Performance Test Report for Execution of Consumed Batch Job for 90% consumed status

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Summary

This report presents the observations and findings of the Consumed batch job execution in which 27000 consumed status (90% of the peak enrollments and 10% cancelled appointments as per the workload model document peak enrollments is 30000) with existing volume of 8 lac volume enrollments in DB

The objective of this batch job execution was to observe and record the behavior of the batch job for consuming the 27000 consumed status appointments.

# Below are the scenario details:

Batch job execution Name:

Consumed batch job execution in which 27000 consumed status (90% of the peak enrollments and 10% cancelled appointments as per the workload model document peak enrollments is 30000)

Steps:

1. Creating Pre Registrations test data of 27,000 with booked status (which is 80% of peak enrollments per day) using Jmeter tool
2. Execution of calling data sync API script with 27,000 Pre RegIds input data and each time 50 preRegIds will sent for processing
3. Once all the 27000 Pre-Regids passed without any errors and execute the consumed batch job
4. Calculate the batch job execution time
5. Checking the functionality of batch job
6. Consumed batch job status is "C**ompleted**" without any errors after developers fixed the defect https://mosipid.atlassian.net/browse/MOS-25723

Test Environment (scale down similar to below architecture)
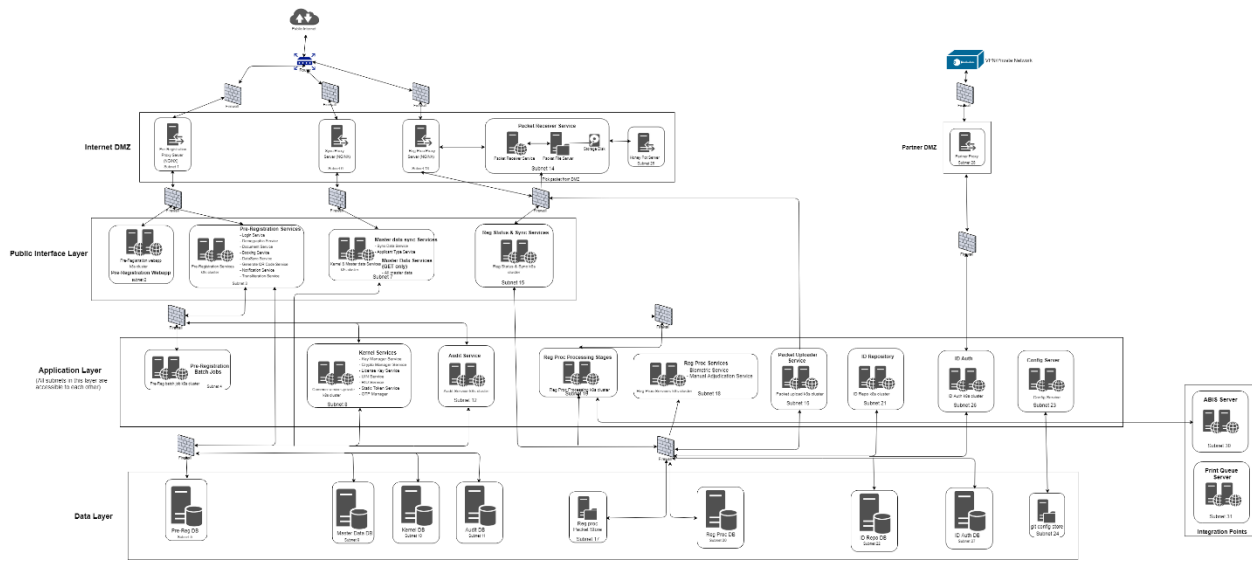
Before running expiry batch job below are the details:

➢ Total number of Booked appointments = 705386
➢ Total number of consumed appointments in db = 96100
➢ Total number booking appointments changed status from "booked" to "consumed" = 123100(96100+27000 (90% of 30000 enrollments)) –by running sync rest call
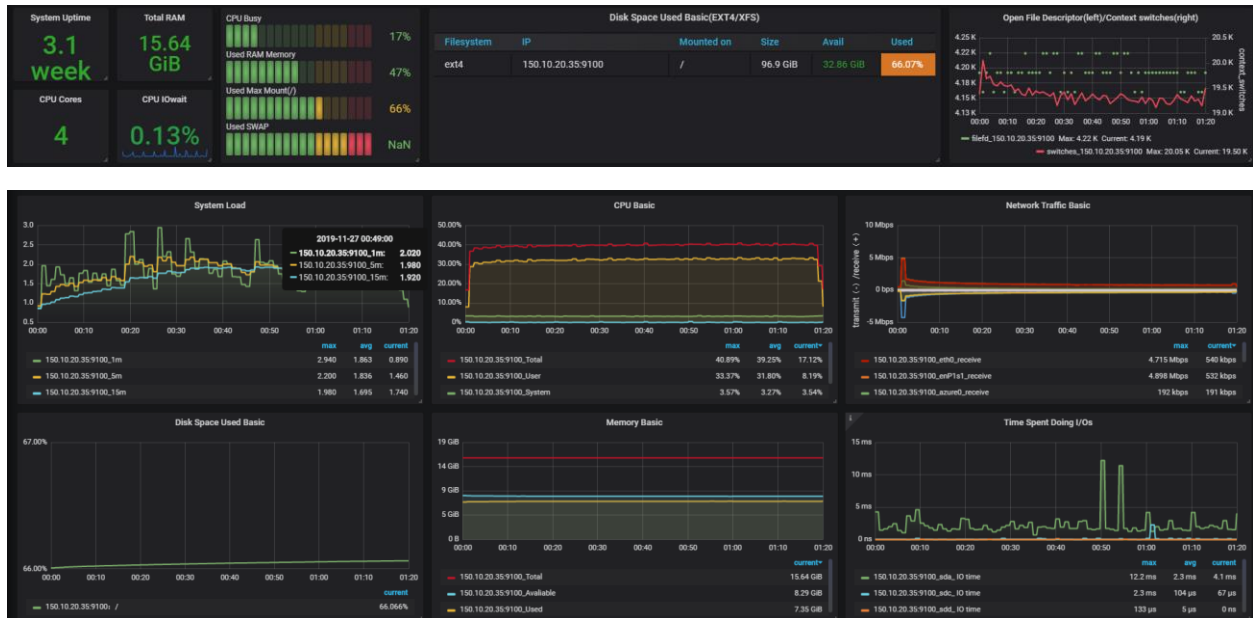
Batch job execution status:

instance_id	Create_Time	Start_Time	End_Time	Execution Time	Status	Exit code
973	2019-11-27 00:00:05.471	2019-11-27 00:00:05.479	2019-11-27 01:18:16.586	01:18:11	COMPLETED	COMPLETED

*consumed batch executed for 01:18:11 sec time to consume 27000 prids*

Cluster level node monitoring:

Max Total CPU utilization is 40.89% , No major findings for cluster node utilization

Prereg DB level node monitoring:

Max CPU utilization was 95.10% , CPU utilization spiked to 95% in one instance and came down immediately for we have raised defect https://mosipid.atlassian.net/browse/MOS-30145
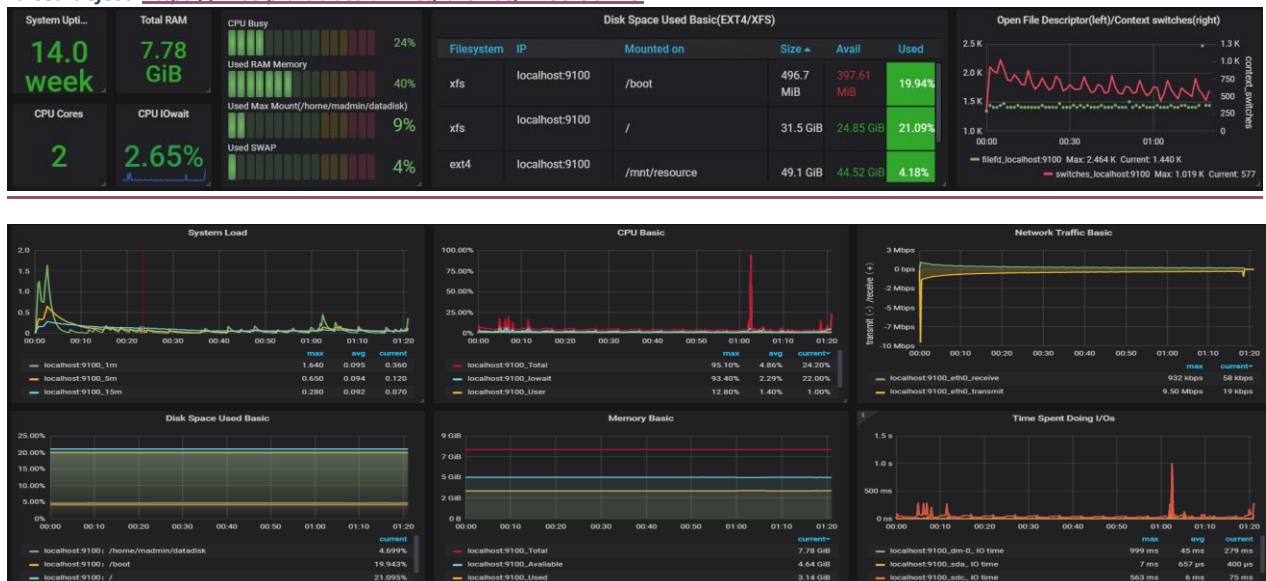
After running consumed batch job execution:

- Total number of Booked appointments =678386 (27K are moved to consumed)
- Total number of records in prereg.reg_appointment_consumed table =123100

Conclusion and Next Steps:

Consumed batch job has taken **01:18:11 sec** to complete execution with 1 month preregistrations in DB and consumed appointments are matching as per the scenario (27K prids).So we have completed testing batch jobs as per performance testing approach with 90% consumed status and 10% failed appointments. *We need confirmation from the stake holders whether batch execution time is in acceptable or not ?*

We have completed consumed batch job testing with different percentiles as per workload modelling