

# **Load Testing on COURSE GAME DA-IICT**

**Prepared by Group #02**

**For DA-IICT**

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what is Load Testing ?

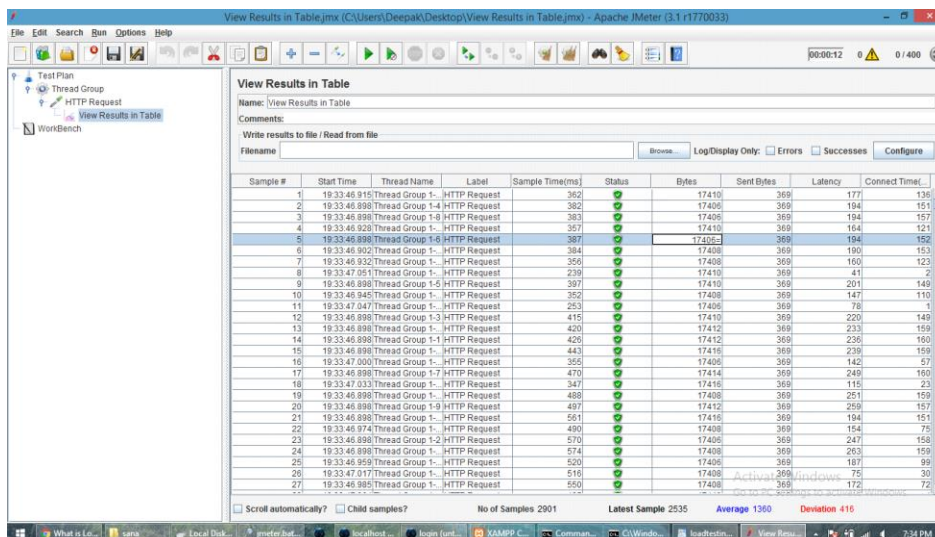
Load testing is the process of putting request on a software system or computing device and measuring response Load testing is being used to determine a system's behaviour under both normal and load conditions.

why Load Testing ?

Load testing mainly helps to identify the maximum capacity of an application.If the number of user are increased then how much cpu memory be constructed,what is the network and bandwidth response time.Load testing determines how your application behaves when mulitple user hits it simultaeously.The primary goal of load testing is to define the maximum amount of work a system can handle without significant performance degradation.

Performance testing

Performance testing is testing that is performed, to determine how fast some aspect of a system performs under a particular workload. It can compare two systems to find which performs better. Or it can measure what part of the system or workload causes the system to perform badly.



The screenshot shows the Apache JMeter 'View Results in Table' window. The table displays the following data:

Sample #	Start Time	Thread Name	Label	Sample Time(ms)	Status	Bytes	Sent Bytes	Latency	Connect Time
1	19.33.46.915	Thread Group 1-	HTTP Request	362	✓	17410	369	177	136
2	19.33.46.990	Thread Group 1-4	HTTP Request	362	✓	17409	369	164	151
3	19.33.46.998	Thread Group 1-6	HTTP Request	363	✓	17406	369	164	157
4	19.33.46.926	Thread Group 1-	HTTP Request	357	✓	17410	369	164	121
5	19.33.46.898	Thread Group 1-6	HTTP Request	387	✓	17409	369	164	152
6	19.33.46.902	Thread Group 1-	HTTP Request	384	✓	17408	369	160	153
7	19.33.46.932	Thread Group 1-	HTTP Request	356	✓	17408	369	160	123
8	19.33.47.051	Thread Group 1-	HTTP Request	239	✓	17410	369	61	2
9	19.33.46.898	Thread Group 1-6	HTTP Request	397	✓	17410	369	201	148
10	19.33.46.945	Thread Group 1-	HTTP Request	352	✓	17408	369	147	110
11	19.33.47.047	Thread Group 1-	HTTP Request	253	✓	17406	369	78	1
12	19.33.46.898	Thread Group 1-3	HTTP Request	415	✓	17410	369	220	149
13	19.33.46.898	Thread Group 1-	HTTP Request	420	✓	17412	369	233	159
14	19.33.46.898	Thread Group 1-1	HTTP Request	426	✓	17412	369	236	160
15	19.33.46.898	Thread Group 1-	HTTP Request	443	✓	17416	369	239	159
16	19.33.47.000	Thread Group 1-	HTTP Request	355	✓	17406	369	142	57
17	19.33.46.898	Thread Group 1-7	HTTP Request	470	✓	17414	369	249	160
18	19.33.47.033	Thread Group 1-	HTTP Request	347	✓	17416	369	115	23
19	19.33.46.898	Thread Group 1-	HTTP Request	488	✓	17408	369	251	159
20	19.33.46.898	Thread Group 1-9	HTTP Request	497	✓	17412	369	269	157
21	19.33.46.898	Thread Group 1-	HTTP Request	561	✓	17416	369	194	151
22	19.33.46.974	Thread Group 1-	HTTP Request	490	✓	17408	369	154	75
23	19.33.46.898	Thread Group 1-2	HTTP Request	570	✓	17406	369	247	158
24	19.33.46.898	Thread Group 1-	HTTP Request	574	✓	17408	369	263	159
25	19.33.46.859	Thread Group 1-	HTTP Request	500	✓	17406	369	167	89
26	19.33.47.017	Thread Group 1-	HTTP Request	516	✓	17408	369	75	30
27	19.33.46.985	Thread Group 1-	HTTP Request	550	✓	17408	369	172	72

Stress testing

Stress testing is the process of determining the ability of a computer, network, program or device to maintain a certain level of effectiveness under unfavorable conditions. The process can involve

quantitative tests done in a lab, such as measuring the frequency of errors or system crashes.

Thread Group.jmx (C:\Users\sagar\Desktop\SEN\sana\test\_plan\Thread Group.jmx) - Apache JMeter (3.1 r1770033)

Test Plan  
Thread Group  
HTTP Request  
WorkBench

View Results in Table

Name: View Results in Table

Comments:

Write results to file / Read from file

Filename:  Browse Log/Display Only: ☐ Errors ☐ Successes

Sample #	Start Time	Thread Name	Label	Sample Time (ms)	Status	Bytes	Sent Bytes	Latency	Conned Time (s)
550	19:39:02.813	Thread Group 1...	HTTP Request	1132	Success	2204	0	0	1132
551	19:39:02.846	Thread Group 1...	HTTP Request	1099	Success	2204	0	0	1099
552	19:39:02.848	Thread Group 1...	HTTP Request	1097	Success	2204	0	0	1097
553	19:39:02.819	Thread Group 1...	HTTP Request	1126	Success	2204	0	0	1126
554	19:39:02.837	Thread Group 1...	HTTP Request	1108	Success	2204	0	0	1108
555	19:39:02.848	Thread Group 1...	HTTP Request	1097	Success	2204	0	0	1097
556	19:39:01.712	Thread Group 1...	HTTP Request	2234	Success	17404	367	500	0
557	19:39:02.813	Thread Group 1...	HTTP Request	1132	Success	2204	0	0	1132
558	19:39:01.970	Thread Group 1...	HTTP Request	1976	Success	3202	181	724	0
559	19:39:02.833	Thread Group 1...	HTTP Request	1114	Success	2204	0	0	1114
560	19:39:02.808	Thread Group 1...	HTTP Request	1139	Success	2204	0	0	1139
561	19:39:01.871	Thread Group 1...	HTTP Request	1976	Success	3194	181	723	0
562	19:39:02.089	Thread Group 1...	HTTP Request	1859	Success	3198	181	664	0
563	19:39:01.967	Thread Group 1...	HTTP Request	1981	Success	3198	181	722	0
564	19:39:01.701	Thread Group 1...	HTTP Request	2248	Success	17405	367	470	0
565	19:39:01.719	Thread Group 1...	HTTP Request	2234	Success	17405	367	468	0
566	19:39:01.701	Thread Group 1...	HTTP Request	2253	Success	17414	367	469	0
567	19:39:01.721	Thread Group 1...	HTTP Request	2233	Success	17412	367	468	0
568	19:39:01.702	Thread Group 1...	HTTP Request	2253	Success	17405	367	481	0
569	19:39:01.751	Thread Group 1...	HTTP Request	2204	Success	17408	367	449	0
570	19:39:01.753	Thread Group 1...	HTTP Request	2203	Success	17410	367	447	0
571	19:39:02.811	Thread Group 1...	HTTP Request	1090	Success	2204	0	0	1090
572	19:39:02.800	Thread Group 1...	HTTP Request	1058	Success	2204	0	0	1058
573	19:39:02.052	Thread Group 1...	HTTP Request	1908	Success	3195	181	698	0
574	19:39:01.755	Thread Group 1...	HTTP Request	2209	Success	17410	367	447	0
575	19:39:01.758	Thread Group 1...	HTTP Request	2208	Success	17410	367	445	0
576	19:39:02.866	Thread Group 1...	HTTP Request	1113	Success	2204	0	0	1113

☐ Scroll automatically? ☐ Child samples? No of Samples: 10823 Latest Sample: 612 Average: 1481 Deviation: 1105

Thread Group.jmx (C:\Users\sagar\Desktop\SEN\sana\test\_plan\Thread Group.jmx) - Apache JMeter (3.1 r1770033)

Test Plan  
Thread Group  
HTTP Request  
WorkBench

View Results in Table

Name: View Results in Table

Comments:

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xampp-control.exe has stopped working

Windows can check online for a solution to the problem.

Check online for a solution and close the program

Close the program

View problem details

Sample #	Start Time	Thread Name	Label	Sample Time (ms)	Status	Bytes	Sent Bytes	Latency	Conned Time (s)
14	19:41:19.695	Thread Group 1...	HTTP Request	109	Success	17414	367	6	1
15	19:41:19.693	Thread Group 1...	HTTP Request	111	Success	17412	367	7	1
16	19:41:19.749	Thread Group 1-4	HTTP Request	63	Success	17404	367	31	1
17	19:41:19.746	Thread Group 1...	HTTP Request	67	Success	17408	367	32	2
18	19:41:19.745	Thread Group 1...	HTTP Request	68	Success	17408	367	33	1
19	19:41:19.744	Thread Group 1...	HTTP Request	69	Success	17410	367	34	0
20	19:41:19.748	Thread Group 1...	HTTP Request	66	Success	17414	367	30	1
21	19:41:19.743	Thread Group 1...	HTTP Request	70	Success	17408	367	35	0
22	19:41:19.743	Thread Group 1...	HTTP Request	70	Success	17410	367	35	0
23	19:41:19.742	Thread Group 1...	HTTP Request	72	Success	17410	367	37	0
24	19:41:19.709	Thread Group 1...	HTTP Request	105	Success	17408	367	27	1
25	19:41:19.729	Thread Group 1-6	HTTP Request	85	Success	17408	367	11	0
26	19:41:19.725	Thread Group 1...	HTTP Request	89	Success	17410	367	17	0
27	19:41:19.804	Thread Group 1-1	HTTP Request	52	Success	17410	367	12	0

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