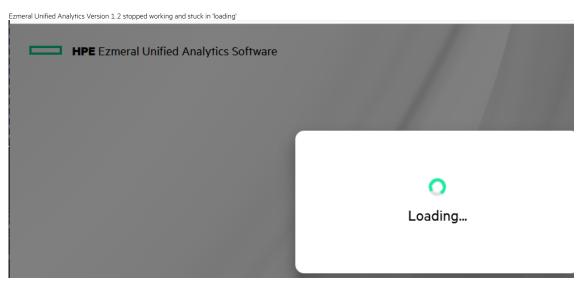


Ezmeral Unified Analytics: UI not responding. Stuck in 'loading'

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Issue



```
master node showing huge load (~10 for 8 vcpu ), all node memory used by kube-apis
3 days, 15:38, 2 users, load average: 79.26, 78.20, 81.42
Tasks: 224 total, 5 running, 219 sleeping, 0 stopped, 0 zombie
%Cpu(s): 1.3 us, 24.0 sy, 0.0 ni, 0.9 id, 68.6 wa, 1.8 hi, 3.2 si, 0.2 st
GiB Mem: 31.1 total, 0.2 free, 29.1 used, 1.8 buff/cache
GiB Swap: 0.0 total, 0.0 free, 0.0 used. 0.1 avail Mem
        PID USER
                                                    VIRT
                                                                               SHR S
                                                                                                       %MEM
                                 PR NI
                                                                  RES
                                                                                                                       TIME+ COMMAND
                                                                                            %CPU
                                                                            0.0m S 18.2
0.0m S 13.4
0.0m D 12.2
                                                                                                                    1772:13 [kswapd0]
        104 root
    10235 root
                                                               33.6m
                                                                                                                    1089:33 calico-node -felix
                                                             27.2g
28.9m
                                                                                                     87.4 353:02.16 /usr/bin/kube-apiserver
0.1 266:37.33 /usr/bin/kube-scheduler
                                               28.2g
743.4m
 2845811 root
2874996 root
                                          Θ
                                                  16.7g 926.4m
                                                                                                        2.9
      8868 etcd
                                 20
                                          Θ
                                                                                                                   2273:38 /usr/bin/etcd --advertise
```

Environment

416 configmaps 330 services

Ezmeral Unified Analytics Version 1.2 (apparently version 1.3 not affected)

Cause

Kyverno component's bug https://github.com/kyverno/kyverno/kyverno/issues/6462 caused k8s ETCD DB to log huge number of objects under /registry/kyverno.io key and grow it's size to 26GB (from ~40MB under normal conditions), that caused kube-apiserver to use all node's memory (32GB) and kswapd to use all CPU resources, causing node to be unresponsive.

275 clusterroles 271 secrets 265 serviceaccounts --omitted ----

Resolution

```
Please refer to <a href="https://etcd.io/docs/v3.5/op-guide/maintenance/#space-quota">https://etcd.io/docs/v3.5/op-guide/maintenance/#space-quota</a>
• stop kube-apiserver
• !! take etcd db snapshot!!
• manually delete etcd '--perfix /registry/kyverno.io/ entries
• verify no more etcd /registry/kyverno.io/ entries exists
• compact ETCD
• run ETCD defrag
• verify post defrag DB size decreased
• started kube-apiserver > UI working back
• implement <a href="https://dithub.com/kyverno/kyverno/issues/6462">https://dithub.com/kyverno/issues/6462</a>
• implement <a href="https://dithub.com/kyverno/issues/6462">https://dithub.com/kyverno/issues/6462</a>
• workaround
• set --admissionReports=false under

# kubectl describe deployments kyverno-admission-controller -n kyverno
--- omitted ---
Args:
---servicePort=443
--loggingFormat=text
--disableMetrics=false
--otelConfig=prometheus
--metricsPort=8000
--imagePullSecrets=map[name:ezafimagepullsecret]
---admissionReports=false
```

• monitor ETCD db size for next 24hrs