$ kubectl describe svc -n monitoring kube-prometheus-stack-prometheus

Name: kube-prometheus-stack-prometheus

Namespace: monitoring

Labels: app=kube-prometheus-stack-prometheus

app.kubernetes.io/instance=kube-prometheus-stack

app.kubernetes.io/managed-by=Helm

app.kubernetes.io/part-of=kube-prometheus-stack

app.kubernetes.io/version=78.5.0

chart=kube-prometheus-stack-78.5.0

heritage=Helm

release=kube-prometheus-stack

self-monitor=true

Annotations: field.cattle.io/publicEndpoints:

[{"port":31751,"protocol":"TCP","serviceName":"monitoring:kube-prometheus-stack-prometheus","allNodes":true},{"port":31210,"protocol":"TCP...

meta.helm.sh/release-name: kube-prometheus-stack

meta.helm.sh/release-namespace: monitoring

Selector: app.kubernetes.io/name=prometheus,operator.prometheus.io/name=kube-prometheus-stack-prometheus

Type: NodePort

IP Family Policy: SingleStack

IP Families: IPv4

IP: 10.108.191.246

IPs: 10.108.191.246

Port: http-web 9090/TCP

TargetPort: 9090/TCP

NodePort: http-web 31751/TCP

Endpoints:

Port: reloader-web 8080/TCP

TargetPort: reloader-web/TCP

NodePort: reloader-web 31210/TCP

Endpoints:

Session Affinity: None

External Traffic Policy: Cluster

Internal Traffic Policy: Cluster

Events: <none>

Issue: endpoint is missing

**What You Have vs What's Missing**

Currently running:

* ✅ Grafana (though stuck in Pending)
* ✅ kube-state-metrics
* ✅ Prometheus Operator
* ✅ Node exporters (3 of them, one per node)

Missing:

* ❌ Prometheus Server StatefulSet (prometheus-kube-prometheus-stack-prometheus-0)
* ❌ Possibly Alertmanager (if enabled)

**Troubleshooting**

**Administrator@EC2AMAZ-1TOPCR2 MSYS ~/Documents**

**$ kubectl describe statefulset -n monitoring prometheus-kube-prometheus-stack-prometheus**

**Error from server (NotFound): statefulsets.apps "prometheus-kube-prometheus-stack-prometheus" not found**

**Administrator@EC2AMAZ-1TOPCR2 MSYS ~/Documents**

**$ kubectl describe statefulset -n monitoring prometheus-kube-prometheus-stack-prometheus**

**Error from server (NotFound): statefulsets.apps "prometheus-kube-prometheus-stack-prometheus" not found**

The pvc is in pending state

$ kubectl describe pvc -n monitoring kube-prometheus-stack-grafana

Name: kube-prometheus-stack-grafana

Namespace: monitoring

StorageClass: standard

Status: Pending

Volume:

Labels: app.kubernetes.io/instance=kube-prometheus-stack

app.kubernetes.io/managed-by=Helm

app.kubernetes.io/name=grafana

app.kubernetes.io/version=12.2.0

helm.sh/chart=grafana-10.1.2

Annotations: meta.helm.sh/release-name: kube-prometheus-stack

meta.helm.sh/release-namespace: monitoring

Finalizers: [kubernetes.io/pvc-protection]

Capacity:

Access Modes:

VolumeMode: Filesystem

Used By: kube-prometheus-stack-grafana-bb5ddb59f-lflpd

Events:

Type Reason Age From Message

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Warning ProvisioningFailed 5m46s (x62 over 20m) persistentvolume-controller storageclass.storage.k8s.io "standard" not found

Solution

Administrator@EC2AMAZ-1TOPCR2 MSYS ~/Documents/prometheus-grafana

$ kubectl get storageclass

NAME PROVISIONER RECLAIMPOLICY VOLUMEBINDINGMODE ALLOWVOLUMEEXPANSION AGE

local-path (default) kubernetes.io/no-provisioner Delete WaitForFirstConsumer false 49m

standard (default) kubernetes.io/no-provisioner Delete WaitForFirstConsumer false 27m

Administrator@EC2AMAZ-1TOPCR2 MSYS ~/Documents/prometheus-grafana

$ kubectl get pv

NAME CAPACITY ACCESS MODES RECLAIM POLICY STATUS CLAIM

STORAGECLASS VOLUMEATTRIBUTESCLASS REASON AGE

grafana-pv 10Gi RWO Retain Bound monitoring/alertmanager-kube-prometheus-stack-alertmanager-db-alertmanager-kube-promet

heus-stack-alertmanager-0 standard <unset> 2m55s

prometheus-pv 20Gi RWO Retain Bound monitoring/kube-prometheus-stack-grafana

standard <unset> 2m55s