Pre-Registration

Performance Test Report

For

Execution of

Demographic_Detail – 10 users

Date: 20 March 2019

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Summary

This report presents the observations and findings of the load test conducted for a load of 10 users accessing demographic API Endpoint running for a duration of 5 minutes.

The objective of this load test was to observe and record the behavior of the application and the response time when users enter the demographic details.

Below are the scenario details:

Sprint/Report Name	Demographic_detail
Run Date	20-March -2019
Period	05:45 PM to 05:50 PM
Number of concurrent users	10
Ramp up	1 user per 5 second
Run Duration	5 minutes
Ramp down	1 user per 5 second

The transaction response times observed were as below:

API Name	No of Requests	Average Response Time	90% line(ms)	Min(ms)	Max(ms)	Error%	Through put/Sec	Throughput/Min
mosip_Pre-Registration_ Create_form _data	240	10346	22359	1392	31983	10.00%	0.88	52.50

Test Environment

The Integration test environment used for test execution.
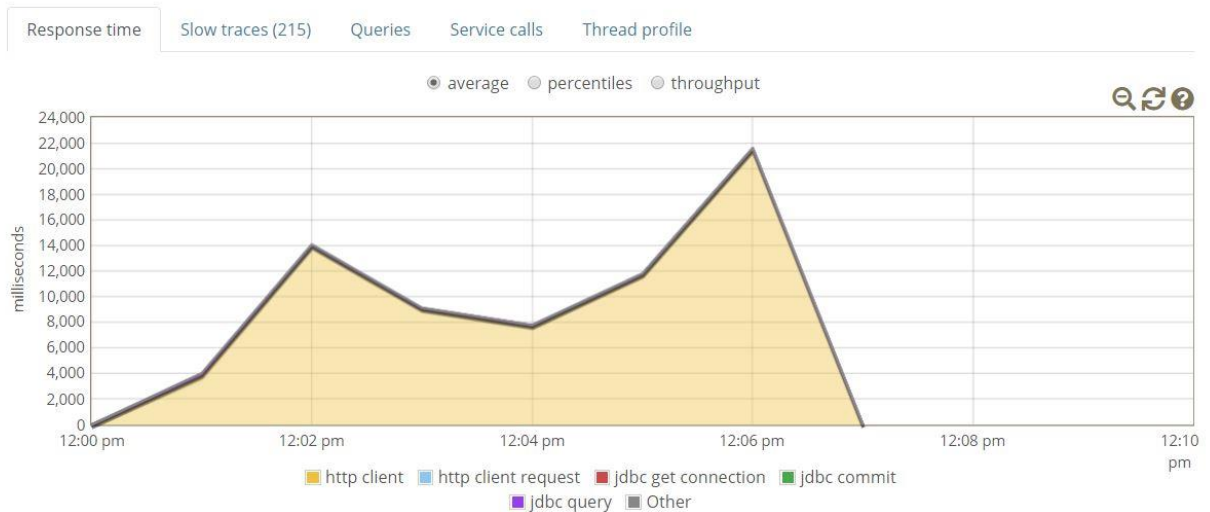
CPU cores: 2

Memory: 8GB

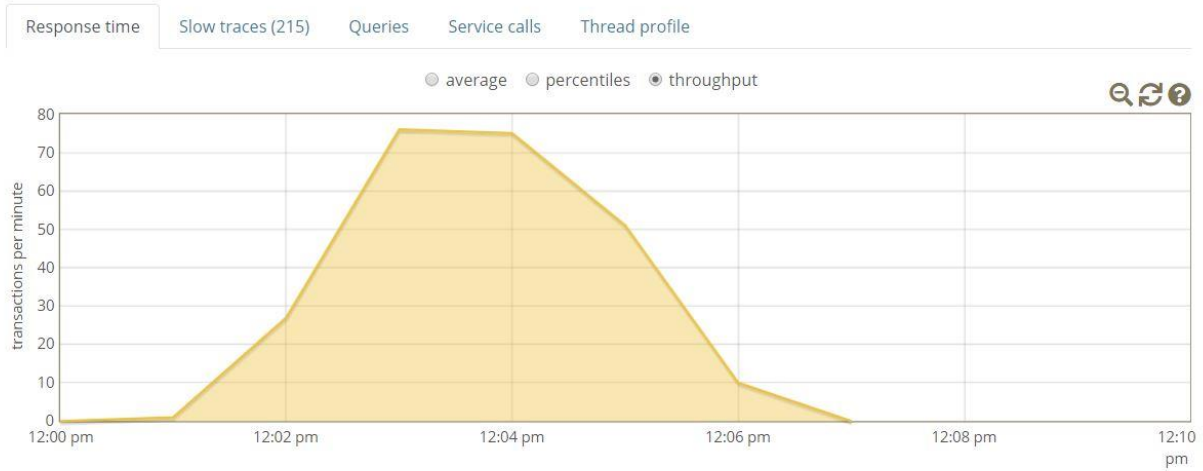Below are the observations from glowroot profiling tool.

Response Time Graph

There were very high response time noticed during the test.

Breakdown of Response time:

Breakdown:	total (ms)	count
http request	10,335.60	1
http client	10,236.50	1
http client request	50.8	2.9
wait on future	0.25	2.9
hibernate commit	13.7	1
jdbc commit	9	1.9
jdbc query	2.8	1
logging	0.21	0.3
jdbc rollback	0.16	0.1
jdbc get connection	9.3	1
hibernate merge	5.7	1
jdbc query	4.6	1
logging	1.2	20.8

Transactions per second:

Response time   Slow traces (215)   Queries   Service calls   Thread profile

○ average   ○ percentiles   ● throughput

Throughput: 24.0 transactions per minute
(240 transactions in this period)

ServiceCalls:

Transactions | Web ▾

Today, 12:00 PM to 12:13 PM ▾

By percent of total time ▾

All Web Transactions	100.0 %
/pre-registration/v1.0/demographic/applications	100.0 %

/pre-registration/v1.0/demographic/applications

Response time   Slow traces (215)   Queries   Service calls   Thread profile

	Total time ▾ (ms)	Total count	Avg time (ms)
GET http://104.211.212.28:51000/pre-registration-demographic-service/devops/SPRINT9_PREREG_TEAM_BRANCH/mosip-identity-json-schema-dev.json	2,456,752.4	240	10,236.5
POST http://integ.mosip.io/cryptomanager/v1.0/encrypt	5,952.7	240	24.8
POST http://integ.mosip.io/cryptomanager/v1.0/decrypt	5,087.2	216	23.6
POST http://integ.mosip.io/auditmanager/v1.0/audits	1,155.9	240	4.8

DB Queries:

/pre-registration/v1.0/demographic/applications

Response time   Slow traces (215)   Queries   Service calls   Thread profile

	Total time ▾ (ms)	Total count	Avg time (ms)	Avg rows
select demographi0_.prereg_id as prereg_i1_0_0_, demographi0_.demog_detail as demog_d...	1,105.8	240	4.6	0
insert into prereg.applicant_demographic (demog_detail, cr_appuser_id, cr_dtimes, cr_...	678.6	240	2.8	0.9

Test Observations:

During the load test, the average response time was more than 10 seconds and few requests was processed in 32 seconds. Using the glowroot profiling tool, we observed that the mosip-identity-json-schema-dev.json service call was processing at high response time. There were no high response time is observed in DB queries execution.

Json ServiceName: http://104.211.212.28:51000/pre-registration-demographic-service/devops/SPRINT9_PREREG_TEAM_BRANCH/mosip-identity-json-schema-dev.json

Error: During the test, there were few requests returned null response due to which 10% error rate in the overall test run.

Response: {"err":null,"status":false,"resTime":null,"response":null}

Conclusion and Next Steps:

Test report will be shared with the architect/development team to enhance the json service call request.