

Ezmeral Unified Analytics 1.5 - System Resources display 'No data to display' following an external EDF outage

Table of contents

Issue

Environment

Cause

Resolution

Issue

On Ezmeral Unified Analytics 1.5, post planned or unplanned external EDF outage, 'System Resources' UI reports 'No data to display' i/o expected graphs:



Environment

Ezmeral Unified Analytics 1.5 with external Ezmeral Data Fabric cluster registered as persistent storage.

Cause

On Unified Analytics, System Resources graphs are generated by *Prometheus* and *monitoring* / *ez-otel* components (pods/services).

On the affected cluster, all *Prometheus* and *monitoring* pods were up & running, but *prometheus-kubeprom-prometheus-0* under the *prometheus* namespace was showing '**transport endpoint is not connected**' error which points to an inability to connect to underlying PV on the external Data Fabric cluster.

```
[<user>@<k8s-workload-master ~>]$ kubectl logs -n prometheus prometheus-kubeprom-prometheus-0
---omitted---
ts=2025-02-02T15:21:36.612Z caller=scrape.go:1281 level=error component="scrape manager" scrape_pool=airflow target=h
ts=2025-02-02T15:21:36.771Z caller=scrape.go:1281 level=error component="scrape manager" scrape_pool=serviceMonitor/pi
ts=2025-02-02T15:21:36.821Z caller=scrape.go:1281 level=error component="scrape manager" scrape_pool=pushgateway targe
ts=2025-02-02T15:21:36.882Z caller=scrape.go:1281 level=error component="scrape manager" scrape_pool=serviceMonitor/pi
ts=2025-02-02T15:21:37.023Z caller=scrape.go:1281 level=error component="scrape manager" scrape_pool=serviceMonitor/pi
ts=2025-02-02T15:21:37.070Z caller=scrape.go:1281 level=error component="scrape manager" scrape_pool=serviceMonitor/pi
to WAL: log samples: write /prometheus/wal/00000490: transport endpoint is not connected"
ts=2025-02-02T15:21:37.279Z caller=scrape.go:1281 level=error component="scrape manager" scrape_pool=serviceMonitor/pi
to WAL: log samples: write /prometheus/wal/00000490: transport endpoint is not connected"
```

Resolution

- Retrieve prometheus underlying PV name and respective "volumePath" name on external DF
 - \$ kubectl get pv | grep prometheus
 - \$ kubectl get pv mapr-pv-<enter-yr-id> -o json | grep "volumePath"
- Ensure volumePath exists on external DF cluster and check it's content via hadoop command
 - # hadoop fs -ls /ezua/kdf-csi-<enter-yr-volume-id>/prometheus-db

If the above conditions are confirmed, simply delete the pod prometheus / prometheus-kubeprom-prometheus-0 on the K8s workload master node. This will force pod recreation and reconnect to the underlying PV.

Follow the pod logs post re-creation and ensure to TSDB properly starts:

```
[<EZUA admin>@<k8s-workload-master-node> ~]$ kubectl logs -n prometheus prometheus-kubeprom-prometheus-0
ts=2025-02-02T15:33:48.796Z caller=main.go:617 level=info msg="Starting Prometheus Server" mode=server version="(vers:
ts=2025-02-02T15:33:48.796Z caller=main.go:622 level=info build_context="(go=go1.22.2, platform=linux/amd64, user=roo
ts=2025-02-02T15:33:48.796Z caller=main.go:623 level=info host_details="(Linux 4.18.0-425.19.2.el8_7.x86_64 #1 SMP Tue
ts=2025-02-02T15:33:48.796Z caller=main.go:624 level=info fd_limits="(soft=1048576, hard=1048576)"
ts=2025-02-02T15:33:48.796Z caller=main.go:625 level=info vm_limits="(soft=unlimited, hard=unlimited)"
ts=2025-02-02T15:33:48.803Z caller=query_logger.go:82 level=info component=activeQueryTracker msg="These queries didn
ainer_status_restarts_total[20m])) \u003e 0) * on (namespace, pod) group_left (label_hpe_ezua_app) kube_pod_labels\
ts=2025-02-02T15:33:48.809Z caller=web.go:568 level=info component=web msg="Start listening for connections" address=
ts=2025-02-02T15:33:48.810Z caller=main.go:1129 level=info msg="Starting TSDB ..."
ts=2025-02-02T15:33:48.813Z caller=tlc_config.go:313 level=info component=web msg="Listening on" address=[::]:9090

---omitted---

ts=2025-02-02T15:33:48.851Z caller=db.go:964 level=info component=tsdb msg="Found and deleted tmp block dir" dir=/pro
```

ts=2025-02-02T15:33:48.851Z caller=dir_locker.go:77 level=warn component=tsdb msg="A lockfile from a previous executi
ts=2025-02-02T15:33:49.332Z caller=head.go:616 level=info component=tsdb msg="Replaying on-disk memory mappable chunk:
ts=2025-02-02T15:33:49.906Z caller=head.go:698 level=info component=tsdb msg="On-disk memory mappable chunks replay co
ts=2025-02-02T15:33:49.906Z caller=head.go:706 level=info component=tsdb msg="Replaying WAL, this may take a while"
ts=2025-02-02T15:33:50.377Z caller=head.go:743 level=info component=tsdb msg="WAL checkpoint loaded"
ts=2025-02-02T15:33:51.995Z caller=head.go:778 level=info component=tsdb msg="WAL segment loaded" segment=486 maxSegme
ts=2025-02-02T15:33:53.119Z caller=head.go:778 level=info component=tsdb msg="WAL segment loaded" segment=487 maxSegme
ts=2025-02-02T15:33:54.173Z caller=head.go:778 level=info component=tsdb msg="WAL segment loaded" segment=488 maxSegme
ts=2025-02-02T15:33:55.502Z caller=head.go:778 level=info component=tsdb msg="WAL segment loaded" segment=489 maxSegme
ts=2025-02-02T15:33:55.603Z caller=head.go:778 level=info component=tsdb msg="WAL segment loaded" segment=490 maxSegme
ts=2025-02-02T15:33:55.607Z caller=head.go:778 level=info component=tsdb msg="WAL segment loaded" segment=491 maxSegme
ts=2025-02-02T15:33:55.607Z caller=head.go:815 level=info component=tsdb msg="WAL replay completed" checkpoint_replay.
ts=2025-02-02T15:33:55.727Z caller=main.go:1150 level=info fs_type=65735546
ts=2025-02-02T15:33:55.727Z caller=main.go:1153 level=info msg="TSDB started"
ts=2025-02-02T15:33:55.727Z caller=main.go:1154 level=debug msg="TSDB options" MinBlockDuration=2h MaxBlockDuration=6c
ts=2025-02-02T15:33:55.727Z caller=main.go:1335 level=info msg="Loading configuration file" filename=/etc/prometheus/

- Refresh EZUA UI to ensure System Resources graphs are back

