Mindtree

Performance Test Report

For

Execution of

Preregistration module – 300 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 300 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

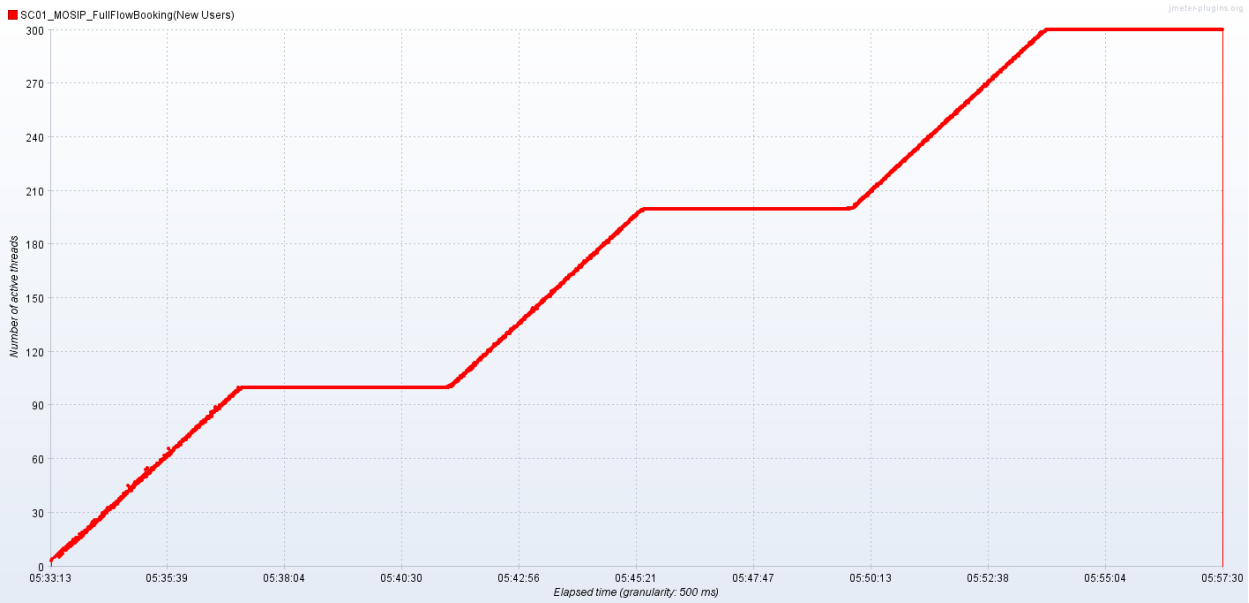
Below are the scenario details:

Identified Key scenarios:

1) MOSIP_PT_PreReg_UI_BookingfullFlow

Run Date	25-Jun-2019
Period	05:33 to 05:58 AM (UTC)
Number of concurrent users	300 (20 min rampup)
Ramp up	300 users ramp up refer below ramp up profile
Run Duration	1.05 hours
Think time	5 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	2759	549	692	197	1695	0.00%	1.90179
TR_prereg_sendotp	2745	669	1058	261	2564	0.00%	1.89997
TR_prereg_validateotp	2709	358	502	229	1674	0.00%	1.89007
TR_prereg_viewbasicdetails	2698	115	182	61	846	0.00%	1.88847
TR_prereg_submitdemographic	2680	673	1098	373	2993	0.11%	1.88373
TR_prereg_uploadpoidocument	2665	513	775	318	2578	0.00%	1.87957
TR_prereg_uploadpoadocument	2645	402	677	211	2646	0.00%	1.87275
TR_prereg_searchregcenter	2616	151	265	72	973	0.00%	1.86616
TR_prereg_openbookappointmentpage	2580	1735	5924	115	13464	0.00%	1.84746
TR_prereg_bookappointment	2502	4795	17071	299	27667	0.04%	1.81156
TR_prereg_notify	2489	332	570	176	1816	5.18%	1.80932
TR_prereglogout	2339	149	217	90	957	0.00%	1.71399

Performance Test Execution Details

All of the transactions average response times were less than 2 sec except below

TR_prereg_bookappointment – 4.795 sec

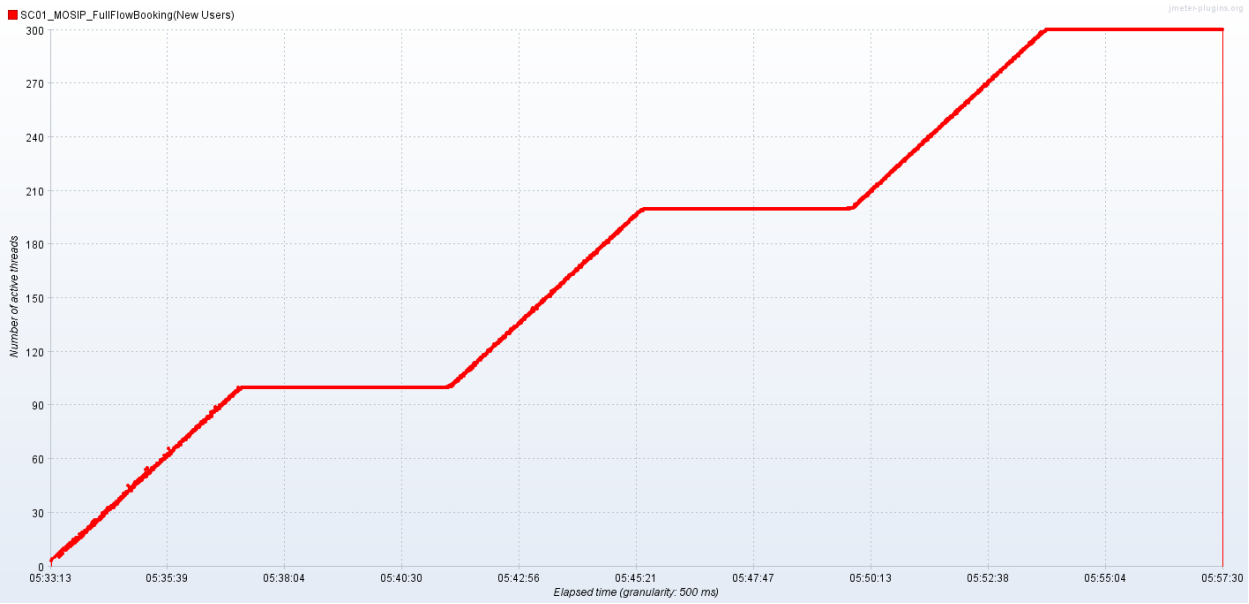
The error rate for below transactions are more than 1%:

Transactions	Error %
TR_prereg_notify	4.795 %

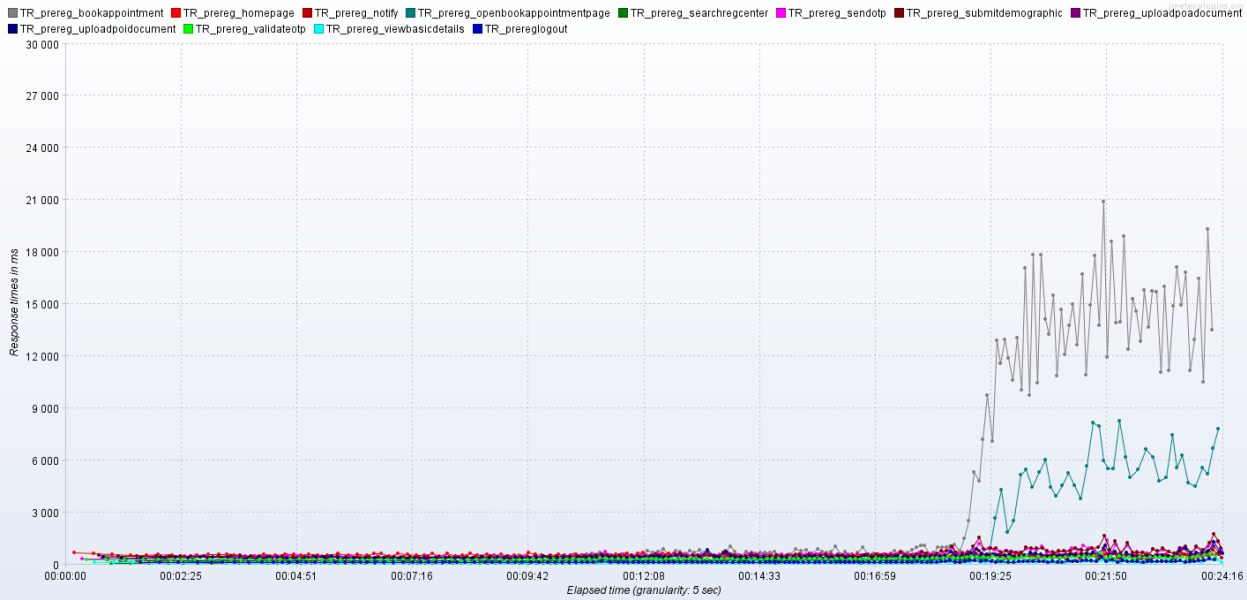
For pre-registration-notification-service observed spike of intermittent invalid response https://mosip.atlassian.net/browse/MOS-27275

Test Environment : **Sandbox preprod environment**

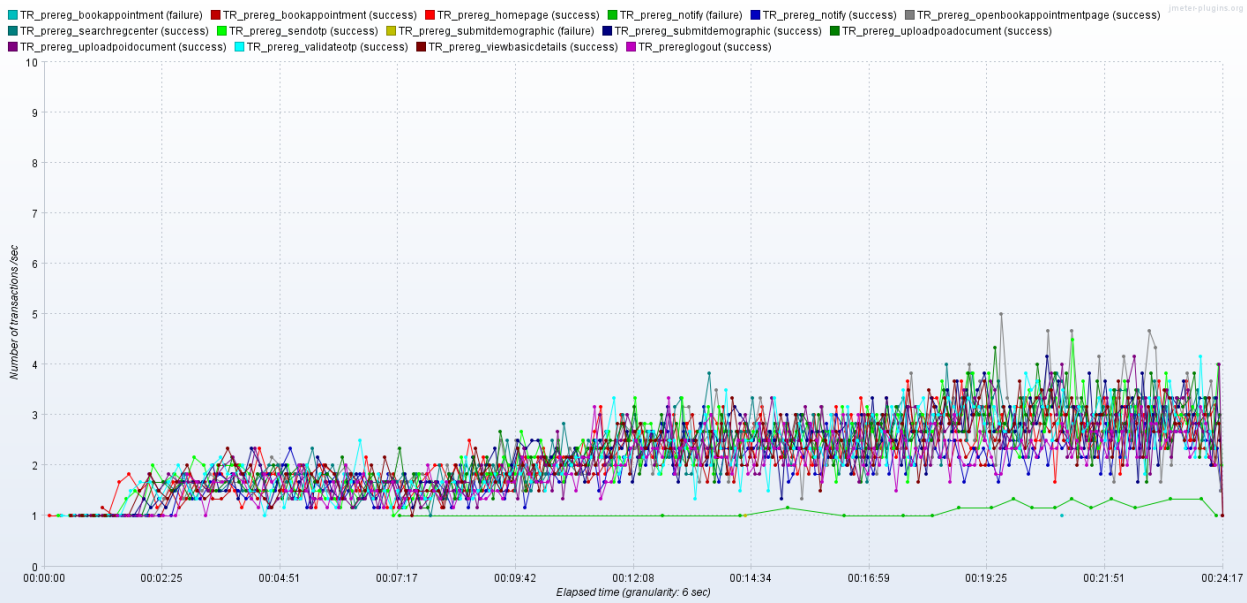
Active threads over Time:



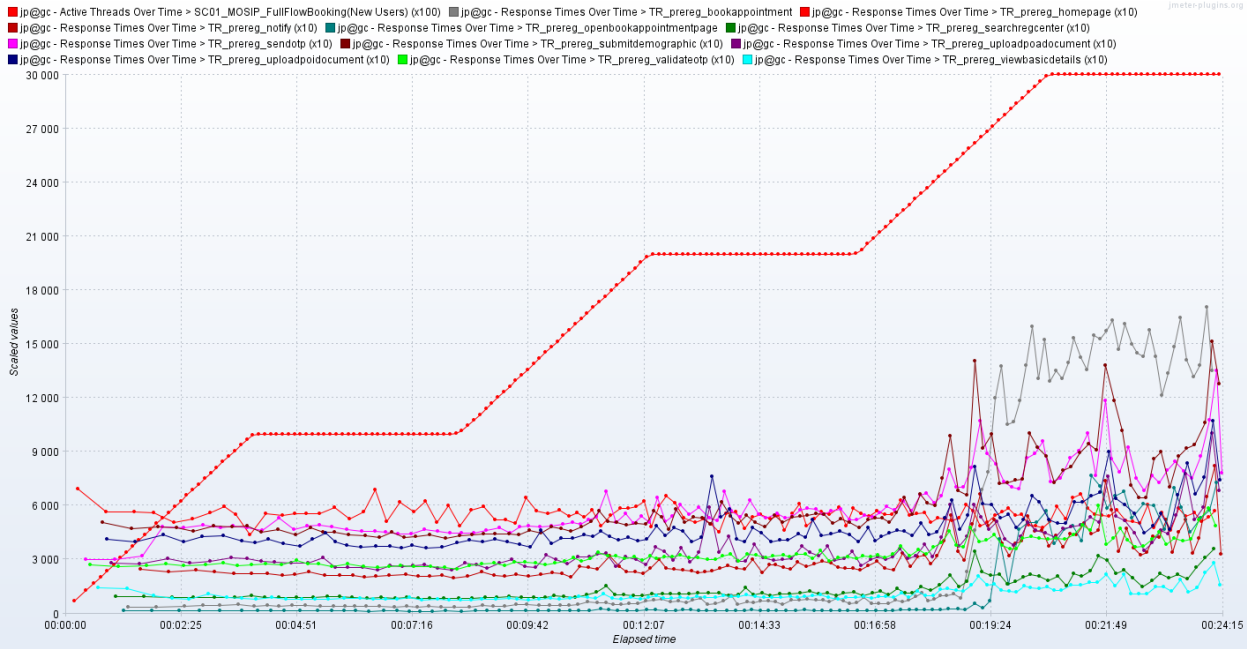
Response Time Graph



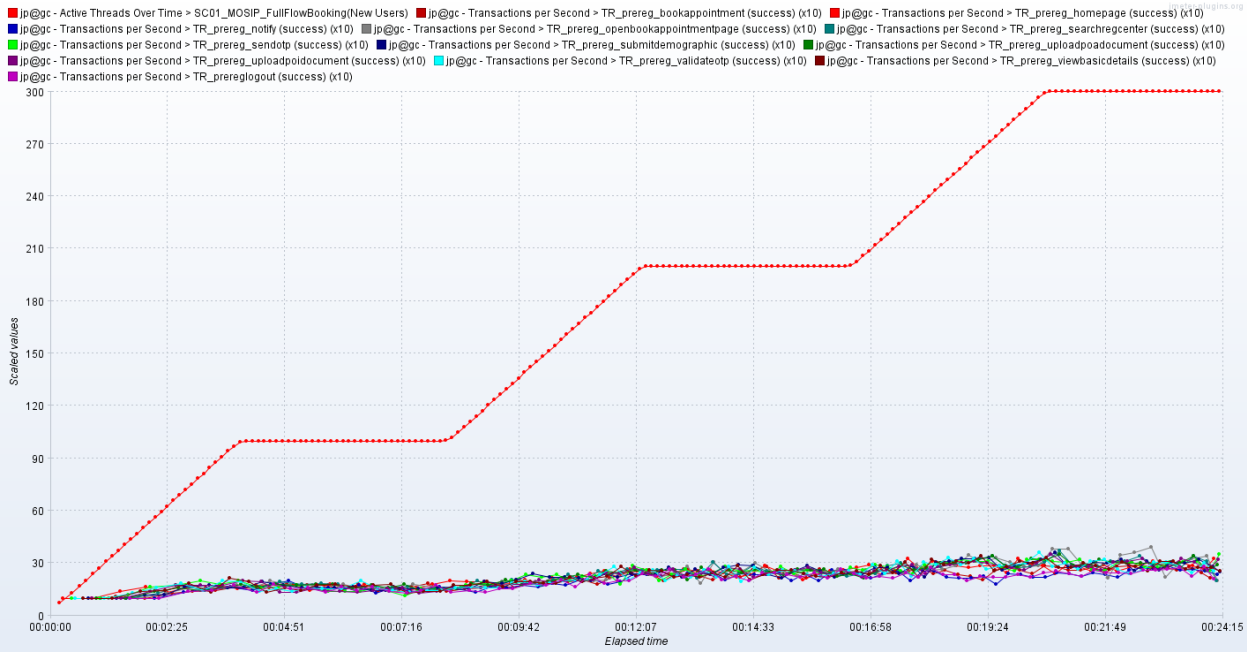
Transactions per second:



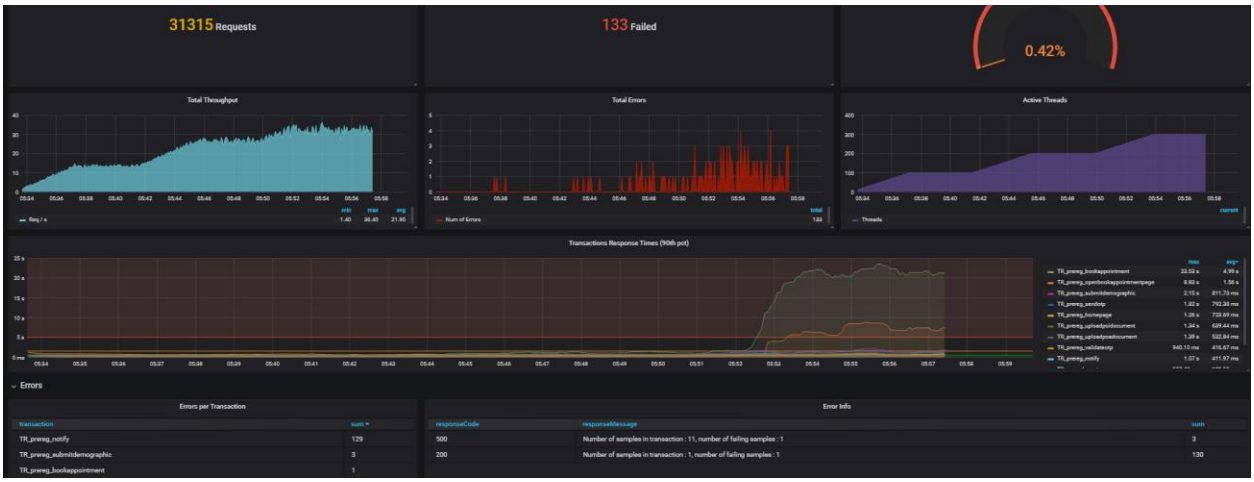
Active threads vs response times over time:



Active threads vs transactions per sec:



JMeter graph:



Booking appointment request:

MZ cluster node monitoring (9 VM's)

Conclusion and Next Steps:

We have observed high response times for booking service requests when the userload is above 220 users and started observing spike of 10 to 15 count of errors for prereg notification requests

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