

Performance Test Report

For

Execution of

Preregistration module – 8 users

Date: 25 Jun 2020

Author: Anand Babaleshwar

Summary

This report presents the observations and findings of the load test conducted for a load of 8 concurrent users performing booking full flow scenario for 2.04-hour duration without thinktime

The objective of this load test was to observe and record the behavior of the application when users are performing booking full flow scenario

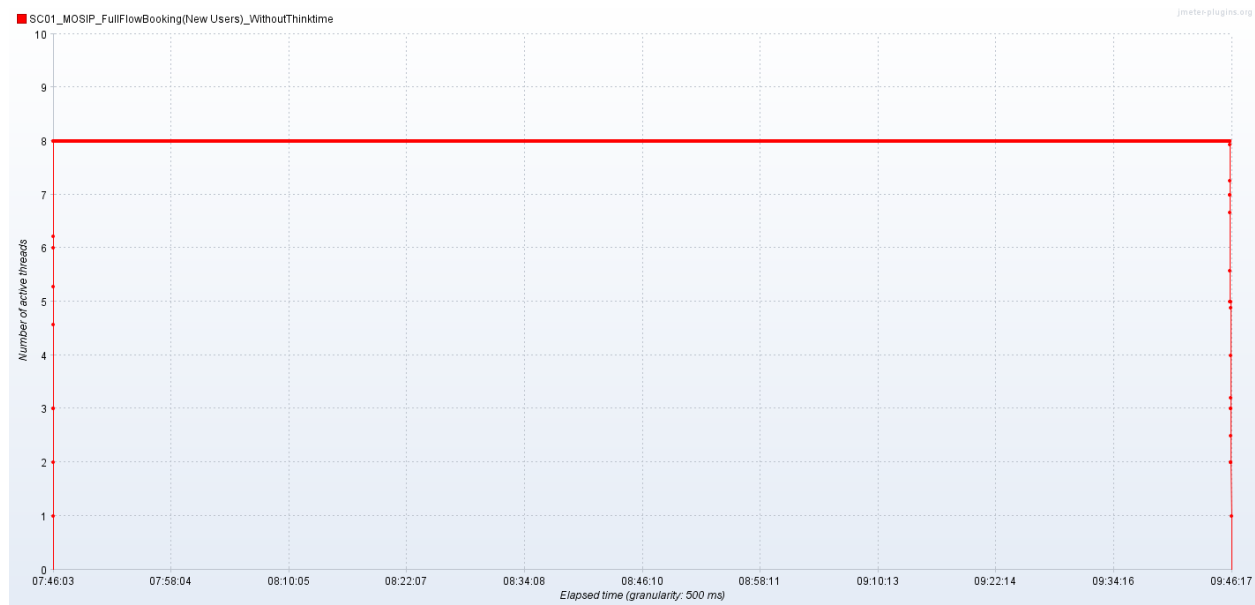
Below are the scenario details:

Identified Key scenarios:

1) MOSIP_PT_PreReg_UI_BookingfullFlow

Run Date	25-Jun-2019
Period	07:46 to 09:47 AM (UTC)
Number of concurrent users	8 (20 min rampup)
Ramp up	8 users ramp up refer below ramp up profile
Run Duration	2.05 hours
Think time	0 sec

Ramp-up profile:



Transaction response times observed were as below:

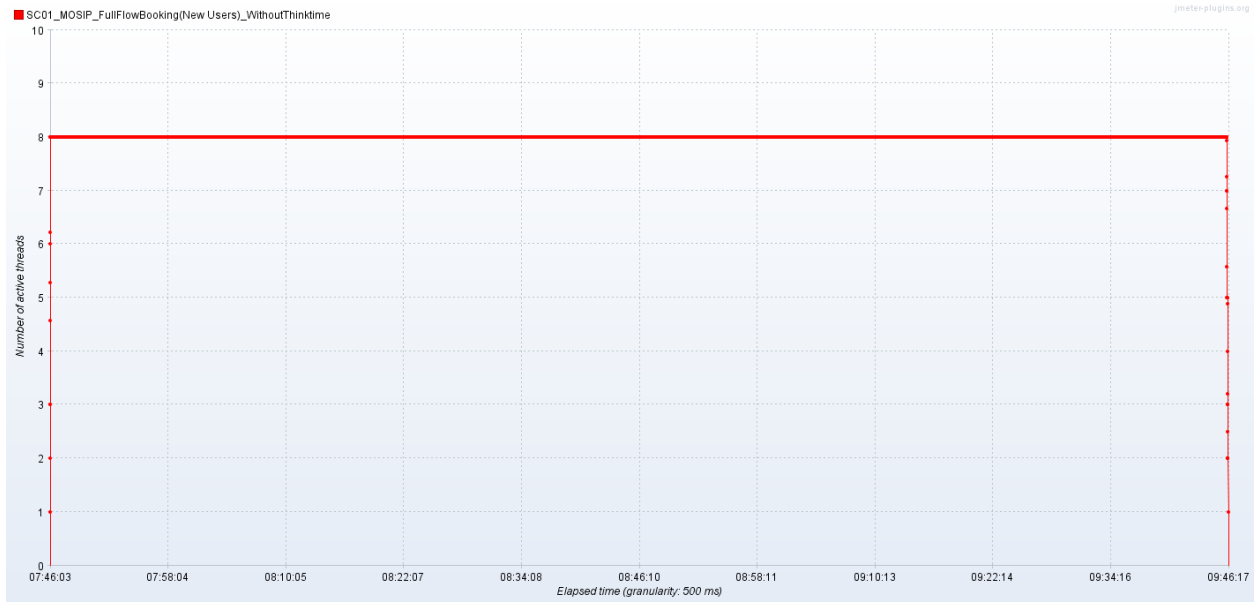
Label	# Samples	Average (ms)	90% Line (ms)	Min (ms)	Max (ms)	Error %	Throughput (sec)
TR_prereg_homepage	15010	260	332	194	1911	0.00%	2.08116
TR_prereg_sendotp	15009	533	619	233	1750	0.00%	2.081
TR_prereg_validateotp	15008	296	334	222	1403	0.00%	2.0809
TR_prereg_viewbasicdetails	15007	79	93	55	1011	0.00%	2.08082
TR_prereg_submitdemographic	15006	460	519	280	1661	0.11%	2.08057
TR_prereg_uploadpoidocument	14989	402	472	267	2027	0.00%	2.07828
TR_prereg_uploadpoadocument	14989	286	324	198	1832	0.00%	2.07834
TR_prereg_searchregcenter	14987	76	89	53	1040	0.00%	2.07844
TR_prereg_openbookappointmentpage	14987	150	174	107	1085	0.00%	2.07842
TR_prereg_bookappointment	14987	463	644	287	2268	0.00%	2.07841
TR_prereg_notify	14986	201	224	159	1155	0.36%	2.07897
TR_prereglogout	14931	101	114	69	1101	0.00%	2.07137

Performance Test Execution Details

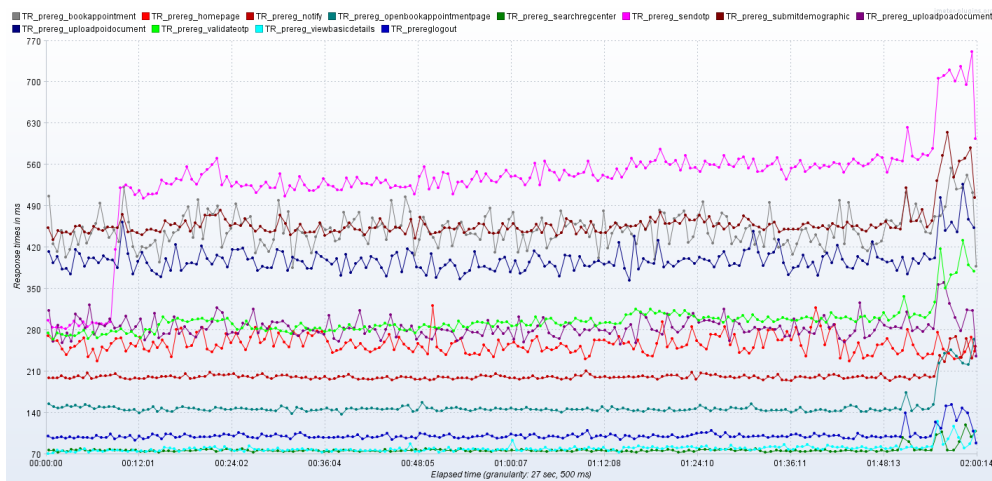
All of the transactions average response times were less than 2 sec and error rate is less than 1%

Test Environment : Sandbox preprod environment

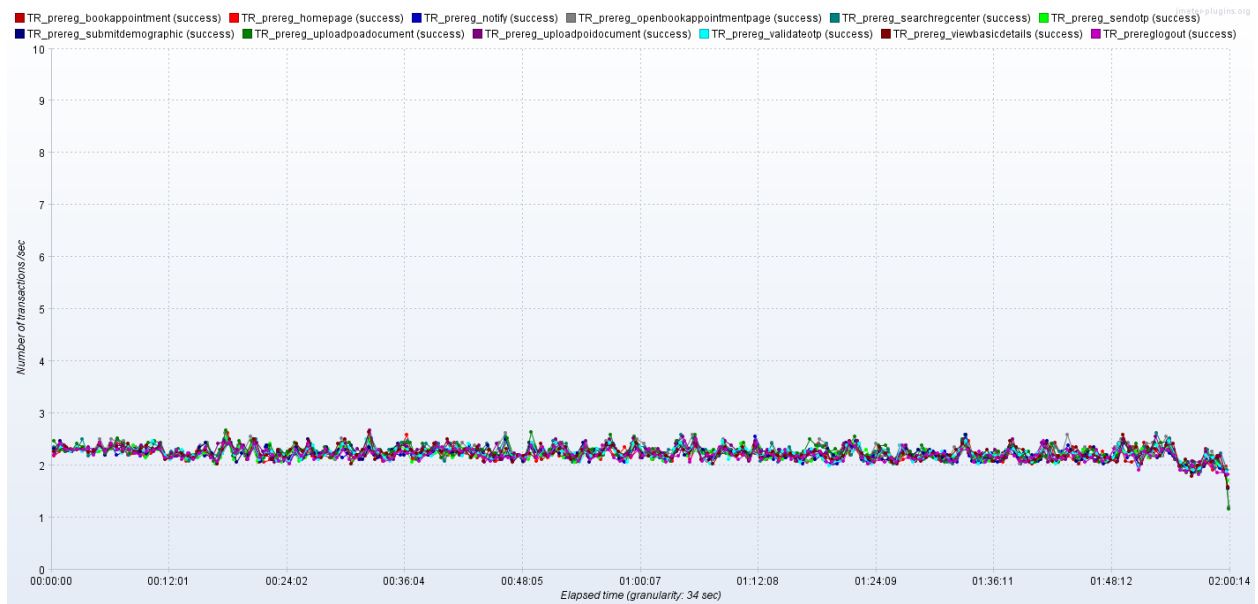
Active threads over Time:



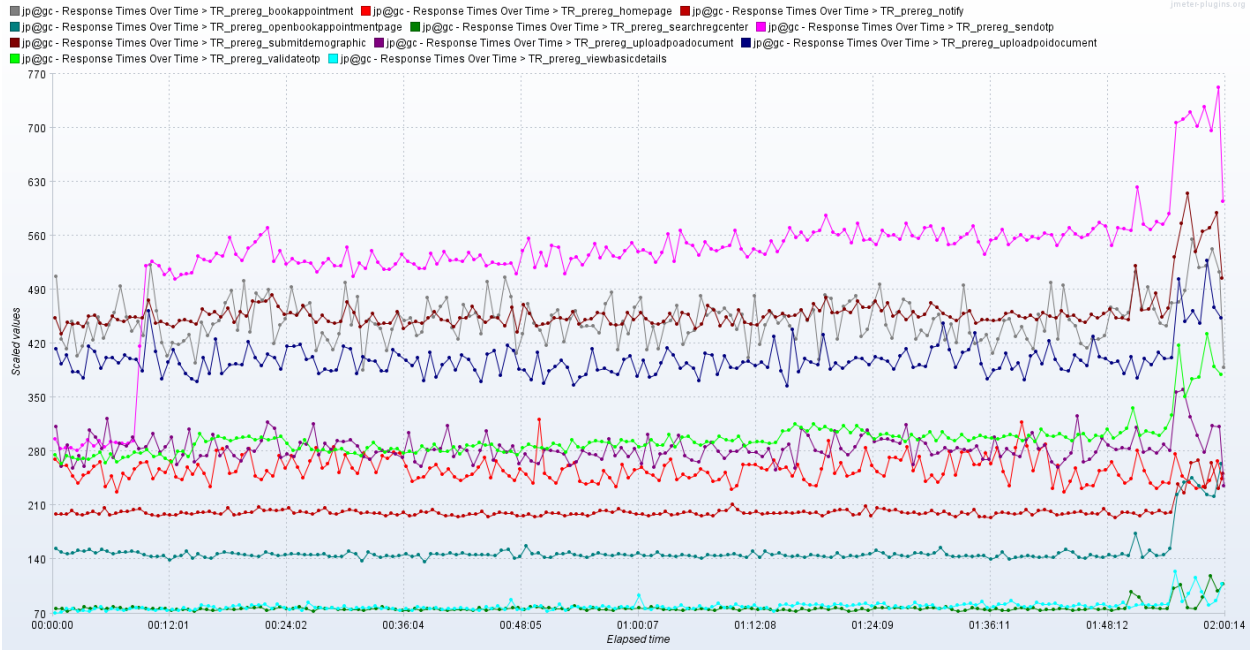
Response Time Graph



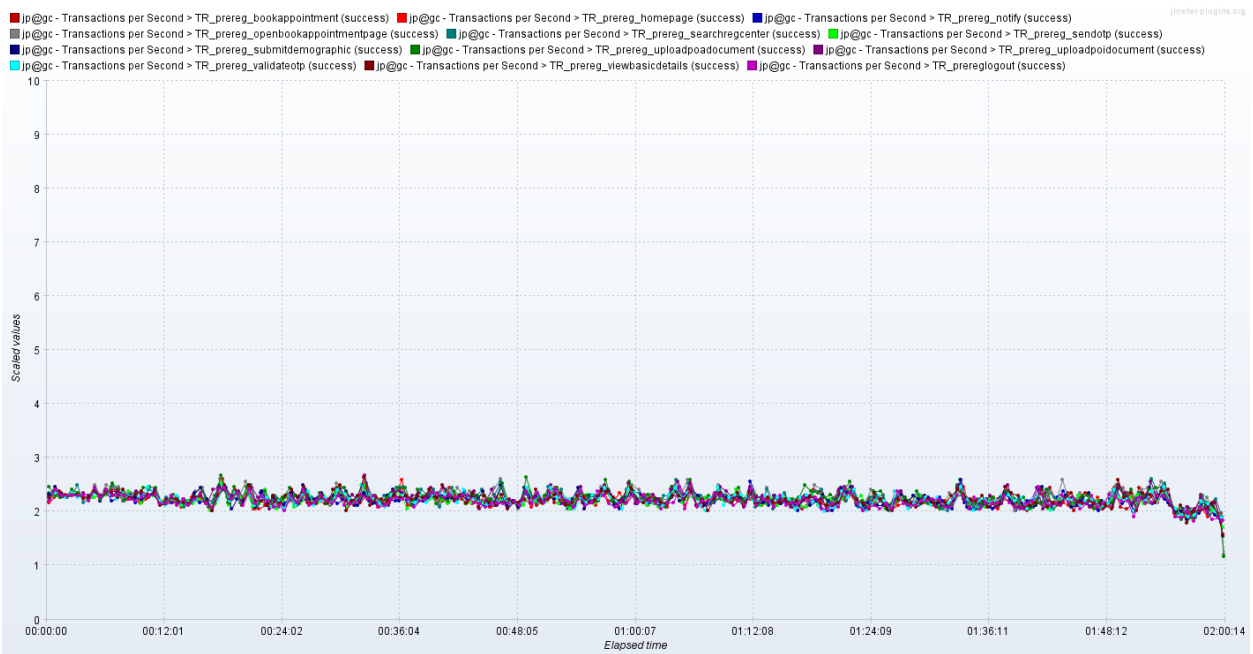
Transactions per second:



Active threads vs response times over time:



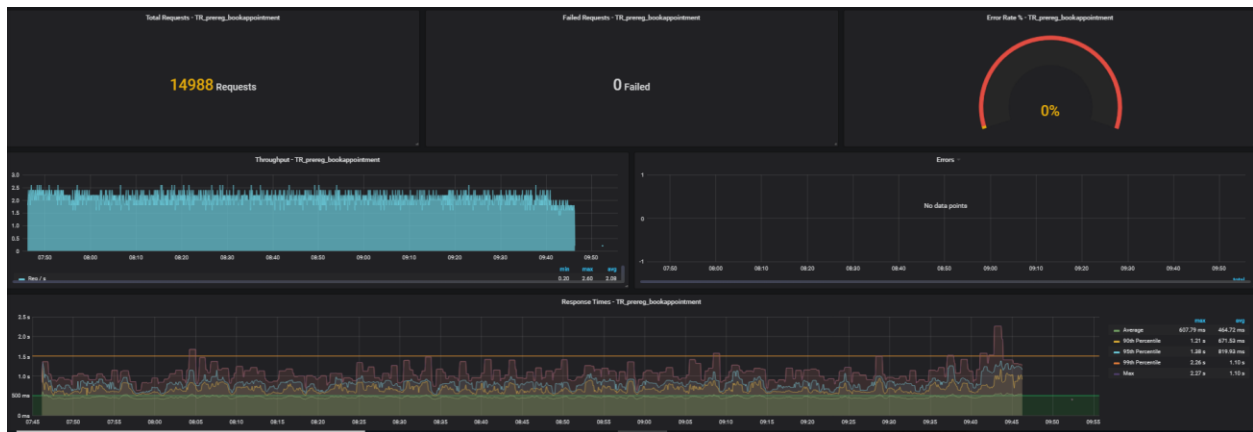
Active threads vs transactions per sec:



JMeter graph:



Booking appointment request:



MZ cluster node monitoring (9 VM's)



Conclusion and Next Steps:

We have not observed any major issues for 8 concurrent users without think time



Below are the existing issues on Old preprod environment

Issues for 300 concurrent users:

For pre-registration-notification-service observed spike of intermittent invalid response and read timeout errors

1. <https://mosip.atlassian.net/browse/MOSIP-436>
2. <https://mosip.atlassian.net/browse/MOS-27275>

Observed high average response time for booking appointment (~59.12 sec) -

<https://mosip.atlassian.net/browse/MOSIP-697>, <https://mosip.atlassian.net/browse/MOS-30796>

Issues for 400 concurrent users:

<https://mosip.atlassian.net/browse/MOS-31257>, <https://mosip.atlassian.net/browse/MOSIP-436>,
<https://mosip.atlassian.net/browse/MOS-27275>

Issues for 500,600 and 700 concurrent users:

<https://mosip.atlassian.net/browse/MOS-31257>, <https://mosip.atlassian.net/browse/MOSIP-436>
<https://mosip.atlassian.net/browse/MOS-27275>, <https://mosip.atlassian.net/browse/MOSIP-261>
<https://mosip.atlassian.net/browse/MOSIP-262>, <https://mosip.atlassian.net/browse/MOSIP-544>
<https://mosip.atlassian.net/browse/MOSIP-243>, <https://mosip.atlassian.net/browse/MOS-31208>
<https://mosip.atlassian.net/browse/MOS-29629>, <https://mosip.atlassian.net/browse/MOS-28263>