Mindtree

Performance Test Report

For

Execution of

Validate-OTP – 2300 users

Date: 20 March 2020

Author: Gaurav Sharan

Summary

This report presents the observations and findings of the load test conducted for a load of 2300 users on validate OTP request of kernel auth-service.

The objective of this load test was to observe and record behavior of the application when users have been ramped up from 0 to 2300 step by step. Users were ramped up to 1500 in first 750 seconds. Then ramp up happened in steps of 250 step by step; as shown in the below graphs.

Below are the scenario details:

Script/Report Name	Kernel Auth Service – validate Token
Run Date	20-March-2020
Period	08:44 UTC to 09:56 UTC
Number of concurrent users	1500 to 2300
Ramp up	05 users per second
Run Duration	60 minutes
Ramp down	NA

The transaction response times observed were as below:

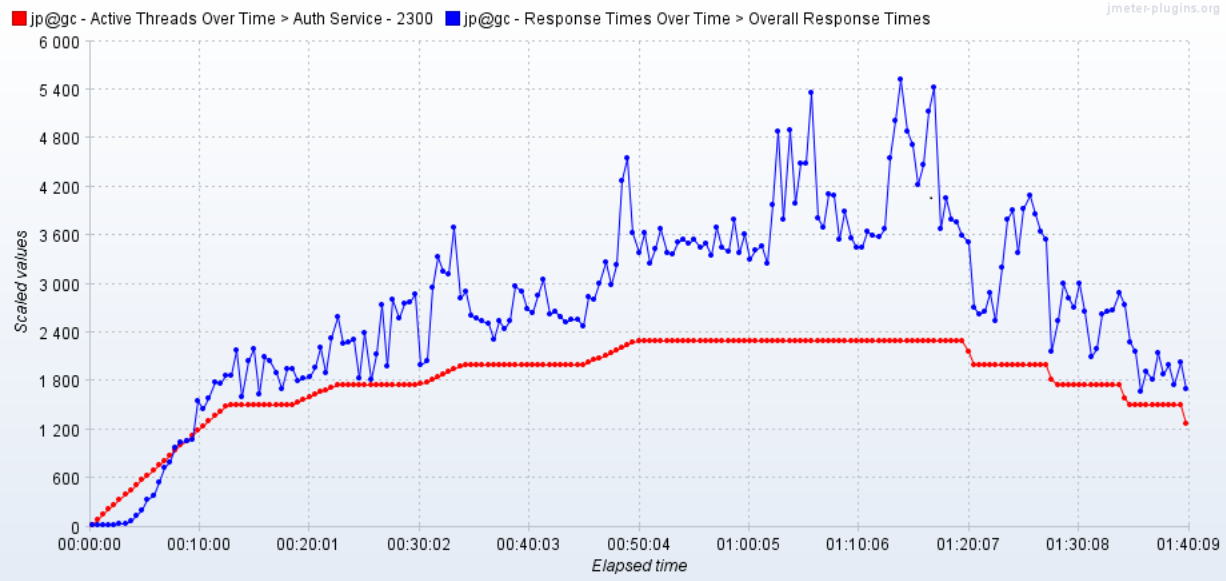
Label	# Samples	Average(ms)	90% Line(ms)	Min(ms)	Max(ms)	Error %	Throughput
TR_reg-processor_Validate Token	2381556	2703	7497	11	38050	2.14%	396.30453
TOTAL	2381556	2703	7497	11	38050	2.14%	396.30453

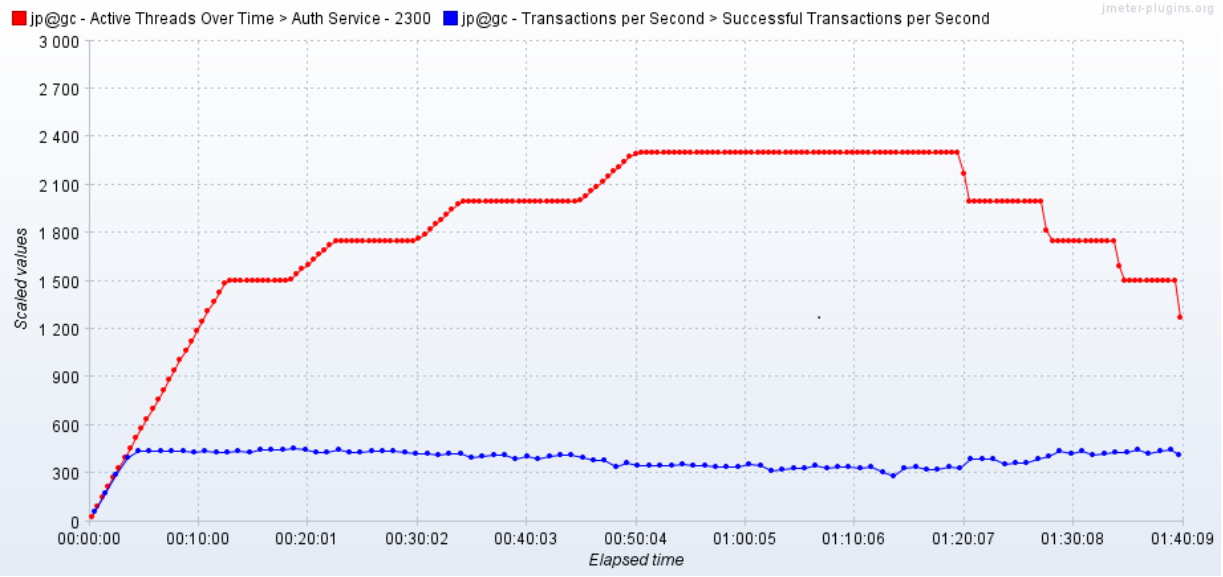
Performance Test Execution Details

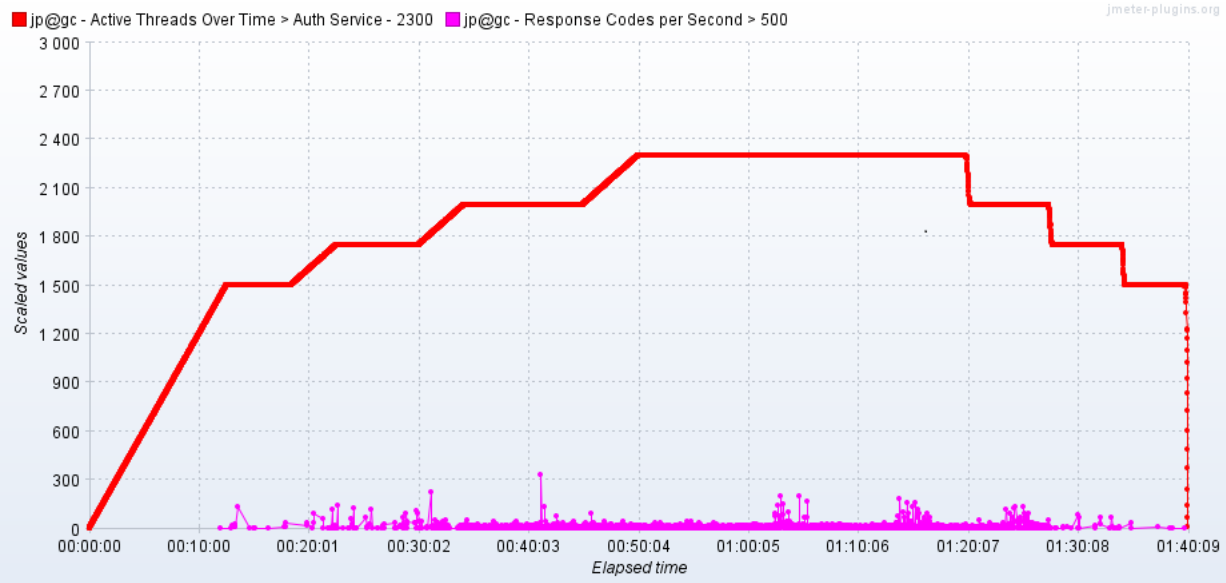
We have executed JMeter script for kernel auth-manager service, which has transactions mentioned in the above table.

Average response time of validate_token API is 2.7 seconds with more than 2% error rate.

Response Time and TPS Graph:







As seen in the graph, response time of validate_token API has varied from 1.8 sec to 3.6 sec when user ramped up from 1500 to 2300 users.

Throughput (TPS) of the API approxes 430 when 850 users are active. Throughput remains at the almost same level for later level of users.

Think time used is 1 sec (1000 ms).

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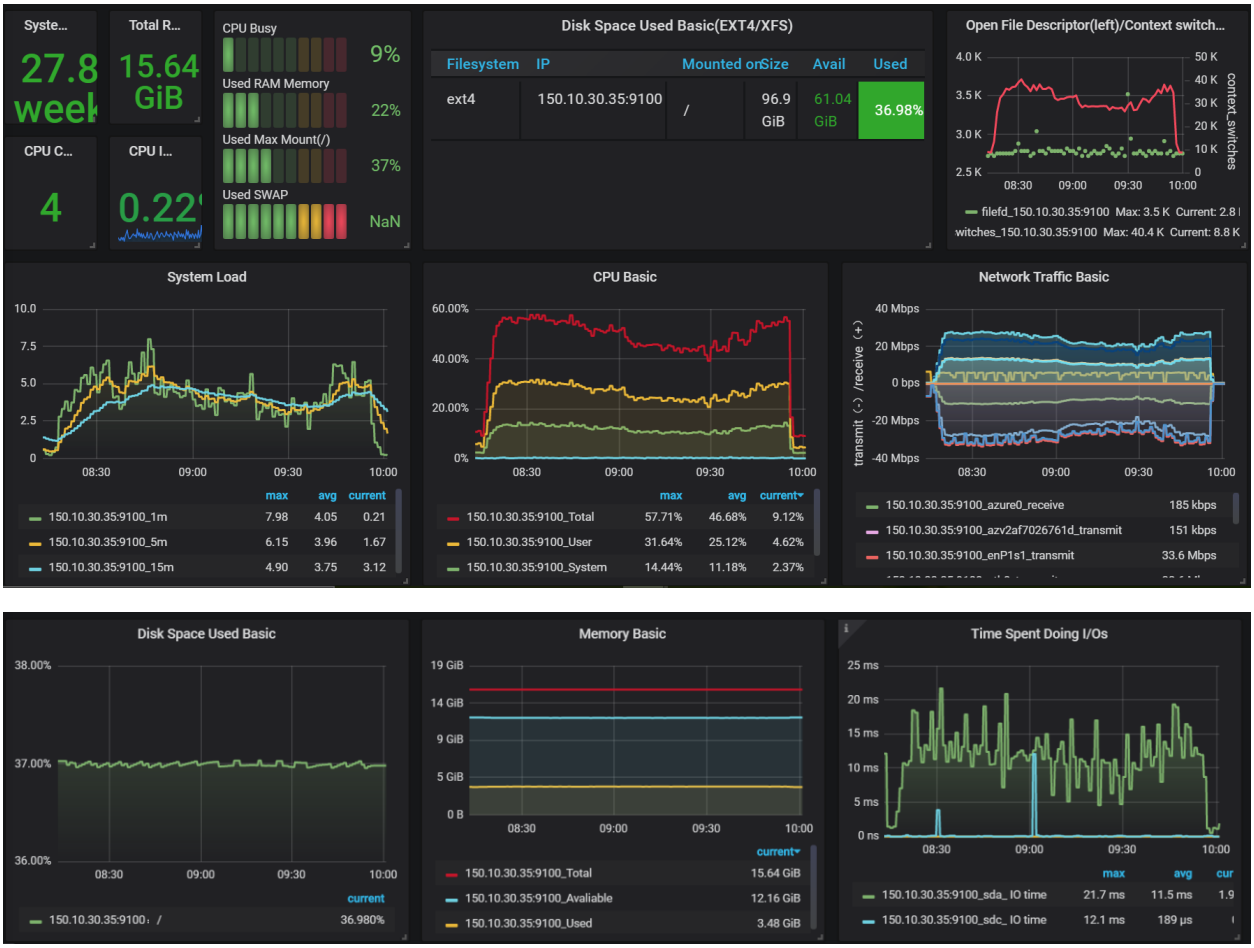
Resource Usage Pattern:

Kernel cluster resource usage:



Keycloak System resource usage: