

JMETER Amar Solution Performance report



JMeter Summary Report

◆ Test Overview

- Tool: Apache JMeter 5.6.3
 - Test Type: HTTP Performance Test
 - Thread Group: users
 - Sampler: HTTP Request
 - Total Samples: 100
 - Reported By: Mouno Patrick Desilva(Jr. SQA - Akaar It LTD)
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◆ Performance Metrics

Metric	Value
Total Samples	100
Average Response Time	239 ms
Minimum Response Time	95 ms
Maximum Response Time	1366 ms
Standard Deviation	279.17 ms
Standard Deviation %	116.8%
Error Rate	0.00%

Throughput	9.8 requests/sec
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Received Data	1241.68 KB/sec
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Sent Data	2.25 KB/sec
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Average Response Size	130,199.5 bytes
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◆ Result Analysis

- All 100 requests executed successfully with 0% error rate, indicating stable functionality.
- The average response time (239 ms) is acceptable for normal application usage.
- The maximum response time (1366 ms) indicates occasional slow responses.
- The standard deviation is 279.17 ms (116.8%), showing high variation in response times.
- Backend processing delays, database performance issues, or inconsistent server resource utilization may cause high variation.

◆ Recommendations

1. **Investigate Slow Requests**
Analyze requests with higher response times (close to 1366 ms) using JMeter listeners or server logs to identify bottlenecks.
2. **Backend Optimization**
Review database queries, API logic, and third-party service calls to reduce response time variability.
3. **Increase Test Duration & Load**
Run longer tests with increased users to observe performance stability under sustained load.
4. **Monitor Server Resources**
Track CPU, memory, and network usage during test execution to identify resource constraints.

5. Implement Caching Mechanisms

Use caching (if applicable) to reduce response times for frequently accessed data.

6. Retest After Optimization

Perform regression performance testing after fixes to confirm improvements in average response time and standard deviation.

◆ Conclusion

The application is functionally stable with zero errors under the tested load. However, the high standard deviation (116.8%) indicates inconsistent performance.

Implementing the recommended optimizations and re-testing will help achieve more consistent and reliable response times.

◆ Attachments :

View Results in Table

Name: View Results in Table

Comments:

Write results to file / Read from file

Filename: Log/Display Only: ☐ Errors ☐ Successes

Sample #	Start Time	Thread Name	Label	Sample Time(ms)	Status	Bytes	Sent Bytes	Latency	Connect Time(ms)
22	15:00:58.451	users 1-24	HTTP Request	123	✓	130183	236	6	4
23	15:00:57.454	users 1-14	HTTP Request	1151	✓	130183	236	7	4
24	15:00:58.652	users 1-26	HTTP Request	113	✓	130183	236	6	3
25	15:00:57.654	users 1-16	HTTP Request	1131	✓	130183	236	1017	1014
26	15:00:58.752	users 1-27	HTTP Request	132	✓	130183	236	7	4
27	15:00:58.952	users 1-29	HTTP Request	109	✓	130183	236	5	3
28	15:00:59.053	users 1-30	HTTP Request	152	✓	130183	236	5	3
29	15:00:59.153	users 1-31	HTTP Request	139	✓	130183	236	6	3
30	15:00:59.254	users 1-32	HTTP Request	115	✓	130183	236	5	2
31	15:00:59.453	users 1-34	HTTP Request	119	✓	130183	236	5	3
32	15:00:58.551	users 1-25	HTTP Request	1129	✓	130183	236	1012	1010
33	15:00:59.354	users 1-33	HTTP Request	370	✓	130183	236	5	3
34	15:00:59.655	users 1-36	HTTP Request	128	✓	130183	236	7	3
35	15:00:59.752	users 1-37	HTTP Request	105	✓	130183	236	5	3
36	15:00:59.554	users 1-35	HTTP Request	363	✓	130183	236	217	3
37	15:00:59.852	users 1-38	HTTP Request	166	✓	130183	236	5	3
38	15:00:59.952	users 1-39	HTTP Request	108	✓	130183	236	5	3
39	15:01:00.052	users 1-40	HTTP Request	139	✓	130183	236	6	3
40	15:00:58.853	users 1-28	HTTP Request	1366	✓	130183	236	1006	1004
41	15:01:00.154	users 1-41	HTTP Request	470	✓	130183	236	5	3
42	15:01:00.354	users 1-43	HTTP Request	417	✓	130183	236	5	3
43	15:01:00.254	users 1-42	HTTP Request	523	✓	130183	236	4	2
44	15:01:00.455	users 1-44	HTTP Request	397	✓	130183	236	4	2
45	15:01:00.555	users 1-45	HTTP Request	354	✓	130334	236	7	4
46	15:01:00.653	users 1-46	HTTP Request	285	✓	130334	236	6	4
47	15:01:00.853	users 1-48	HTTP Request	275	✓	130334	236	5	3

☐ Scroll automatically? ☐ Child samples? No of Samples 100 Latest Sample 333 Average 230 Deviation 279

JMETER 360 Performance report



JMeter Summary Report

◆ Test Overview

- Tool: Apache JMeter 5.6.3
- Test Type: HTTP Load / Performance Test
- Thread Group: Users
- Sampler: HTTP Request
- Total Samples: 100

◆ Performance Metrics

Metric	Value
Total Samples	100
Average Response Time	775 ms
Minimum Response Time	424 ms
Maximum Response Time	1764 ms
Standard Deviation	212.73 ms
Standard Deviation %	27.45%
Error Rate	0.00%
Throughput	56.7 requests/sec
Received Data	994.83 KB/sec
Sent Data	28.40 KB/sec
Average Response Size	17,970 bytes

◆ Standard Deviation % Calculation

[
(212.73 \div 775) \times 100 \approx \mathbf{27.45\%}
]

◆ Result Analysis

- All 100 HTTP requests were executed successfully with 0% error rate, indicating stable application behavior.
- The average response time (775 ms) is acceptable under moderate load.
- The maximum response time (1764 ms) shows some slower responses but not extreme.
- Standard deviation of 27.45% indicates moderate and acceptable variation in response times.
- High throughput (56.7 req/sec) shows the system can handle concurrent users efficiently.
- Consistent data transfer rates suggest stable request/response payloads.

◆ Recommendations

1. **Monitor Peak Response Times**
Investigate requests closer to the maximum response time (1764 ms) to ensure they don't increase under higher load.
2. **Backend Performance Review**
Check database queries, API logic, and external service calls contributing to slower responses.
3. **Run Stress Testing**
Increase concurrent users gradually to identify the system's breaking point.
4. **Optimize Server Resources**
Review CPU, memory, and thread utilization during peak throughput.
5. **Enable Performance Monitoring Tools**
Use APM tools (e.g., logs, server monitoring) alongside JMeter for deeper insights.

◆ Conclusion

The application demonstrates good performance and stability under the tested load with zero failures. The standard deviation (27.45%) indicates acceptable response time consistency. With minor backend optimization and further stress testing, the system can handle higher workloads reliably.

◆ Attachments :

00:00:01 0 0/100

View Results in Table

Name:

Comments:

Write results to file / Read from file

Filename Log/Display Only: ☐ Errors ☐ Successes

Sample #	Start Time	Thread Name	Label	Sample Time(ms)	Status	Bytes	Sent Bytes	Latency	Connect Time(ms)
75	17:31:14.874	users 1-81	HTTP Request	823		17970	513	5	3
76	17:31:14.834	users 1-77	HTTP Request	865		17970	513	5	3
77	17:31:14.669	users 1-60	HTTP Request	1031		17970	513	8	5
78	17:31:14.915	users 1-85	HTTP Request	787		17970	513	6	3
79	17:31:14.905	users 1-84	HTTP Request	799		17970	513	5	3
80	17:31:14.854	users 1-80	HTTP Request	857		17970	513	5	2
81	17:31:14.964	users 1-90	HTTP Request	756		17970	513	5	3
82	17:31:14.787	users 1-72	HTTP Request	948		17970	513	12	7
83	17:31:14.914	users 1-86	HTTP Request	829		17970	513	5	2
84	17:31:14.973	users 1-92	HTTP Request	774		17970	513	6	3
85	17:31:14.936	users 1-87	HTTP Request	815		17970	513	6	3
86	17:31:15.026	users 1-96	HTTP Request	727		17970	513	5	3
87	17:31:15.002	users 1-95	HTTP Request	755		17970	513	4	2
88	17:31:15.023	users 1-97	HTTP Request	735		17970	513	6	4
89	17:31:14.799	users 1-73	HTTP Request	963		17970	513	7	2
90	17:31:14.945	users 1-88	HTTP Request	819		17970	513	5	3
91	17:31:14.942	users 1-89	HTTP Request	833		17970	513	7	5
92	17:31:14.975	users 1-91	HTTP Request	810		17970	513	5	3
93	17:31:15.006	users 1-94	HTTP Request	786		17970	513	6	3
94	17:31:15.046	users 1-98	HTTP Request	753		17970	513	4	2
95	17:31:15.066	users 1-100	HTTP Request	735		17970	513	5	3
96	17:31:15.057	users 1-99	HTTP Request	751		17970	513	4	2
97	17:31:14.098	users 1-4	HTTP Request	1710		17970	513	1056	1053
98	17:31:14.100	users 1-3	HTTP Request	1711		17970	513	1055	1051
99	17:31:14.996	users 1-93	HTTP Request	815		17970	513	5	3
100	17:31:14.065	users 1-1	HTTP Request	1764		17970	513	1089	1086

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