body Data Files Upload

Send Parameters With the Request:

Name	Value	URL Encode?	Content-Type	Include Equals?
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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	12:22:19.494	Thread Group 1-1	HTTP Request	563		17099	119	494	80
2	12:22:19.826	Thread Group 1-2	HTTP Request	526		17103	119	453	65
3	12:22:20.158	Thread Group 1-3	HTTP Request	549		17143	119	485	69
4	12:22:20.707	Thread Group 1-3	HTTP Request	434		17112	119	407	0
5	12:22:20.058	Thread Group 1-1	HTTP Request	1226		17132	119	1102	0
6	12:22:20.352	Thread Group 1-2	HTTP Request	1144		17071	119	1118	0
7	12:22:22.112	Thread Group 1-1	HTTP Request	560		17082	119	490	74
8	12:22:22.448	Thread Group 1-2	HTTP Request	541		17046	119	476	63
9	12:22:22.672	Thread Group 1-1	HTTP Request	437		17111	119	409	0
10	12:22:22.781	Thread Group 1-3	HTTP Request	537		17095	119	468	72
11	12:22:22.989	Thread Group 1-2	HTTP Request	431		17078	119	407	0
12	12:22:23.319	Thread Group 1-3	HTTP Request	485		17121	119	485	0