

Performance Test Report

For

Execution of

PreRegistration module – 200 users (Run2)

Date: 1st Aug 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 test² 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	1-Aug-2019
Period	05:30 AM to 06:30 AM (UTC)
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	9877	99	118	61	2503	0.00%	2.42723
TR_prereg_sendotp	9851	106	150	16	6194	0.32%	2.42955
TR_prereg_validateotp	9807	164	216	72	7426	0.13%	2.41888
TR_prereg_viewbasicdetails	9776	252	356	150	2461	0.00%	2.4114
TR_prereg_submitdemographic	9766	1737	3409	18	20523	0.00%	2.40815
TR_prereg_searchregcenter	9746	64	72	45	3037	0.00%	2.40633
TR_prereg_openbookappointmentpage	9724	28769	35251	2500	58931	0.00%	2.40722
TR_prereg_bookappointment	2693	18777	25878	176	46201	0.98%	0.66943
TR_prereg_notify	2572	16209	22784	88	44312	0.54%	0.64059
TR_prereglogout	9521	153	193	101	7152	0.00%	2.36545

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 -16.209 sec
2. Openbook appointment page – 28.769 sec
3. Book appointment page – 18.777 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 – 28.769 sec
2. Book appointment page – 18.777 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

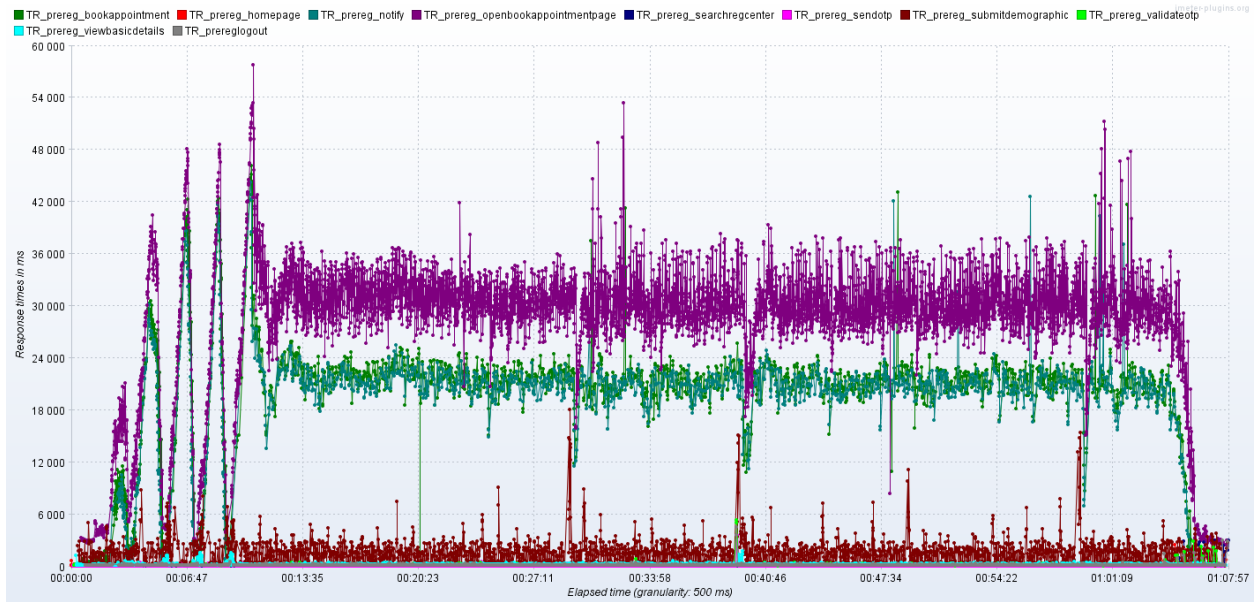
Active threads over Time:



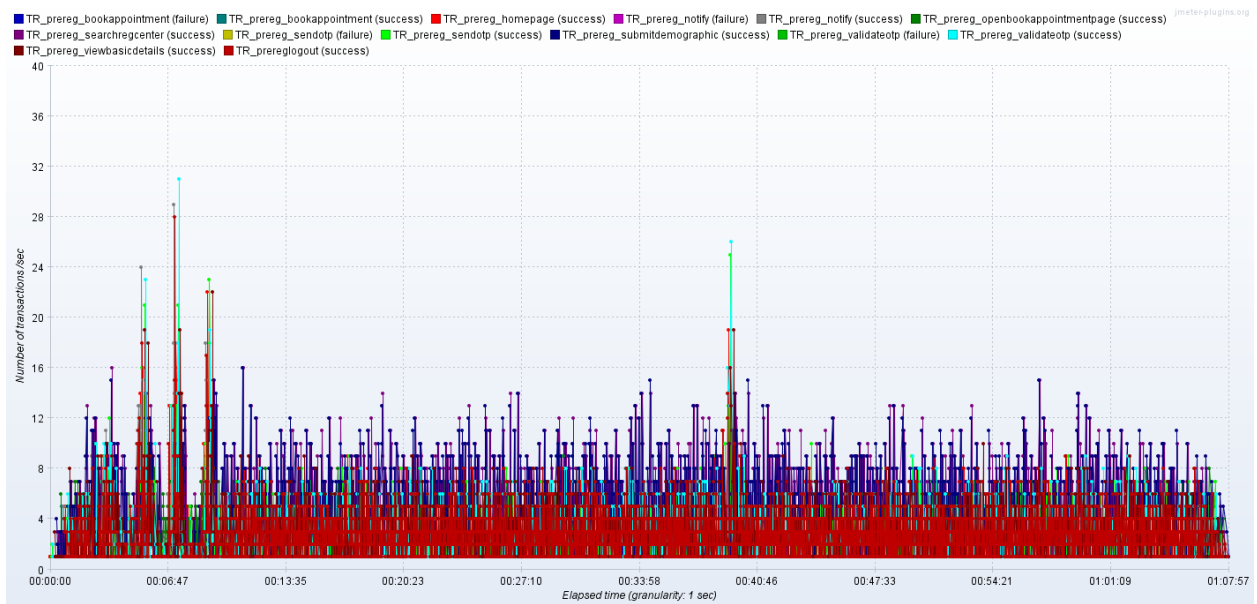
Response Time Graph

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

1. Notify request - **16.209** sec



Transactions per second:

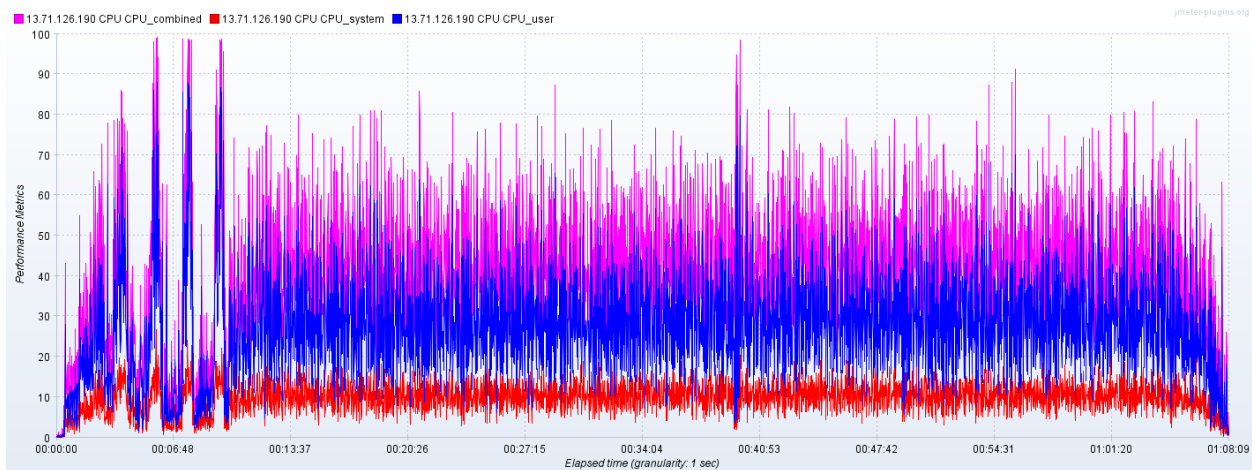


All key transactions error rate is less than 1% and **Upload POI and POA documents requests are not included its known issue**

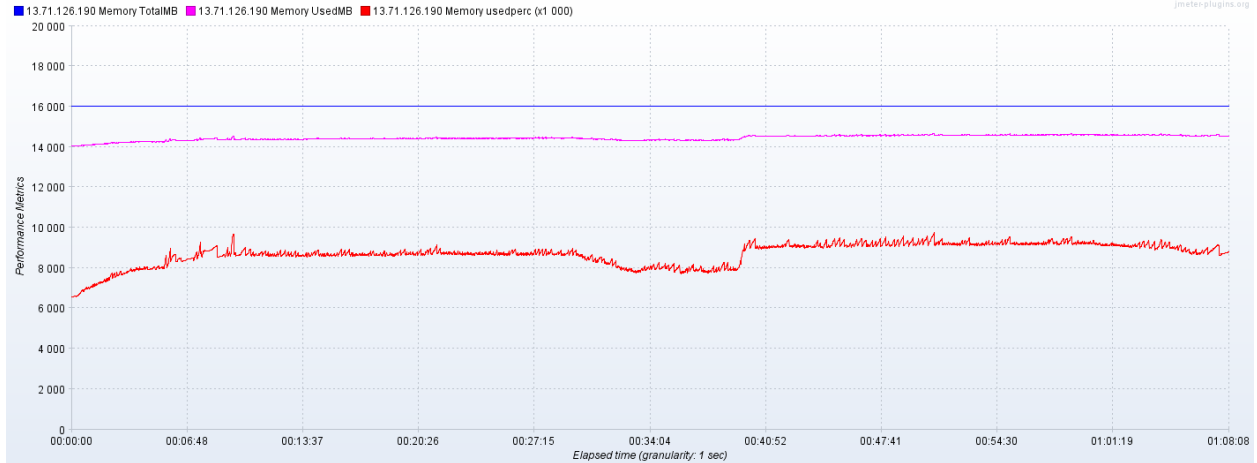
Resource usage pattern of DB Server:

CPU Usage:

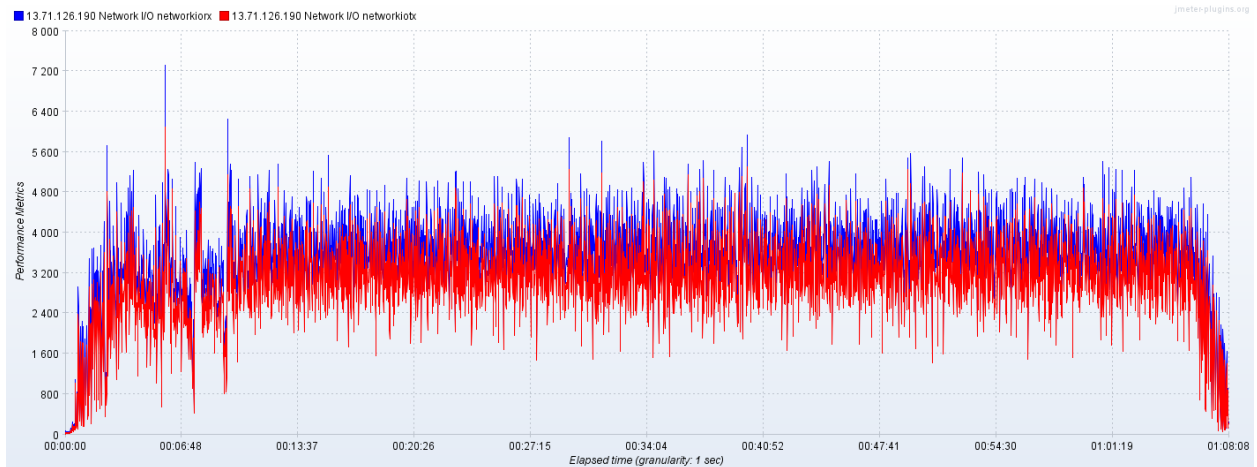
There were intermittent spikes observed in overall CPU usage



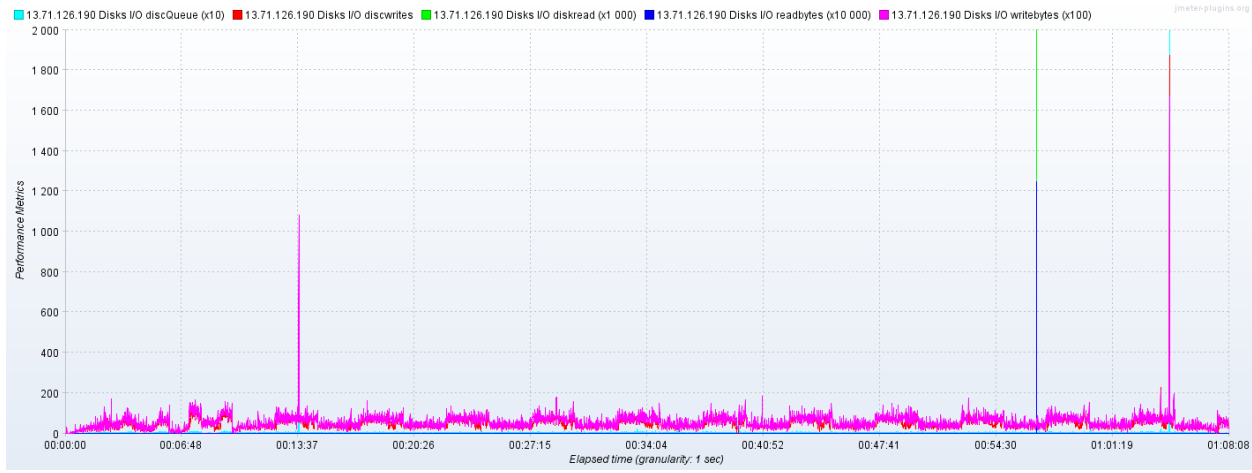
Memory utilization:



Network io:



Disc Read/writes:



Conclusion and Next Steps

After the defect MOS-27246 fix response times for homepage and Logout pages are very less compared to earlier performance runs and we will be retesting again in new PT environment