

Performance Test Report

For

Execution of

Kernel Cryptomanager – 1200 users

Encrypt API

Date: 11 March 2020

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Summary

This report presents the observations and findings of the load test conducted for a load of 1200 users on encrypt request of kernel cryptomanager-service

The objective of this load test was to observe and record behavior of the application when users have been ramped up from 1000 to 1200 in steps of 100.

Below are the scenario details:

Script/Report Name	Kernel Crypto Service – encrypt API
Run Date	11-March-2020
Period	08:13 UTC to 09:51 UTC
Number of concurrent users	1000 to 1200
Ramp up	01 users per second
Run Duration	108 minutes
Ramp down	NA

The transaction response times observed were as below:

Label	# Samples	Average(ms)	90% Line(ms)	Min(ms)	Max(ms)	Error %	Throughput
TR_regproc_encrypt	488436	12501	16856	41	44674	0.00%	82.6 req/sec

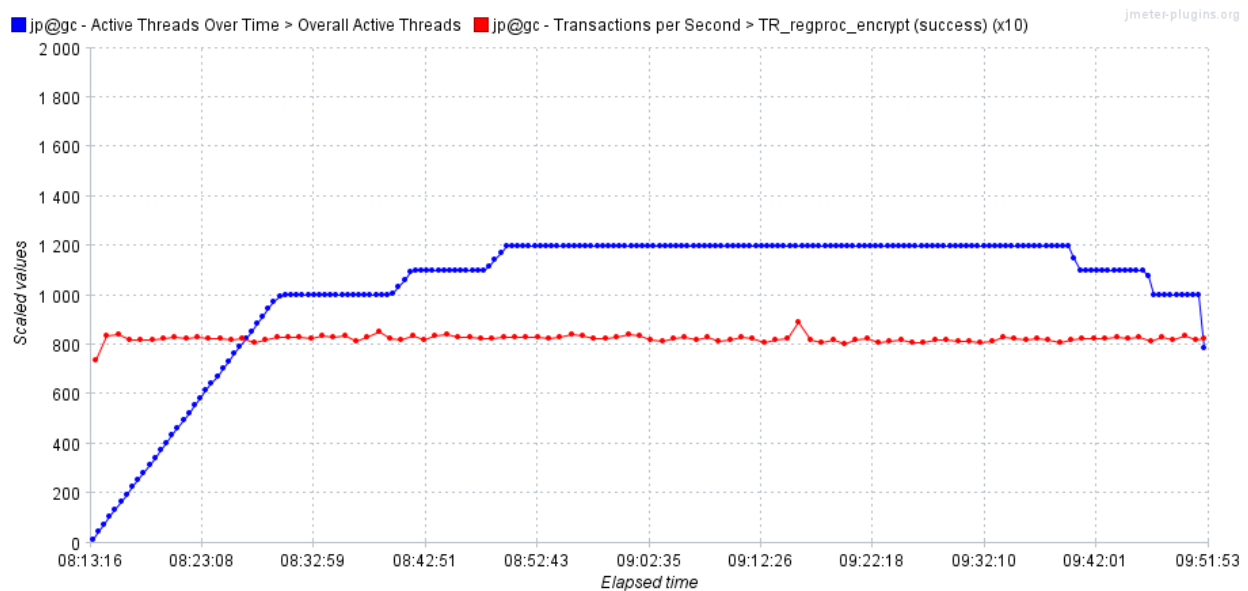
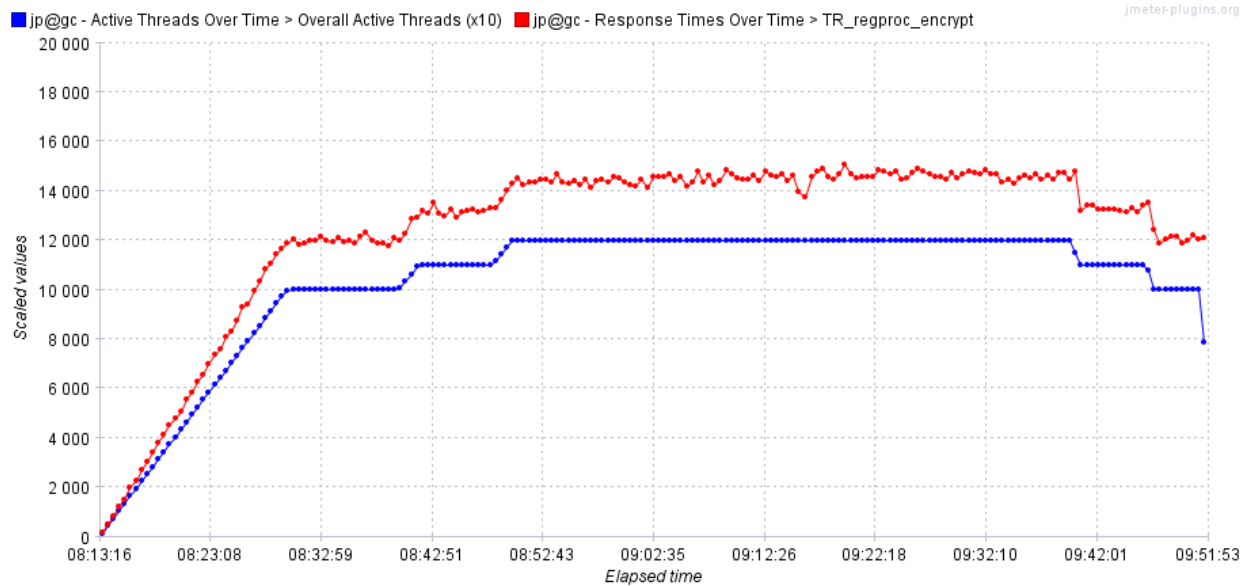
Performance Test Execution Details

We have executed JMeter script for kernel cryptomanager encrypt service, which has transactions mentioned in the above table.

Average response time of UIN generation request is 12.5 seconds.



Response Time and TPS Graph:



Throughput (TPS) of the API remains at ~80 for users from 800 to 1200.



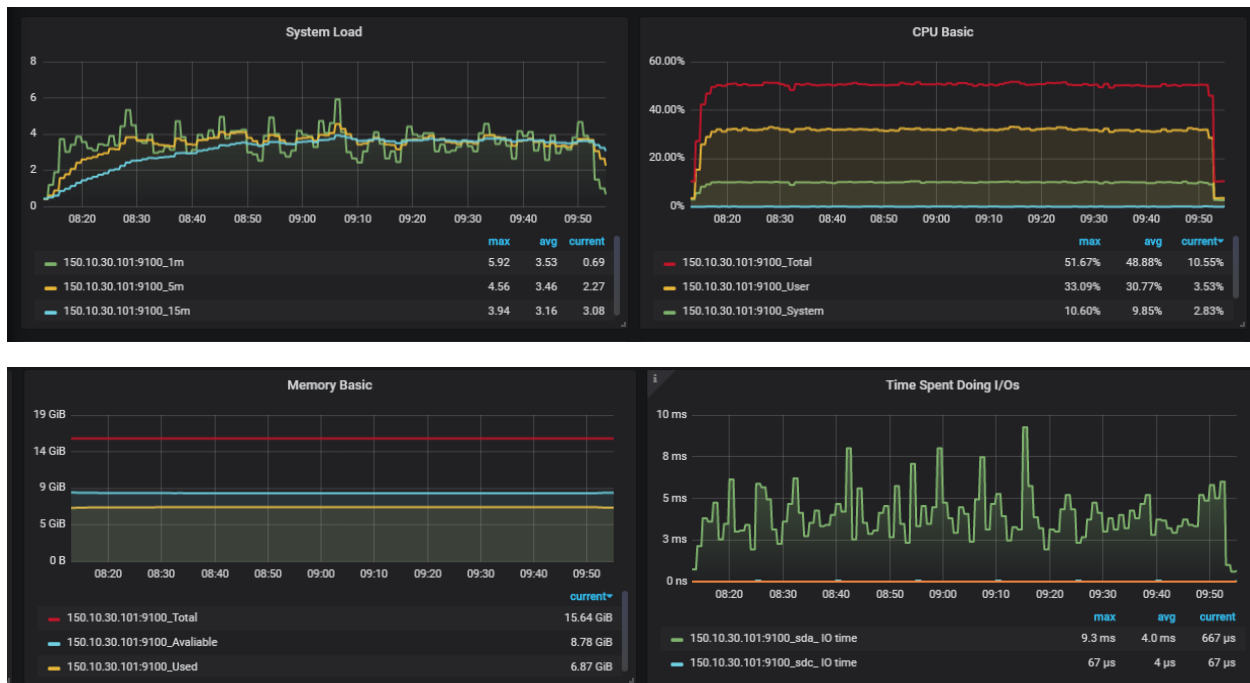
Resource Usage Pattern:

Resource usage metrics has been collected for cryptomanager cluster and keymanager using Prometheus and Grafana, as seen in the below graphs:

Cryptomanager Cluster:

Number of cores : 4

Total Available RAM: 16 GB





Keymanager VM:

Number of cores: 2

Total Available RAM: 04 GB

