

# **Performance Test Report**

## **For**

## **Execution of**

## **Kernel Audit Manager API – 200 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 200 users on kernel audit service API.

The objective of this load test was to observe and record behavior of the application when user load is increased from 50 to 200 in steps of 25.

Below are the scenario details:

<b>Script/Report Name</b>	Kernel Audit Manager
<b>Run Date</b>	20-April-2020
<b>Period</b>	13:41 UTC to 14:25 UTC
<b>Number of concurrent users</b>	50 to 200
<b>Ramp up</b>	01 users per second
<b>Run Duration</b>	70 minutes including ramp up and ramp down
<b>Ramp down</b>	NA

The transaction response times observed were as below:

Label	# Samples	Average(ms)	90% Line(ms)	Min(ms)	Max(ms)	Error %	Throughput
TR_kernel_audit-service	637012	100	217	9	7777	44.44%	147.8328

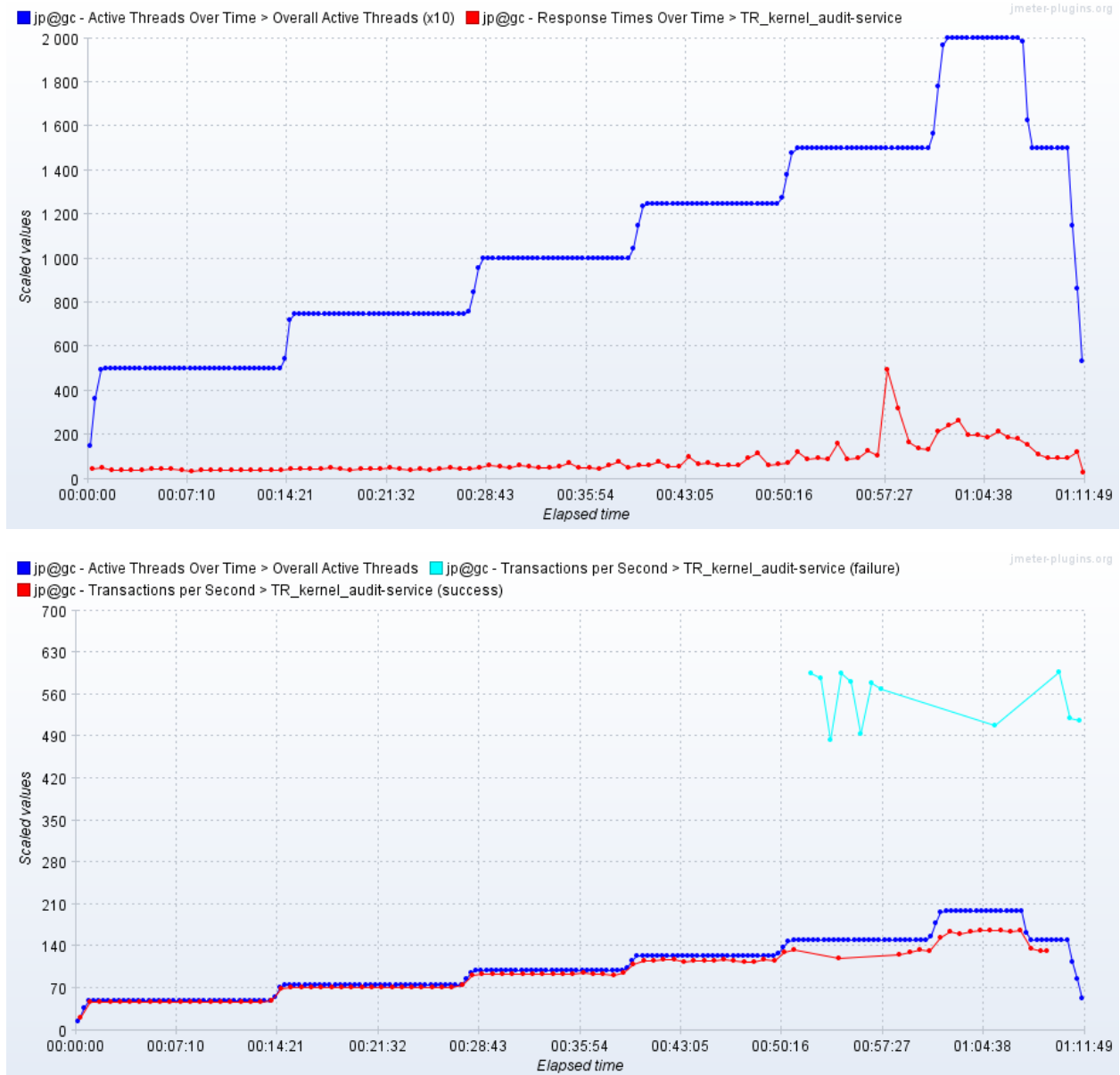
## **Performance Test Execution Details**

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

Average response time of the APIs is 100 ms with above 40% error rate. Some errors have appeared due to failing authentication requests and limited memory in the corresponding kubernetes cluster. Audit manager service pod used to crash multiple times due to error related to memory pressure.



## Response Time and TPS Graph:



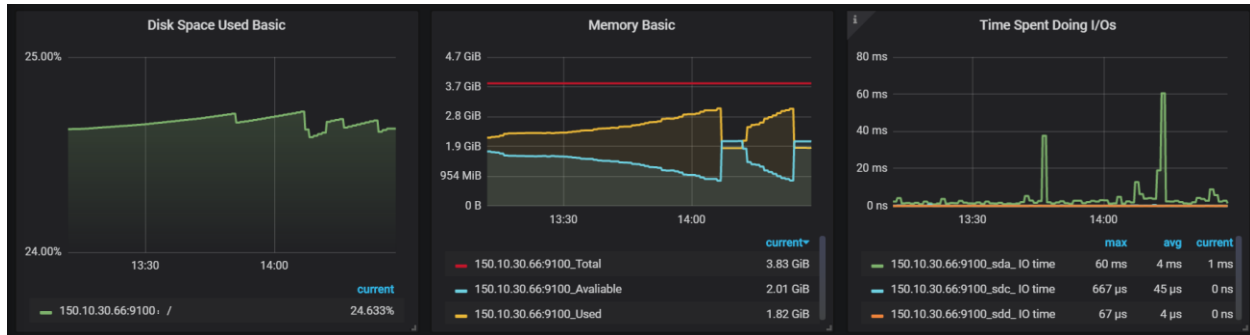
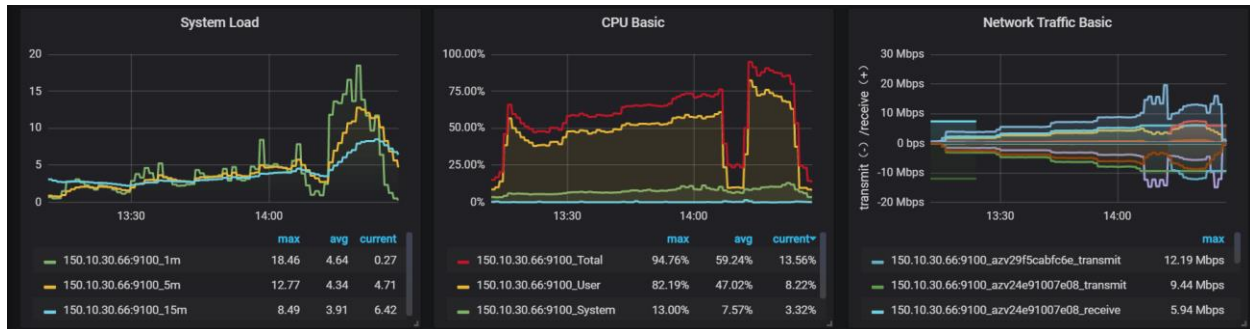
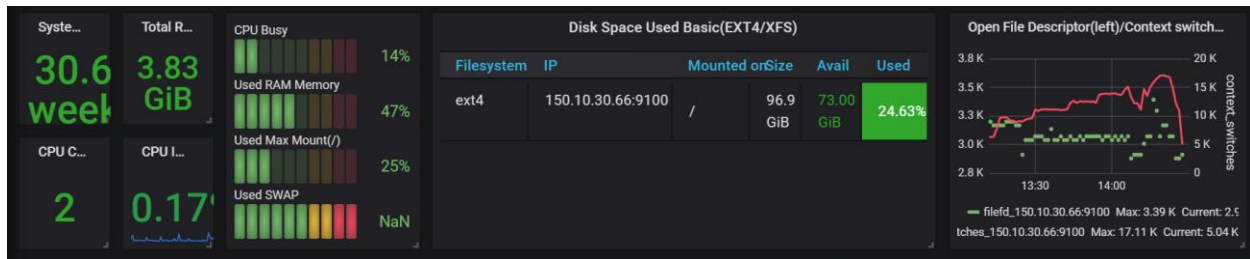
As seen in the graph, response time of the APIs is below 200 ms for users till 125 and it exceeds 200 ms when 150 and 200 users are there.



Throughput (TPS) of the APIs approxes 130 when 125 users are active. Error rate increases when number of active users reaches 150 due to increase in failing requests. Think time used is 1 sec (1000 ms).

## Resource Usage Pattern:

### *Audit Service cluster resource usage:*





## Audit DB resource usage:

