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Monitoring HPE GreenLake Servers running GPU using Grafana and Prometheus

Overview

HPE GreenLake provides a cloud-native platform for managing and monitoring infrastructure with built-in tools and dashboards. While GreenLake offers comprehensive native monitoring capabilities, organizations can also leverage the GreenLake API to integrate with popular open-source tools like Grafana and Prometheus. This approach enables teams to consolidate monitoring data across hybrid environments, utilize existing observability workflows, and create customized dashboards tailored to specific operational needs.

Kubernetes and Helm Setup

Environment Verification

Before proceeding with the monitoring setup, verify that your Kubernetes cluster has the necessary components installed. The following shows a working environment with the GPU Operator and Prometheus monitoring stack deployed:

Services running in the gpu-operator namespace: - gpu-operator: Core service for GPU management (ClusterIP: 10.233.44.80:8080) - nvidia-dcgm-exporter: DCGM metrics exporter for Prometheus integration (ClusterIP: 10.233.15.59:9400)

Helm releases: - gpu-operator-1753140595 (v25.3.2) in the gpu-operator namespace - kube-prometheus-stack (76.3.0) in the monitoring namespace

You can verify your setup using the following commands:

```
wsl=> k get svc -n gpu-operator
gpu-operator Cl
wsl=> helm list -A
                  NAMESPACE REVISION UPDATED
NAME
                                                                     APP
                             STATUS CHART
   VERSION
   -operator-1753140595 gpu-operator 4

MST deployed gpu-operator-v25.3.2
e-prometheus-stack monitoring 5
gpu-operator-1753140595 gpu-operator
                                             2025-08-14 19:20:42.329819669 -0700
kube-prometheus-stack monitoring 5
                                             2025-08-15 13:06:31.169338089 -0700
                  kube-prometheus-stack-76.3.0 v0.84.1
  MST deployed
hjma@HSTHJMA02:~
```

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Note

this is important

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