

Performance Test Report For Execution of Pre-Registration – 200 users

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Summary

This report presents the observations and findings of the load test conducted for a load of 200 users performing booking appointments full flow planned for 1 hour duration, to revalidate the issue MOS -25581

The objective of this load test was to observe and record the behavior of the application when users are booking appointments for 200 concurrent users.

Below are the scenario details:

Sprint/Report Name	Booking appointments
Run Date	11-July-2019
Period	09:28 to 10:30 AM (UTC)
Number of concurrent users	200
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_Mosip_preReg_homepage	2977	67025	128078	299	241334	0.00%	0.73097
TR_Mosip_PreReg_send_otp	2949	102	94	67	5915	0.00%	0.72448
TR_Mosip_PreReg_validate_otp	2945	112	106	76	7145	0.00%	0.72677
TR_Mosip_preReg_submit_demographics	2943	731	1311	132	13787	0.00%	0.72617
TR_Mosip_preReg_upload_poi_document	2938	222	563	78	3574	20.49%	0.72468
TR_Mosip_preReg_upload_poa_document	2329	159	502	34	5050	0.52%	0.57569
TR_Mosip_open_preview_pageupload_poi_document	2313	12	14	7	1204	0.00%	0.5731
TR_Mosip_preReg_open_regCeneter_selection_page	2313	63	57	42	5507	0.00%	0.5731
TR_Mosip_PreReg_search_registration_center	2306	26	24	16	3023	0.00%	0.57132
TR_Mosip_preReg_open_book_appointment_page	2300	405	425	347	3447	0.00%	0.5694
TR_Mosip_preReg_book_appointment	1840	135	152	95	5722	0.00%	0.45784
TR_Mosip_preReg_logout	2267	67770	127619	97	240603	0.00%	0.56188

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:

1. Homepage – **67.025 sec**
2. Logout – **67.770 sec**

Under Homepage and Logout page observed that below request is taking more time:

- <https://pt.mosip.io/preregistration/v1/login/config> - **66.950 sec**

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

Active threads over time:





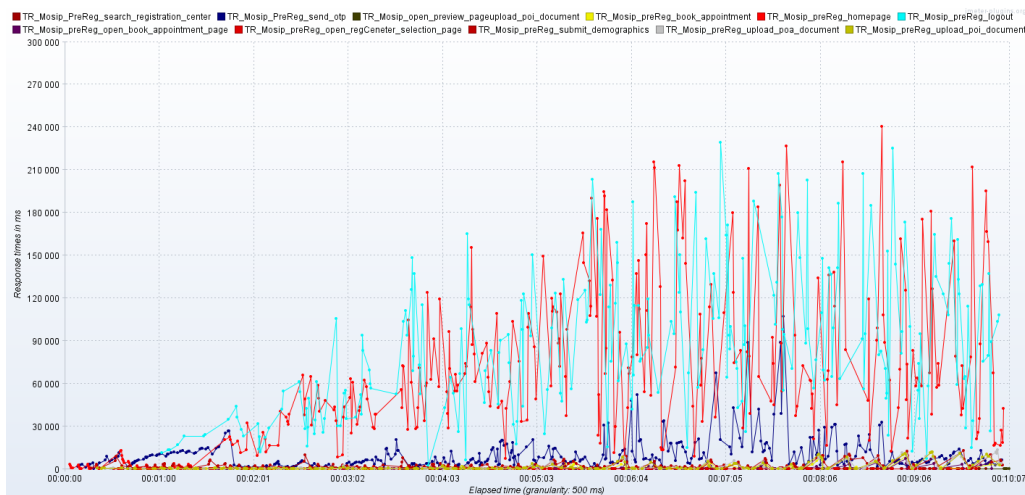
Response Time Graph

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

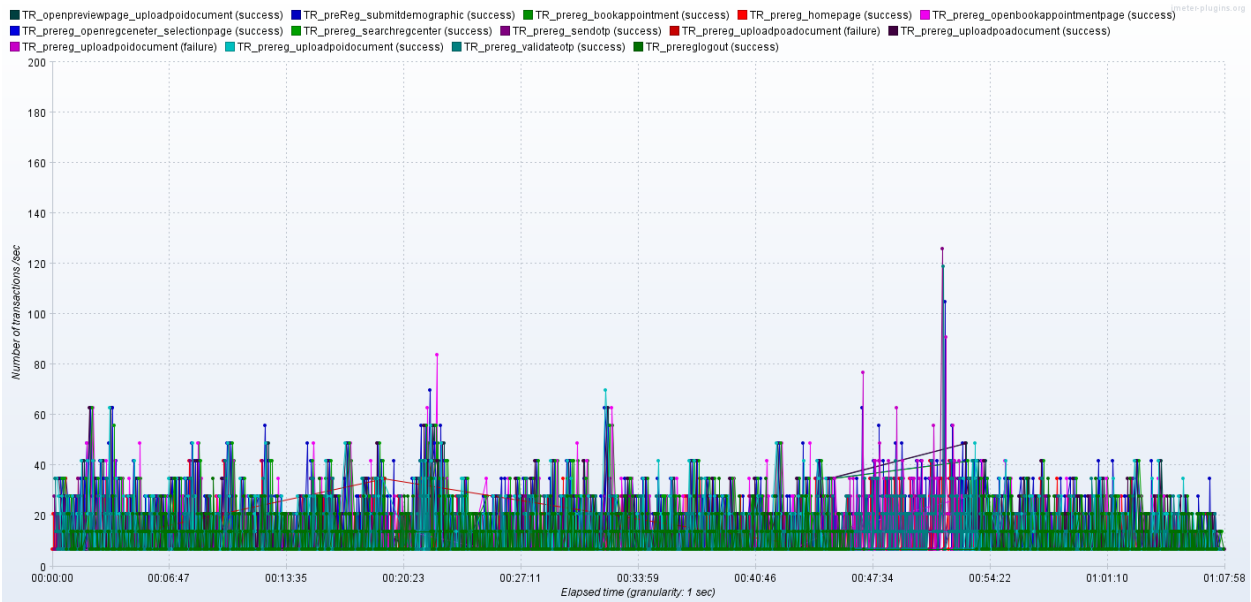
1. Homepage – **67.025 sec**
2. Logout – **67.770 sec**

Under Homepage and Logout page observed that below request is taking more time:

preregistration/v1/login/config – **66.950 sec**



Transactions per second:



There were no errors were observed for most of the transactions except below:

Upload POI document - **20.49%**

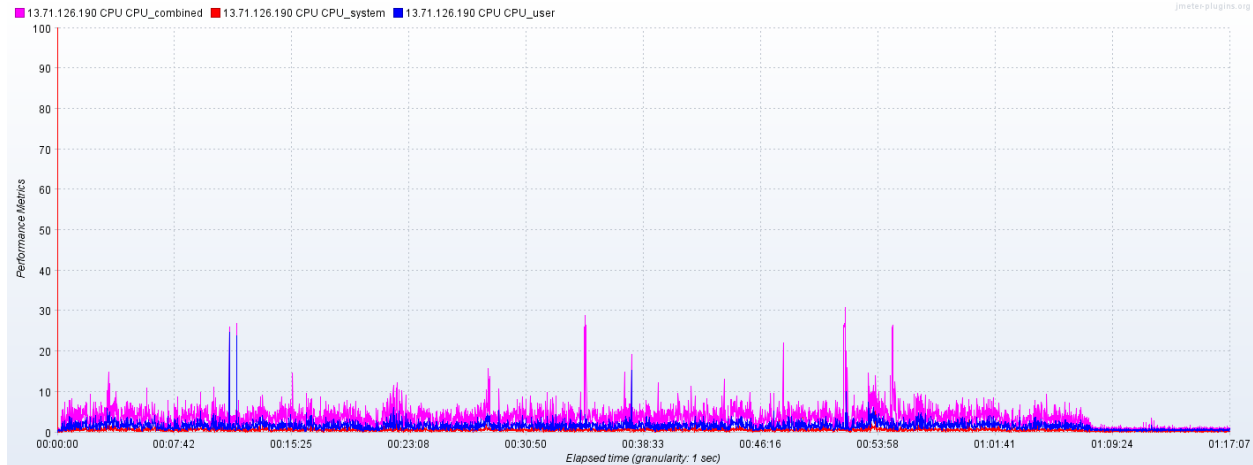
Upload POA document -0.52%

Below is the error message:

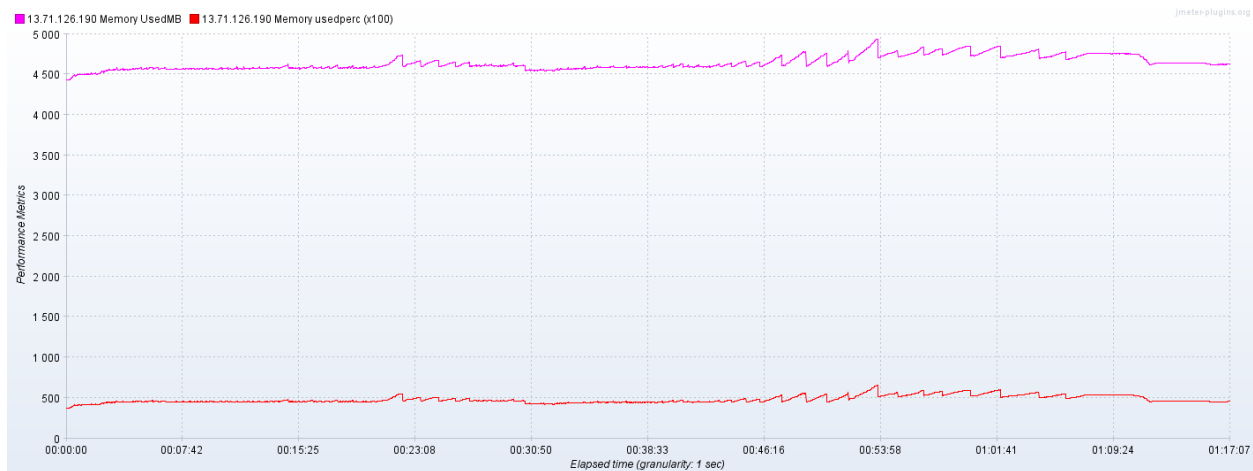
```
{ "id": "mosip.pre-
registration.document.upload", "version": "1.0", "responsetime": "2019-07-
11T09:29:34.353Z", "response": null, "errors": [{"errorCode": "KER-FSA-
001", "message": "Exception occured in HDFS Adapter"}]}
```

Resource usage pattern of DB Server:

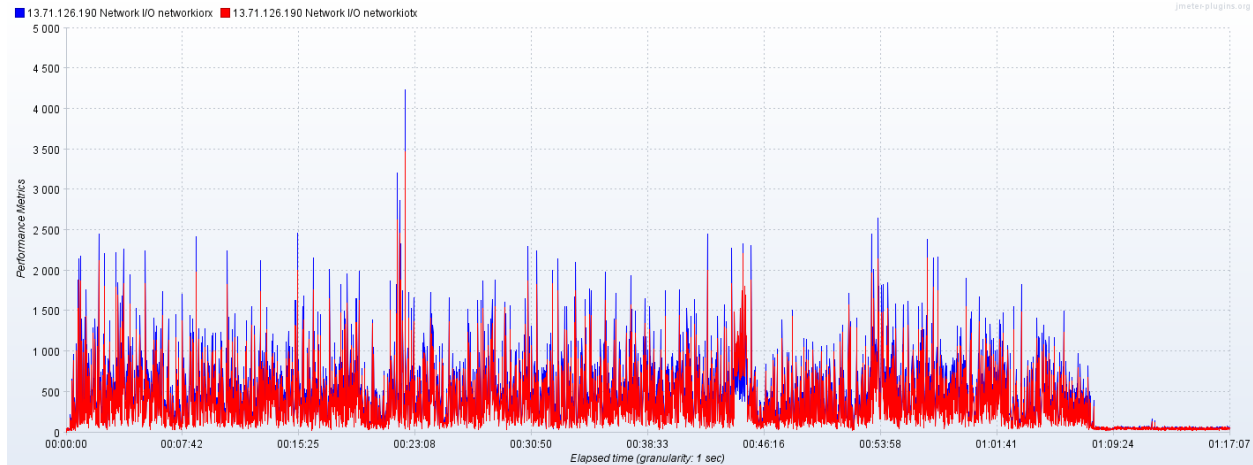
CPU:



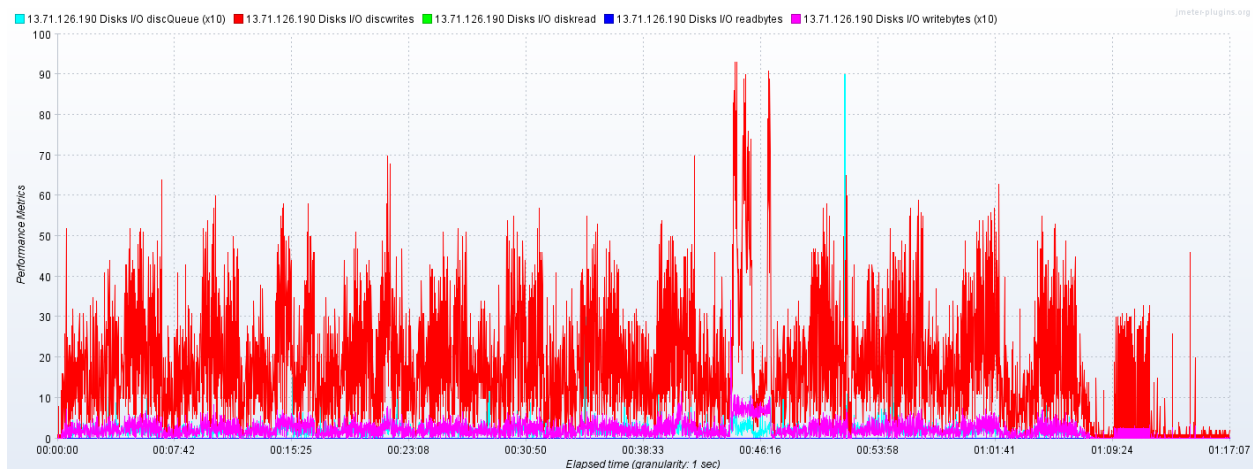
Memory:



Network IO:



Disc Read/Writes:



Conclusion and Next Steps

Error details for upload POI and POA details will be shared to developers for further analysis and will be retested after the fix.