

Performance Test Report

For

Execution of

Kernel applicanttype API – 2000 users

Date: 20 April 2020

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Summary

This report presents the observations and findings of the load test conducted for a load of 2000 users on kernel applicanttype service.

The objective of this load test was to observe and record behavior of the application when user load is increased from 1000 to 2000 in steps of 250.

The API tested is:

<https://preprod.mosip.io/v1/applicanttype/getApplicantType>

Below are the scenario details:

Script/Report Name	Kernel getApplicantType API
Run Date	20-April-2020
Period	07:04:56 UTC to 08:42:14 UTC
Number of concurrent users	1000 to 2000 in steps of 250
Ramp up	01 user per second
Run Duration	20 minutes peak load
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_kernel_applicantType	1049398	7156	18281	8	278035	13.01%	179.7188

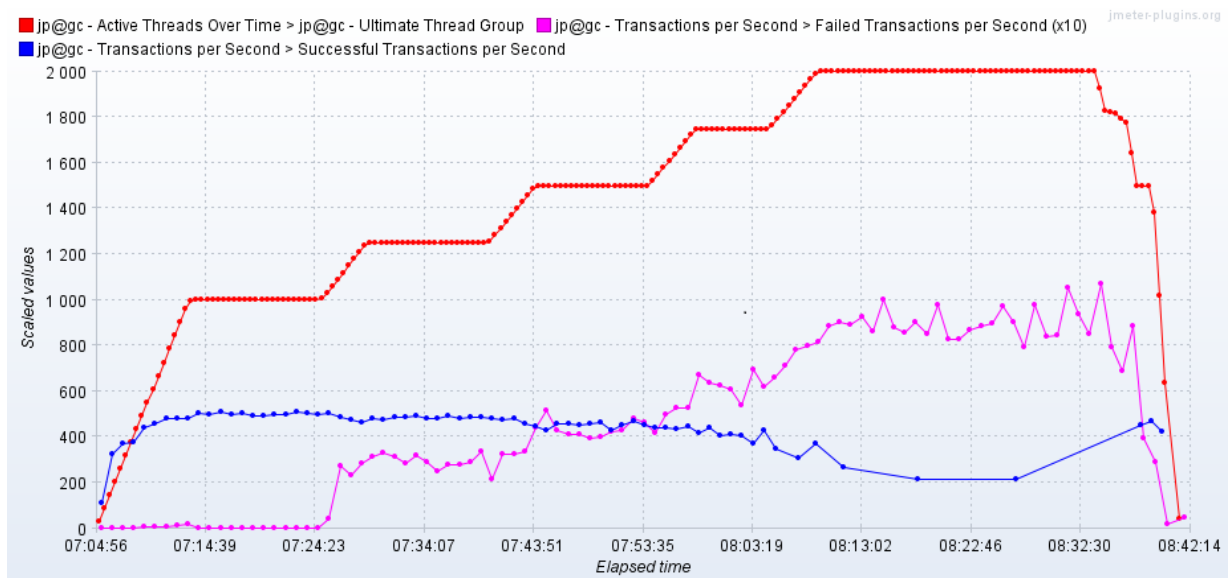
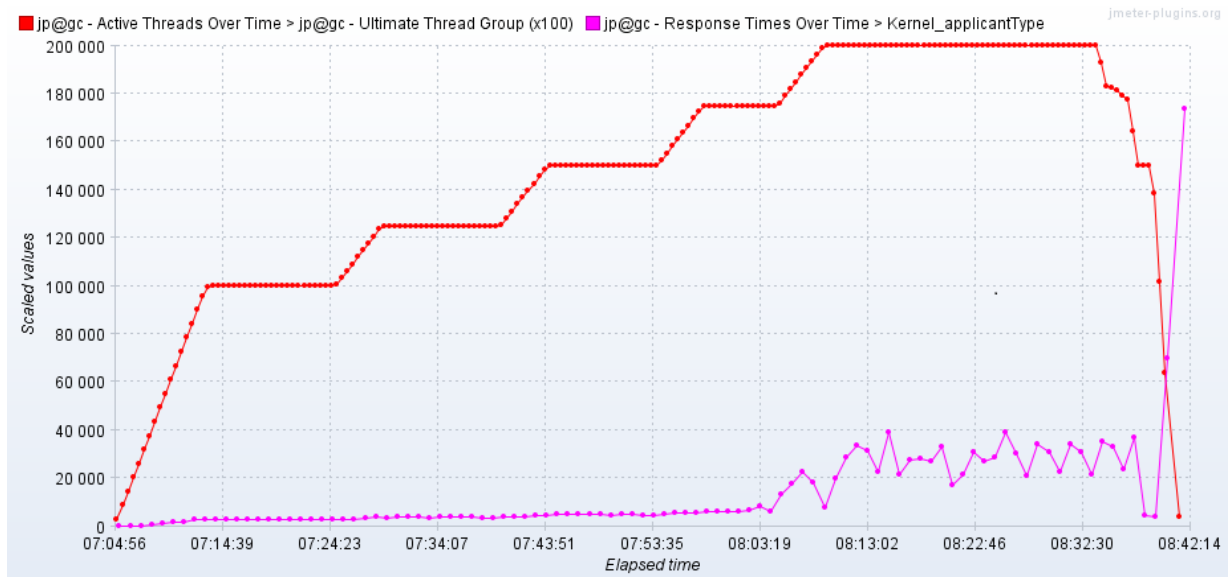
Performance Test Execution Details

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

Average response time of the APIs is 7.1 seconds with above 13% error rate. Errors have appeared due to failing authentication requests. There were almost 0% error when 1000 users were active, it increased when 1250 users were active and error rate was above 48% when 2000 users were active.

Throughput for successful transactions is seen at the highest level of 516 transactions per second when 1000 users were active. Response time is seen to be 2.8 seconds when 1000 users were active.

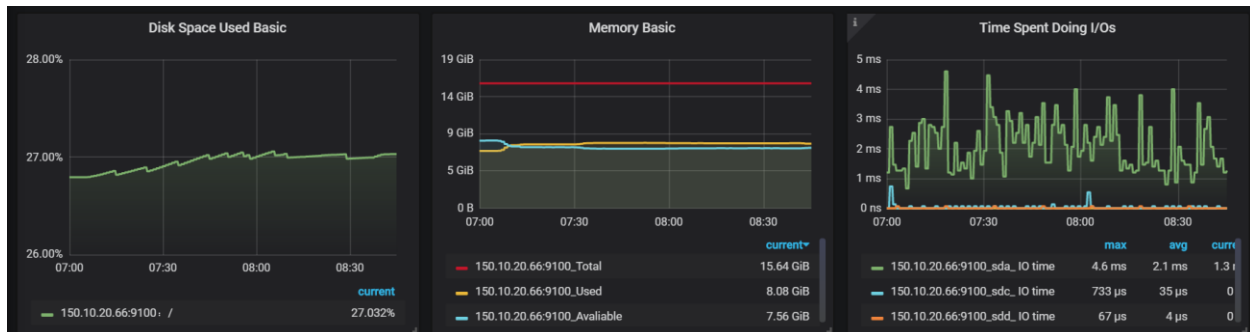
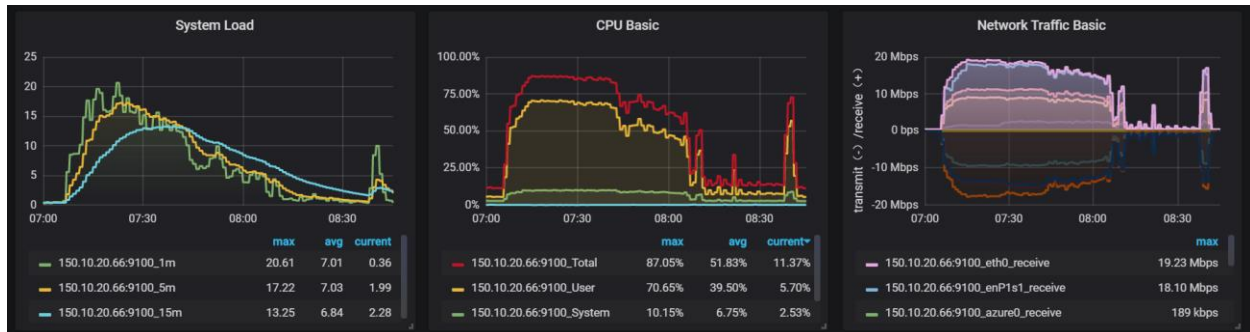
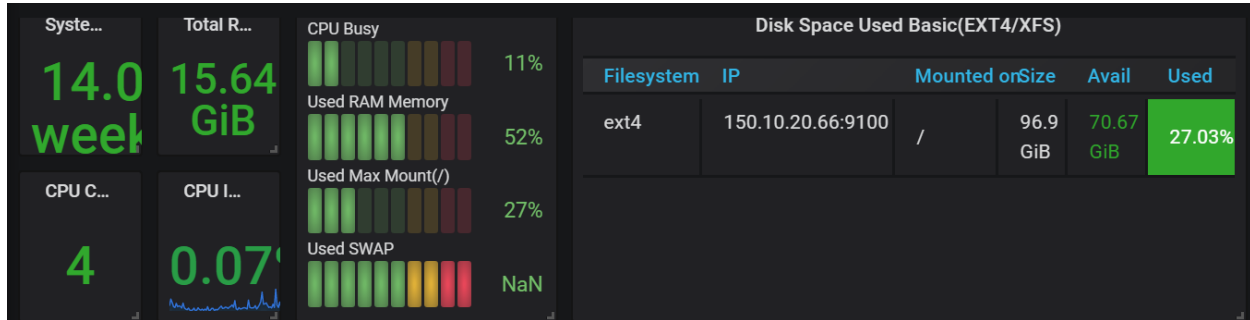
Response Time and TPS Graph:





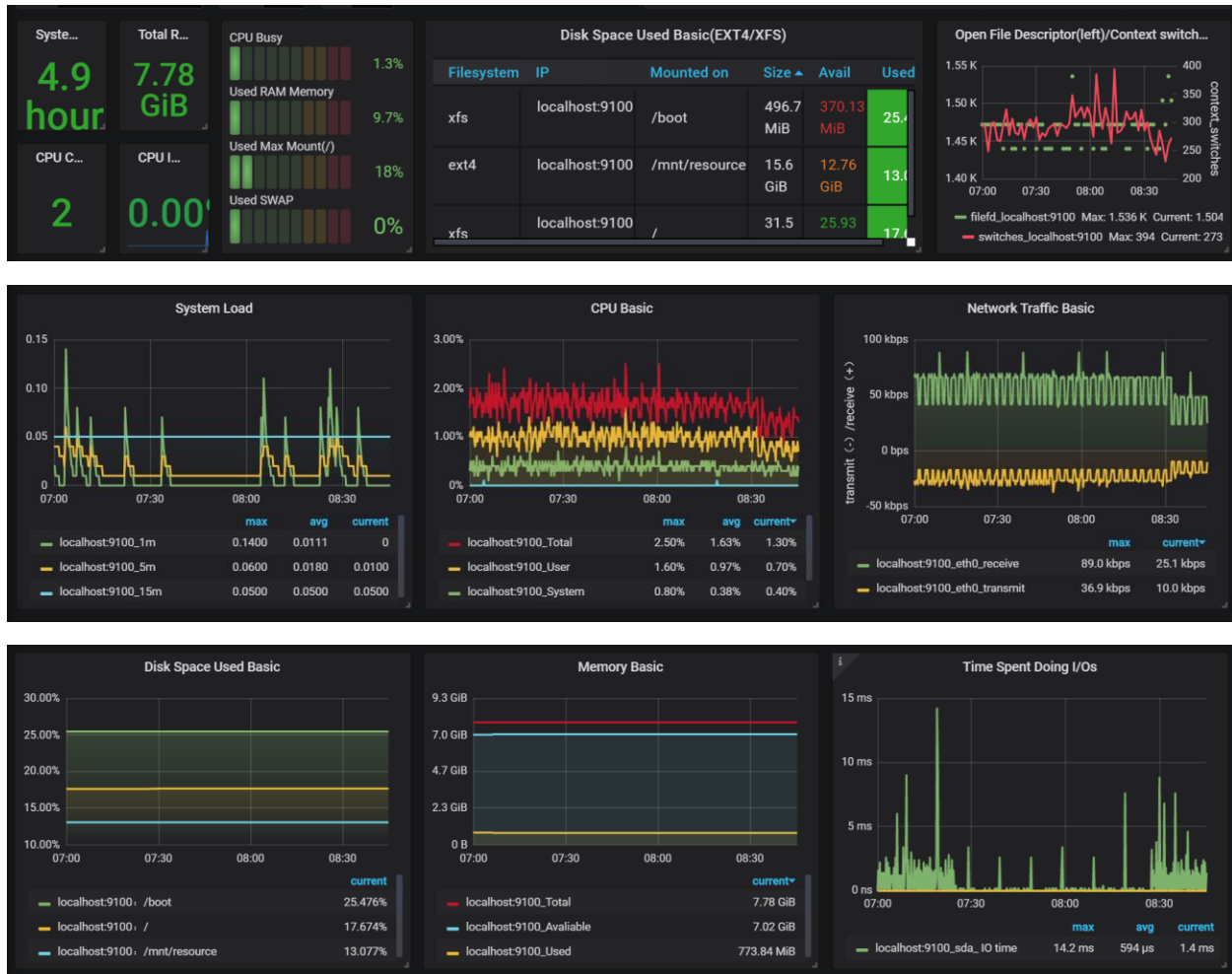
Resource Usage Pattern:

Masterdata cluster resource usage:





Kernel DB resource usage:





Masterdata DB resource usage:

