

Grafana:**Installation Steps****Add helm repo and install grafana:**

```
helm repo add grafana https://grafana.github.io/helm-charts
helm install grafana grafana/grafana -n prometheus
```

```
[root@master ~]# helm repo add grafana https://grafana.github.io/helm-charts
"grafana" has been added to your repositories
[root@master ~]# helm install grafana grafana/grafana -n prometheus
```

```
NAME: grafana
LAST DEPLOYED: Thu Jan 14 06:14:19 2021
NAMESPACE: prometheus
STATUS: deployed
REVISION: 1
NOTES:
1. Get your 'admin' user password by running:
```

Export Grafana pod to access UI:

```
kubectl get secret --namespace prometheus grafana -o jsonpath="{.data.admin-password}" |
base64 --decode ; echo
```

```
[root@master ~]# kubectl get secret --namespace prometheus grafana -o jsonpath="{.data.admin-password}" | base64 --decode ; echo
SdmkpCD0XymiChAe6nCfcgZx84sD3L7LbixT24mA
[root@master ~]#
```

```
export POD_NAME=$(kubectl get pods --namespace prometheus -l
"app.kubernetes.io/name=grafana,app.kubernetes.io/instance=grafana" -o
jsonpath="{.items[0].metadata.name}")
kubectl --namespace prometheus port-forward $POD_NAME 3000 --address 192.168.1.74 &
```

Username: admin**Password: <use above password string> // SdmkpCD0XymiChAe6nCfcgZx84sD3L7LbixT24mA**

=====

1. Get your 'admin' user password by running:

```
kubectl get secret --namespace prometheus grafana -o jsonpath="{.data.admin-password}" |
base64 --decode ; echo
```

2. The Grafana server can be accessed via port 80 on the following DNS name from within your cluster:

grafana.prometheus.svc.cluster.local

Get the Grafana URL to visit by running these commands in the same shell:

```
export POD_NAME=$(kubectl get pods --namespace prometheus -l
"app.kubernetes.io/name=grafana,app.kubernetes.io/instance=grafana" -o
jsonpath="{.items[0].metadata.name}")
kubectl --namespace prometheus port-forward $POD_NAME 3000
```

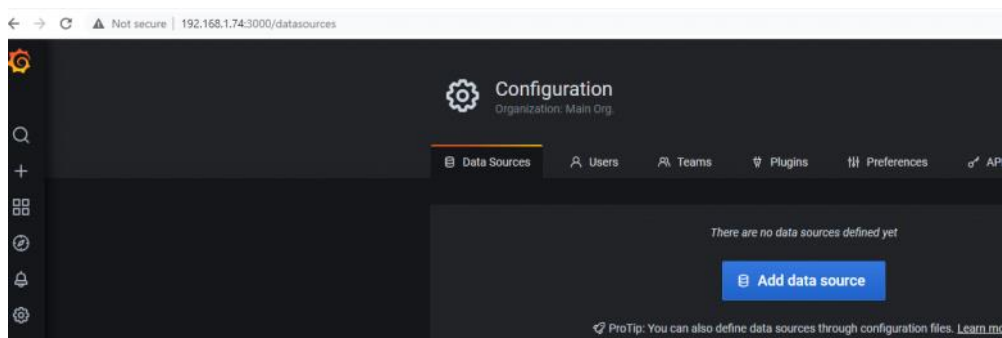
3. Login with the password from step 1 and the username: admin


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Configure your Dashboard

- 1) **Login to Prometheus UI**
- 2) **Login to Grafana UI**

- 1) Go to the settings - and Prometheus as datasource





Data Sources / Prometheus

Type: Prometheus

Settings

Dashboards

Name

Prometheus

Default

☒

HTTP

URL

http://192.168.1.74:9090

Access

Server (default)


Help >

Whitelisted Cookies

Add Name

Add

Add dashboard stats:






Data Sources / Prometheus

Type: Prometheus

Settings

Dashboards

Prometheus Stats	Re-import	
Prometheus 2.0 Stats	Re-import	
Grafana metrics	Re-import	

Go to Dashboard and check Prometheus stats:

Containers Count:

Memory Limit:

`sum(kube_pod_container_resource_limits_memory_bytes/1024/1024) by (namespace)`

`kube_pod_container_resource_limits_memory_bytes/1024/1024`

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Metrics

container_cpu_load_average_10s

Many time series results returned. Consider aggregating with sum().

Legend

⌵

legend format

Min step

⌵

Resolution

1/1

```
sum(rate(container_cpu_usage_seconds_total{container_name!=""}["5m"])
```