Mindtree

Performance Test Report For

Execution of 6 months Slot availability

Batch Jobs with existing slots available in DB

Date: 21st June 2019

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Summary

This report presents the observations and findings of the 6 months slot availability batch jobs when the slots are already created and available in the database.

The objective of this load test was to observe and record the behavior of the application when executing the 6 months slots in terms of 1 moths,2 months upto 6 months when already slots available in Database.

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1.month (30 days) Slot availability Batch Job execution details:

For the execution of 1-month slot availability batch job below are pre-requisites:

- All the available sots are deleted from the database (means there were no slots available) before the executing the batch job
- 30K pre –registrations are available in DB

Executed the 30 days batch job after restarting batch service below are the details:

instance_id	Create_Time	Start_Time	End_Time	Execution Time	Status	Slots available (DB)	Days (DB)
1116	2019-06-21 06:28:39.449	2019-06-21 06:28:39.478	2019-06-21 06:31:38.923	**00:02:59**	Completed	12600	30

Execution time for this batch job is **00:02:59** sec, Batch job execution completed successfully without any issues, Verified in DB that this job created slots for 60 days.

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

CPU Utilization:

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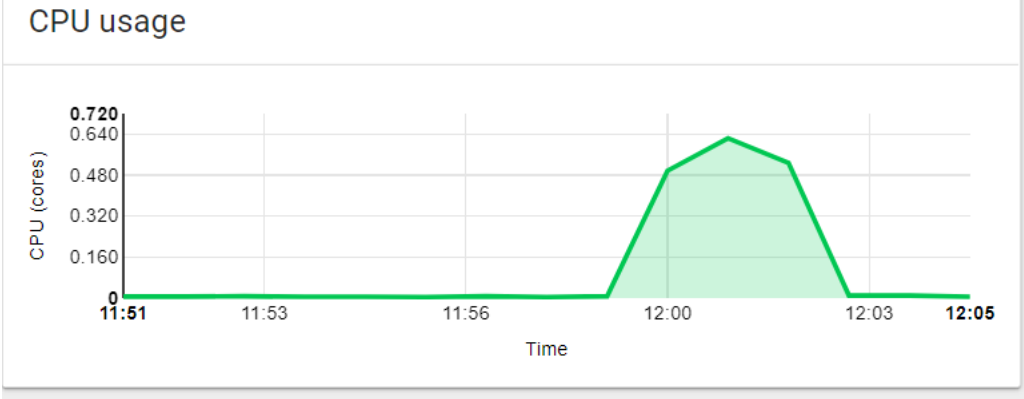
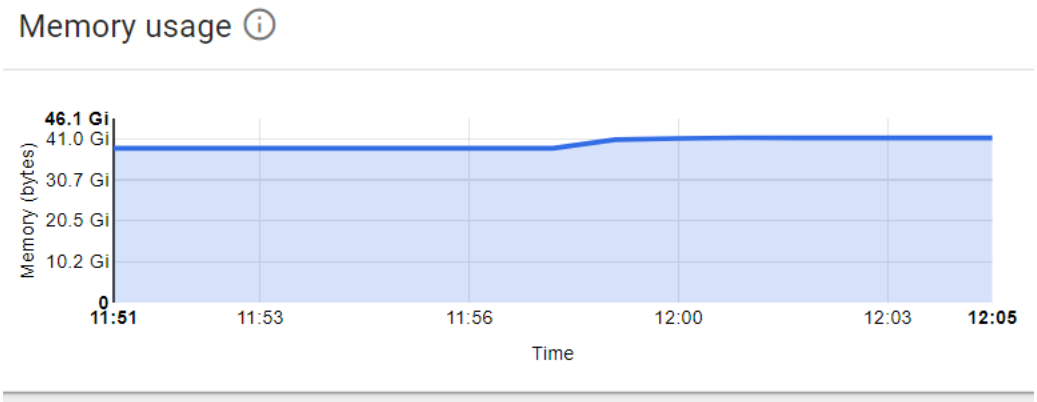


Memory utilization:



CPU and Memory utilization from Kubernates cluster:

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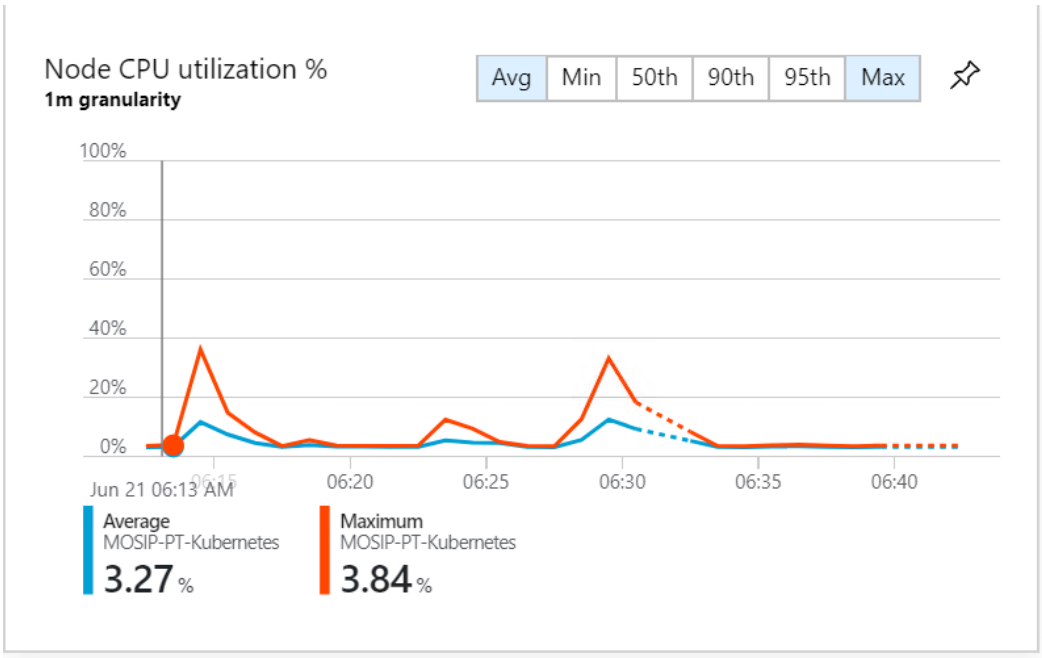

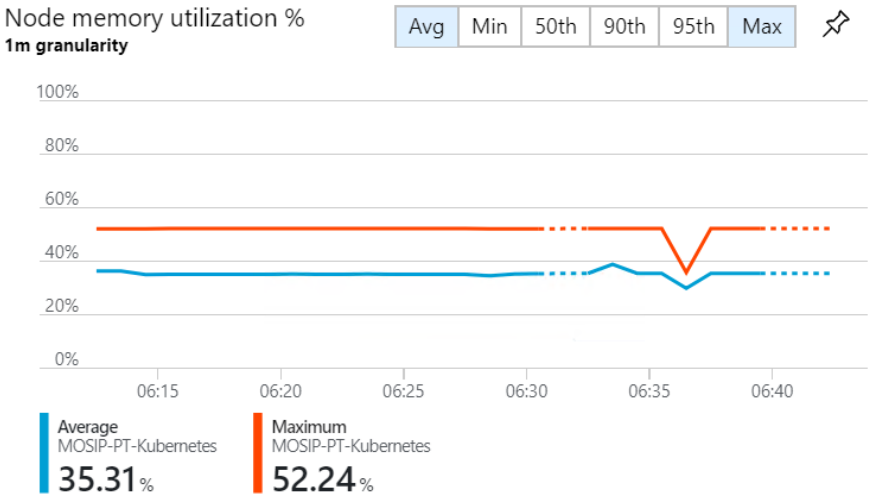

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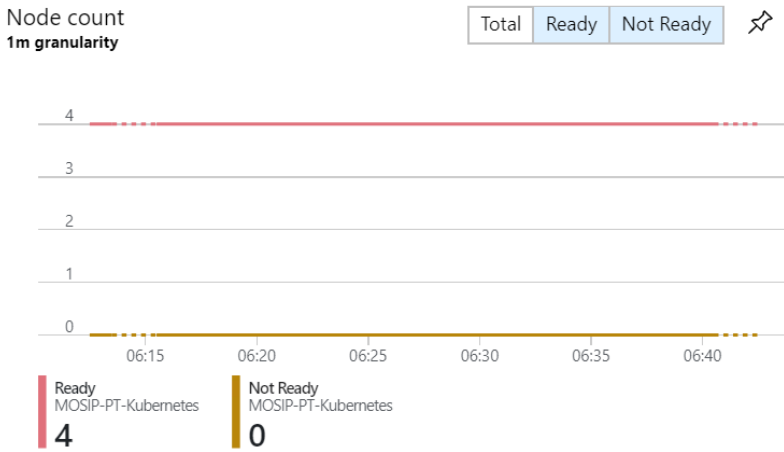

2 months slots availability Batch Job execution details:

For the execution of 2 months slot availability batch job below are pre-requisites:

- 1 month slots available in DB before the executing the batch job
- 30K pre –registrations are available in DB

Executed the 2 months (60 days) batch job after restarting batch service below are the details:

instance_id	Create_Time	Start_Time	End_Time	Execution Time	Status	Slots available (DB)	Days (DB)
1098	2019-06-21 09:34:53.99	2019-06-21 09:34:54.036	2019-06-21 09:39:29.233	00:04:35	Completed	23,985	60

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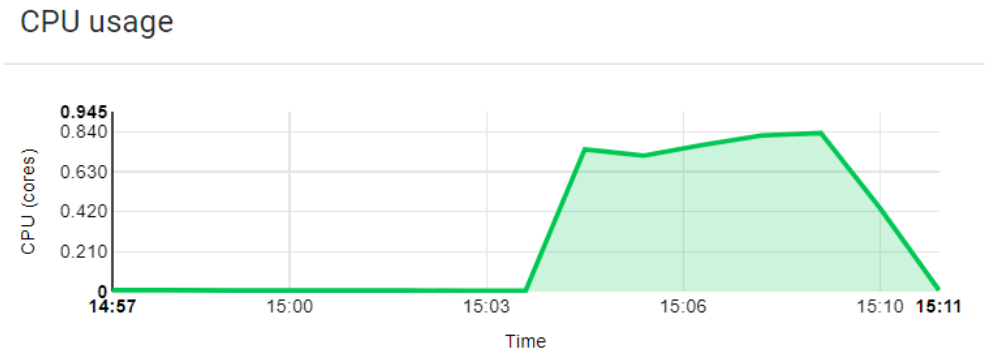
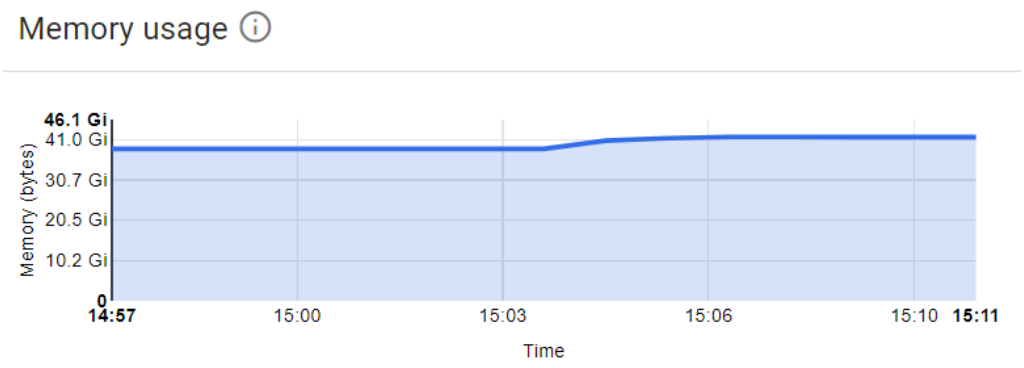
Execution time for this batch job is **00:04:35** sec ,Batch job execution completed successfully without any issues ,Verified in DB that this job created slots for 60 days.

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

CPU Utilization:



Memory utilization:



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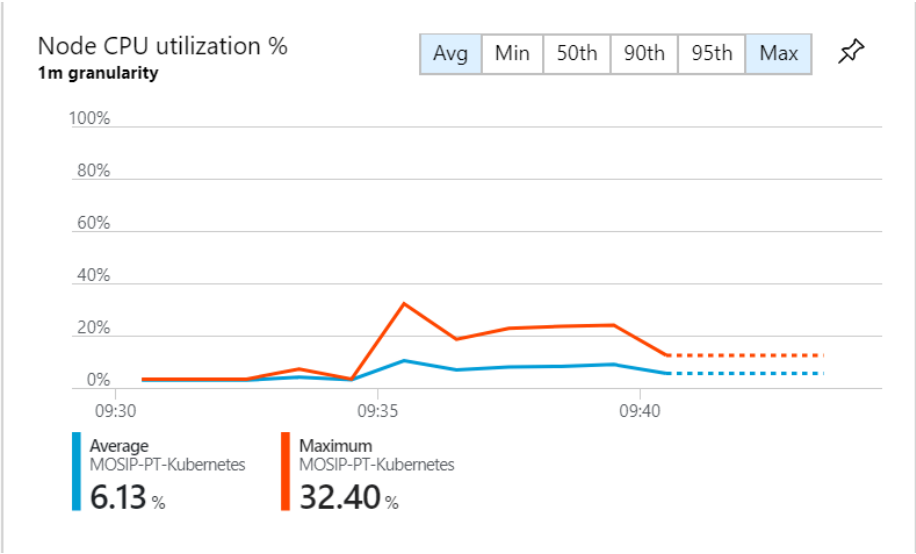
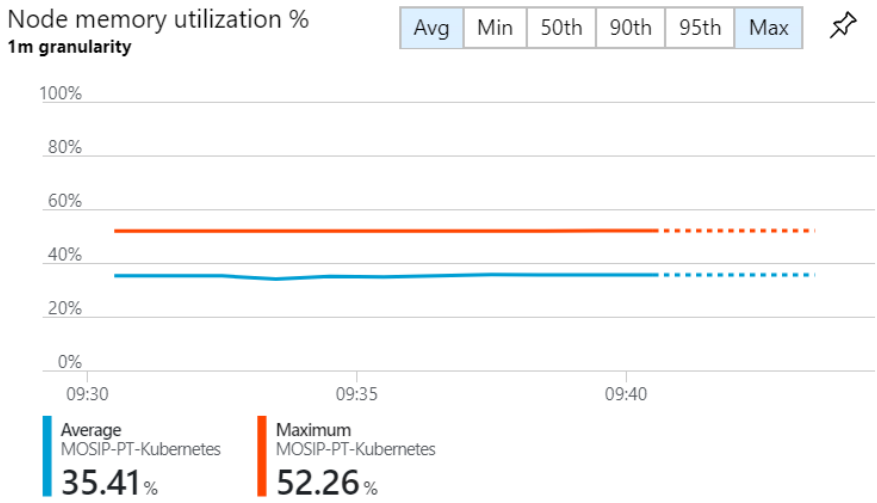
CPU and Memory utilization from Kubernates cluster:





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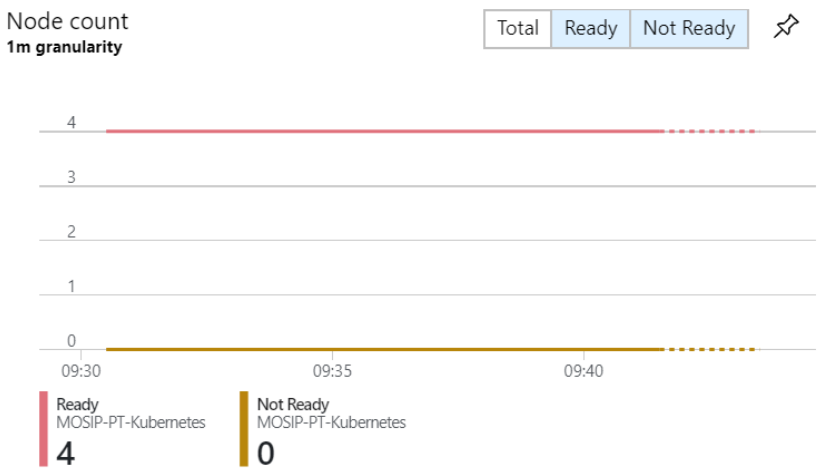

3 months slots availability Batch Job execution details:

For the execution of 3 months slot availability batch job below are pre-requisites:

- 2 month slots available in DB before the executing the batch job
- 30K pre –registrations are available in DB

Executed the 3 months (90 days) batch job after restarting batch service below are the details:

instance_id	Create_Time	Start_Time	End_Time	Execution Time	Status	Slots available (DB)	Days (DB)
1101	2019-06-21 10:05:23.915	2019-06-21 10:05:23.942	2019-06-21 10:11:50.187	**00:06:26**	Completed	35559	90

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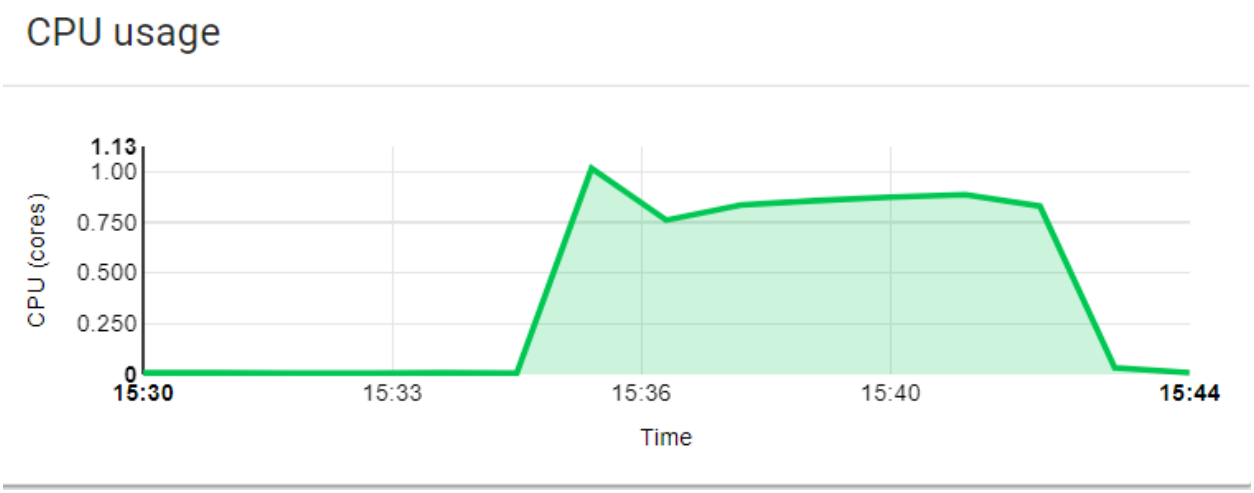
Execution time for this batch job is **00:00:00** sec , Batch job execution completed successfully without any issues ,Verified in DB that this job created slots for 90 days.

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

CPU Utilization:



Memory utilization:

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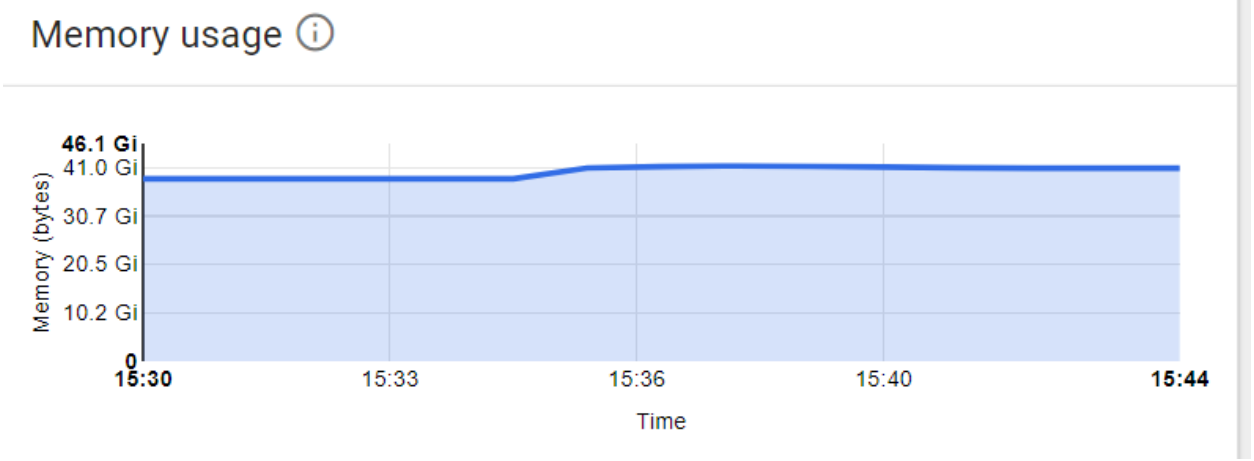
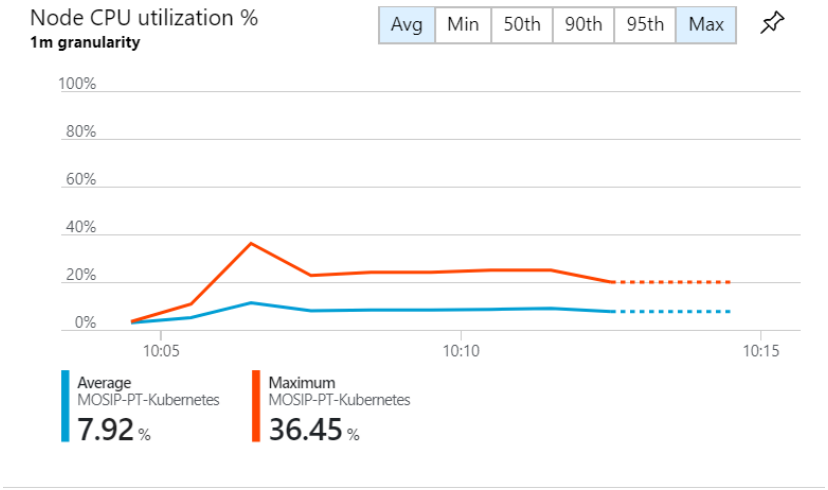


CPU and Memory utilization from Kubernates cluster:



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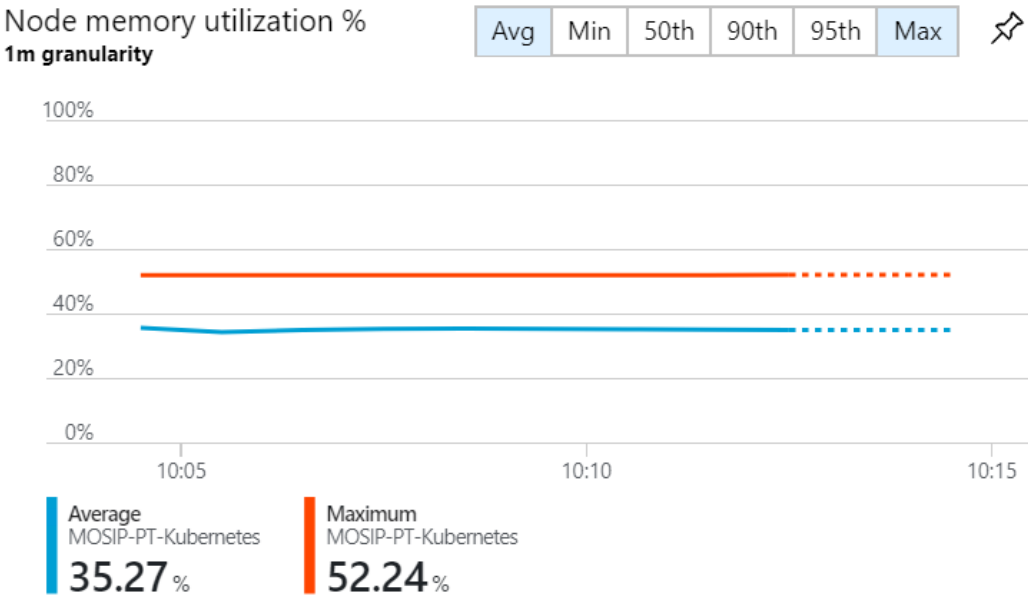

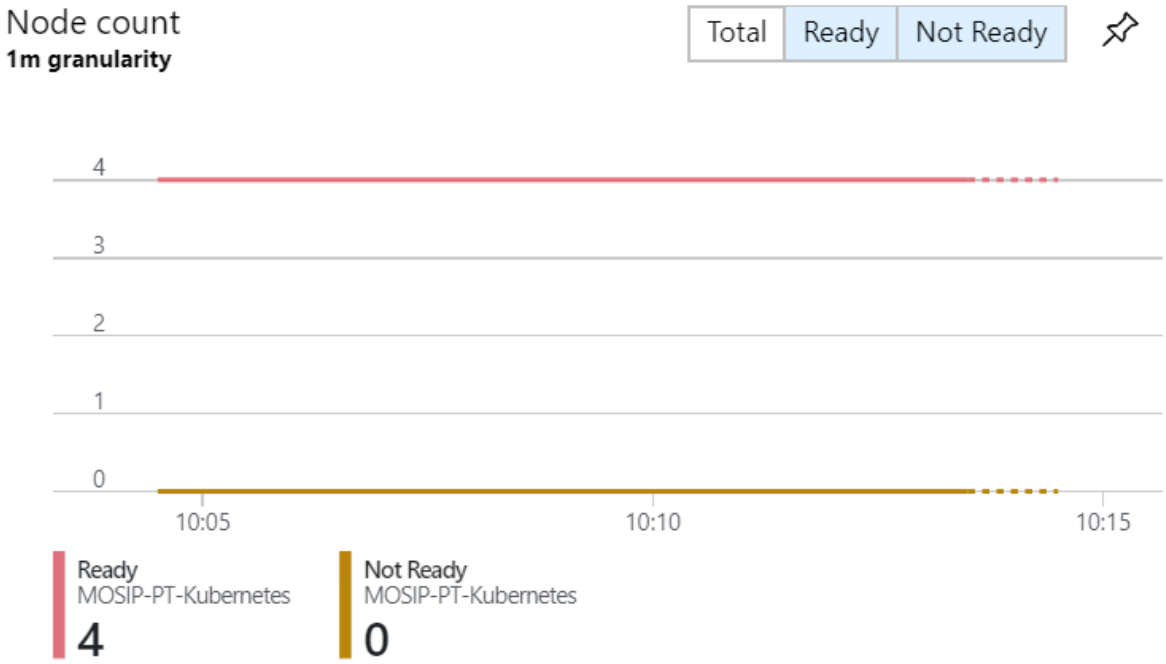

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4 months slots availability Batch Job execution details:

For the execution of 4 months slot availability batch job below are pre-requisites:

- 3 month slots available in DB before the executing the batch job
- 30K pre –registrations are available in DB

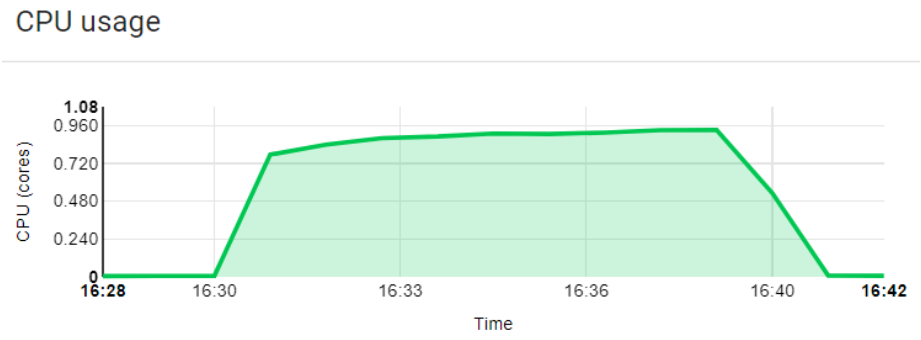
Executed the 4 months (120 days) batch job after restarting batch service below are the details:

instance_id	Create_Time	Start_Time	End_Time	Execution Time	Status	Slots available (DB)	Days (DB)
1104	2019-06-21 10:59:43.398	2019-06-21 10:59:43.425	2019-06-21 11:09:30.043	**00:09:47**	Completed	48159	120

Execution time for this batch job is **00:09:47** sec ,Batch job execution completed successfully without any issues ,Verified in DB that this job created slots for 120 days.

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

CPU Utilization:



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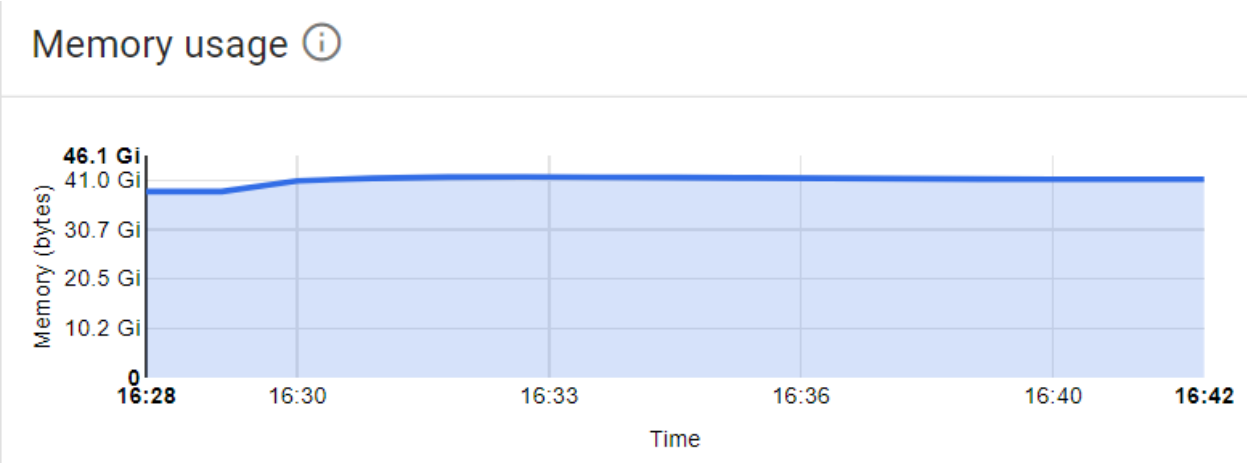
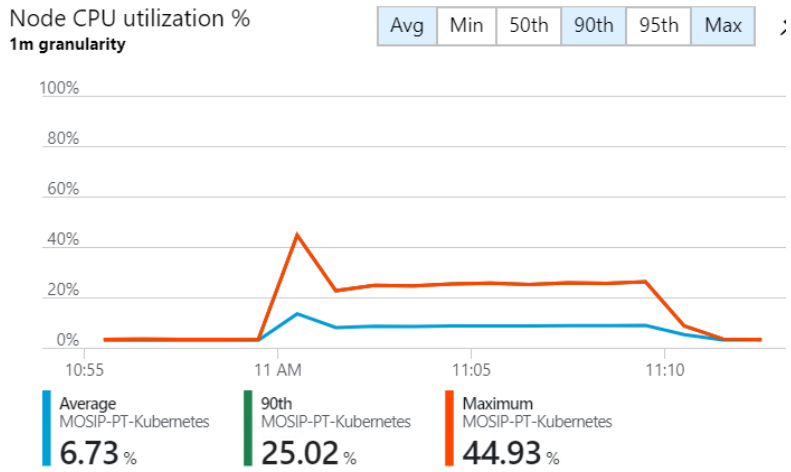
Memory utilization:



CPU and Memory utilization from Kubernates cluster:



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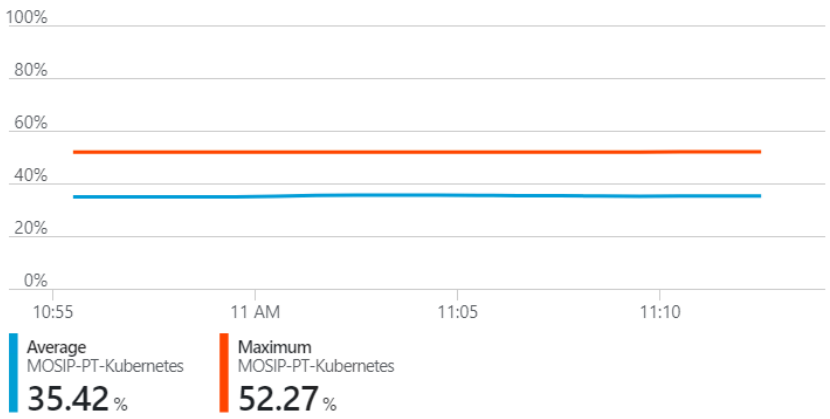
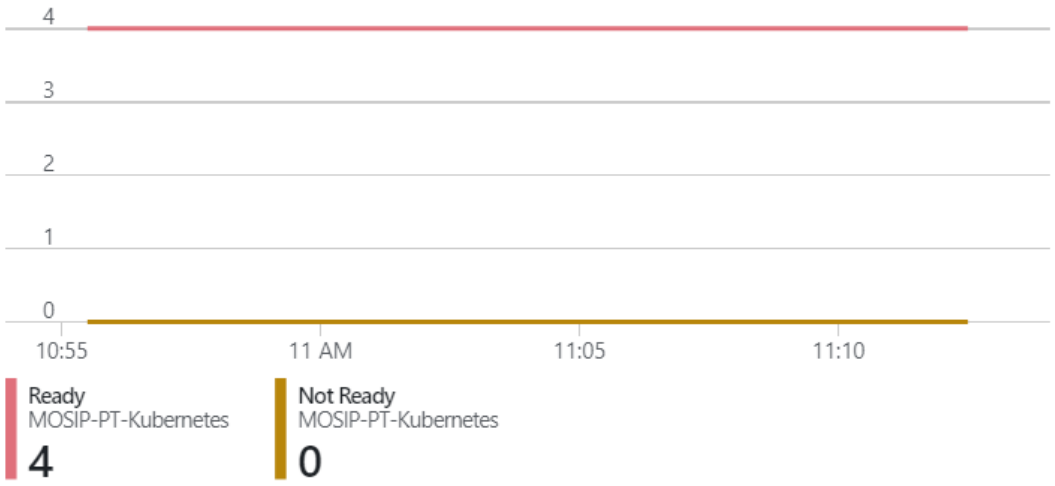
Node memory utilization %
1m granularity

Avg | Min | 50th | 90th | 95th | Max



Node count
1m granularity

Total | Ready | Not Ready



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5 months slots availability Batch Job execution details:

For the execution of 5 months slot availability batch job below are pre-requisites:

- 4 month slots available in DB before the executing the batch job
- 30K pre –registrations are available in DB

Executed the 5 months (152 days) batch job after restarting batch service below are the details:

instance_id	Create_Time	Start_Time	End_Time	Execution Time	Status	Slots available (DB)	Days (DB)
1107	2019-06-21 11:26:58.514	2019-06-21 11:26:58.543	2019-06-21 11:40:32.634	**00:13:34**	Completed	60573	152

Execution time for this batch job is **00:13:34** sec, Batch job execution completed successfully without any issues, Verified in DB that this job created slots for 152 days.

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

CPU Utilization:

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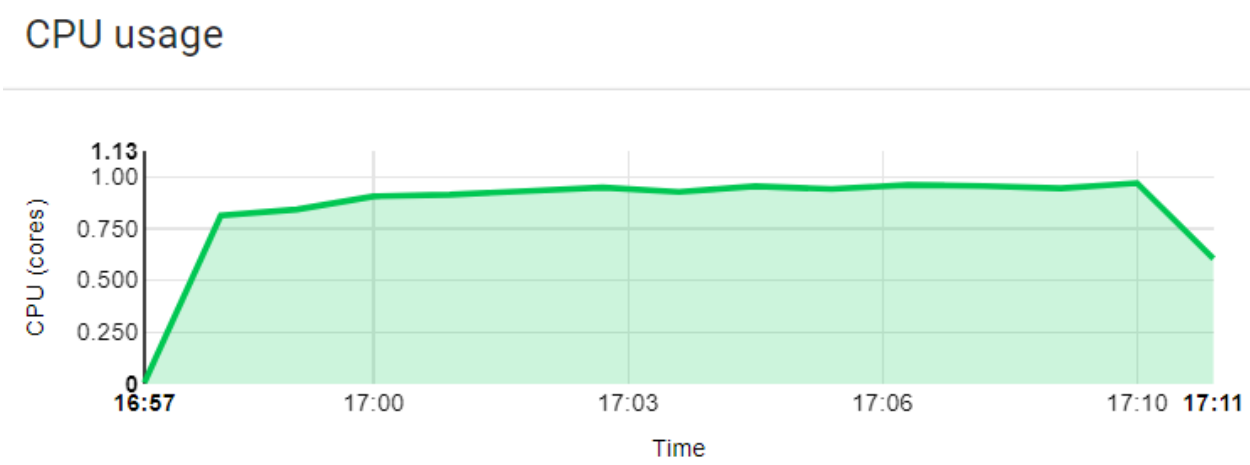
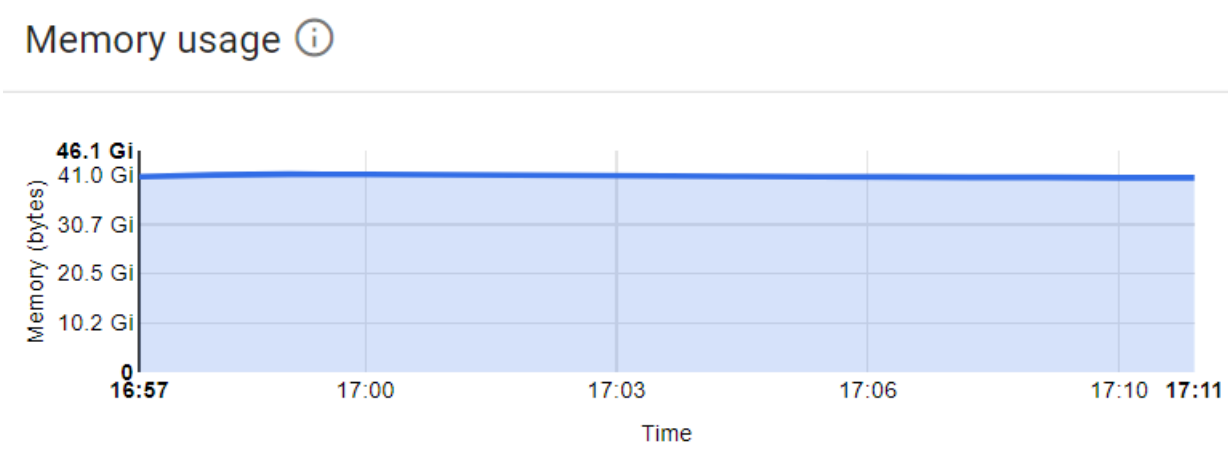


Memory utilization:



CPU and Memory utilization from Kubernates cluster:

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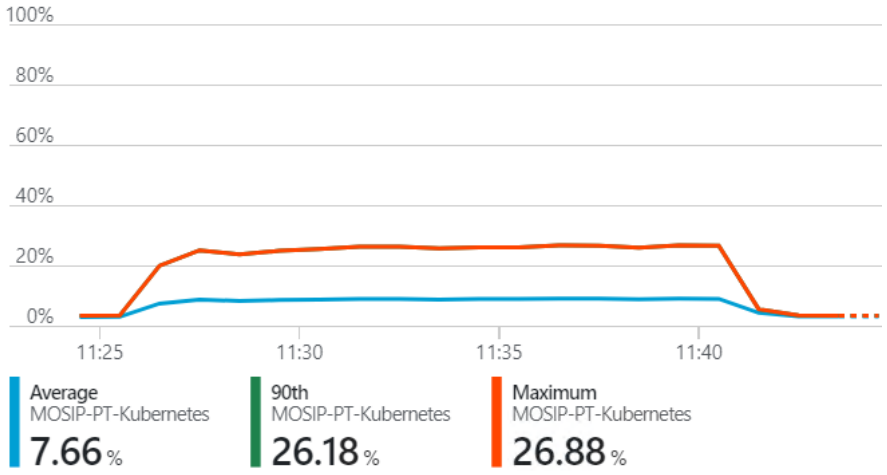
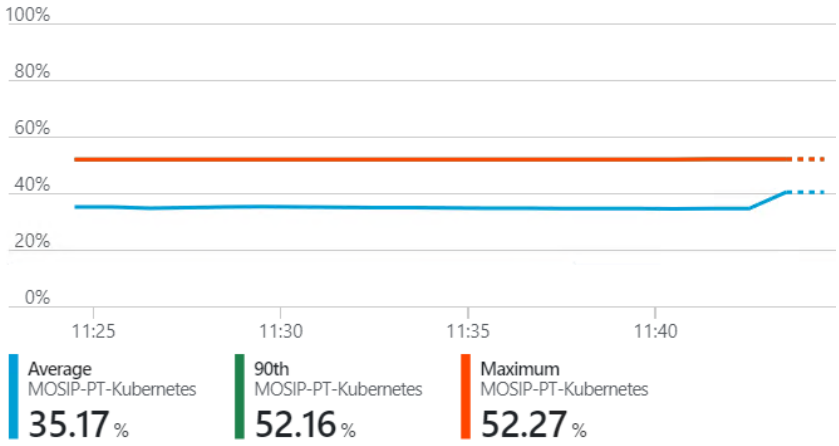
Node CPU utilization %
1m granularity

Avg | Min | 50th | 90th | 95th | Max



Node memory utilization %
1m granularity

Avg | Min | 50th | 90th | 95th | Max



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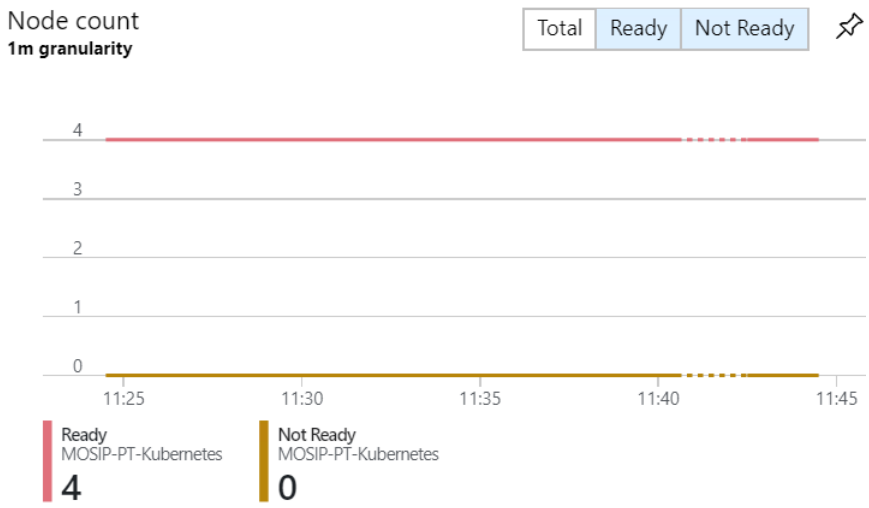

6 months slots availability Batch Job execution details:

For the execution of 6 months slot availability batch job below are pre-requisites:

- 5 month slots available in DB before the executing the batch job
- 30K pre –registrations are available in DB

Executed the 6 months (182 days) batch job after restarting batch service below are the details:

instance_id	Create_Time	Start_Time	End_Time	Execution Time	Status	Slots available (DB)	Days (DB)
1110	2019-06-21 12:04:56.496	2019-06-21 12:04:56.525	2019-06-21 12:21:41.841	**00:16:45**	Completed	73173	182

Execution time for this batch job is **00:16:45** sec ,Batch job execution completed successfully without any issues ,Verified in DB that this job created slots for 182 days.

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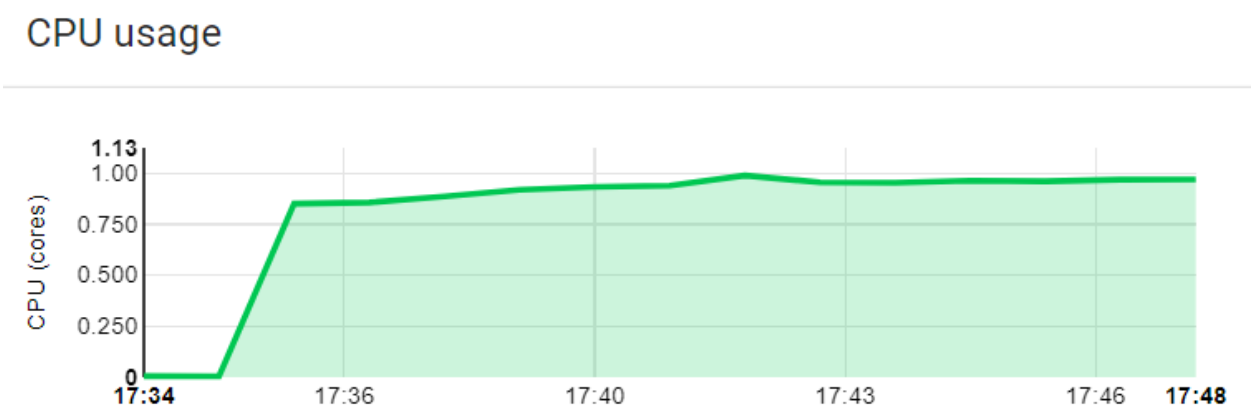
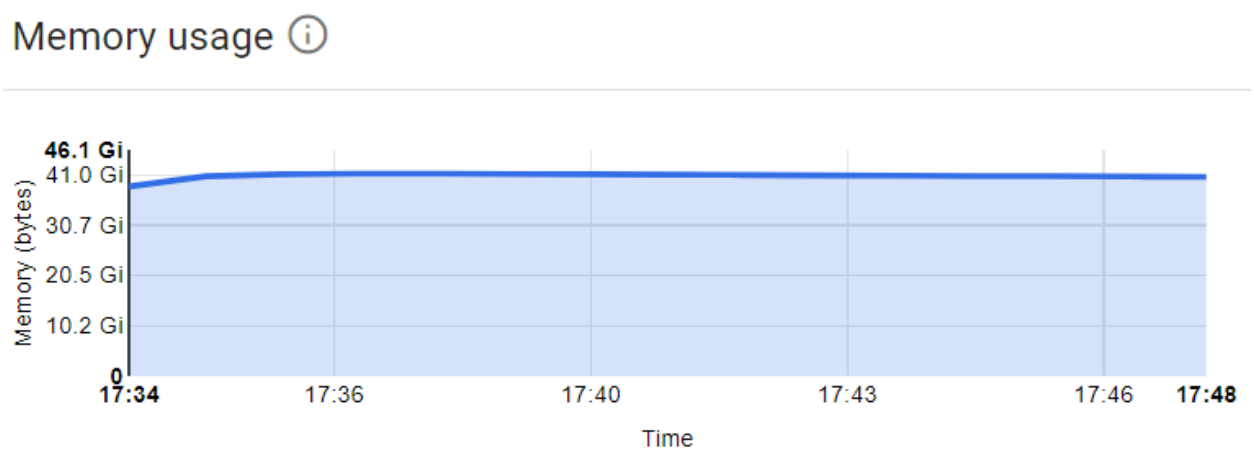
We have taken the CPU and memory utilization graphs of the slot availability batch job (pods), They are below:

CPU Utilization:



Memory utilization:



<u>CPU and Memory utilization from Kubernates cluster:</u>

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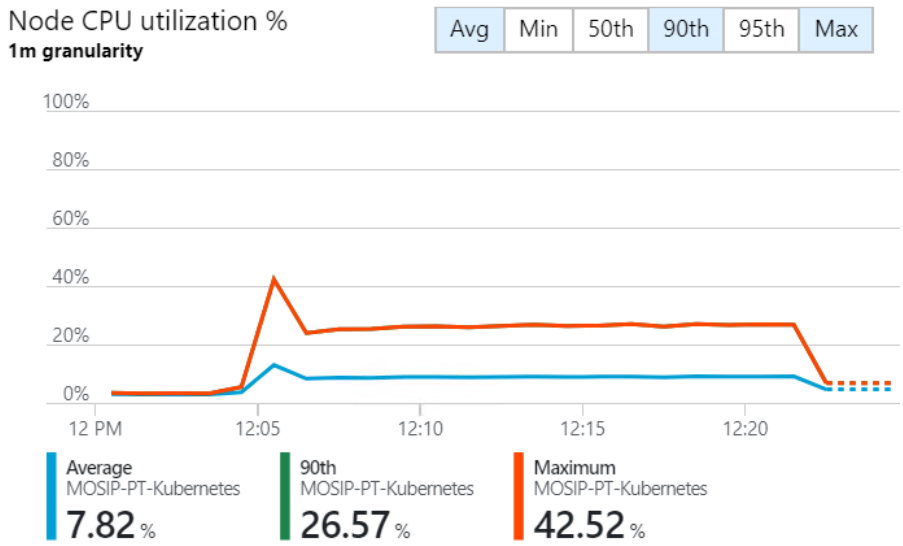

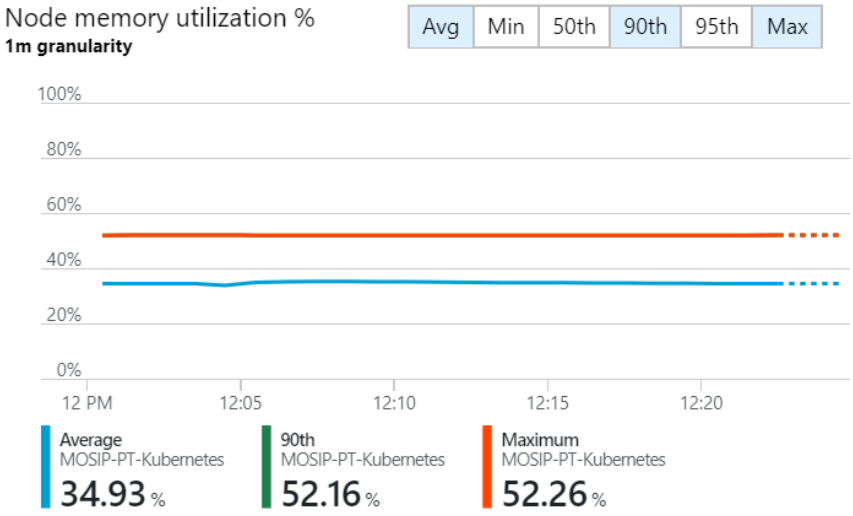

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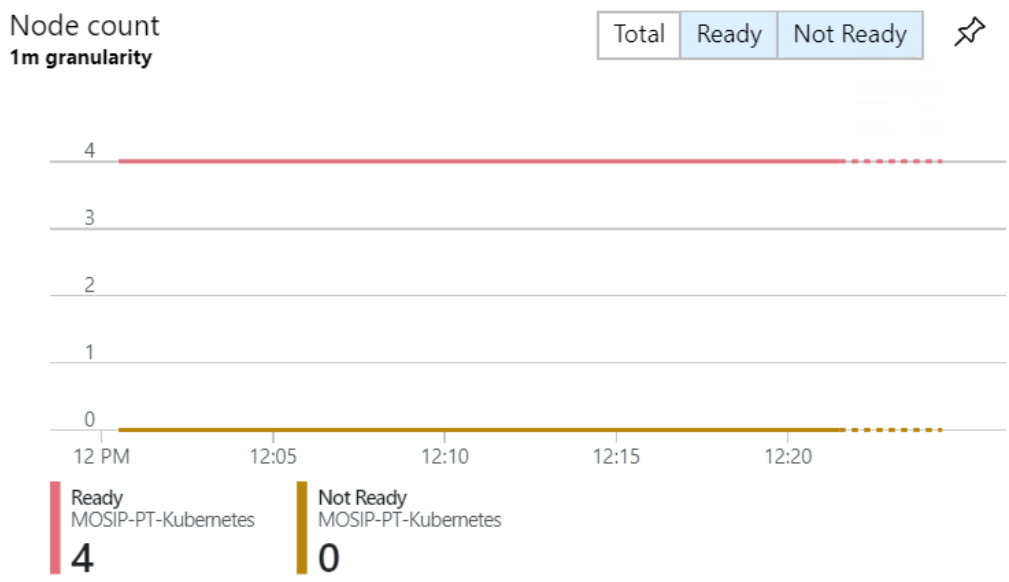

Conclusion and Next Steps:

We have completed slots availability batch job execution until 6 months as per performance testing approach document when already we have slots created for earlier months in database, There were no issues observed while executing jobs. Once the backup is in place, we will continue to test until 2 years of slots creations.

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