Mindtree

Performance Test Report

For

Execution of

Registration-Processor Packet Upload – 250 packets

Date: 11 December 2019

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Summary

This report presents the observations and findings of the load test conducted for uploading and processing 250 packets in all stages except UIN generation in registration processor module.

The objective of this load test was to observe and record the behavior of the application with 25 concurrent users uploaded, each user with 10 packets.

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Below are the scenario details:

Sprint/Report Name	Reg-Processor Packet Upload
Run Date	11-December-2019
Period (Accessing Packet Upload APIs)	13:02:28 to 13:08:22 (UTC)
Period (Packet processing)	2019-12-10 13:02:28.244 to 2019-12-11 07:57:42.587 (UTC)
Number of concurrent users	25
Ramp up	25 seconds
Run Duration	NA
Ramp down	NA

The transaction response times observed were as below:

Label	# Samples	Average(ms)	90% Line(ms)	Min(ms)	Max(ms)	Error %	Throughput
TR_regproc_encrypt	250	33	43	20	160	0.00%	0.73586
TR_regproc_sync_reg_packets	250	**9077**	**17306**	239	**44156**	0.00%	0.73134
TR_regproc_upload_registration_packet	250	**6915**	**13372**	200	**28401**	0.40%	0.72983
TR_regproc_check_packet_upload_status	25	0	0	0	0	0.00%	0.92757

Performance Test Execution Details

We have executed the packet upload flow, which has transactions mentioned in the above table.

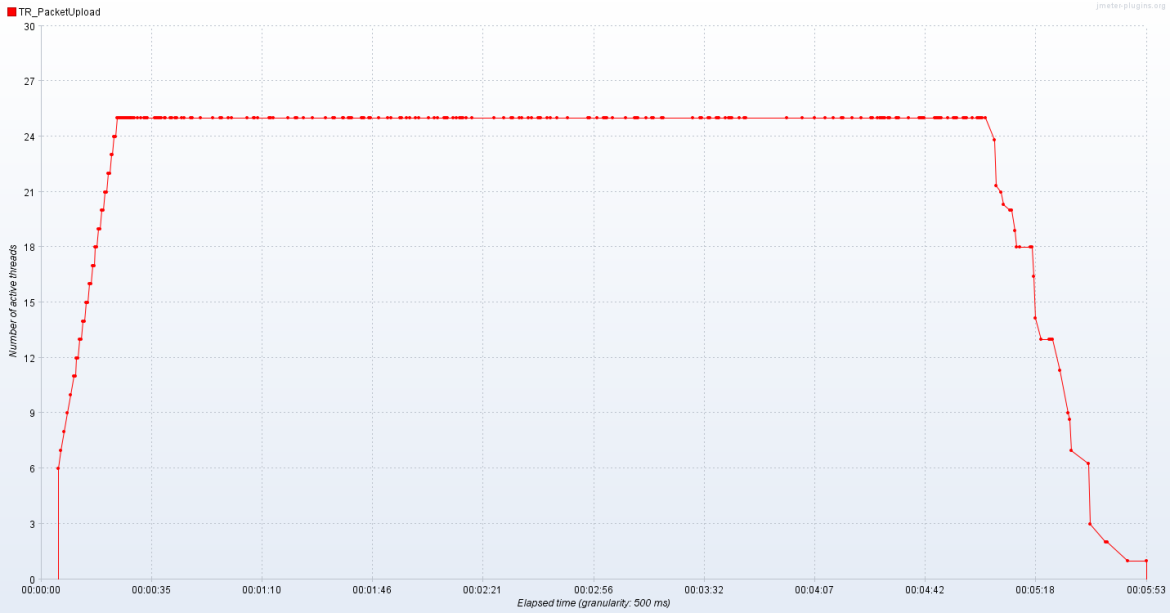
Response times for most of the transactions started exceeding the SLA (3 sec) after certain duration of time

After the ramp up of users gets stable, average response time for critical transactions like sync and packet upload can be seen in the response times over time graph as more than 5 seconds.

Below listed transactions are the highest time taking:

1. TR_regproc_upload_registration_packet (9.07sec)
2. TR_regproc_sync_reg_packets (6.9 sec)

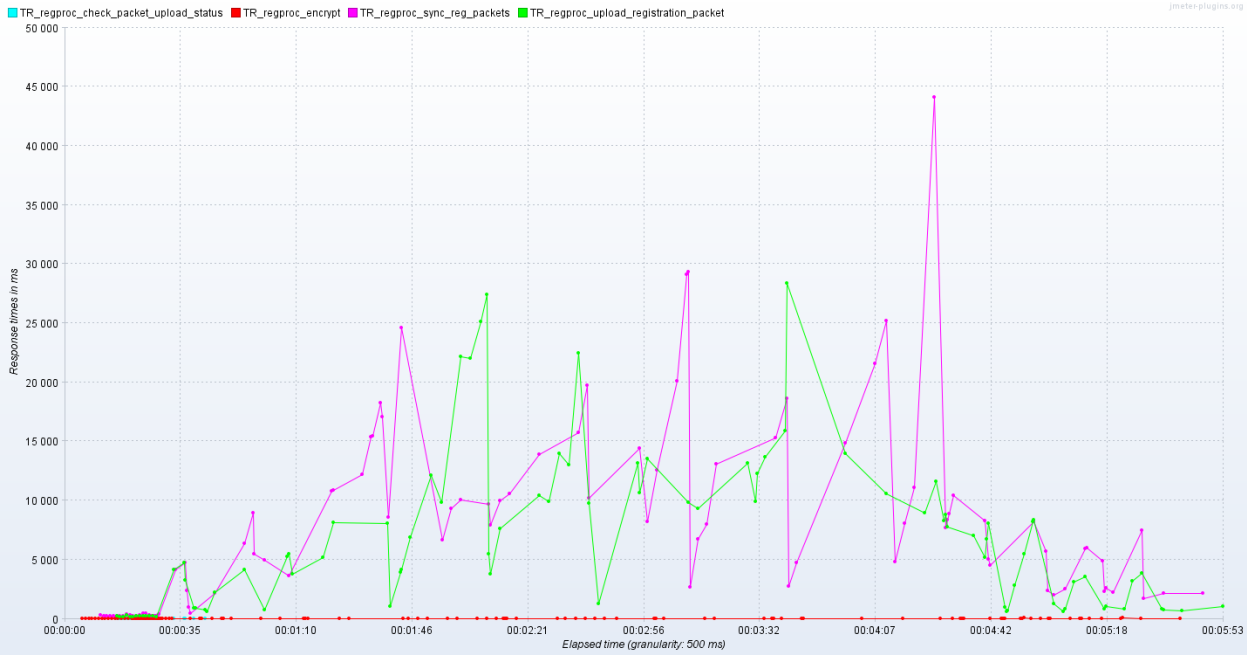
Active Threads Over Time



As seen in the above graph, 20 users were active for around 3 minutes.

Response Time Graph

Most of the transactions have response time above the SLA (3 sec). Response time has raised high with arrival of users.



Packet Processing Times

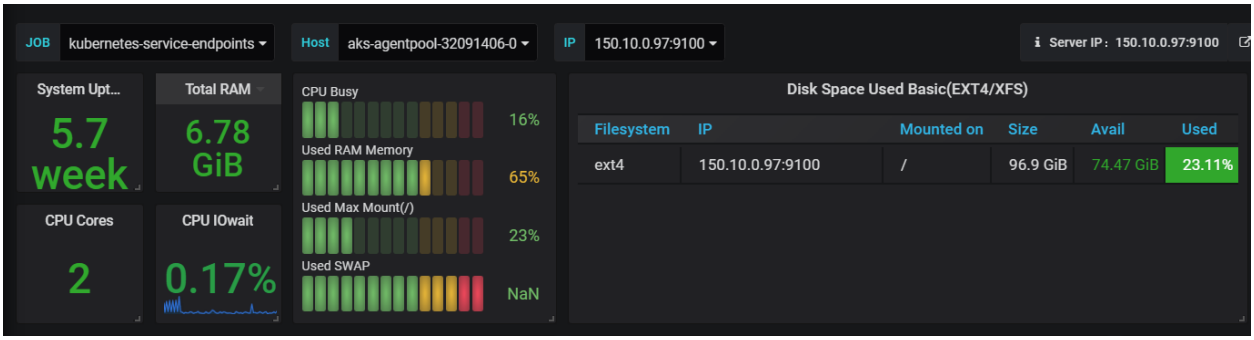
Attached excel sheet mentions the time spent packet wise in each stage. Total time taken to process a packet is mentioned in the last row of each column.

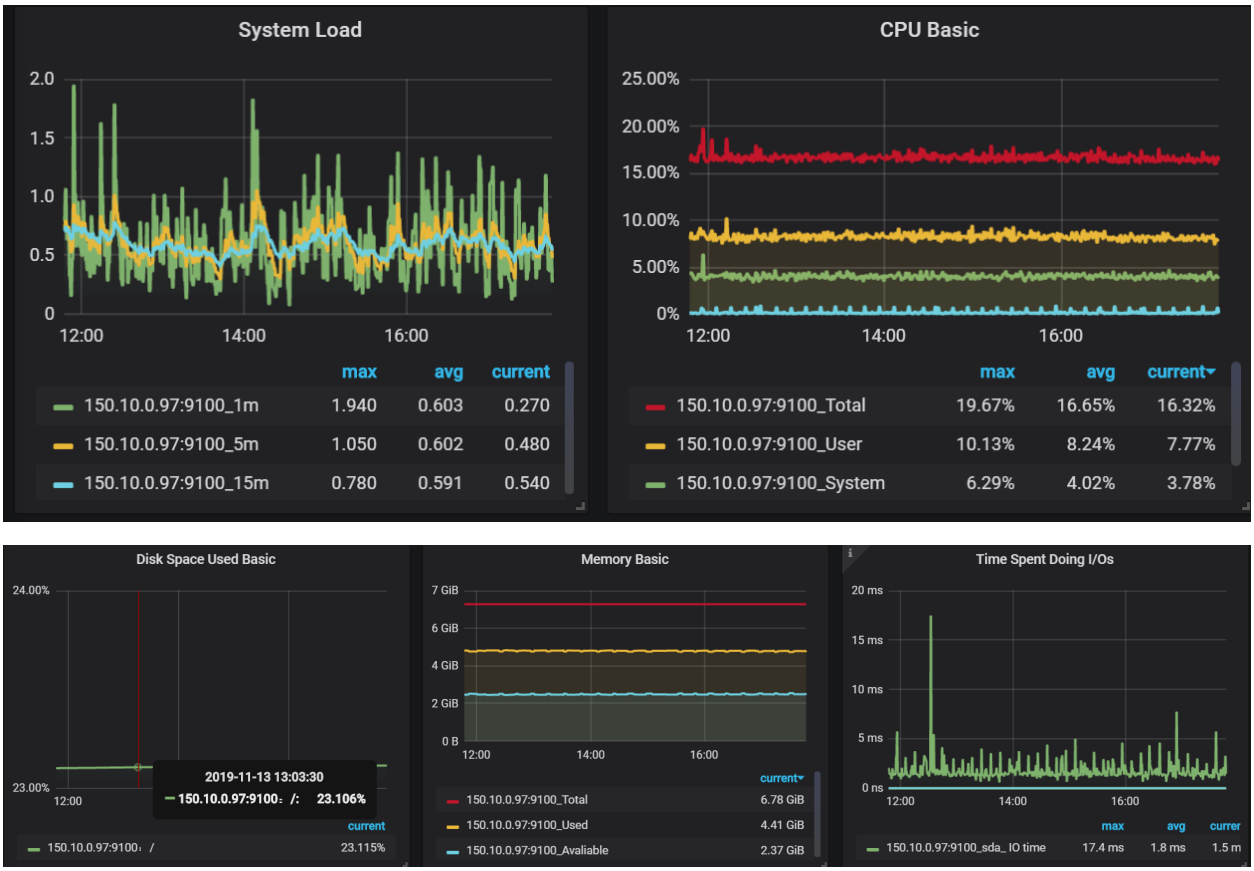
TransactionTime.xlsx

Resource Monitoring

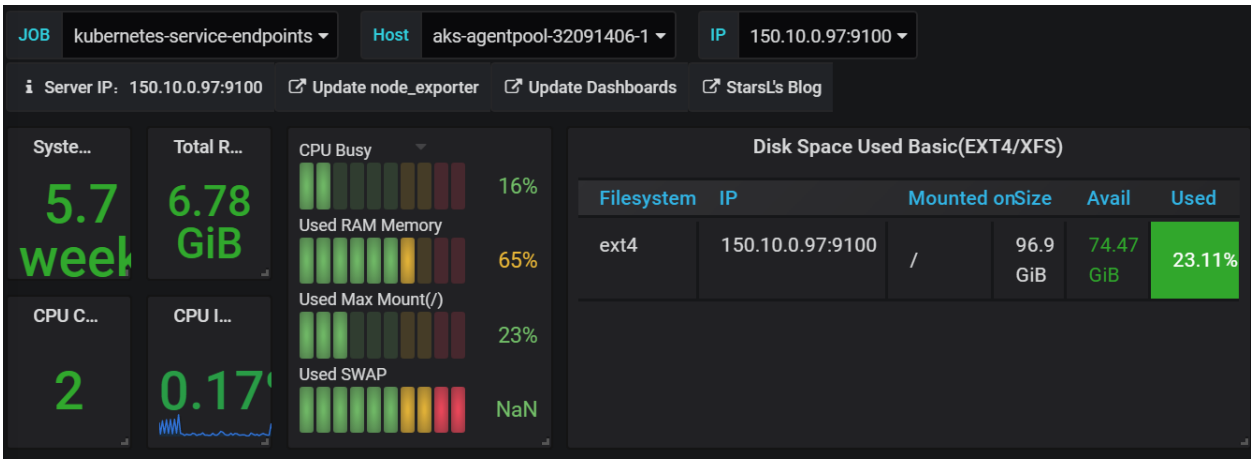
Kubernetes nodes were monitored using Prometheus and Grafana from 13th November 06:00 UTC - 13:00 UTC

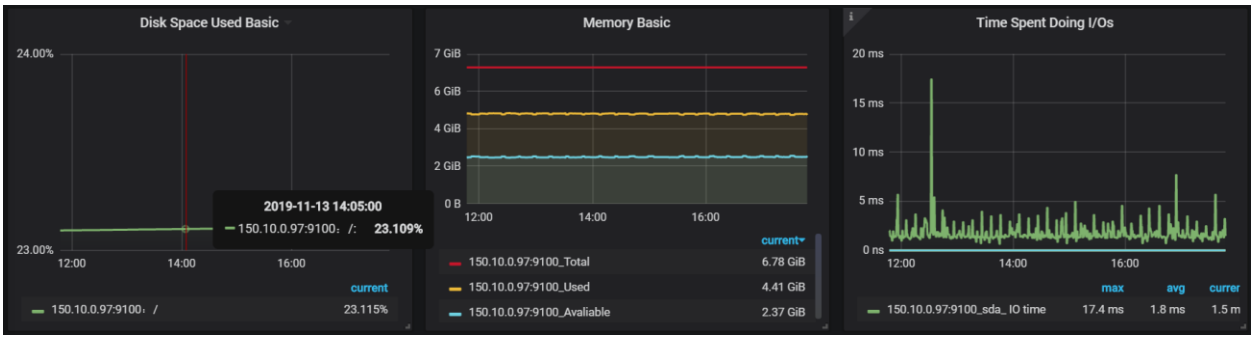
aks-agentpool-32091406-0 (VM 1)



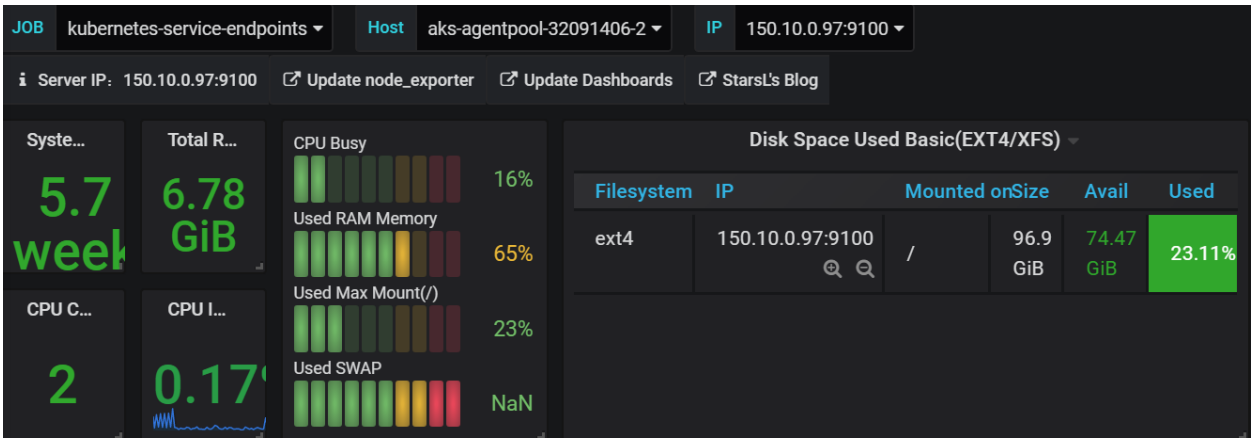


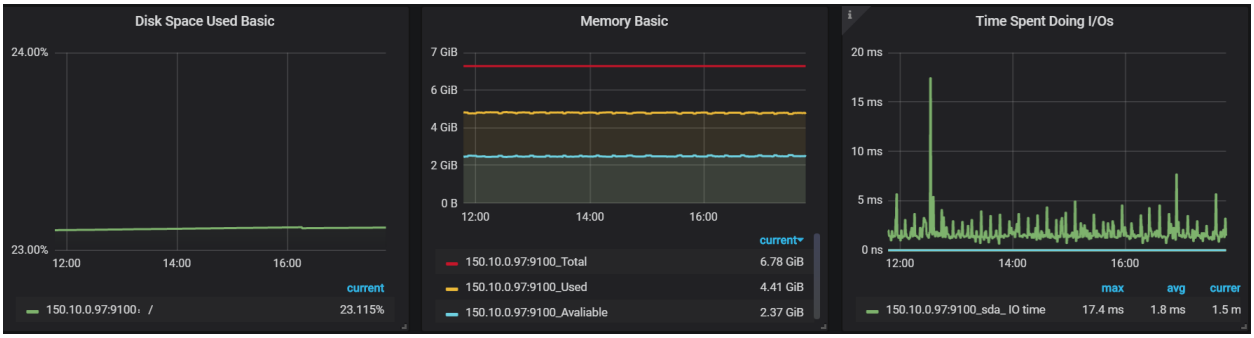
aks-agentpool-32091406-1 (VM 2):



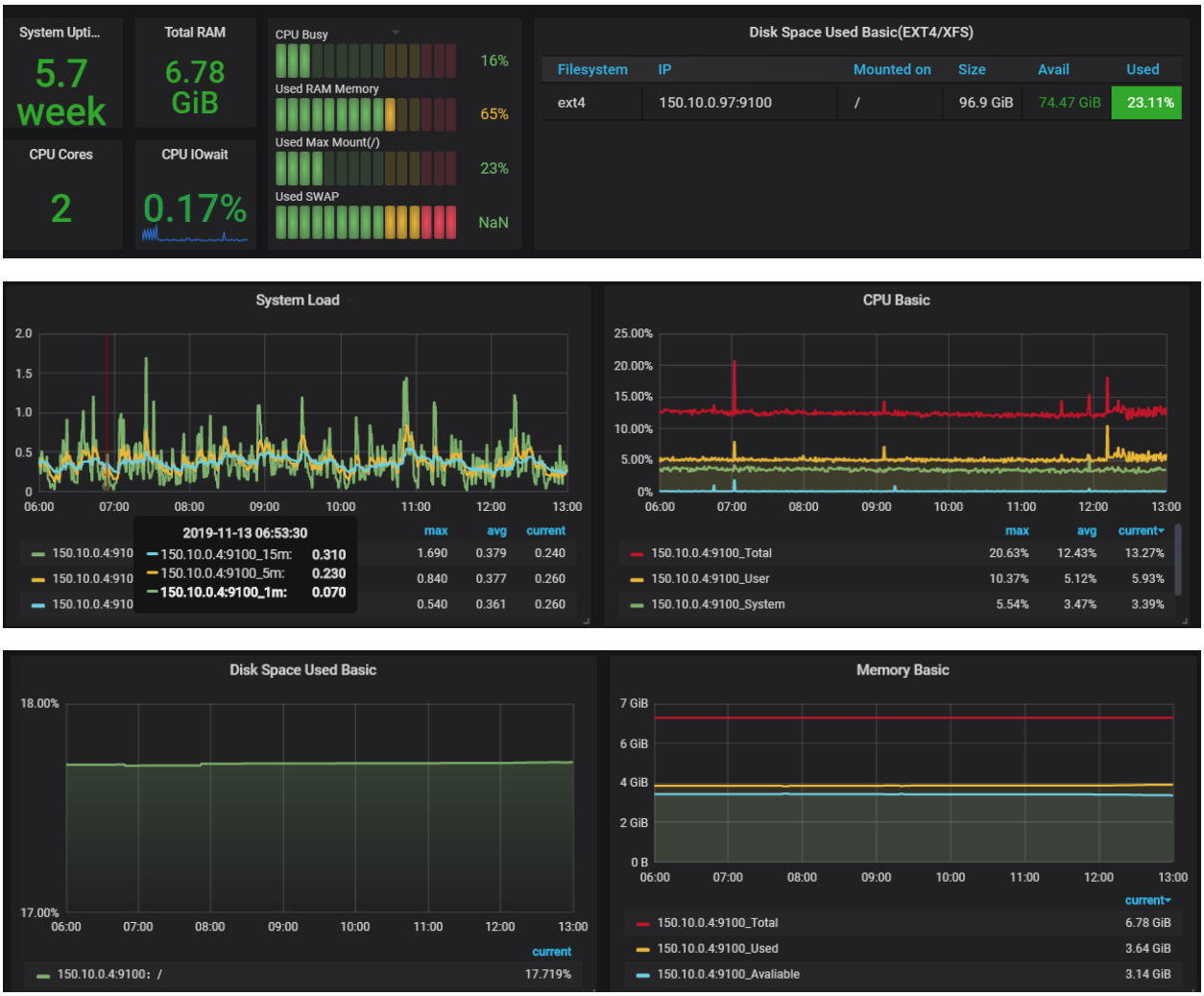


aks-agentpool-32091406-2 (VM 3):





aks-agentpool-32091406-3 (VM 4):



aks-agentpool-32091406-4 (VM 5):