

# Performance Test Report For Execution of 6 months Slot availability Batch Job

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## **Summary**

This report presents the observations and findings of the 6 months slot availability batch job and load test conducted for a load of 150 users, which will make booking appointments after executing 6 months Slot availability batch jobs running for a duration of 1 hour.

The objective of this load test was to observe and record the behavior of the application when users are booking appointments after executing slot availability for 6 months.



#### Below are the scenario details:

Sprint/Report Name	Booking appointments after executing slot availability batch job for 6 months (182 days)				
Run Date	20-June-2019				
Period	10:47 AM to 11:50 AM (UTC)				
Number of concurrent users	150				
Ramp up	4 min				
Run Duration	60 minutes				
Ramp down	2 min				

## **Batch Job execution details:**

Executed slot availability batch job for 6 months and verified in the DB as well after creation of slots for 6 months, below are the details:

instance_id	Create_Time	Start_Time	End_Time	Execution Time	Status	Slots available (DB)	Days (DB)
1116	2019-06-20 09:36:49.9	2019-06-20 09:36:49.927	2019-06-20 10:43:29.308	01:06:39	Completed	73173	182

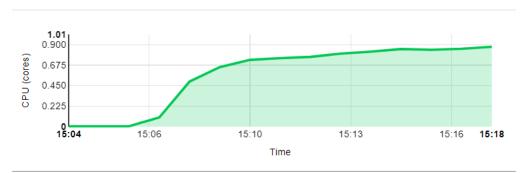
Slot availability batch job took **01:06:39** sec for executing 6 months. Batch job status is completed but its created 6 months slots. Verified the slots available in DB.

We have taken the CPU and memory utilization graphs of the slot availability batch job (pods), They are below:

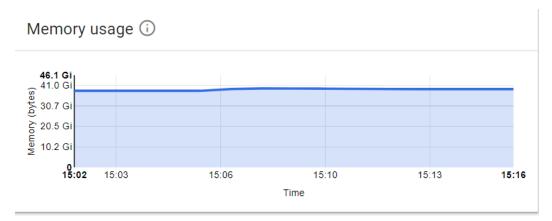


#### **CPU Utilization:**

## CPU usage

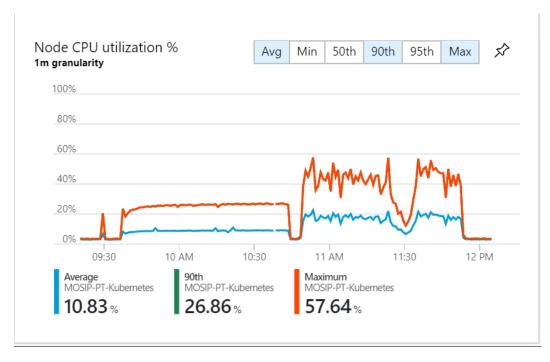


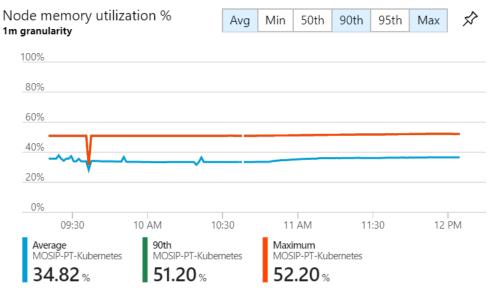
# Memory utilization:



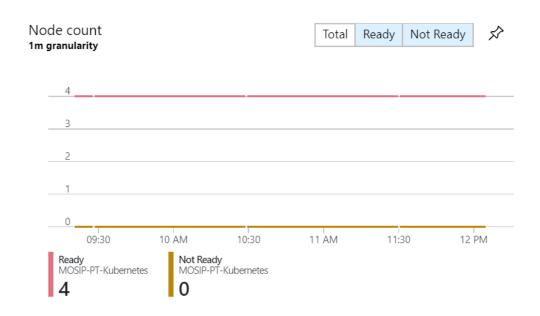


## **CPU and Memory utilization from Kubernates cluster:**









After verifying, the slots available in DB for 6 months and In-order to create volume in the database executed the booking appointment full flow scenario script the Details are mentioned below:



#### The transaction response times:

	#	Average	90% Line	Min	Max		Throughput
Label	Samples	(msec)	(msec)	(msec)	(msec)	Error %	(Sec)
mosip_preReg_homepage	2499	59285	130276	385	236165	0.32%	0.6413
mosip_preReg_send_otp	2480	416	453	15	3821	0.28%	0.63784
mosip_preReg_validate_otp	2463	197	203	159	2713	0.08%	0.63393
mosip_preReg_submit_demographics	2461	1106	1748	406	12385	0.24%	0.63587
mosip_preReg_upload_poi_document	2457	525	628	31	4579	1.22%	0.63505
mosip_preReg_upload_poa_document	2444	445	537	22	5355	0.41%	0.63227
mosip_open_preview_pageupload_poi_document	2440	15	19	8	533	0.08%	0.63152
mosip_preReg_open_regCeneter_selection_page	2440	158	154	49	5276	0.25%	0.63118
mosip_preReg_search_registration_center	2431	68	72	15	2511	0.29%	0.63498
mosip_preReg_open_book_appointment_page	2429	2304	3426	31	6977	0.29%	0.63416
mosip_preReg_book_appointment	2417	460	646	252	4672	0.58%	0.63098
mosip_preReg_logout	2390	60546	129944	727	237022	0.34%	0.62239

#### **Performance Test Execution Details**

We have executed the booking appointment user flow scenario script, which has transactions mentioned in above table.

Most of the transactions average response times are beyond SLA of **3** seconds, They are listed below:

- 1. Mosip\_preReg\_homepage 59.285 sec
- 2. Mosip\_preReg\_logout- 60.546 sec

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

Uploading POI document -1.22%

Below is the error message:

[{"errorCode":"KER-FSA-001","message":"Exception occured in HDFS Adapter"}]}

Details will be shared to developers for further analysis based on request from team.



# **Test Environment**

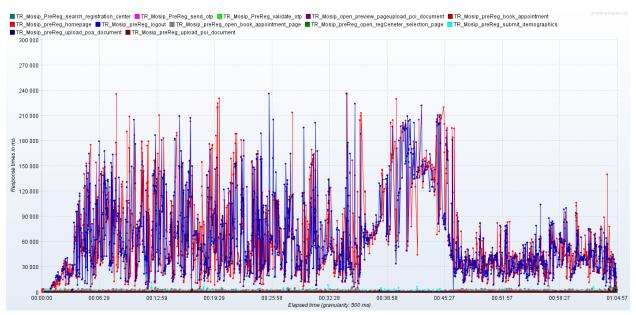
	Common proxy server (NGINX)	(Kubernets cluster) apache Tomcat 8.5.31	DB Postgress SQL 10.2
Number Of nodes	1	4	1
RAM	4 GB	112 GB	16GB
PROCESSOR	2 cores	16 core	4 cores

# **Response Time Graph**

All the transactions average response times are within SLA of 3 seconds except below:

- 1. Mosip\_preReg\_homepage 59.285 sec
- 2. Mosip\_preReg\_logout- 60.546 sec





#### **Transactions per second:**





## **Conclusion and Next Steps:**

The Execution for 6 months slots availability is completed, the high response times and errors observed during 150 users load test which was executed for 1 hour steady period and similar issue is covered in the ticket <a href="https://mosipid.atlassian.net/browse/MOS-25581">https://mosipid.atlassian.net/browse/MOS-25581</a> and We have completed batch job execution until 6 months as per performance testing approach document once back up is in place we can continue test until 2 years for slots availability batch.