Performance Test Report

For

Execution of

PreRegistration module – 500 users

Date: 18th Nov 2019

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Summary

This report presents the observations and findings of the load test conducted for a load of 500 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 500 concurrent users after increasing registration centers.

Below are the scenario details:

Sprint/Report Name	Booking appointments
Run Date	18-Nov-2019
Period	13:09 PM to 14:20 PM (UTC)
Number of concurrent users	500
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	11726	130	272	21	3468	0.01%	2.96635
TR_prereg_sendotp	11699	182	260	84	7906	0.00%	2.96479
TR_prereg_validateotp	11687	175	273	74	7933	0.00%	2.96615
TR_prereg_viewbasicdetails	11664	20742	28403	246	60589	0.00%	2.96879
TR_prereg_submitdemographic	11615	51174	121976	297	180639	5.25%	2.96141
TR_prereg_uploadpoidocument	10869	300	394	52	3138	0.03%	2.77345
TR_prereg_uploadpoadocument	10848	216	315	92	3066	0.00%	2.76846
TR_prereg_searchregcenter	10823	76	182	39	2992	0.00%	2.76471
TR_prereg_openbookappointmentpage	10796	373	584	129	2530	0.00%	2.75764
TR_prereg_bookappointment	10772	2007	4809	181	16694	0.01%	2.7549
TR_prereg_notify	10717	41496	53525	243	172148	2.27%	2.75183
TR_prereglogout	10388	250	393	110	7382	0.00%	2.66669

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_viewbasicdetails - 20.742 sec
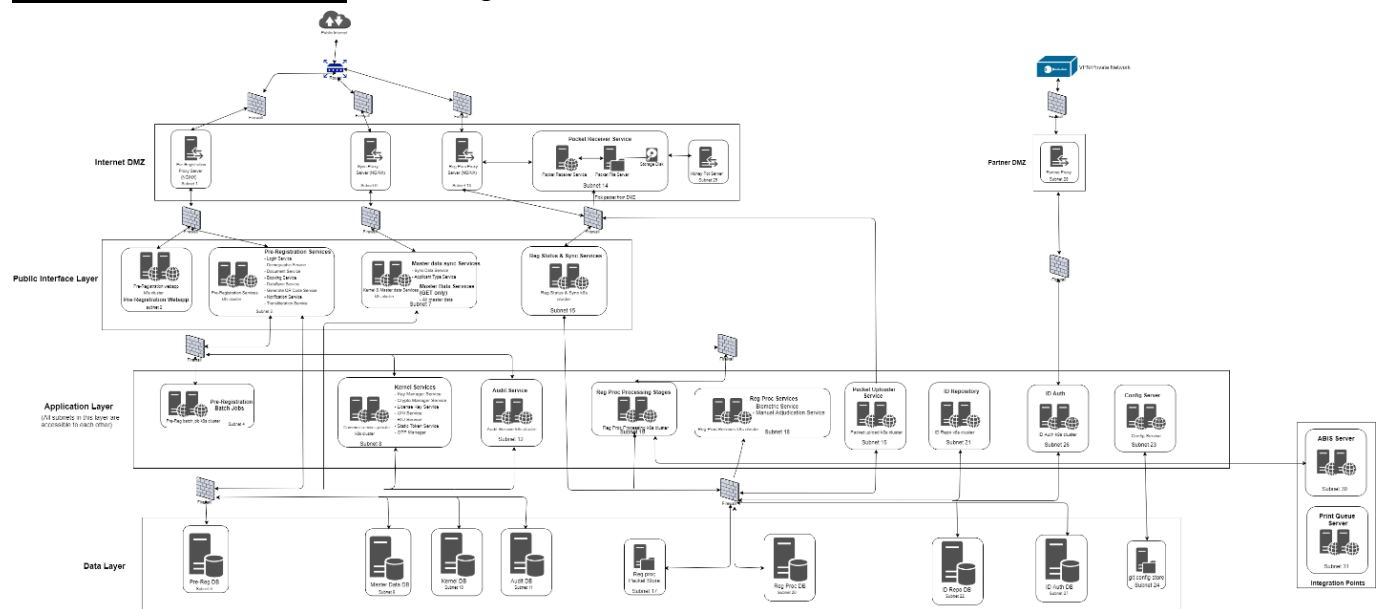2. TR_prereg_submitdemographic - 51.174 sec
3. TR_prereg_notify -41.496 sec

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

1. TR_prereg_submitdemographic -5.25%
2. TR_prereg_notify - 2.27%

Below are the error messages:

Observed read time out errors for submit demographics requests

Test Environment : we are using scale-down version of below Architecture
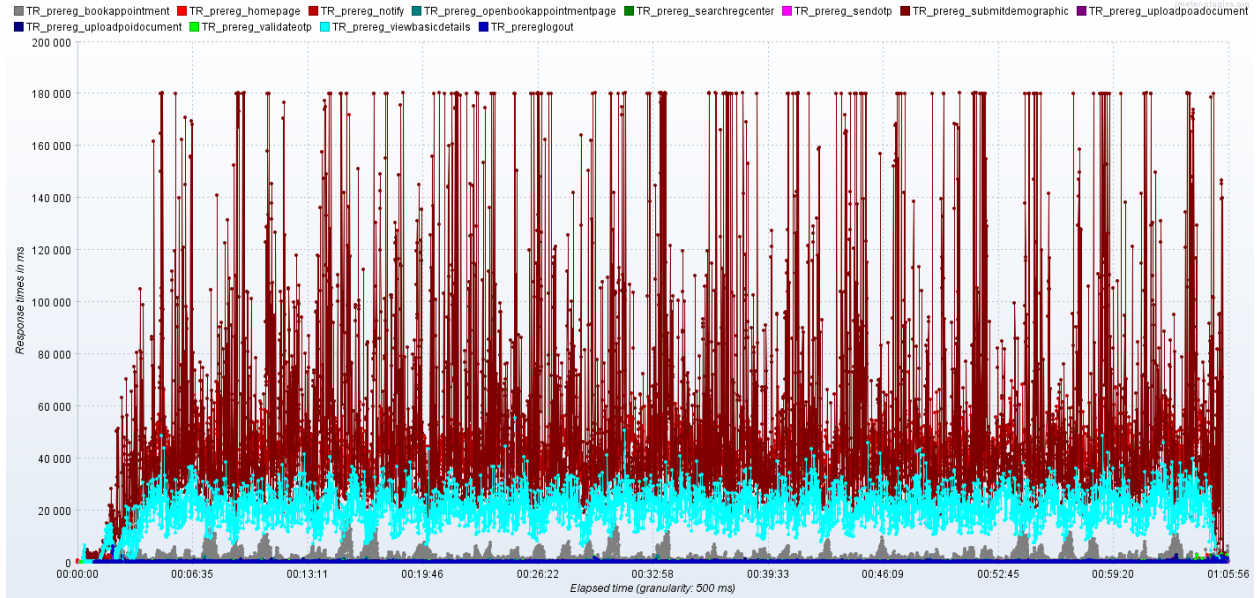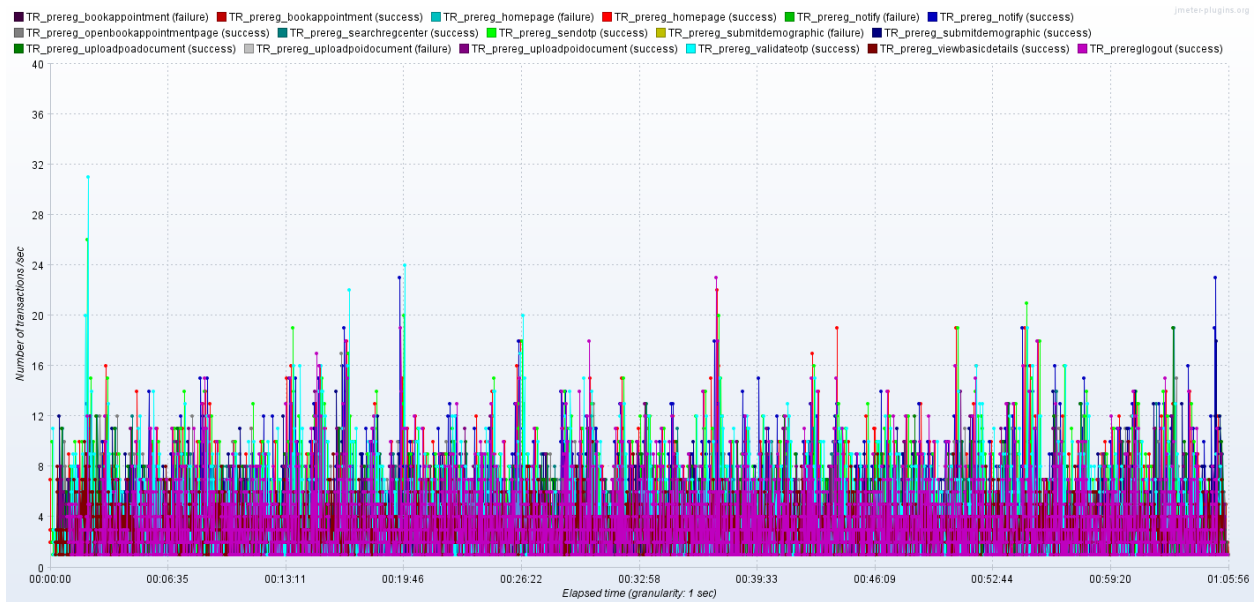
Active threads over Time:

Response Time Graph

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

1. TR_prereg_viewbasicdetails - 20.742 sec
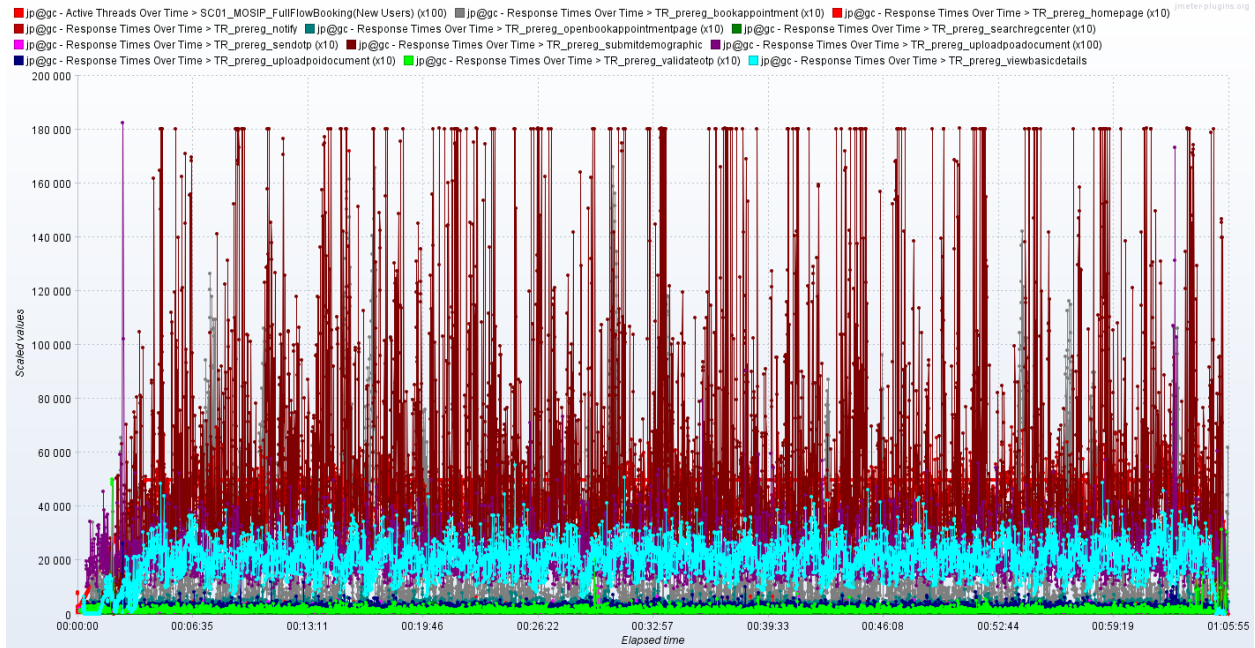2. TR_prereg_submitdemographic - 51.174 sec
3. TR_prereg_notify -41.496 sec
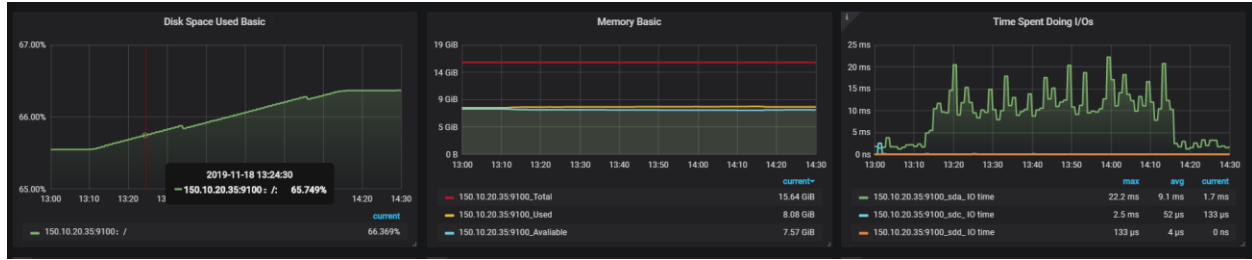
Transactions per second:
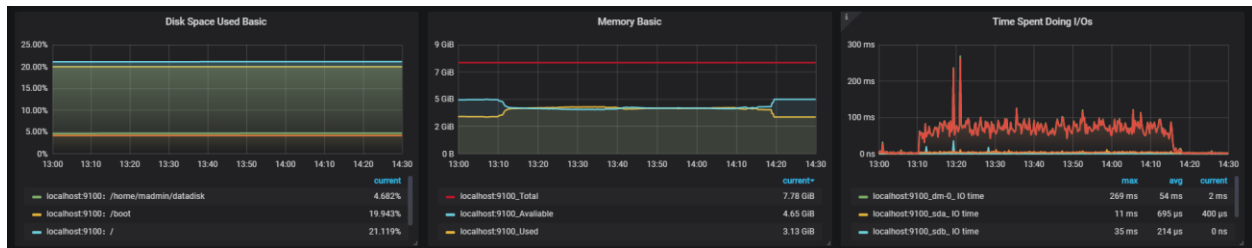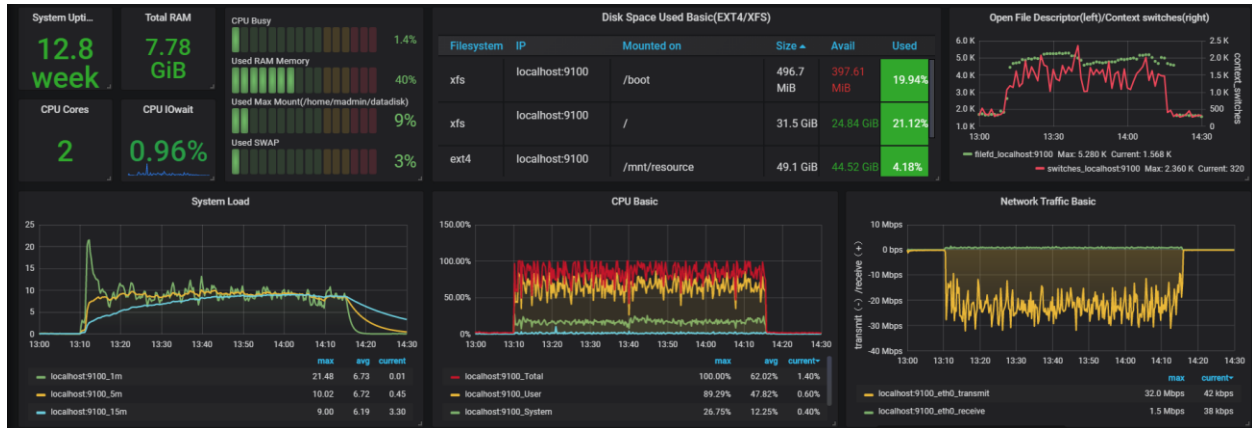
Active threads vs response times over time:

Preregistration cluster node monitoring:
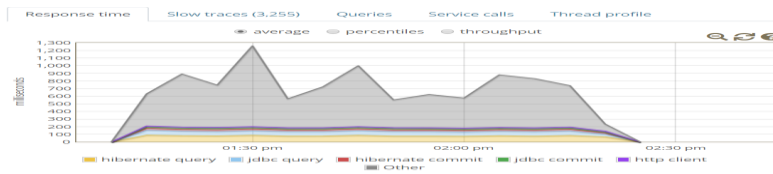
There were

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Preregistration DB node monitoring:

Booking service response time graph in Glowroot:

Comparision with previous performance run:

Transaction names	# Samples	14th Nov run2(500 VU) reg centers -15				# Samples	18th Nov run1(500 VU) Reg centers - 50			
		Avg (ms)	Min	Max	Error %		Avg (ms)	Min	Max	Error %
TR_prereg_homepage	11627	134	53	3059	0.00%	11726	130	21	3468	0.01%
TR_prereg_sendotp	11599	240	90	2410	0.01%	11699	182	84	7906	0.00%
TR_prereg_validateotp	11580	229	86	3459	0.00%	11687	175	74	7933	0.00%
TR_prereg_viewbasicdetails	11554	7748	252	51116	0.00%	11664	20742	246	60589	0.00%
TR_prereg_submitdemographic	11540	27283	67	180695	1.21%	11615	51174	297	180639	5.25%
TR_prereg_uploadpoidocument	11363	397	47	5202	0.04%	10869	300	52	3138	0.03%
TR_prereg_uploadpoadocument	11342	274	109	5615	0.00%	10848	216	92	3066	0.00%
TR_prereg_searchregcenter	11328	72	39	2950	0.00%	10823	76	39	2992	0.00%
TR_prereg_openbookappointmentpage	11306	13637	119	56713	0.00%	10796	373	129	2530	0.00%
TR_prereg_bookappointment	11258	39817	215	117641	0.00%	10772	2007	181	16694	0.01%
TR_prereg_notify	11068	25147	265	141919	2.24%	10717	41496	243	172148	2.27%
TR_prereglogout	10758	266	112	3217	0.00%	10388	250	110	7382	0.00%

Conclusion and Next Steps

This performance test executed in order to test the response times for the booking appointments service calls after increased registration centers from 15 to 50 ,we observed very response times about 2.07 sec where earlier we used to get response time ~39 sec and for other issues defects MOS-30080, MOS-30077.we are follow up with dev team on remaining issues and re-execute the tests post fix applied in preprod environment