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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:~
```

**Note** this is important

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