Mindtree

Performance Test Report

For

Execution of

Masterdata registrationcenters – 500 users

Date: 22 April 2020

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Summary

This report presents the observations and findings of the load test conducted for a load of 500 users on masterdata registrationcenters API.

The objective of this load test was to observe and record behavior of the application when user load is increased from 250 to 500. Test was stopped at 475 users due to errors.

Below are the scenario details:

Script/Report Name	Masterdata registrationcenters API
Run Date	22-April-2020
Period	11:22 UTC to 12:38 UTC
Number of concurrent users	250 to 475
Ramp up	01 users per second
Run Duration	---
Ramp down	NA

The transaction response times observed were as below:

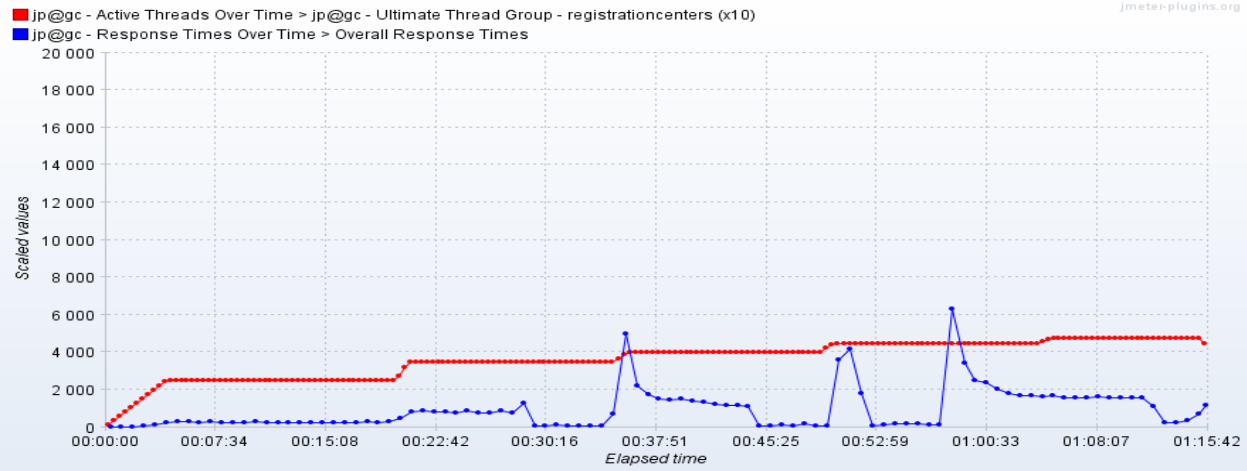
Label	# Samples	Average(ms)	90% Line(ms)	Min(ms)	Max(ms)	Error %	Throughput
TOTAL	1278058	532	1576	9	25829	58.04%	281.4489

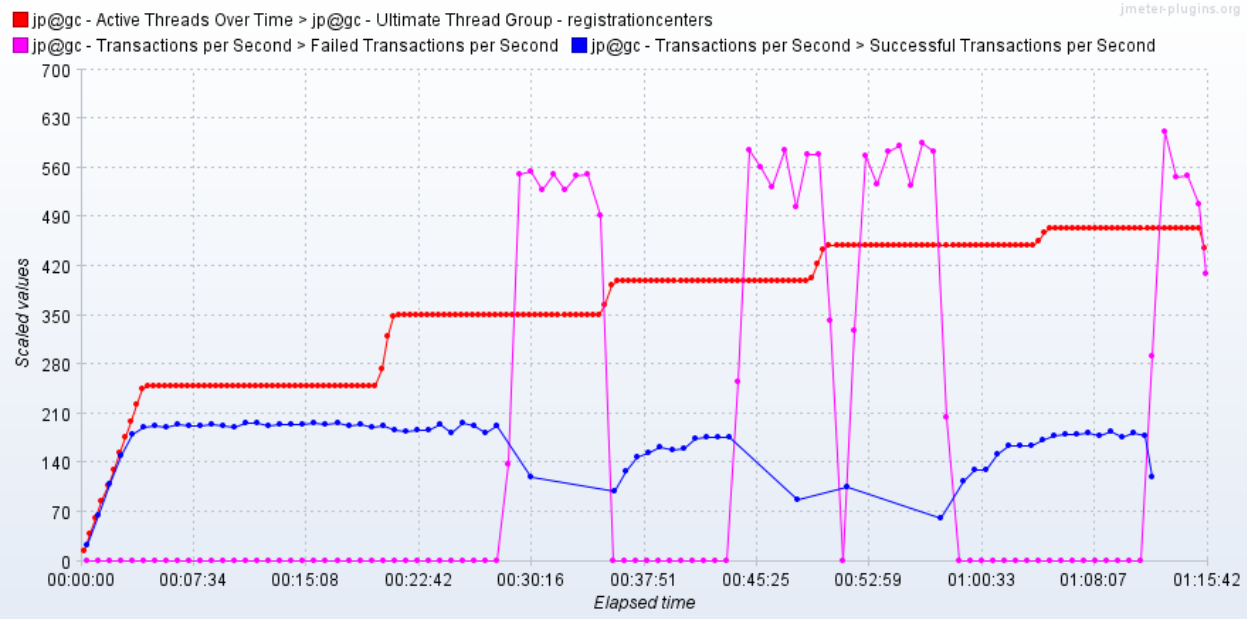
Performance Test Execution Details

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

Average response time of the APIs is 532 ms with error rate above 50 %. Some errors have appeared due to failing authentication requests.

Response Time and TPS Graph:





As seen in the graph, response time of the APIs is approx 550 ms

Throughput (TPS) of the APIs approxes 190 when 250 users are active. Error rate increases when number of active users reaches 350 due to increase in failing requests. Think time used is 1 sec (1000 ms).

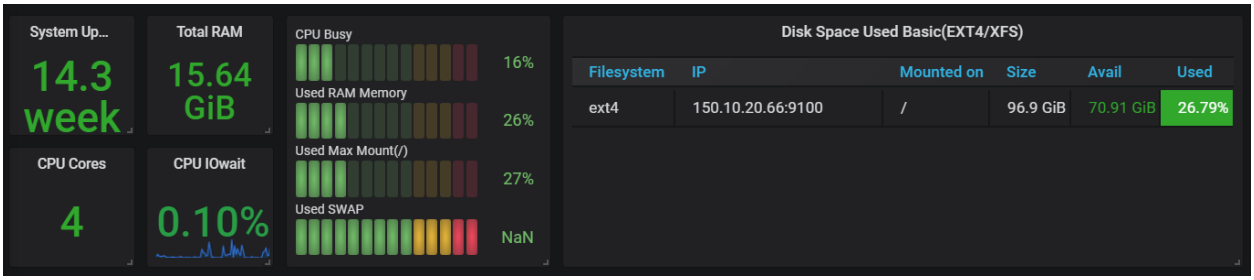
Resource Usage Pattern:

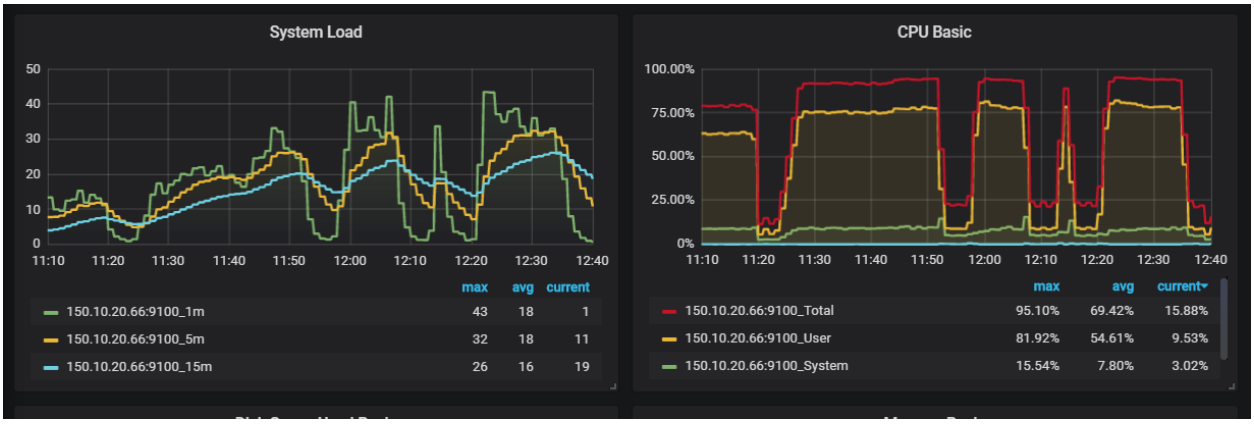
Masterdata Service cluster resource usage:

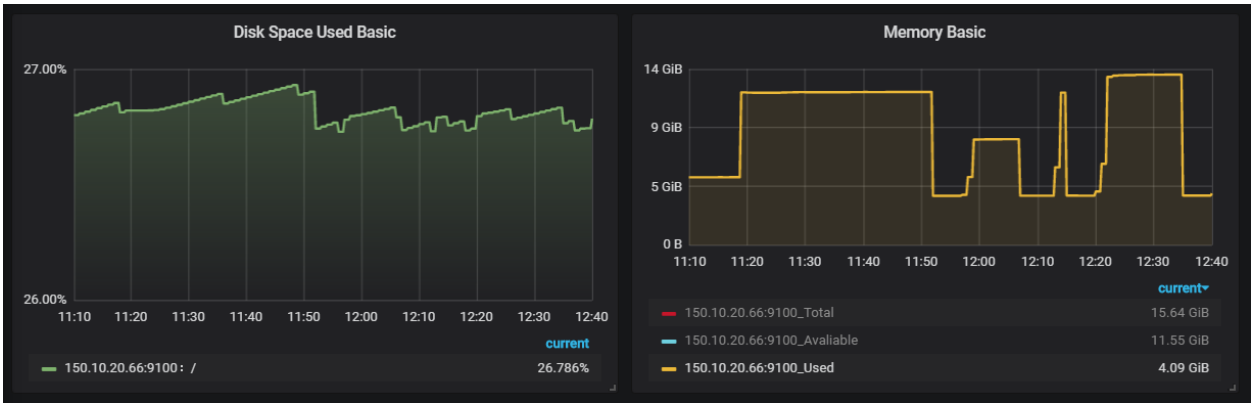
Average system load – 18 (4 cores)

Average CPU usage – 69.42%

Memory used – 12 to 13 GB / 15.64 GB







Master DB resource usage:

Average system load – 0.05

Average CPU usage – 7.00 %

Memory used – 750 MB / 3.84 GB