
White Paper: Grafana & Prometheus on HPE GreenLake with NVIDIA

Introduction

This document provides a technical overview and deployment guide for Grafana and Prometheus in HPE GreenLake environments with NVIDIA hardware.

Table of Contents

- Installation
- Configuration
- Troubleshooting
- References

Installation

The repo has many prometheus related charts. The chart we want is called “kube-prometheus-stack”. This chart also includes sub-chart of grafana.

Add repo

```
1 helm repo add prometheus-community https://prometheus-community.github.io/helm-charts
2 helm repo update
```

Install

```
1 helm install kube-prometheus-stack prometheus-community/kube-prometheus-stack --namespace monitoring --create-namespace
```

Helm Search Output

1	prometheus-community/alertmanager	1.24.0	v0.28.1	The Alertmanager handles alerts
2	prometheus-community/alertmanager-snmptifier sent by client ...	2.0.1	v2.0.0	The SNMP Notifier handles alerts
3	prometheus-community/alertmanager-snmptifier coming from Pr...	1.8.1	v1.3.0	A Helm chart for Kubernetes to
4	prometheus-community/alertmanager-snmptifier install jiraalert	76.3.0	v0.84.1	kube-prometheus-stack collects
5	prometheus-community/alertmanager-snmptifier Kubernetes manif...	6.1.4	2.16.0	Install kube-state-metrics to
6	prometheus-community/alertmanager-snmptifier generate and expo...	0.15.0	v0.12.0	A proxy that enforces a given
7	prometheus-community/alertmanager-snmptifier label in a given ...	27.30.0	v3.5.0	Prometheus is a monitoring system
8	prometheus-community/alertmanager-snmptifier and time seri...	5.1.0	v0.12.0	A Helm chart for k8s prometheus
	prometheus-community/alertmanager-snmptifier adapter			

[!Note] Was trying to configure grafana to be NodePort but got confused for a long time why “show value” for chart don’t show the grafana.service.type while the installed release shows. The “show value” only shows parent prometheus value while “get values” show the merged values after installation.

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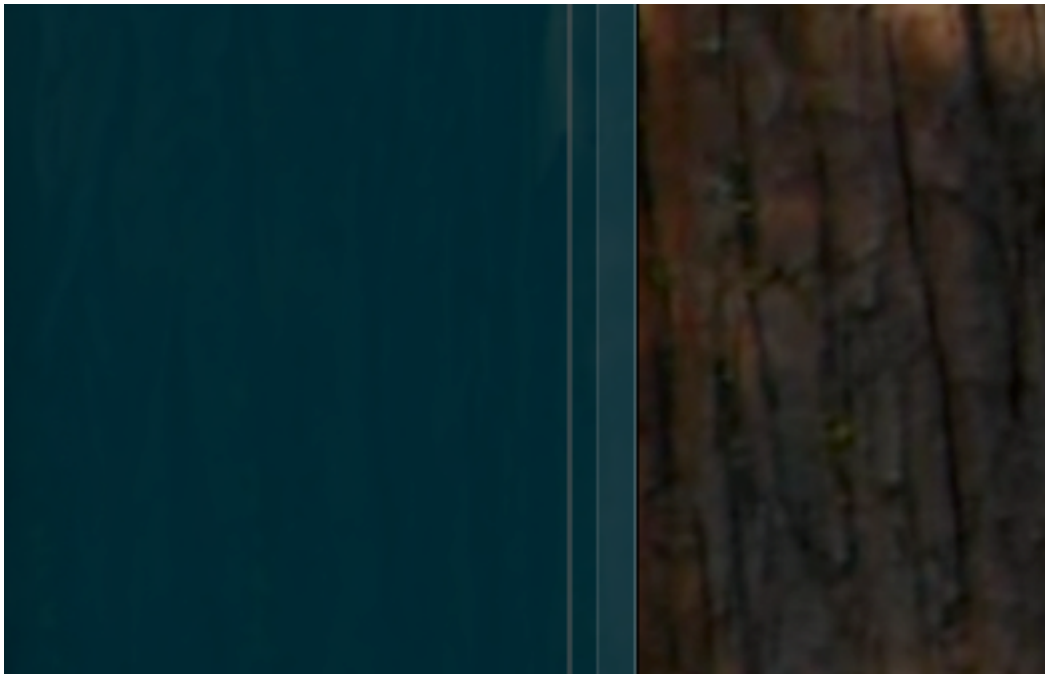


Figure 1: alt text

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