

IDA

Performance Test Report

For

Execution of

ID Repo API – 100 users

Date: 04 March 2019

Author: Gaurav Sharan

Summary

This report presents the observations and findings of the load test conducted for a load of 100 users accessing the POST API Endpoint of id-repo for a duration of 15 minutes.

The objective of this load test was to observe and record the behavior of the application when end user adds new identity using the id repo POST end point.

Below are the scenario details:

Sprint/Report Name	SPRINT - 9 Kernel Id Repo Service
Run Date	04-March-2019
Period	18:00 to 18:08
Number of concurrent users	100 (test stopped when users reached 54)
Ramp up	1 user per 2 seconds
Run Duration	08 minutes
Ramp down	

The transaction response time observed were as below:

Label	# Samples	Average	Median	90% Line	95% Line	Min	Max	Error %	Throughput
UIN Generator	426	327	108	230	319	84	22442	0.00%	1.40828
add Identity	416	21692	19745	45425	50434	854	57595	0.00%	1.28169
TOTAL	842	10883	869	37084	45425	84	57595	0.00%	2.55231

Performance Test Execution Details

The average and the 90th percentile transaction response time are outside SLA(s 3 second) during the test.

Average response time during the test run is 21.6 second. 90 percentile response time is 45 seconds.



It was observed that the CPU resource is utilized close to 10% for most of the time.

No requests have failed during the test run

Test Environment

The Integration test environment used for test execution.

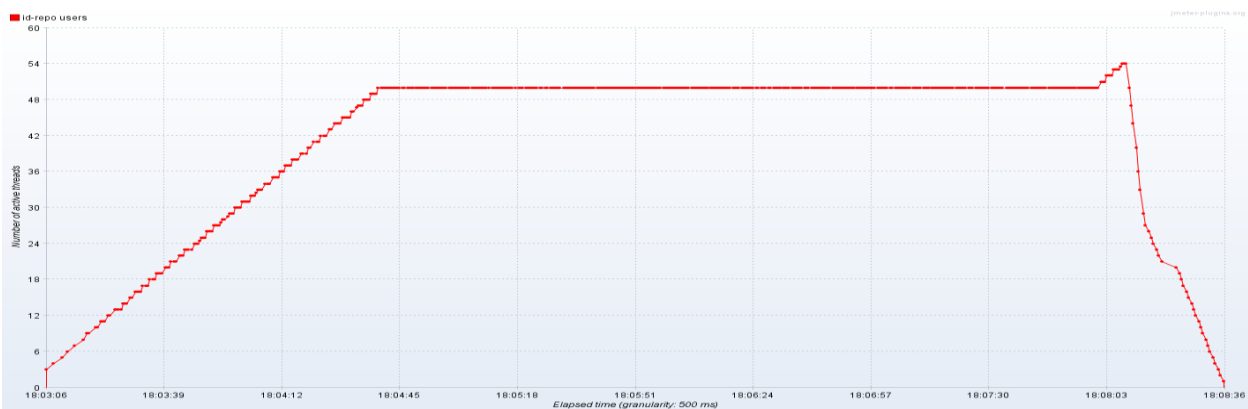
No of Cores: 8

Memory: 16GB

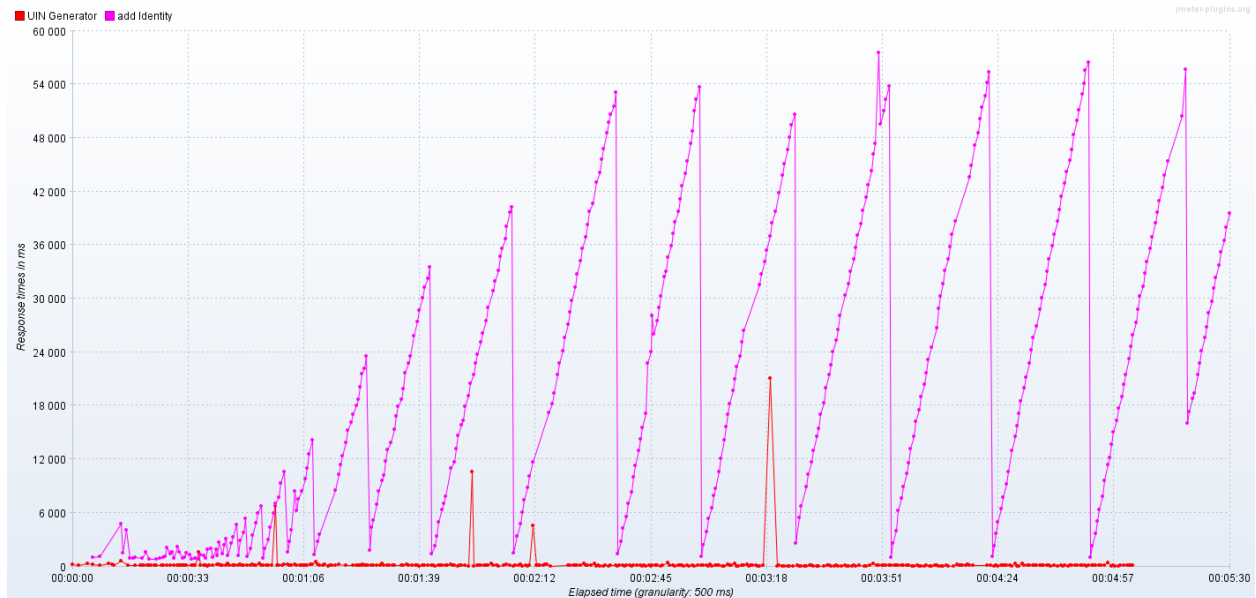
Response Time Graph

The response times of all the transactions were normal and below the SLA throughout the duration of the test. There were no very high response time noticed during the test.

Active Threads Over Time:



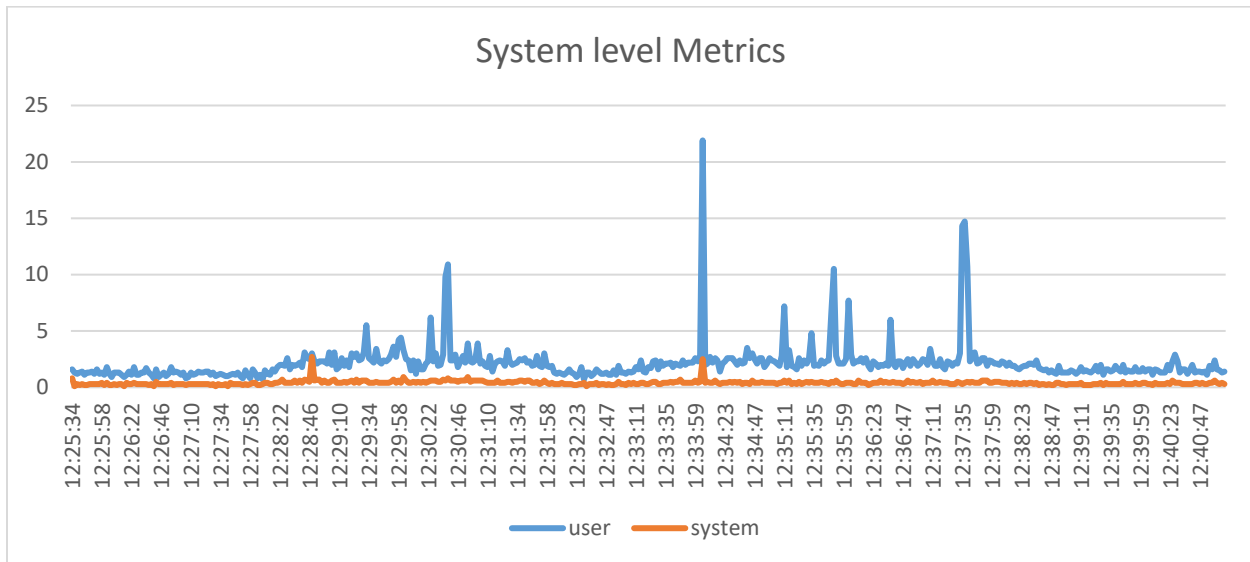
Response Times Over Time:



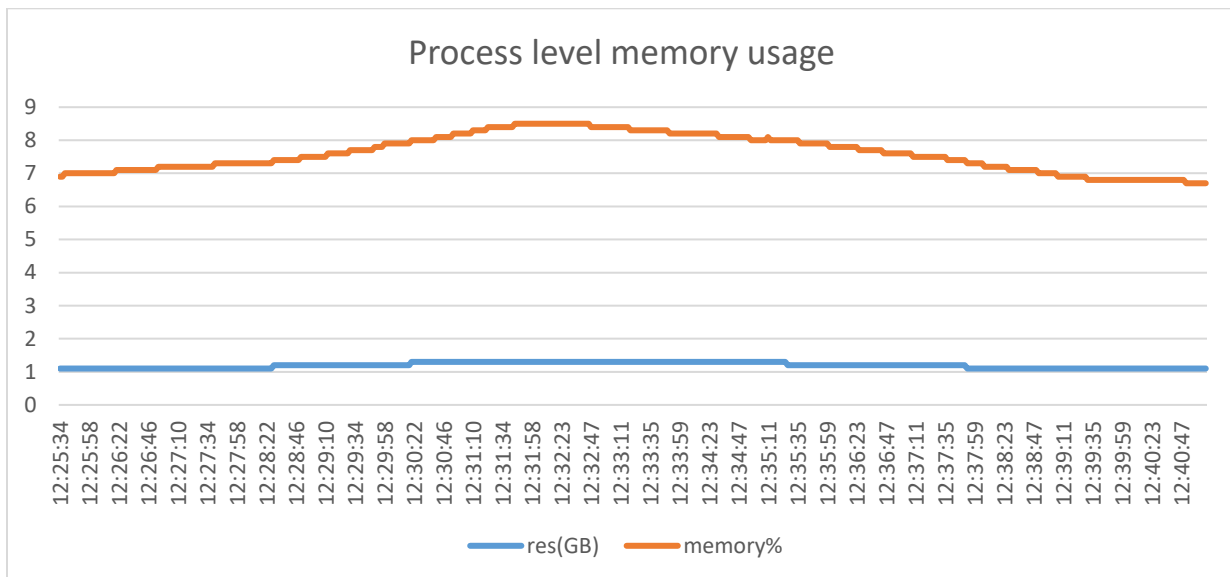
Resource Usage Metrics

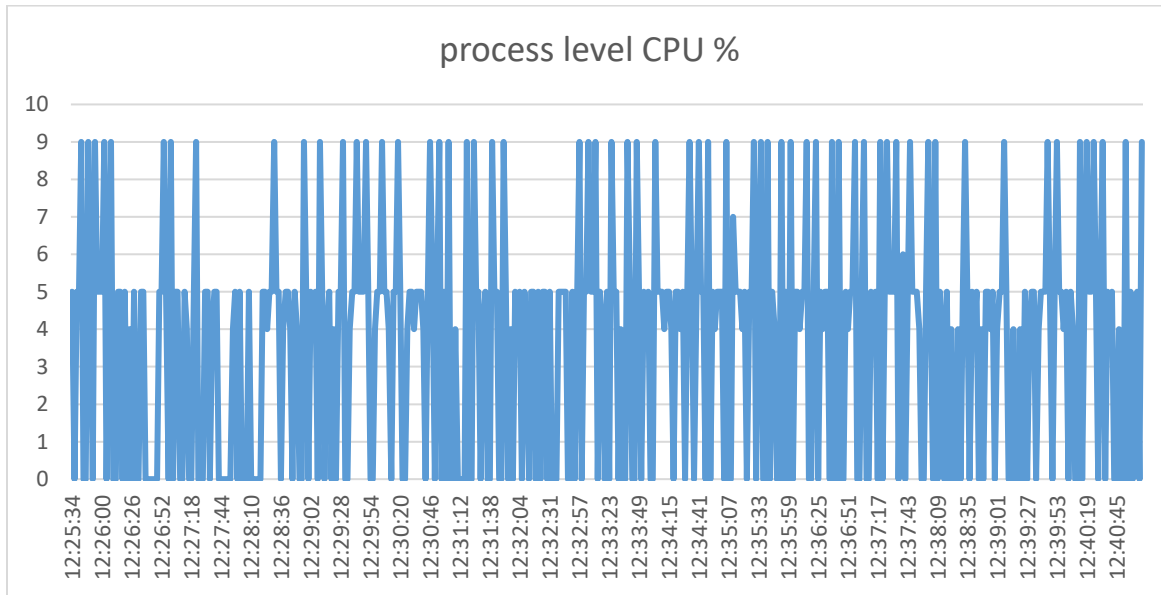
Top command of Linux was used to monitor and record the resource usage. System level and process level data for CPU and memory usage is demonstrated in the below graphs.

CPU Usage at System and User level:



Process Level CPU and Memory Usage:





Conclusion and Next Steps

The CPU usage at system level had been approx. 10% and memory usage is also constant.

The response time of add transaction is observed to be 21.6 second which is very high as compared to SLA of 1 second.