Performance Test Report

For

Execution of

PreRegistration – 200 users

Date: 31 July 2019

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Summary

This report presents the observations and findings of the load test conducted for a load of 200 users performing booking appointments full flow planned for 1-hour duration

The objective of this load test was to observe and record the behavior of the application when users are booking appointments for 200 concurrent users with 100K preregistration applications already created in DB after defect MOS-27246 is fixed.

Below are the scenario details:

Sprint/Report Name	Booking appointments
Run Date	31-July-2019
Period	12:05 PM to 13:08 PM
Number of concurrent users	200
Ramp up	4 min
Run Duration	60 minutes
Ramp down	4min

The transaction response times observed were as below:

Label	# Samples	Average (ms)	90% Line (ms)	Min (ms)	Max (ms)	Error %	Throughput (sec)
TR_prereg_homepage	9556	97	111	64	1248	0.00%	2.34488
TR_prereg_sendotp	9536	99	127	16	7319	0.09%	2.3452
TR_prereg_validateotp	9509	147	190	77	6279	0.04%	2.34541
TR_prereg_viewbasicdetails	9478	225	321	150	1424	0.00%	2.33791
TR_prereg_submitdemographic	9466	1963	3811	198	22898	0.00%	2.33342
TR_prereg_searchregcenter	9447	61	69	45	3064	0.00%	2.33475
TR_prereg_openbookappointmentpage	9427	31612	36978	2707	65029	0.00%	2.32847
TR_prereg_bookappointment	2137	20656	26337	179	51067	0.91%	0.53281
TR_prereg_notify	2078	20486	25640	88	49156	0.10%	0.51812
TR_prereglogout	9305	141	175	98	7464	0.00%	2.30943

Performance Test Execution Details

We have executed the booking appointment user flow, which has transactions mentioned in above table.

All the transactions average response times were less than 3sec except below:

1. Notify request - 20.486 sec
2. Openbook appointment page – 31.612 sec
3. Book appointment page – 76.634 sec

Below high response times are due to registration slots for the center not available and these high response times are ignored as these are due to data issue

1. Openbook appointment page – 31.612 sec
2. Book appointment page – 76.634 sec

Test Environment

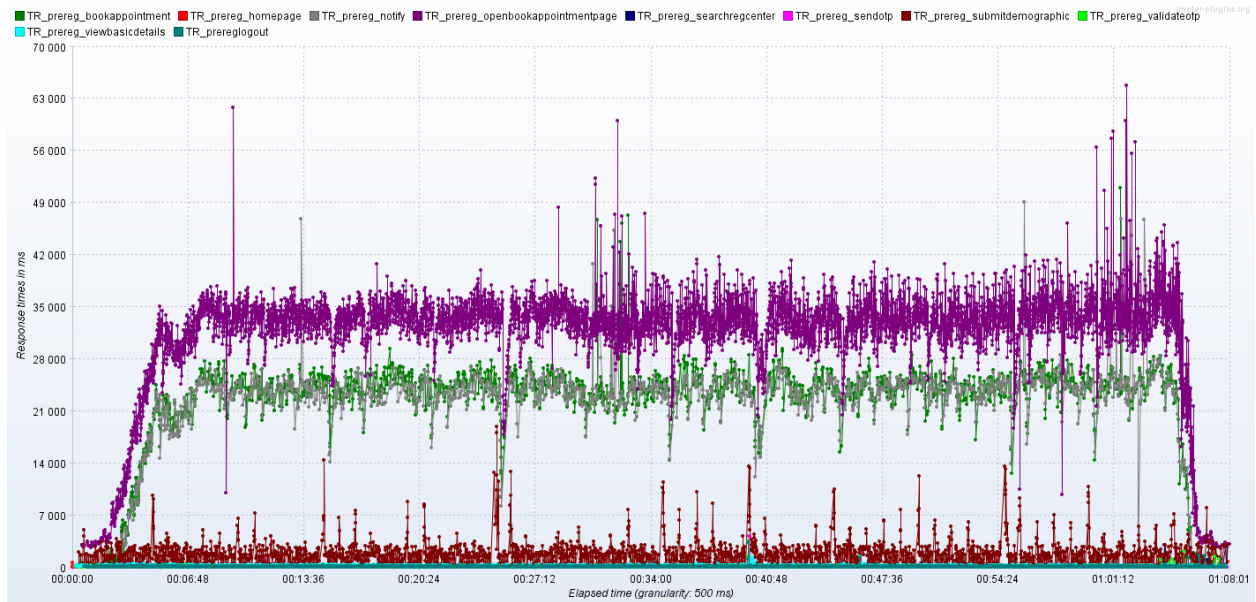|	Common proxy server (NGINX)	(Kubernets cluster) apache Tomcat 8.5.31	DB Postgress SQL 10.2
Number Of nodes	1	4	1
RAM	4 GB	112 GB	16GB
PROCESSOR	2 cores	16 core	4 cores

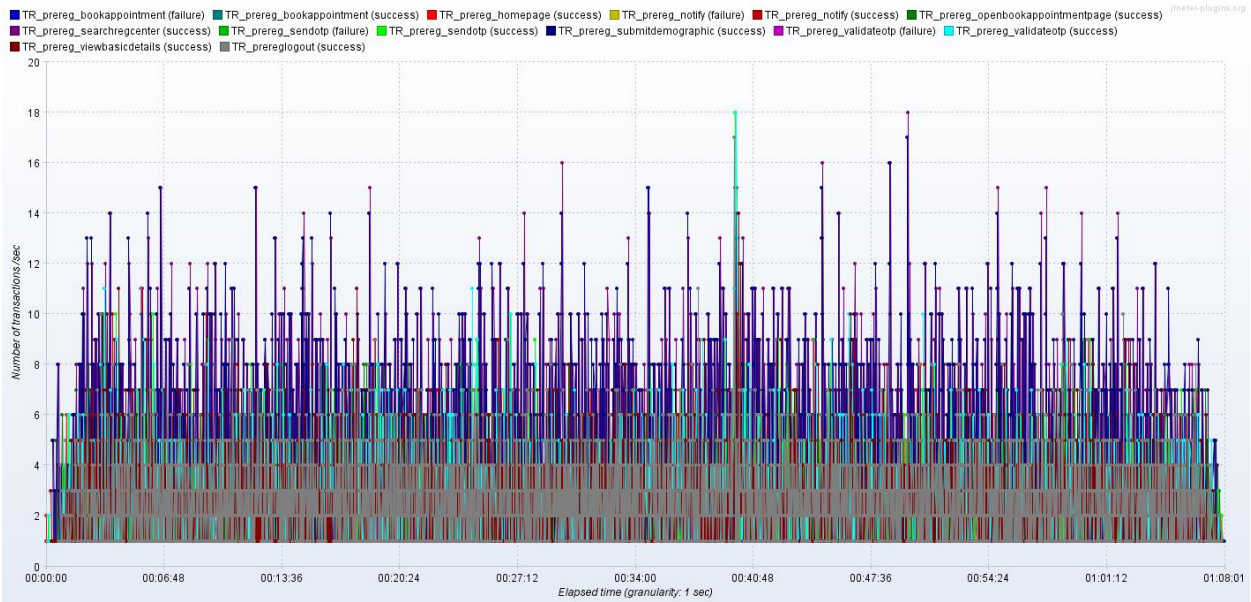## Active threads over Time:

Response Time Graph

All the transactions average response times were less than 3sec except below:

1. Notify request -20.486 sec
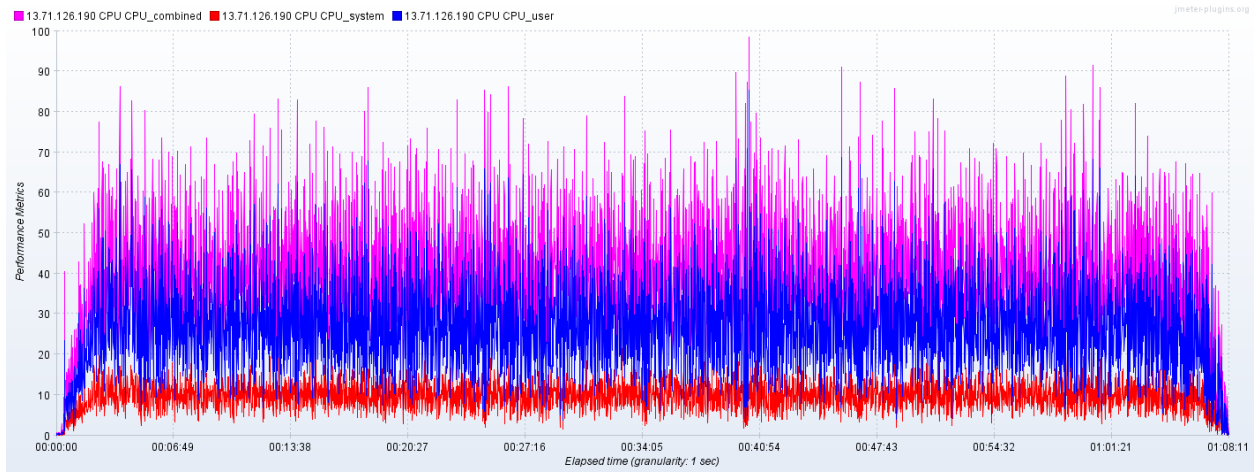

Transactions per second:

All key transactions error rate is less than 1% and **Upload POI and POA documents requests are not included its known issue**
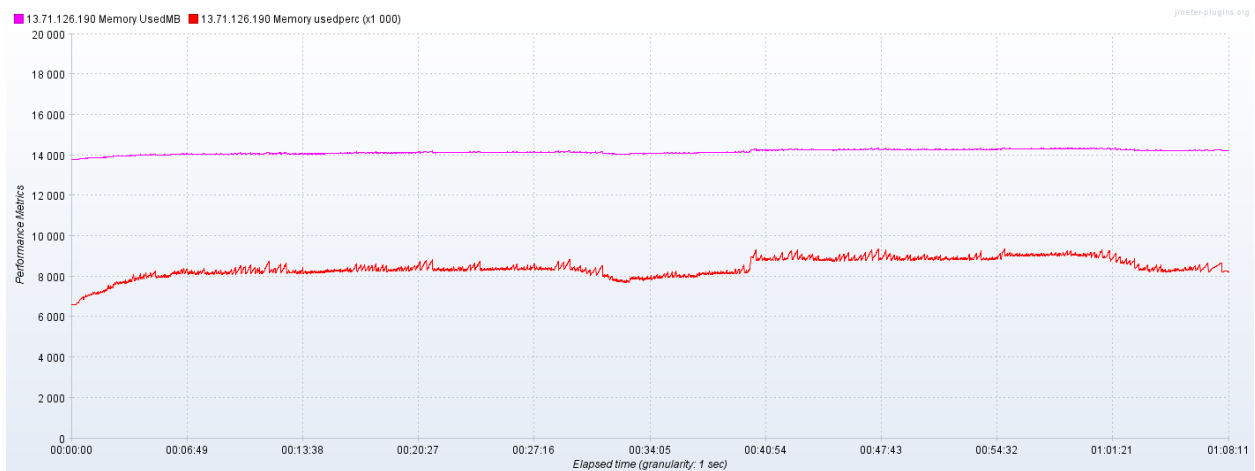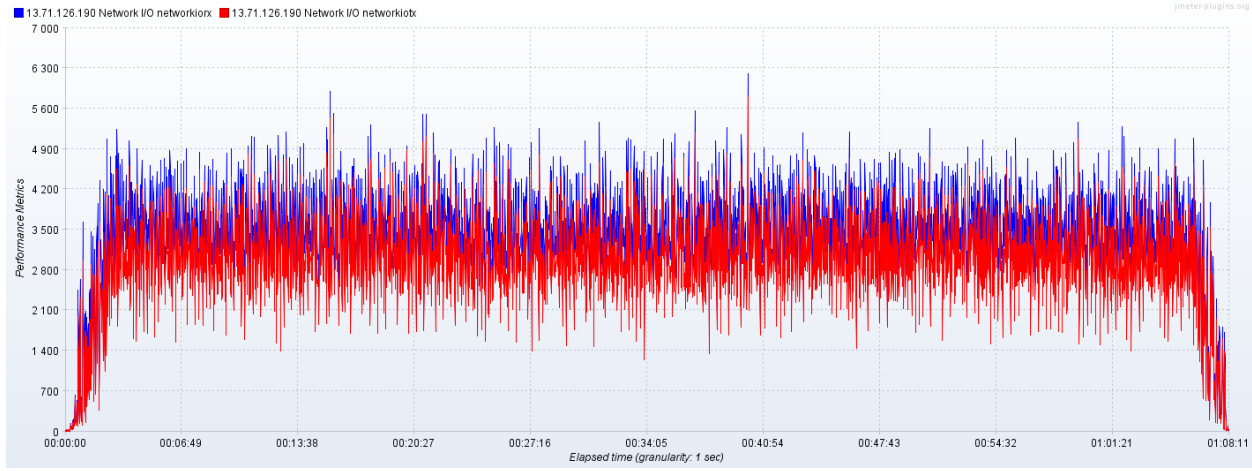
<u>Resource usage pattern of DB Server:</u>

CPU Usage:

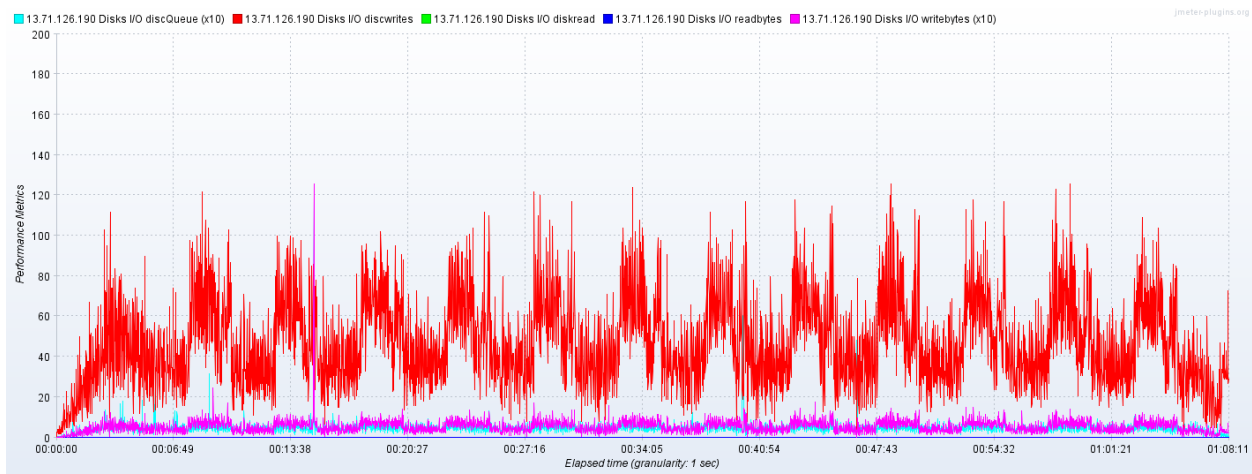# There were intermittent spikes observed in overall CPU usage

Memory utilization:

Network io:

Disc Read/writes:

Conclusion and Next Steps

After the defect MOS-27246 fix high response times for hompage and Logout pages are very less compared to earlier performance runs ,We will execute one more test and confirm by retesting this defect