

## **Performance Test Report**

### For

# **Execution of**

# Preregistration module - 300 users

Date: 24 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	24-Jun-2019					
Period	10:25 to 11:29 AM (UTC)					
Number of concurrent users	300					
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	8521	307	376	206	5330	0.00%	2.21644
TR_prereg_sendotp	8481	631	1000	339	4332	0.00%	2.21261
TR_prereg_validateotp	8461	361	534	196	5653	0.00%	2.21027
TR_prereg_viewbasicdetails	8428	97	150	55	891	0.00%	2.20886
TR_prereg_submitdemographic	8419	611	930	352	2911	0.07%	2.20854
TR_prereg_uploadpoidocument	8387	487	747	296	2924	0.00%	2.2044
TR_prereg_uploadpoadocument	8363	382	672	193	2547	0.00%	2.20027
TR_prereg_searchregcenter	8348	140	214	77	4283	0.00%	2.20164
TR_prereg_openbookappointmentpage	8324	148	224	85	1749	0.00%	2.19981
TR_prereg_bookappointment	8301	331	499	111	10231	0.06%	2.19632
TR_prereg_notify	8238	307	495	166	2260	7.76%	2.18983
TR_prereglogout	7583	149	218	84	4927	0.00%	2.0173

## **Performance Test Execution Details**

All of the transactions average response times were less than 1 sec

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

Transactions	Error %
TR_prereg_notify	7.76%

For pre-registration-notification-service observed spike of intermittent invalid response <a href="https://mosip.atlassian.net/browse/MOS-27275">https://mosip.atlassian.net/browse/MOS-27275</a>



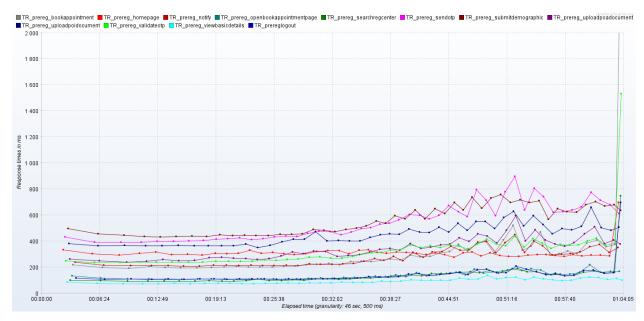
### **Test Environment :** Sandbox preprod environment

## **Active threads over Time:**

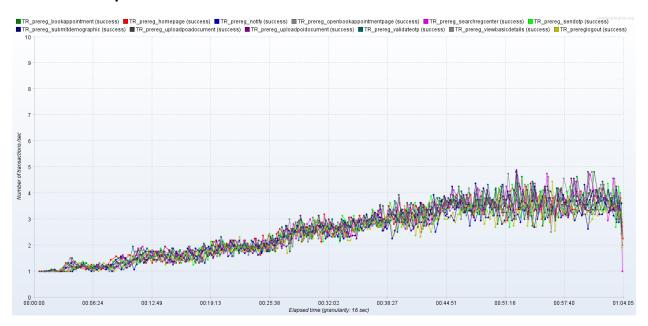


## **Response Time Graph**



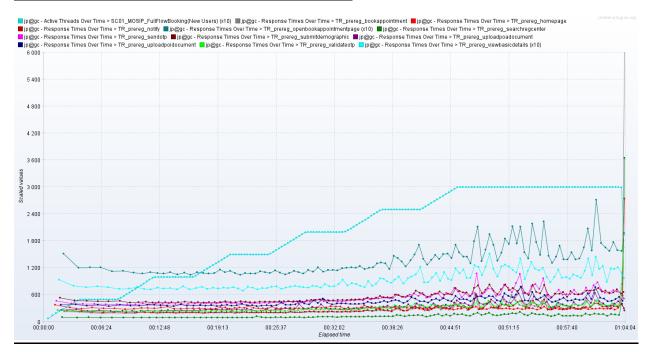


### **Transactions per second:**

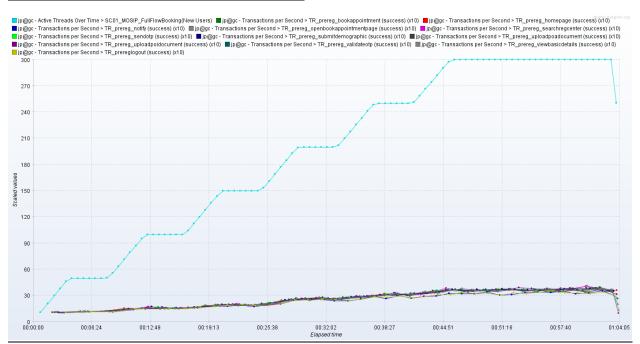




#### Active threads vs response times over time:



#### Active threads vs transactions per sec:





#### JMeter graph:



## **Booking appointment request:**





## MZ cluster node monitoring (9 VM's)

Resource Overview (associated JOB). Host: [mzworker6] Instance: 10.0.0.11:9100 + 10.0.0.12:9100 + 10.0.0.13:9100 + 10.0.0.15:9100 + 10.0.0.16:9100 + 10.0.0.4:9100 + 10.0.0.5:9100 + 10.0.0.5:9100 + 10.0.0.6:9100 + 10.0.0.6:9100 + 10.0.0.5:9100 + 10.0.0.6:												
Server Resource Overview (10 lines per page)												
10.0.0.11:9100	mzworker5	2.03 week	15.65 GiB		1.23	19.28%	40.97%	39.15%	0 Bs	138.65 kBs	38.25 Mbps	41.57 Mbps
10.0.0.12:9100	mzworker1	2.03 week	15.65 GiB		0.39	6.00%	19.64%	19.53%	0 Bs	19.32 kBs	9.28 Mbps	8.61 Mbps
10.0.0.13:9100	mzworker7	2.03 week	15.65 GiB		0.60	8.75%	24.17%	34.04%	0 Bs	48.74 kBs	6.45 Mbps	5.99 Mbps
10.0.0.15:9100	mzworker3	2.03 week	15.65 GiB		1.76	31.24%	43.34%	52.75%	0 Bs	714.62 kBs	9.59 Mbps	10.41 Mbps
10.0.0.16:9100	mzworker8	2.02 week	15.65 GiB		0.18	5.59%	18.70%	34.19%	0 Bs	6.55 kBs	273.02 kbps	197.52 kbps
10.0.0.4:9100	mzworker2	2.03 week	15.65 GiB		2.41	26.90%	77.36%	41.43%	0 Bs	112.84 kBs	6.16 Mbps	11.48 Mbps
10.0.0.5:9100	mzworker4	2.03 week	15.65 GiB		0.25	5.51%	21.75%	19.69%	0 Bs	10.10 kBs	6.57 Mbps	6.08 Mbps
10.0.0.6:9100	mzworker0	2.03 week	15.65 GiB		3.84	57.90%	28.31%	56.15%	0 Bs	163.09 kBs	77.56 Mbps	72.77 Mbps
10.0.0.8:9100	mzworker6	2.03 week	15.65 GiB		3.08	40.33%	53.15%	36.14%	0 Bs	211.42 kBs	33.01 Mbps	28.88 Mbps









### **Conclusion and Next Steps:**

Since we have not observed major issues we are proceeding with 450 concurrent users performance run

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. <a href="https://mosip.atlassian.net/browse/MOSIP-436">https://mosip.atlassian.net/browse/MOSIP-436</a>
- 2. <a href="https://mosip.atlassian.net/browse/MOS-27275">https://mosip.atlassian.net/browse/MOS-27275</a>

Observed high average response time for booking appointment (~59.12 sec) - <a href="https://mosip.atlassian.net/browse/MOSIP-697">https://mosip.atlassian.net/browse/MOSIP-697</a>

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/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-29629