**$Customer Usage report**

**$Name Cluster**



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# **Table of Contents**

[Cluster Overview](#_9eebsi9l0oru)

[Host Report](#_9pux9clie0jz)

[Master hosts](#_c7mdhqai2cmc)

[Master Services status](#_x2zcqi4dkx4f)

[etcd status](#_7vzddxgrjo0w)

[KubeAPI status](#_une94rrm2p4g)

[Infra hosts](#_jskvm1eglquh)

[Infra services](#_8asbzm3xgocy)

[Monitoring Stack Health](#_rf0z2pm45h68)

[Logging Stack Health](#_45si367ey0f1)

[Registry Health](#_8fi8pfz6h22p)

[Compute host](#_fflev3pl44gx)

[Workload platform overlook](#_noy8qobo3g8r)

[CPU Graph Usage of last 7 days of each node](#_texks4e19ujh)

[$computeName1](#_4ynmtzozw0fh)

[$computeName2](#_3fm5lwvjyyqx)

[$computeName3](#_4dwx7fwewjsk)

[MEM Grap Usage of last 7 days](#_24atlfdgdo50)

[$computeName1](#_bijrp34fqyty)

[$computeName2](#_fwfjzu5wxlqu)

[$computeName3](#_zd5jmp9zj47v)

[Workload Analysis](#_uciy79z54bge)

[Objects Summary](#_xab85bwsaj7f)

[Last week CPU Graph of project Usage](#_j0ebz0p3koz3)

[Last Week Mem Graph of project Usage](#_xabwu37j1bwm)

[Storage Analysis](#_j7l2je2rd977)

[Summary](#_hoiimnmfc6m1)

[Summary of PV use cases](#_hjfit4r0gkje)

[Recent problems](#_n2vr6b3pdrth)

[Recommendations and remediations](#_3bgta45bruy1)

[$problemDetected1](#_sye2h67nncj7)

[$ProblemDetected2](#_pv98hvbmfa4w)

[$problemDetected3](#_1a2yil1g9bqq)

# Cluster Overview

|  |  |
| --- | --- |
| Cluster Name | $clusterName |
| Cluster Version | $clusterVersion |
| Total Hosts | $totalHost |
| * Master host | $totalMaster |
| * Infra host | $totalInfra |
| * Compute host | $totalCompute |
| Total projects in cluster | $totalProjects(oc get ns --no-headers | wc -l) |
| Total pods(Running/Other state) | ($runningPods/$otherPods) |
| Total storage classes | $totalSC(oc get sc) |
| Total PVC | $totalPVC(oc get pvc..) |

# Host Report

## Master hosts

|  |  |
| --- | --- |
| Node name: | $masterName1 |
| Node IP: | $masterIP1 |
| Instance Type: | $masterInstance1 |
| Running pods in node: | $runningPodsInMaster1 |
| CPU (Requested/Limit) | $cpuRemLim1 |
| MEM (Requested/Limit) | $memReqLim1 |

|  |  |
| --- | --- |
| Node name: | $masterName2 |
| Node IP: | $masterIP2 |
| Instance Type: | $masterInstance2 |
| Running pods in node: | $runningPodsInMaster2 |
| CPU (Requested/Limit) | $cpuRemLim2 |
| MEM (Requested/Limit) | $memReqLim2 |

|  |  |
| --- | --- |
| Node name: | $masterName3 |
| Node IP: | $masterIP3 |
| Instance Type: | $masterInstance3 |
| Running pods in node: | $runningPodsInMaster3 |
| CPU (Requested/Limit) | $cpuRemLim3 |
| MEM (Requested/Limit) | $memReqLim3 |

### Master Services status

#### etcd status

|  |  |
| --- | --- |
| etcd status | $oc get etcd -o=jsonpath='{range .items[0].status.conditions[?(@.type=="EtcdMembersAvailable")]}{.message}{"\n"}' |

#### KubeAPI status

|  |  |
| --- | --- |
| $apiURL/healthz |  |

## Infra hosts

|  |  |
| --- | --- |
| Node name: | $infraName1 |
| Node IP: | $infraIP1 |
| Instance Type: | $infraInstance1 |
| Running pods in node: | $runningPodsInInfra1 |
| CPU (Requested/Limit) | $cpuRemLimInfra1 |
| MEM (Requested/Limit) | $memReqLimInfra1 |

|  |  |
| --- | --- |
| Node name: | $infraName2 |
| Node IP: | $infraIP2 |
| Instance Type: | $infraInstance2 |
| Running pods in node: | $runningPodsInInfra2 |
| CPU (Requested/Limit) | $cpuRemLimInfra2 |
| MEM (Requested/Limit) | $memReqLimInfra2 |

|  |  |
| --- | --- |
| Node name: | $infraName3 |
| Node IP: | $infraIP3 |
| Instance Type: | $infraInstance3 |
| Running pods in node: | $runningPodsInInfra3 |
| CPU (Requested/Limit) | $cpuRemLimInfra3 |
| MEM (Requested/Limit) | $memReqLimInfra3 |

### Infra services

#### Monitoring Stack Health

##### 

|  |  |
| --- | --- |
| node-exporter running | OK |
| Prometheus | OK |
| Alert Manager | OK |
| Grafana | OK |

#### Logging Stack Health

|  |  |
| --- | --- |
| fluentd running | OK |
| ElasticSearch running and healthy | OK |
| Kibana | OK |

#### Registry Health

|  |  |
| --- | --- |
| Registry Pods running | OK |
| Registry pruning jobs | OK |

## Compute host

|  |  |
| --- | --- |
| Node name: | $computeName1 |
| Node IP: | $computeIP1 |
| Instance Type: | $computeInstance1 |
| Running pods in node: | $runningPodsIncompute1 |
| CPU (Requested/Limit) | $cpuRemLimcompute1 |
| MEM (Requested/Limit) | $memReqLimcompute1 |

## 

|  |  |
| --- | --- |
| Node name: | $computeName2 |
| Node IP: | $computeIP2 |
| Instance Type: | $computeInstance2 |
| Running pods in node: | $runningPodsIncompute2 |
| CPU (Requested/Limit) | $cpuRemLimcompute2 |
| MEM (Requested/Limit) | $memReqLimcompute2 |

## 

|  |  |
| --- | --- |
| Node name: | $computeName3 |
| Node IP: | $computeIP3 |
| Instance Type: | $computeInstance3 |
| Running pods in node: | $runningPodsIncompute3 |
| CPU (Requested/Limit) | $cpuRemLimcompute3 |
| MEM (Requested/Limit) | $memReqLimcompute3 |

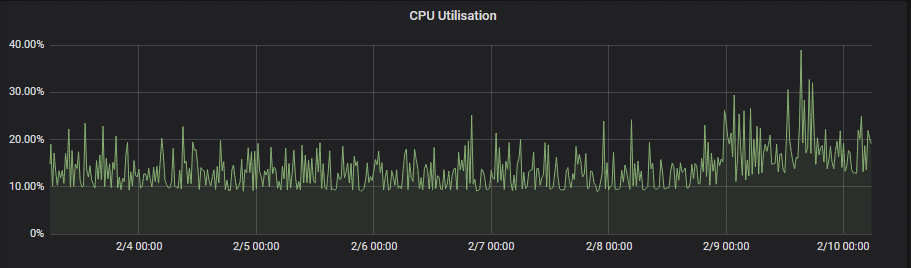
### Workload platform overlook

|  |  |
| --- | --- |
| Total pods in compute nodes | $TotalPodsInComputes |
| Running pods | $TotalRunningPodsinComputes |
| Other states(Error,Completed,CrashLoopBackOff..) | $TotalOtherStatePodsInComputes |

### 

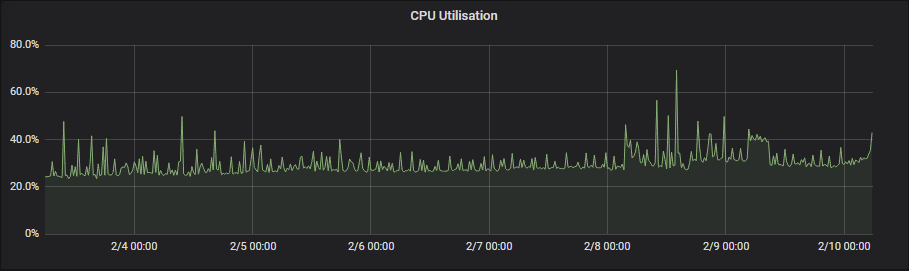
### CPU Graph Usage of last 7 days of each node

#### $computeName1



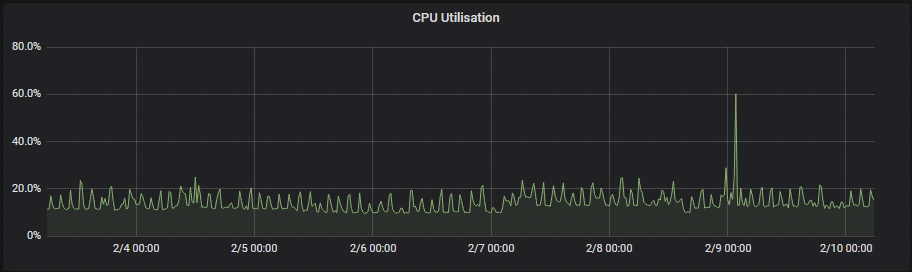
|  |  |
| --- | --- |
| Max Peak CPU Usage |  |
| Min CPU Usage |  |

#### $computeName2



|  |  |
| --- | --- |
| Max Peak CPU Usage |  |
| Min CPU Usage |  |

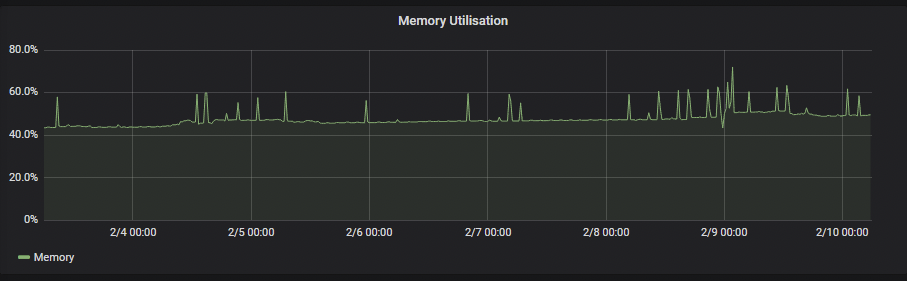
#### $computeName3



|  |  |
| --- | --- |
| Max Peak CPU Usage |  |
| Min CPU Usage |  |

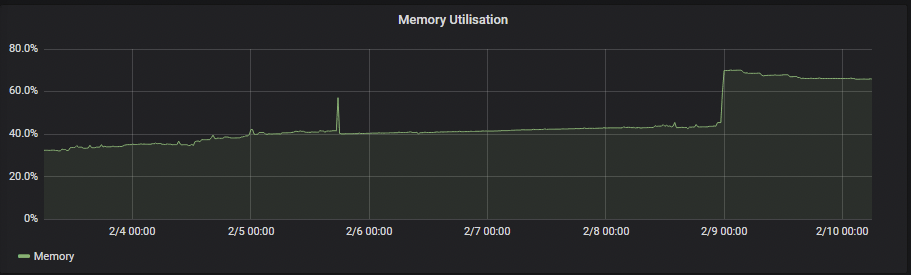
### MEM Grap Usage of last 7 days

#### $computeName1



|  |  |
| --- | --- |
| Max Mem Peak Usage |  |
| Min Mem Usage |  |

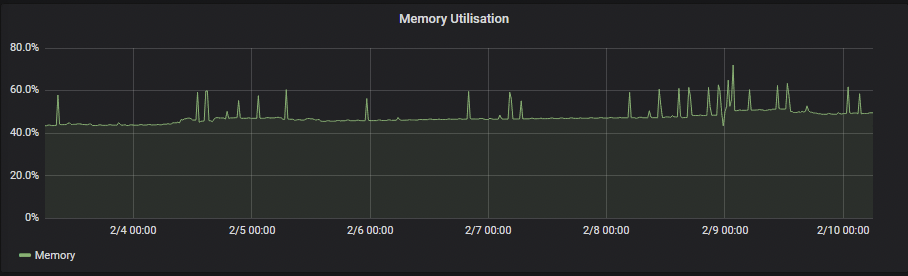
#### $computeName2



|  |  |
| --- | --- |
| Max Mem Peak Usage |  |
| Min Mem Usage |  |

#### 

#### $computeName3



|  |  |
| --- | --- |
| Max Mem Peak Usage |  |
| Min Mem Usage |  |

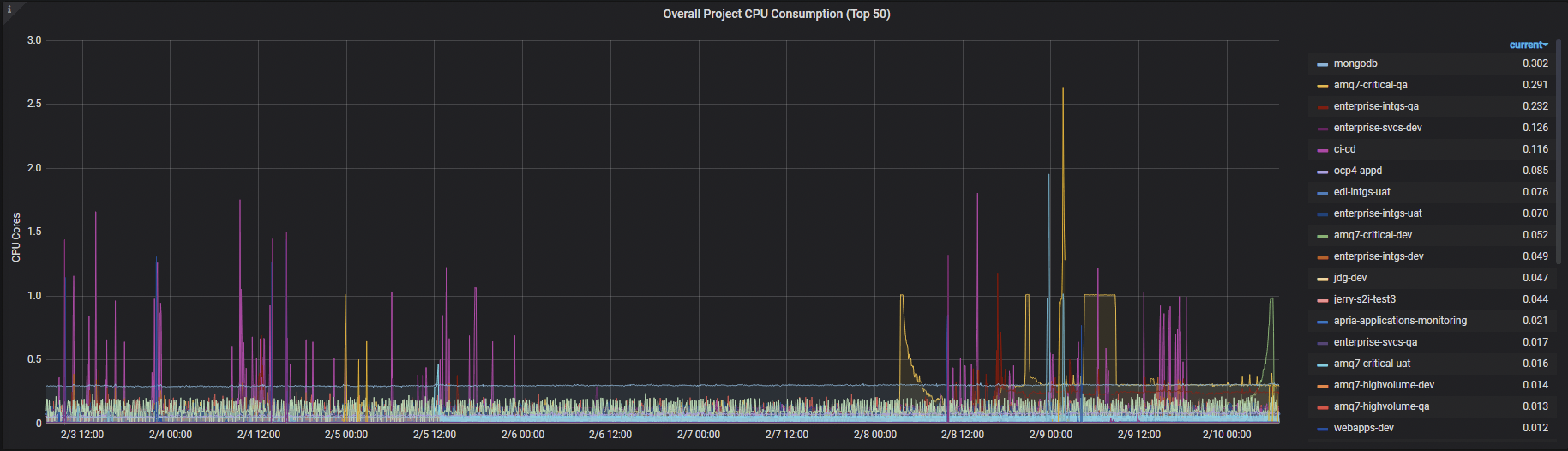
# 

# Workload Analysis

## Objects Summary

|  |  |
| --- | --- |
| Number of projects | $projectsExcludingOCPSystem |
| Number of pod objects(Running) | $podObjects($podsRunning) |
| Number of deploy-type objects | $totalDeployObjects |
| Number of secrets | $totalSecrets |
| Number of ConfigMaps | $totalConfigMaps |
| Number of CronJobs | $totalCronJobs |
| Number of Jobs | $totalJobs |
| Number of DaemonSets | $totalDaemonSets |
| Number of ReplicaSet | $totalReplicaSet |
| Number of ReplicationController | $totaReplicationController |

#### Last week CPU Graph of project Usage



|  |  |
| --- | --- |
| Max CPU Usage by | $namespace ($namespaceTopCPUUsage) |
| $namespace cpu requests | $namespaceCpuRequest |
| $namespace mem requests | $namespaceMemRequest |
| $namespace cpu limits | $namespaceCpuLimit |
| $namespace mem limits | $namespaceMemLimit |

#### 

#### Last Week Mem Graph of project Usage

#### 

|  |  |
| --- | --- |
| Max Mem Usage by | $namespace($namespaceMemUsage) |
| Cpu usage by $namespace | $namespaceCpuUsage |
| $namespace cpu requests | $namespaceCpuRequest |
| $namespace cpu limits | $namespaceCpuLimit |
| $namespace mem requests | $namespaceMemRequest |
| $namespace mem limits | $namespaceMemLimit |

#### 

# Storage Analysis

## Summary

|  |  |
| --- | --- |
| Total PV | $totalPV |
| Total PVC | $totalPVC |
| StorageClasses | $totalSC |
| Object Buckets | $totalObjectBuckets |
| Object Buckets Claims | $totalObjectBucketsClaims |

## Summary of PV use cases

|  |  |
| --- | --- |
| RWO | $totalOfRWO |
| ROX | $totalOfROX |
| RWX | $totalOfRWX |

# 

# 

# 

# 

# 

# 

# Recent problems

No recent problems

# Recommendations and remediations

## $problemDetected1

## $ProblemDetected2

Possible solutions and recommendations to solve problem2

## $problemDetected3

Possible solutions and recommendations to solve problem3