Mindtree

Performance Test Report

For

Execution of

Masterdata documenttypes – 1200 users

Date: 22 April 2020

Author: Gaurav Sharan

Summary

This report presents the observations and findings of the load test conducted for a load of 1200 users on masterdata documenttypes API.

The objective of this load test was to observe and record behavior of the application when user load is increased from 500 to 1200.

Below are the scenario details:

Script/Report Name	Masterdata documenttypes API
Run Date	22-April-2020
Period	06:27 UTC to 08:00 UTC
Number of concurrent users	500 to 1200
Ramp up	01 users per second
Run Duration	---
Ramp down	NA

The transaction response times observed were as below:

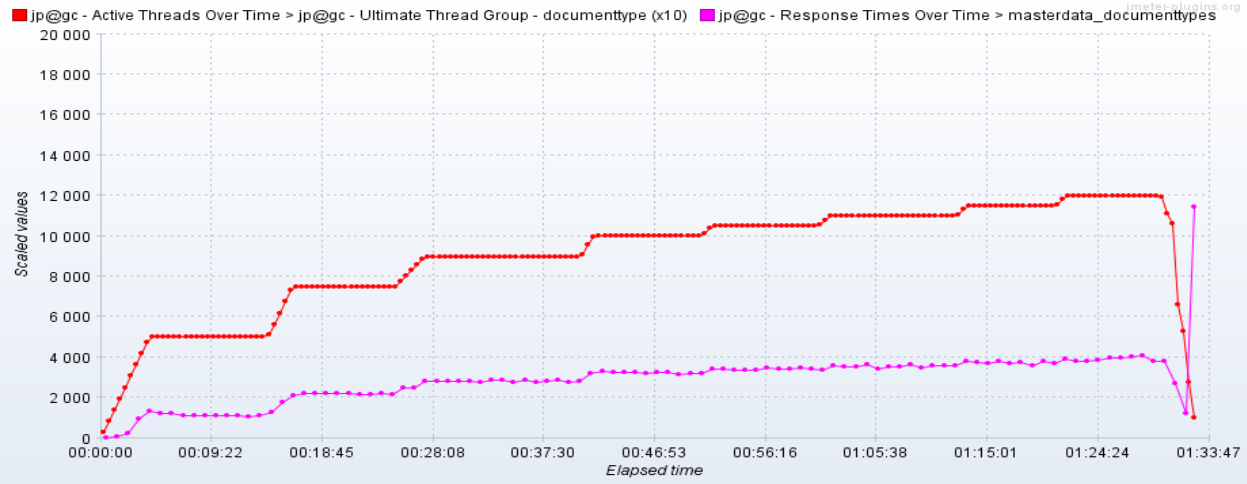
Label	# Samples	Average(ms)	90% Line(ms)	Min(ms)	Max(ms)	Error %	Throughput
TOTAL	1297669	2875	4099	7	183708	1.87%	230.6

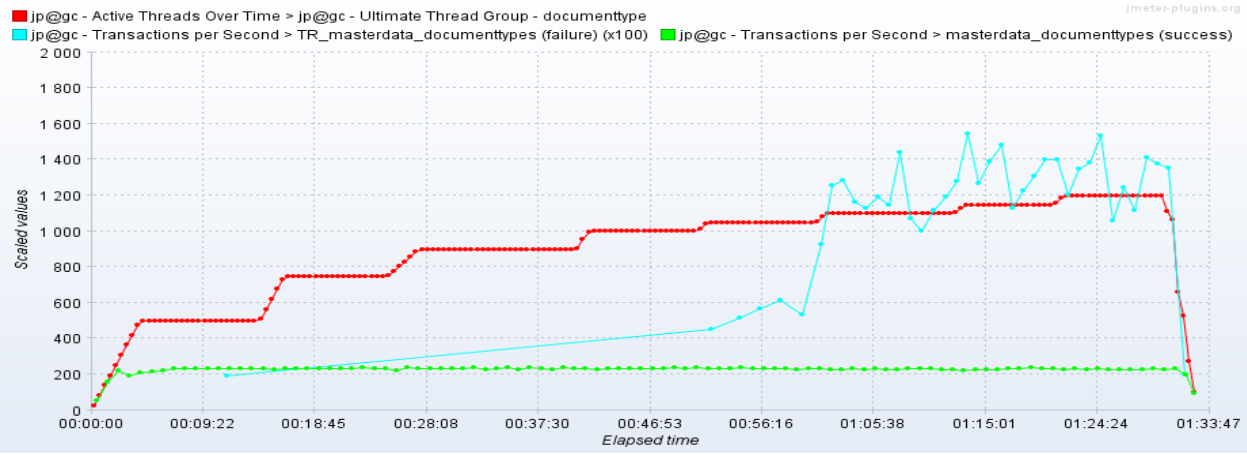
Performance Test Execution Details

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

Average response time of the APIs is 2875 ms with error rate above 1 %. 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 1000 ms when 500 users are active, then response time touches 4000 ms when 1200 users are active.

Throughput (TPS) of the APIs approxes 220 when 500 users are active and stays almost at same level with increasing user load. Error rate increases when number of active users reaches 1000 due to increase in failing requests. Think time used is 1 sec (1000 ms).

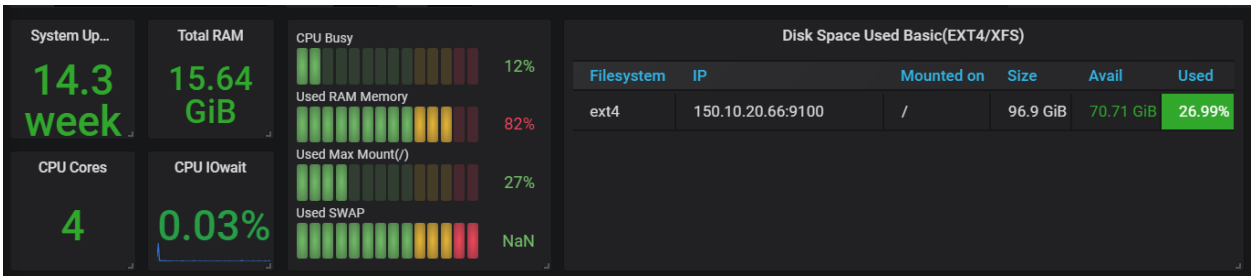
Resource Usage Pattern:

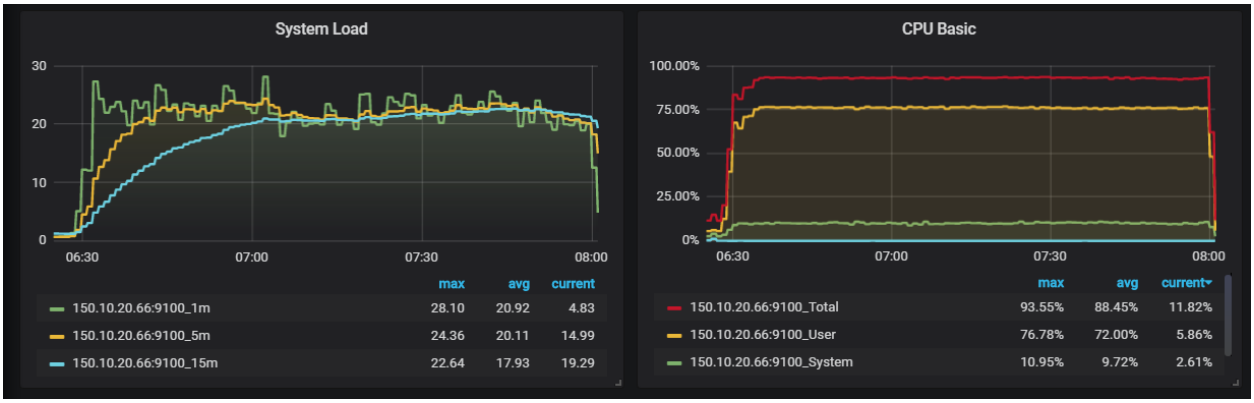
Masterdata Service cluster resource usage:

Average system load – 20 (4 cores)

Average CPU usage – 93%

Memory used – 12.6 GB / 15.64 GB





Master DB resource usage:

Average system load – 0.09

Average CPU usage – 5.00 %

Memory used – 718 MB / 3.84 GB