

Performance Test Report

For

Execution of

Preregistration module – 1200 users

Date: 25 Jun 2020

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Summary

This report presents the observations and findings of the load test conducted for a load of 1200 concurrent users performing booking full flow scenario for 1.04-hour duration

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

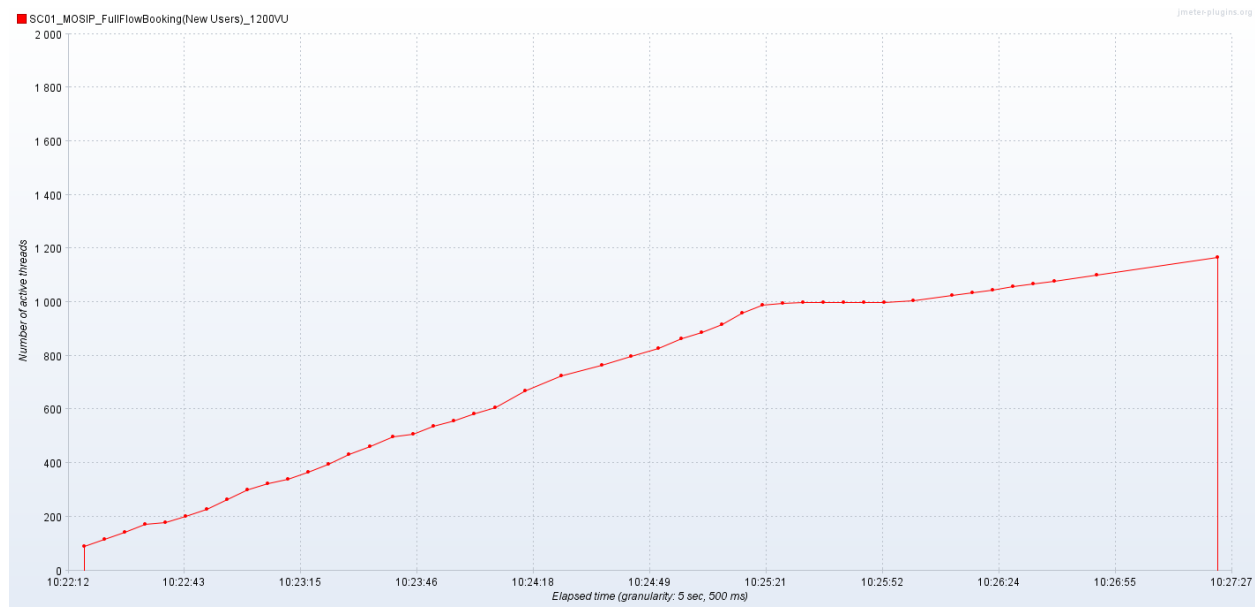
Below are the scenario details:

Identified Key scenarios:

1) MOSIP_PT_PreReg_UI_BookingfullFlow

Run Date	25-Jun-2019
Period	10:22 to 10:28 AM (UTC)
Number of concurrent users	1200 (20 min ramp up)
Ramp up	300 users ramp up refer below ramp up profile
Run Duration	6 Min (aborted test due to high count of failures)
Think time	10 sec

Ramp-up profile:



Transaction response times observed were as below:

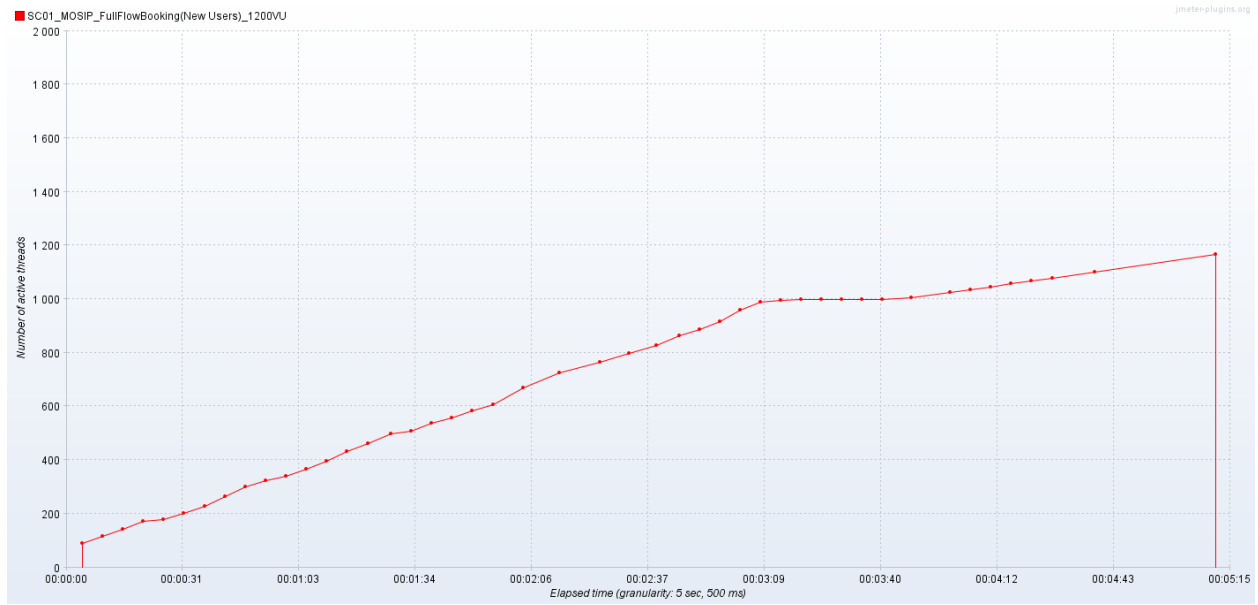
Label	# Samples	Average (ms)	90% Line (ms)	Min (ms)	Max (ms)	Error %	Throughput (sec)
TR_prereg_homepage	2838	8909	60209	9	64845	78.86%	9.02109
TR_prereg_sendotp	600	24186	60014	257	60550	33.17%	3.2345
TR_prereg_validateotp	401	19300	60028	379	61299	24.94%	2.62648
TR_prereg_viewbasicdetails	301	21364	60011	113	60174	25.58%	1.99327
TR_prereg_submitdemographic	223	41785	63444	713	134930	42.15%	1.19472
TR_prereg_uploadpoidocument	129	43003	60033	623	60663	70.54%	1.14844
TR_prereg_uploadpoadocument	38	32305	60017	433	60567	52.63%	0.3873
TR_prereg_searchregcenter	18	40166	61329	377	64251	61.11%	0.20861
TR_prereg_openbookappointmentpage	7	60020	60021	60011	60060	100.00%	0.0685

Performance Test Execution Details:

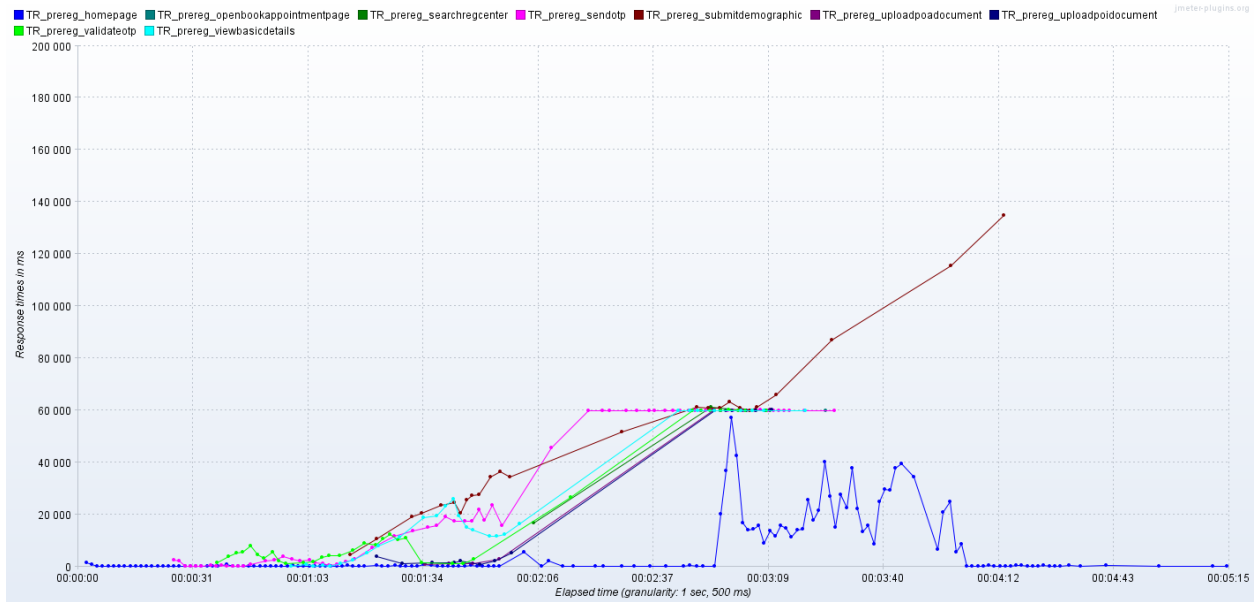
We have observed huge count of spike of 10 to 12 count errors for when users spiked from 400 to 600 concurrent users, Beyond 600 concurrent users we are unable to access home page manually as well

Test Environment : Sandbox preprod environment

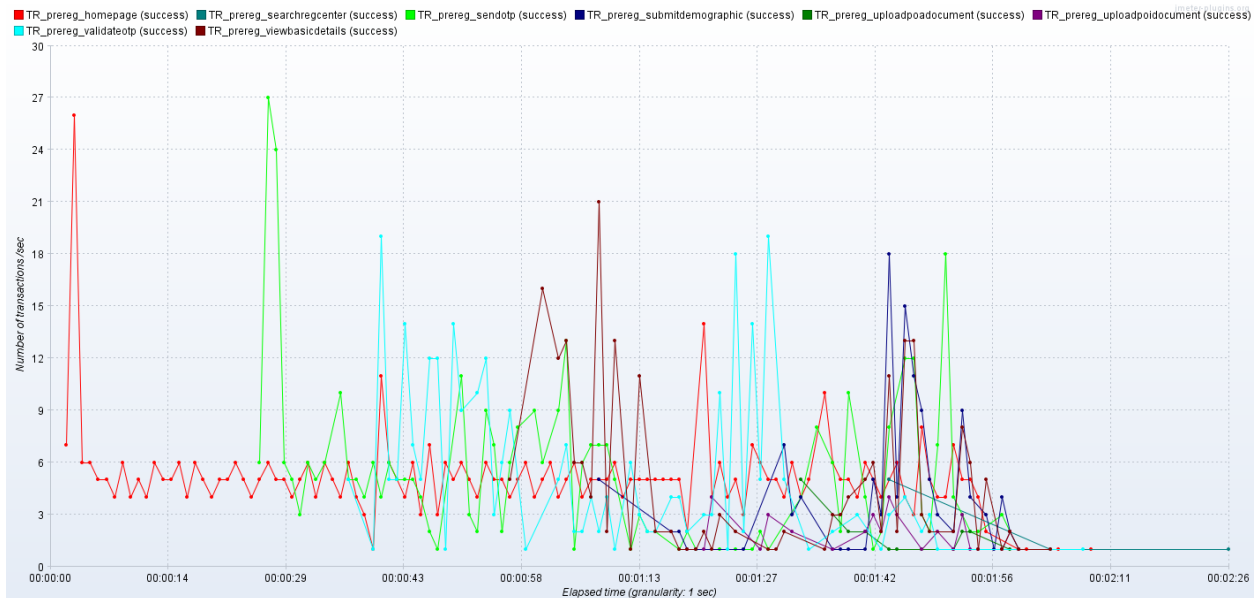
Active threads over Time:



Response Time Graph

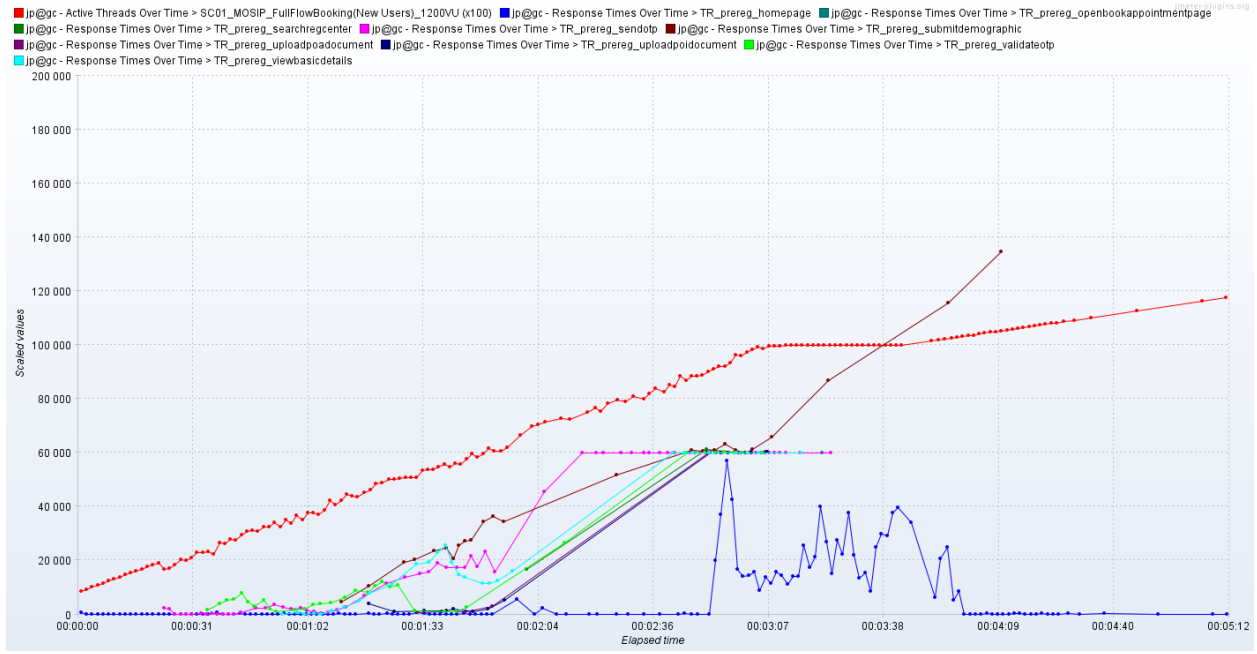


Transactions per second:

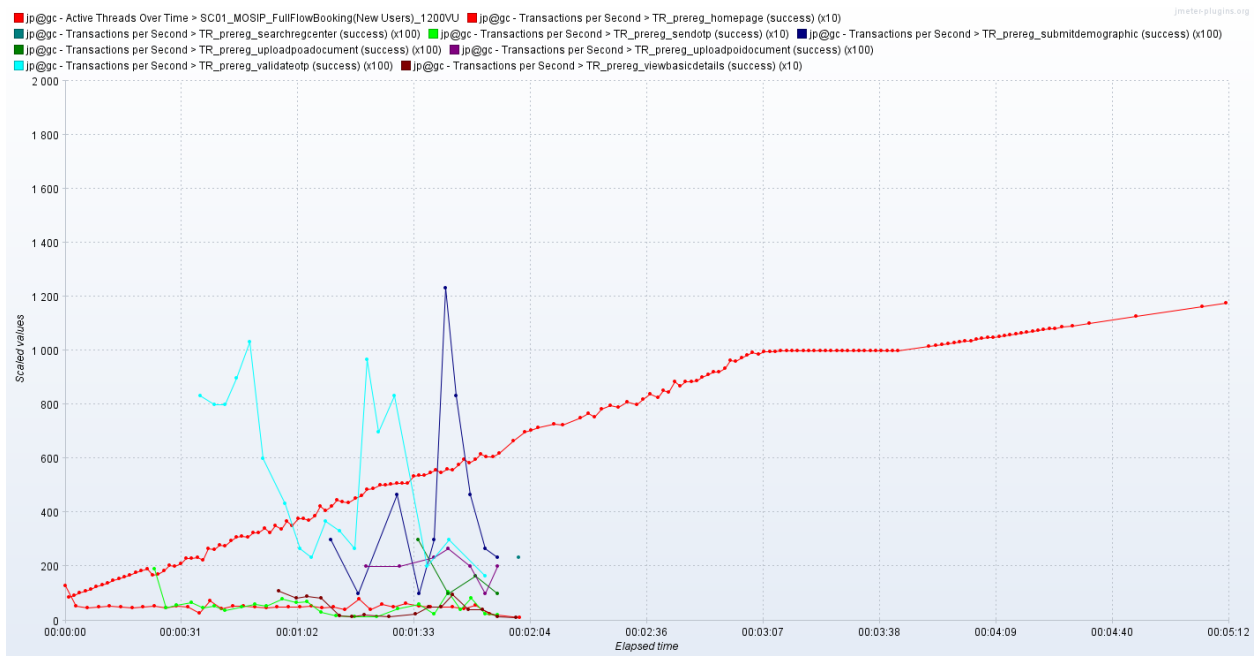




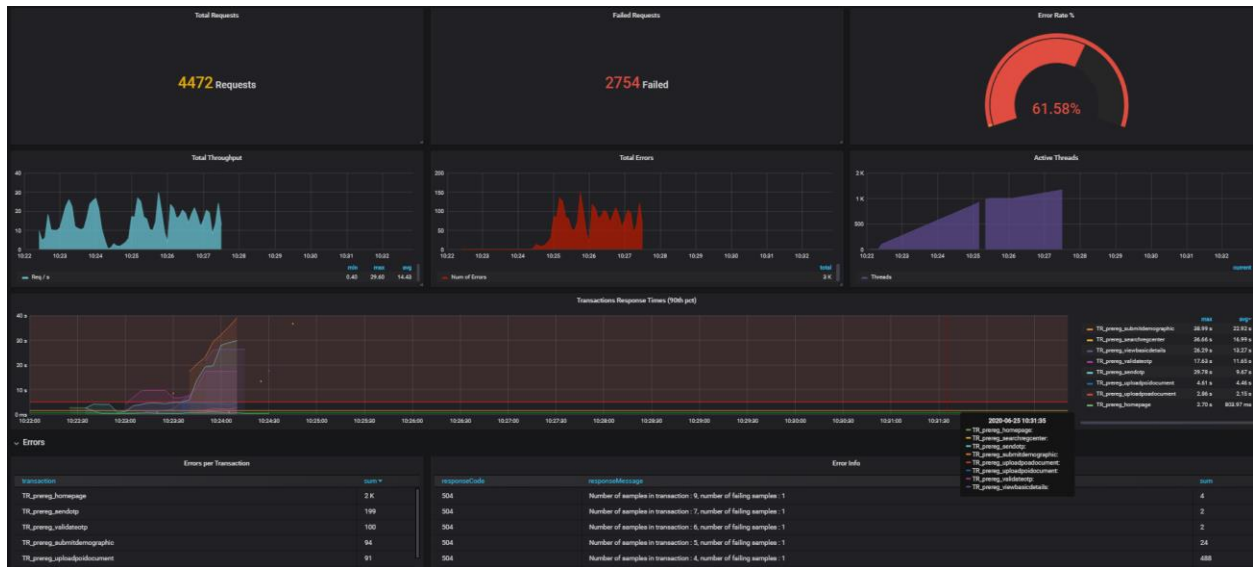
Active threads vs response times over time:



Active threads vs transactions per sec:



JMeter graph:



Submit demographic request:



MZ cluster node monitoring (9 VM's)





Conclusion and Next Steps:

We have observed huge count of spike of 10 to 12 count errors for when users spiked from 400 to 600 concurrent users, Beyond 600 concurrent users we are unable to access home page manually as well

Below are the existing issues on Old prepod 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>