Mindtree

Performance Test Report

For

Execution of

PreRegistration module – 300 users

Date: 14th Nov 2019

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Summary

This report presents the observations and findings of the load test conducted for a load of 300 users performing booking appointments full flow planned for 1-hour duration

The objective of this consistency load test was to observe and record the behavior of the application when users are booking appointments for 300 concurrent users after applying performance code fixes.

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Below are the scenario details:

Sprint/Report Name	Booking appointments
Run Date	14-Nov-2019
Period	11:31 AM to 12:38 PM (UTC)
Number of concurrent users	300
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	12044	125	272	52	2998	0.00%	3.05177
TR_prereg_sendotp	12020	227	290	89	30611	0.00%	3.04777
TR_prereg_validateotp	12011	236	312	88	3229	0.00%	3.04562
TR_prereg_viewbasicdetails	11999	2685	6779	233	73180	0.00%	3.05128
TR_prereg_submitdemographic	11982	20808	48305	306	180361	0.40%	3.0452
TR_prereg_uploadpoidocument	11888	326	428	83	4363	0.02%	3.02355
TR_prereg_uploadpoadocument	11872	229	329	106	4558	0.00%	3.02728
TR_prereg_searchregcenter	11861	72	117	38	2499	0.00%	3.02278
TR_prereg_openbookappointmentpage	11838	748	1593	114	11382	0.00%	3.02364
TR_prereg_bookappointment	11822	17340	39882	177	69641	0.00%	3.02476
TR_prereg_notify	11790	3657	9855	258	180017	2.44%	2.98714
TR_prereglogout	11416	215	358	111	3147	0.00%	2.93414

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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. TR_prereg_submitdemographic - 20.808 sec
2. TR_prereg_bookappointment - 17.340 sec
3. TR_prereg_notify - 3.657 sec

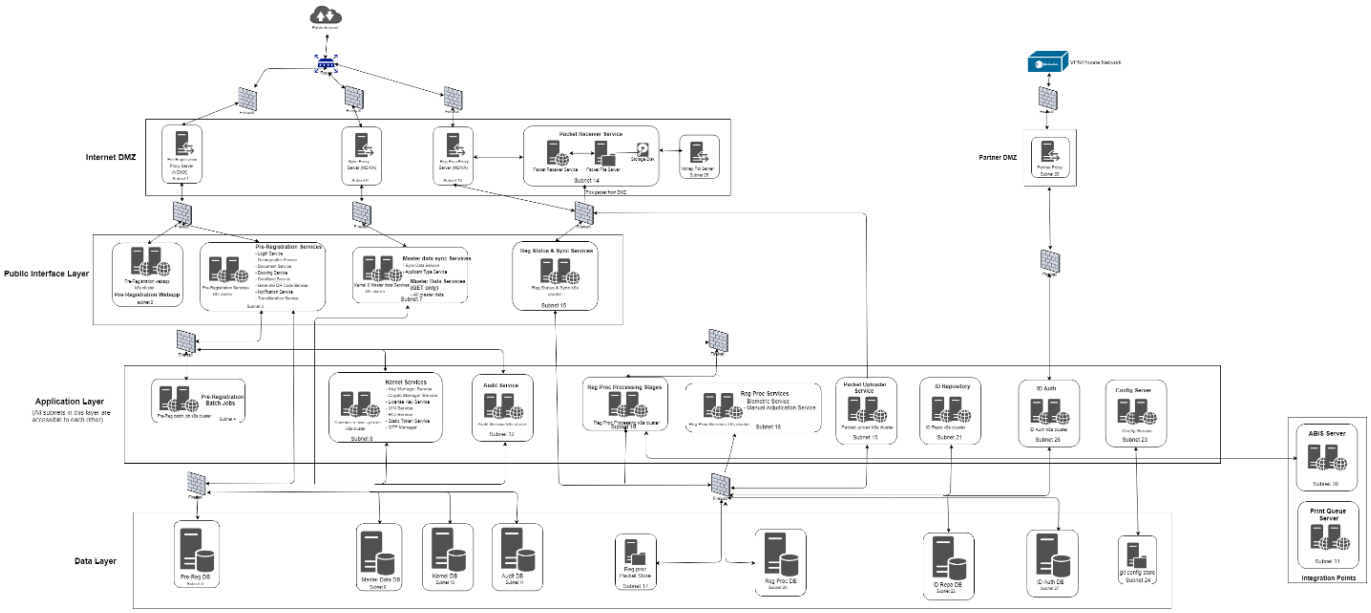
The error rate for all transactions is less than 1% except below request:

1. TR_prereg_notify - 2.44%

Below are the error messages:

{"id":"mosip.pre-registration.notification.notify","version":"1.0","responsetime":null,"response":null,"errors":null}

Test Environment: we are using scale-down version of below Architecture



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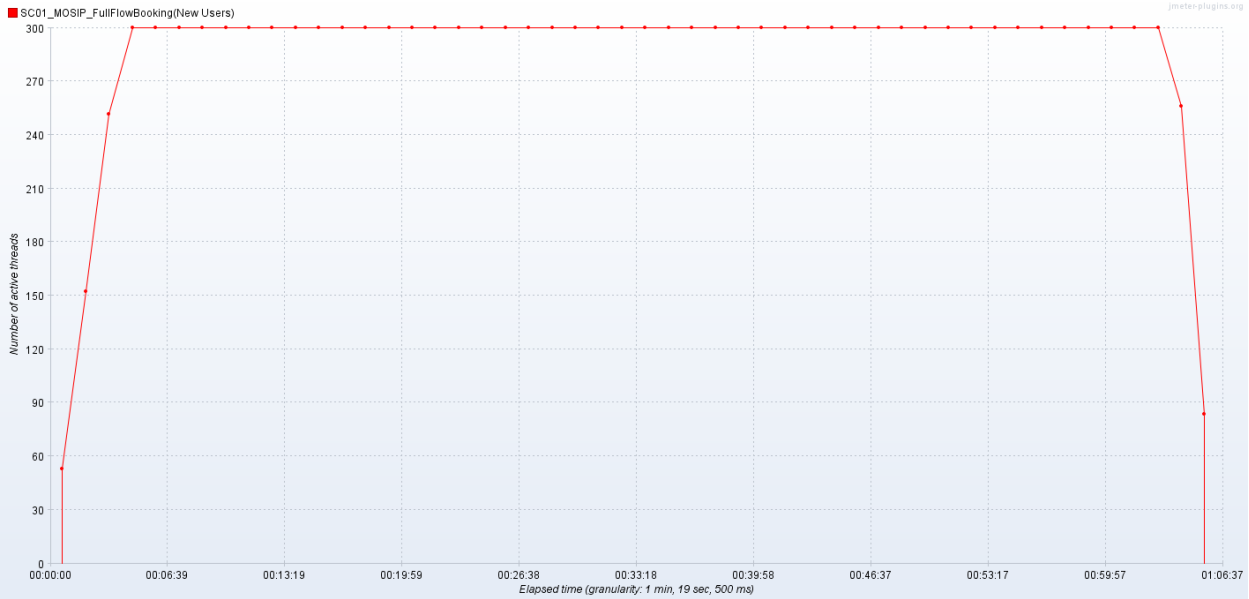
Active threads over Time:



Response Time Graph

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

1. TR_prereg_submitdemographic - 20.808 sec
2. TR_prereg_bookappointment - 17.340 sec
3. TR_prereg_notify - 3.657 sec

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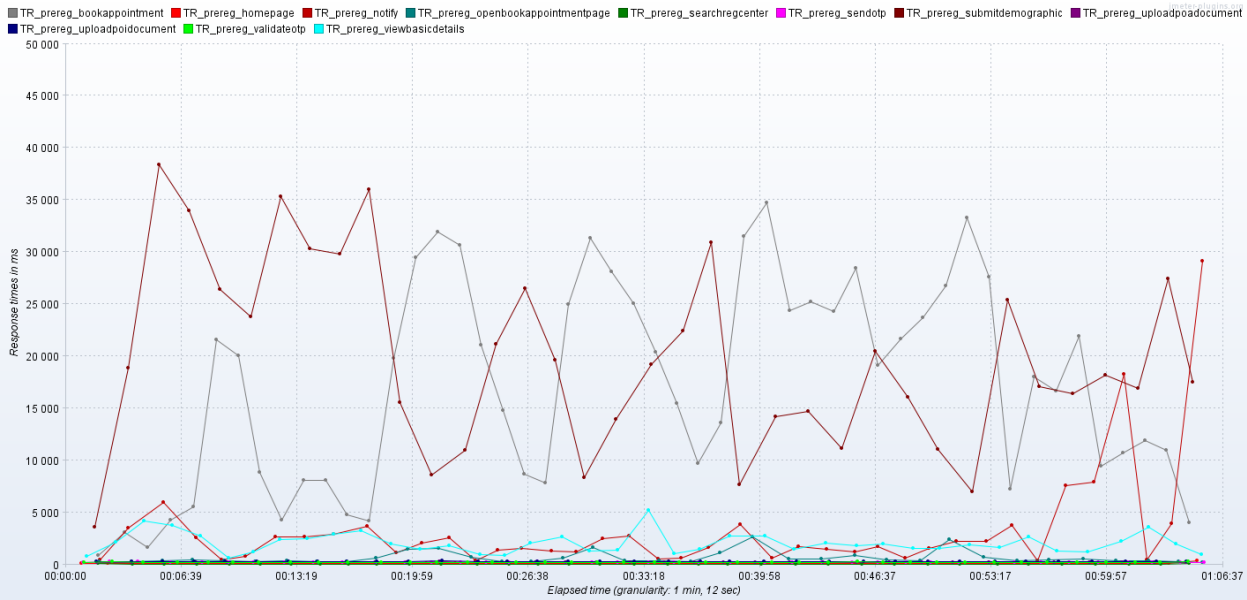
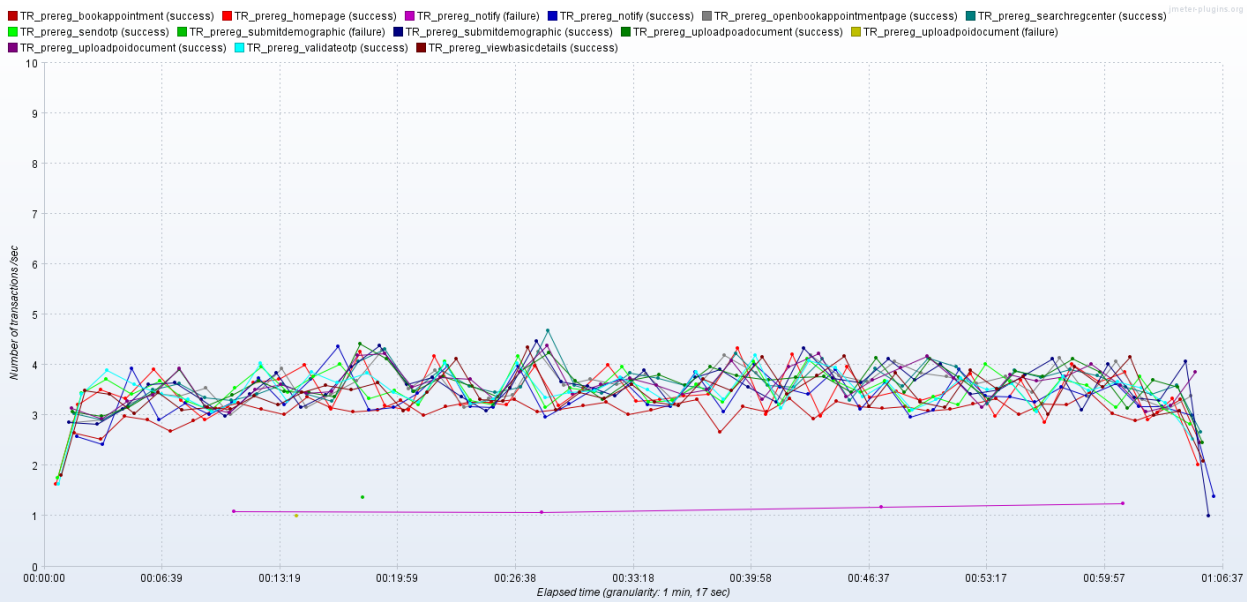


Transactions per second:



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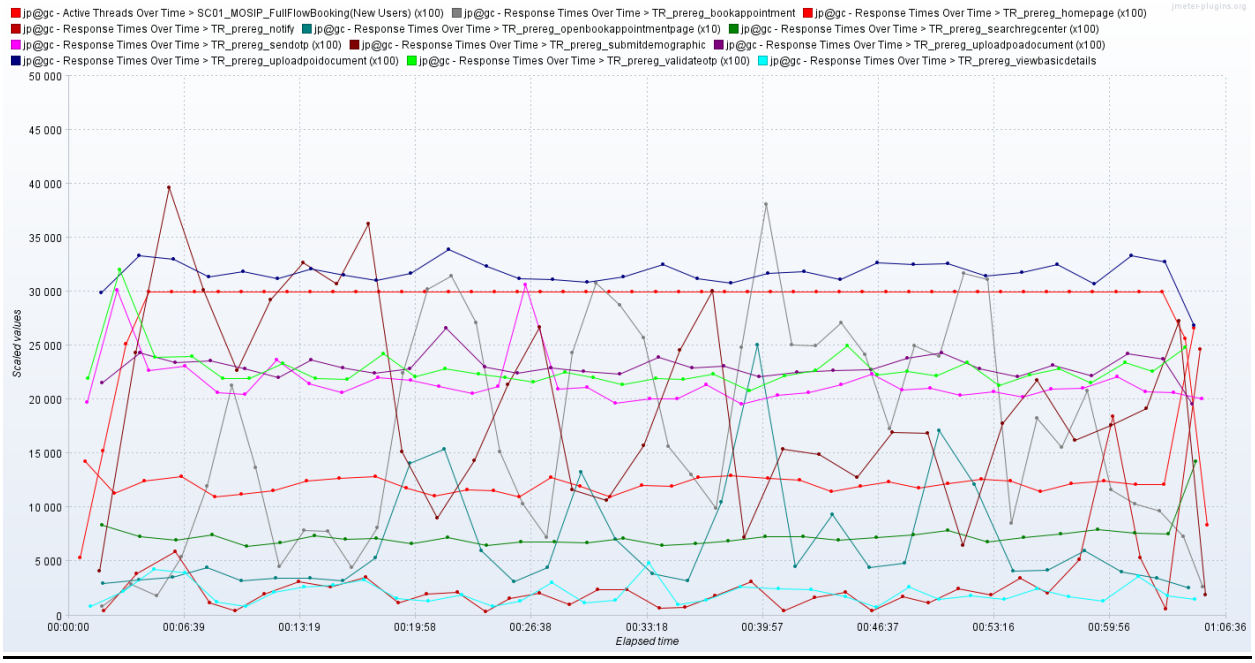
Active threads vs response times over time:



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Preregistration cluster node monitoring:

Preregistration DB node monitoring:

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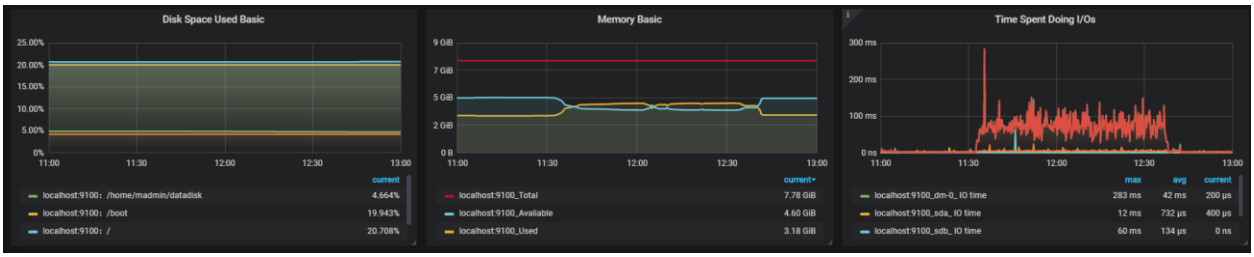
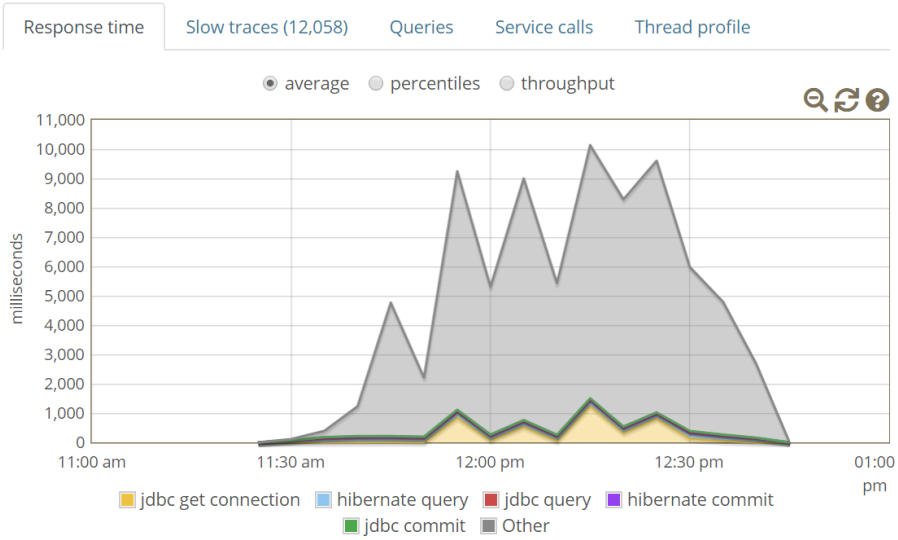


Booking service response time graph in Glowroot:



Conclusion and Next Steps

This performance test executed in order to test the application behavior after defect fixes deployed in pre-prod environment, Raised the defect MOS-30026 for the issues observed in perf run and we will follow on defects and rerun postfix applied.

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