Mindtree

IDA

Performance Test Report

For

Execution of

ID Repo API – 20 users

Date: 12 March 2019

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Summary

This report presents the observations and findings of the load test conducted for a load of 20 users accessing the updateIdentity endpoint of id-repo for a duration of 10 minutes.

The objective of this load test was to observe and record the behavior of the application when end user updates an identity using the updateIdentity(PATCH) request.

Below are the scenario details:

Sprint/Report Name	SPRINT - 9 Kernel Id Repo Service
Run Date	12-March-2019
Period	15:34 to 15:45
Number of concurrent users	20
Ramp up	1 user per 3 seconds
Run Duration	10 minutes
Ramp down	

The transaction response time observed were as below:

Label	# Samples	Average	90% Line	Min	Max	Error %	Throughput
mosip_idrepo_updateIdentity	804	11011	20345	869	34594	0.25%	1.18654
TOTAL	804	11011	20345	869	34594	0.25%	1.18654

Performance Test Execution Details

The average and the 90th percentile transaction response time for update identity APIs are outside SLA (1 second) during the test.

Average response time during the test run is 11 second. 90 percentile response time is 20 seconds. The error seen in update identity request is because of time out exception on NGINX server.

It is observed that the CPU resource is utilized less than 10% for most of the time.

Test Environment

The Integration test environment used for test execution.

No of Cores: 8

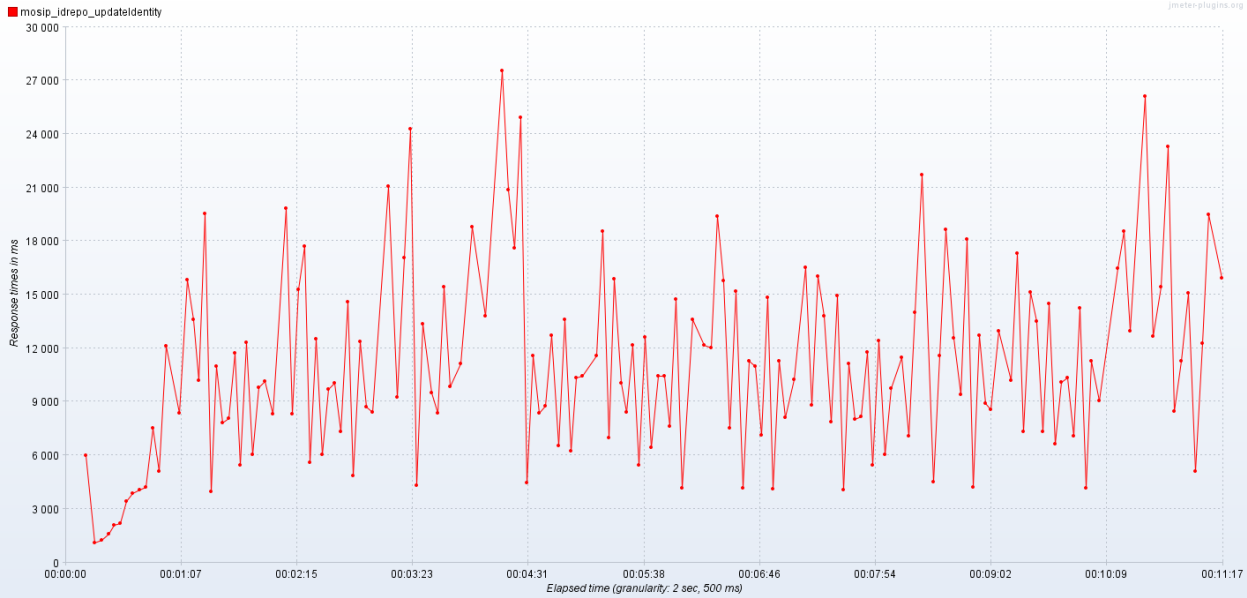
Memory: 16 GB

Response Time Graph

The response time of the update identity request is outside SLA when run with a load of 20 users.

Active Threads Over Time:

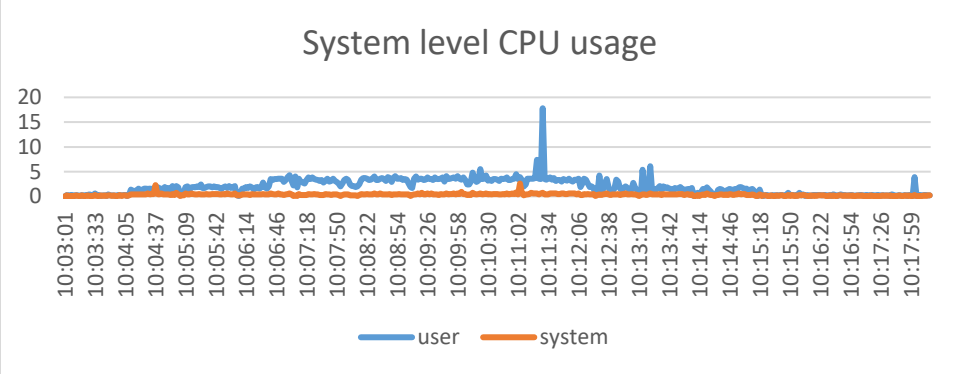
Response Times Over Time

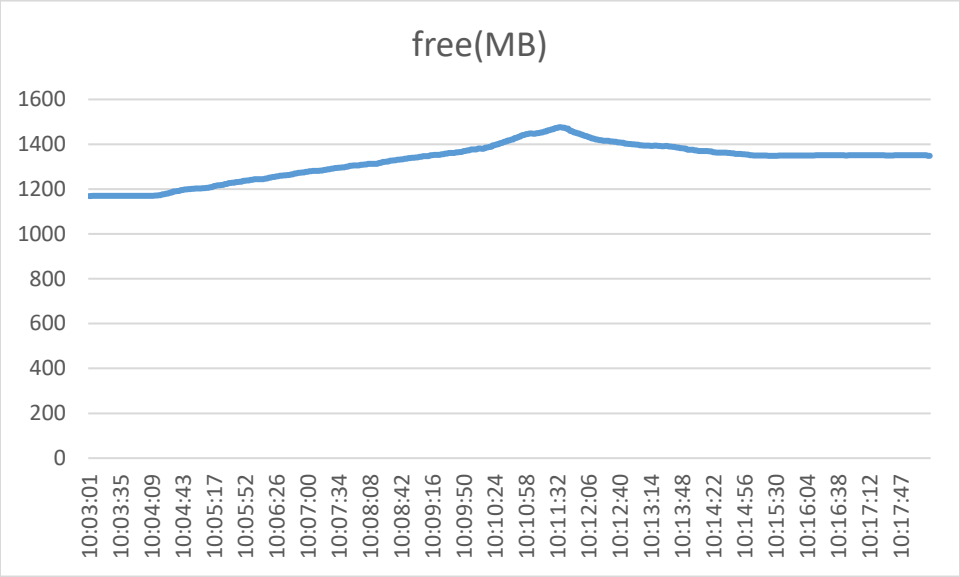


Resource Usage Metrics:

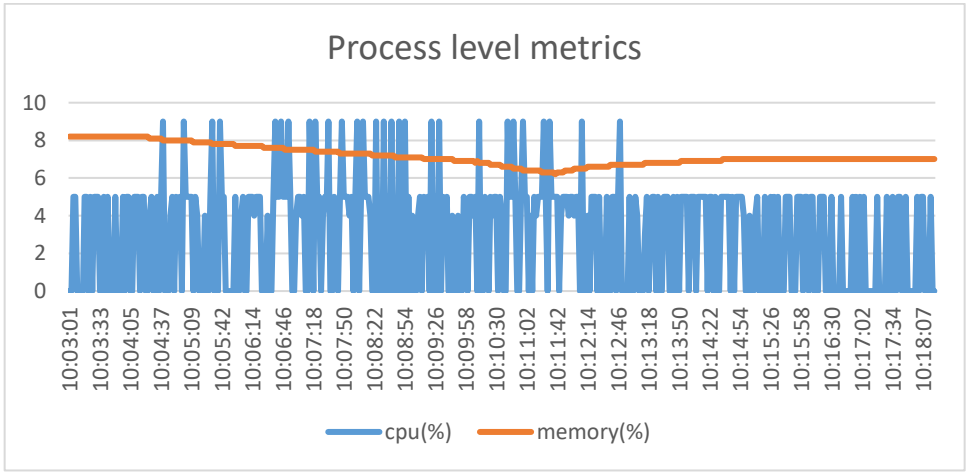
Top command of Linux was used to monitor and record the resource usage. System level and process level data for CPU and memory usage is demonstrated in the below graphs.

System level Metrics:





Process Level CPU and Memory Usage:



Conclusion and Next Steps

The CPU usage at system level had been below 10%. Memory usage by the application is also below 10%.

The average response time of add transaction is observed to be 11.0 seconds which is very high as compared to the SLA.