```
kevunlin23@Wdevice50:~$ helm install prometheus prometheus-community/prometheus
NAME: prometheus
LAST DEPLOYED: Mon Feb  5 18:37:04 2024
NAMESPACE: default
STATUS: deployed
REVISION: 1
TEST SUITE: None
NOTES:
The Prometheus server can be accessed via port 80 on the following DNS name from within your cluster:
prometheus-server.default.svc.cluster.local


Get the Prometheus server URL by running these commands in the same shell:
  export POD_NAME=$(kubectl get pods --namespace default -l "app.kubernetes.io/name=prometheus,app.kub
ernetes.io/instance=prometheus" -o jsonpath="{.items[0].metadata.name}")
  kubectl --namespace default port-forward $POD_NAME 9090


The Prometheus alertmanager can be accessed via port 9093 on the following DNS name from within your c
luster:
prometheus-alertmanager.default.svc.cluster.local


Get the Alertmanager URL by running these commands in the same shell:
  export POD_NAME=$(kubectl get pods --namespace default -l "app.kubernetes.io/name=alertmanager,app.k
ubernetes.io/instance=prometheus" -o jsonpath="{.items[0].metadata.name}")
  kubectl --namespace default port-forward $POD_NAME 9093
#################################################################################
######   WARNING: Pod Security Policy has been disabled by default since    #####
######            it deprecated after k8s 1.25+. use                        #####
######            (index .Values "prometheus-node-exporter" "rbac"          #####
###### .          "pspEnabled") with (index .Values                         #####
######            "prometheus-node-exporter" "rbac" "pspAnnotations")       #####
######            in case you still need it.                                #####
#################################################################################


The Prometheus PushGateway can be accessed via port 9091 on the following DNS name from within your cl
uster:
prometheus-prometheus-pushgateway.default.svc.cluster.local


Get the PushGateway URL by running these commands in the same shell:
  export POD_NAME=$(kubectl get pods --namespace default -l "app=prometheus-pushgateway,component=push
gateway" -o jsonpath="{.items[0].metadata.name}")
  kubectl --namespace default port-forward $POD_NAME 9091

For more information on running Prometheus, visit:
https://prometheus.io/
kevunlin23@Wdevice50:~$
```

```
kevunlin23@Wdevice50:~$ kubectl get pods
NAME                                          READY   STATUS    RESTARTS        AGE
dapp-57c46fd67f-jrvt8                         1/1     Running   1 (9m53s ago)   6d20h
ganache-67d6c69959-5k57d                      1/1     Running   1 (9m53s ago)   6d20h
mongodb-stateful-set-0                        1/1     Running   2 (9m53s ago)   12d
mongodb-stateful-set-1                        1/1     Running   2 (9m53s ago)   12d
nginx-deployment-584fbb974d-5jw5k             1/1     Running   2 (9m53s ago)   12d
nginx-deployment-584fbb974d-kjp8m             1/1     Running   2 (9m53s ago)   12d
nginx-deployment-584fbb974d-lkqqz             1/1     Running   2 (9m53s ago)   12d
nginx-mlc6k                                   1/1     Running   2 (9m53s ago)   12d
note-deployment-74cc946cd8-nbtvd              1/1     Running   3 (9m53s ago)   12d
note-deployment-74cc946cd8-zwflf              1/1     Running   3 (9m53s ago)   12d
note-server-deployment-6fb5fcb67f-s2jvg       1/1     Running   3 (6m9s ago)    12d
note-server-deployment-6fb5fcb67f-xxvqn       1/1     Running   3 (6m9s ago)    12d
prometheus-alertmanager-0                     1/1     Running   0               7m17s
prometheus-kube-state-metrics-745b475957-4khmj   1/1     Running   0               7m17s
prometheus-prometheus-node-exporter-n5lql     1/1     Running   0               7m17s
prometheus-prometheus-pushgateway-6ccd698d79-jqx7r   1/1     Running   0               7m17s
prometheus-server-5c99dfc547-9d6x5            2/2     Running   0               7m17s
react-856b8f94df-5ncqq                        1/1     Running   1 (9m53s ago)   6d20h
web-0                                         0/1     Pending   0               12d
kevunlin23@Wdevice50:~$ kubectl get svc
NAME                                TYPE           CLUSTER-IP       EXTERNAL-IP   PORT(S)          A
GE
dapp                                ClusterIP      10.108.14.69     <none>        4000/TCP         6
d20h
ganache                             ClusterIP      10.104.93.164    <none>        8545/TCP         6
d20h
kubernetes                          ClusterIP      10.96.0.1        <none>        443/TCP          1
2d
mongodb-service                     ClusterIP      10.96.167.153    <none>        27017/TCP        1
2d
note-server-service                 ClusterIP      10.96.242.96     <none>        5000/TCP         1
2d
note-service                        LoadBalancer   10.100.23.119    <pending>     3000:31680/TCP   1
2d
prometheus-alertmanager             ClusterIP      10.98.150.126    <none>        9093/TCP         7
m56s
prometheus-alertmanager-headless    ClusterIP      None             <none>        9093/TCP         7
m56s
prometheus-kube-state-metrics       ClusterIP      10.108.124.135   <none>        8080/TCP         7
m56s
prometheus-prometheus-node-exporter   ClusterIP      10.103.97.146    <none>        9100/TCP         7
m56s
prometheus-prometheus-pushgateway   ClusterIP      10.108.146.77    <none>        9091/TCP         7
m56s
prometheus-server                   ClusterIP      10.107.54.16     <none>        80/TCP           7
m56s
react                               ClusterIP      10.96.44.254     <none>        3000/TCP         6
d20h
kevunlin23@Wdevice50:~$
```

```
kevunlin23@Wdevice50:~$ kubectl expose service prometheus-server --type=NodePort --target-port=9090 --
name=prometheus-server-ext
service/prometheus-server-ext exposed
kevunlin23@Wdevice50:~$ kubectl get svc
NAME                                TYPE           CLUSTER-IP       EXTERNAL-IP   PORT(S)          A
GE
dapp                                ClusterIP      10.108.14.69     <none>        4000/TCP         6
d21h
ganache                             ClusterIP      10.104.93.164    <none>        8545/TCP         6
d20h
kubernetes                          ClusterIP      10.96.0.1        <none>        443/TCP          1
2d
mongodb-service                     ClusterIP      10.96.167.153    <none>        27017/TCP        1
2d
note-server-service                 ClusterIP      10.96.242.96     <none>        5000/TCP         1
2d
note-service                        LoadBalancer   10.100.23.119    <pending>     3000:31680/TCP   1
2d
prometheus-alertmanager             ClusterIP      10.98.150.126    <none>        9093/TCP         9
m10s
prometheus-alertmanager-headless    ClusterIP      None             <none>        9093/TCP         9
m10s
prometheus-kube-state-metrics       ClusterIP      10.108.124.135   <none>        8080/TCP         9
m10s
prometheus-prometheus-node-exporter ClusterIP      10.103.97.146    <none>        9100/TCP         9
m10s
prometheus-prometheus-pushgateway   ClusterIP      10.108.146.77    <none>        9091/TCP         9
m10s
prometheus-server                   ClusterIP      10.107.54.16     <none>        80/TCP           9
m10s
prometheus-server-ext               NodePort       10.108.60.20     <none>        80:31438/TCP     1
4s
react                               ClusterIP      10.96.44.254     <none>        3000/TCP         6
d20h
kevunlin23@Wdevice50:~$
```

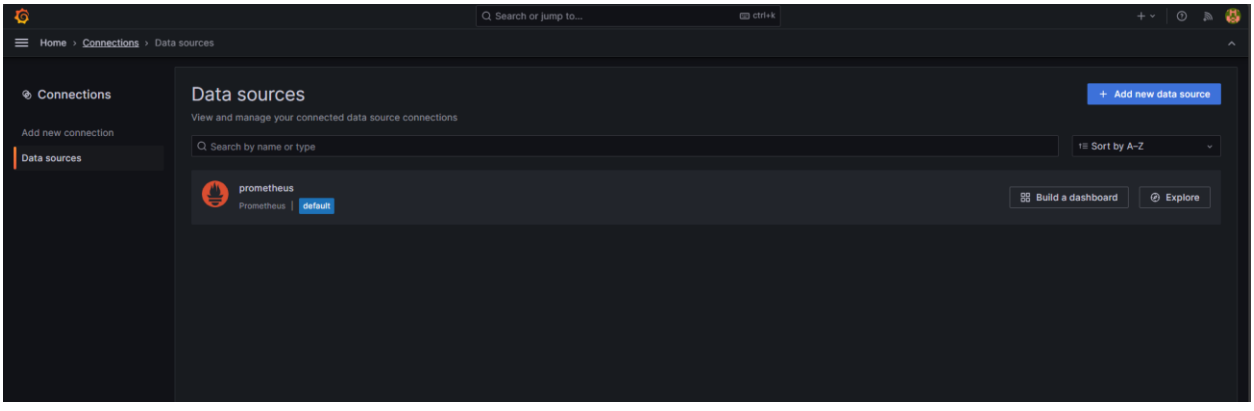
```
kevunlin23@Wdevice50:~$ minikube ip
192.168.49.2
kevunlin23@Wdevice50:~$
```

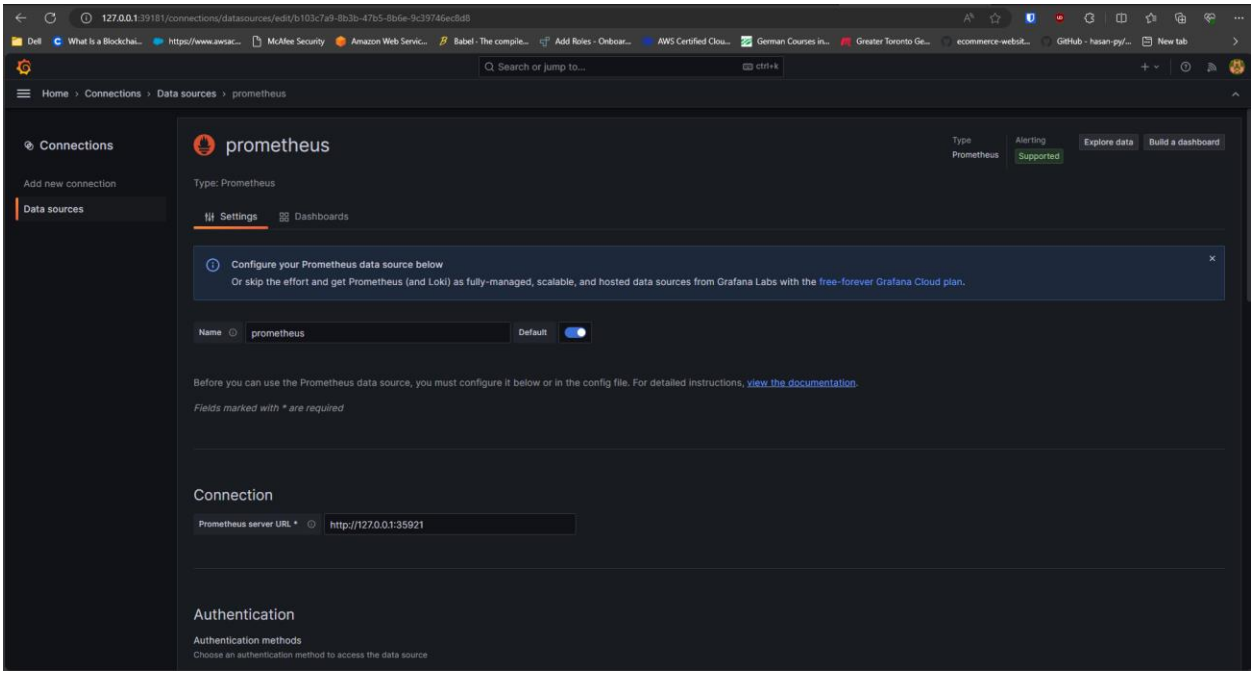
INSTALL GRAFANA

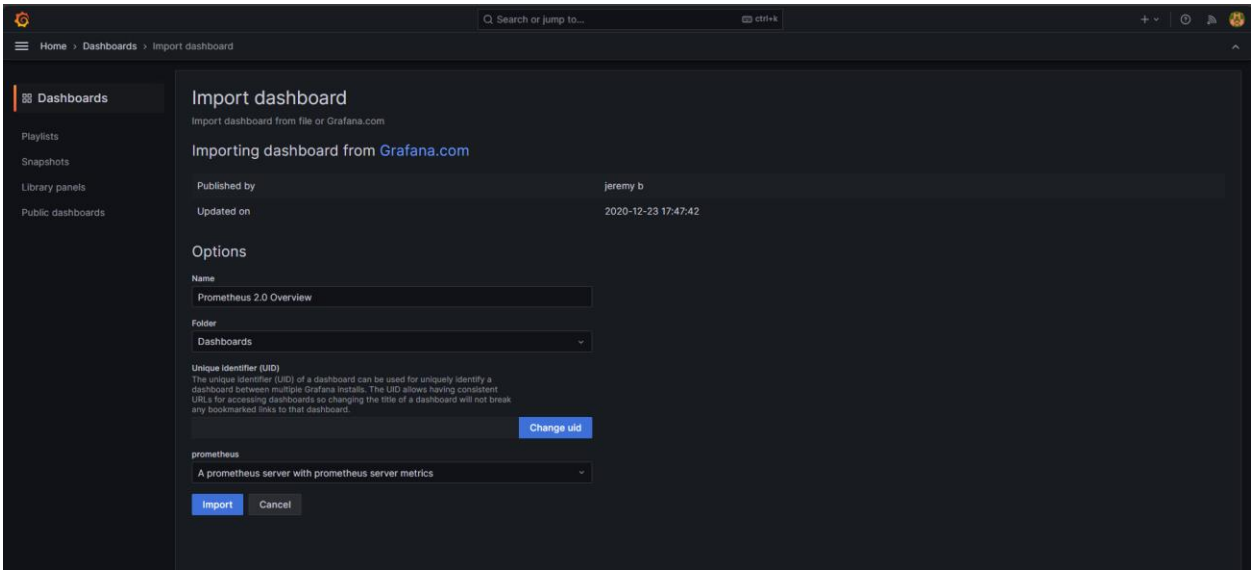
```
kevunlin23@Wdevice50:~$ helm repo add grafana https://grafana.github.io/helm-charts
"grafana" has been added to your repositories
kevunlin23@Wdevice50:~$ helm repo update
Hang tight while we grab the latest from your chart repositories...
...Successfully got an update from the "grafana" chart repository
...Successfully got an update from the "prometheus-community" chart repository
Update Complete. ⎈Happy Helming!⎈
kevunlin23@Wdevice50:~$ helm install grafana grafana/grafana
NAME: grafana
LAST DEPLOYED: Mon Feb  5 18:51:50 2024
NAMESPACE: default
STATUS: deployed
REVISION: 1
NOTES:
1. Get your 'admin' user password by running:

   kubectl get secret --namespace default grafana -o jsonpath="{.data.admin-password}" | base64 --deco
de ; echo


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

   grafana.default.svc.cluster.local

   Get the Grafana URL to visit by running these commands in the same shell:
     export POD_NAME=$(kubectl get pods --namespace default -l "app.kubernetes.io/name=grafana,app.kub
ernetes.io/instance=grafana" -o jsonpath="{.items[0].metadata.name}")
     kubectl --namespace default port-forward $POD_NAME 3000

3. Login with the password from step 1 and the username: admin
#################################################################################
######   WARNING: Persistence is disabled!!! You will lose your data when   #####
######            the Grafana pod is terminated.                            #####
#################################################################################
kevunlin23@Wdevice50:~$ kubectl expose service grafana --type=NodePort --target-port=3000  --name=graf
ana-ext
service/grafana-ext exposed
kevunlin23@Wdevice50:~$
```

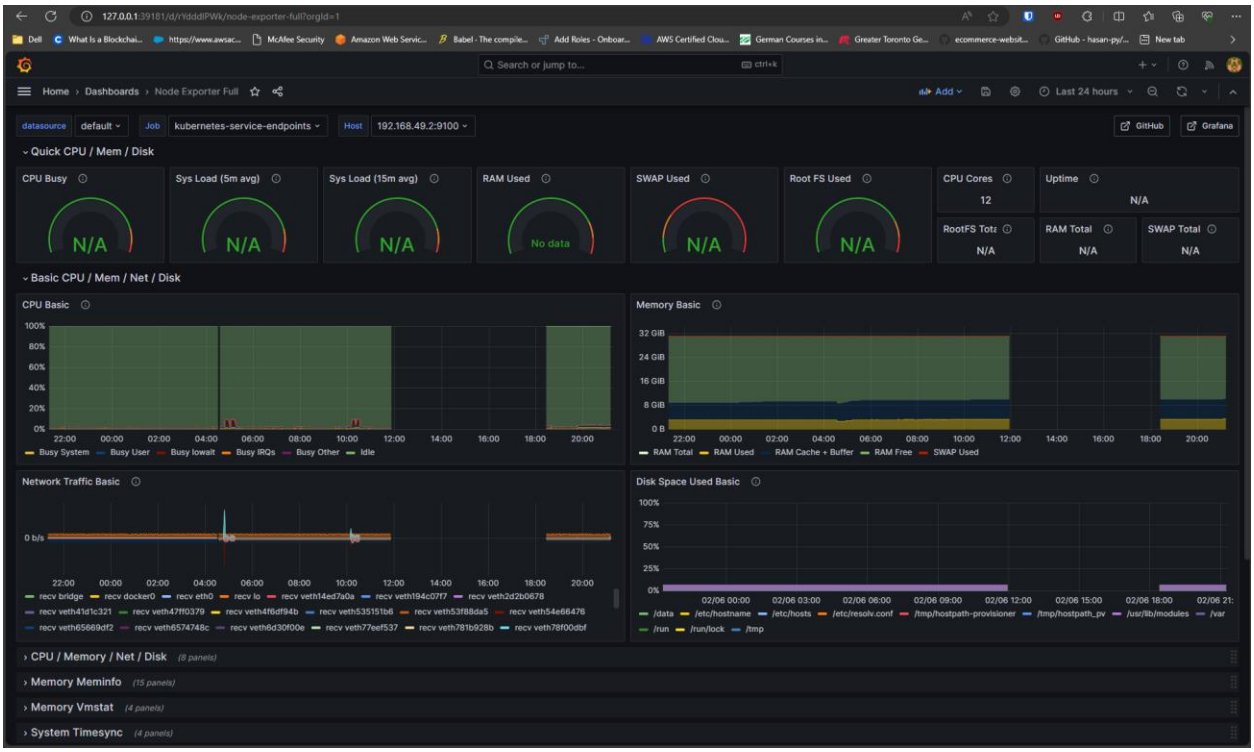
```
kevunlin23@Wdevice50:~$ kubectl get secret --namespace default grafana -o jsonpath="{.data.admin-passw
ord}" | base64 --decode ; echo
bgdFE0hkggueu5hcYa3TOmPewIwXy2c6Z72YDT1W
kevunlin23@Wdevice50:~$
```

```
kevunlin23@Wdevice50:~$ minikube service list
|-------------|---------------------------------------|--------------|-----|
|  NAMESPACE  |                 NAME                  | TARGET PORT  | URL |
|-------------|---------------------------------------|--------------|-----|
| default     | dapp                                  | No node port |     |
| default     | ganache                               | No node port |     |
| default     | grafana                               | No node port |     |
| default     | grafana-ext                           |           80 |     |
| default     | kubernetes                            | No node port |     |
| default     | mongodb-service                       | No node port |     |
| default     | note-server-service                   | No node port |     |
| default     | note-service                          |         3000 |     |
| default     | prometheus-alertmanager               | No node port |     |
| default     | prometheus-alertmanager-headless      | No node port |     |
| default     | prometheus-kube-state-metrics         | No node port |     |
| default     | prometheus-prometheus-node-exporter   | No node port |     |
| default     | prometheus-prometheus-pushgateway     | No node port |     |
| default     | prometheus-server                     | No node port |     |
| default     | prometheus-server-ext                 |           80 |     |
| default     | react                                 | No node port |     |
| kube-system | kube-dns                              | No node port |     |
|-------------|---------------------------------------|--------------|-----|
kevunlin23@Wdevice50:~$ minikube service grafana-ext
|-----------|-------------|-------------|--------------------------|
| NAMESPACE |    NAME     | TARGET PORT |           URL            |
|-----------|-------------|-------------|--------------------------|
| default   | grafana-ext |          80 | http://192.168.49.2:30653 |
|-----------|-------------|-------------|--------------------------|
🏃  Starting tunnel for service grafana-ext.
|-----------|-------------|-------------|------------------------|
| NAMESPACE |    NAME     | TARGET PORT |          URL           |
|-----------|-------------|-------------|------------------------|
| default   | grafana-ext |             | http://127.0.0.1:39181 |
|-----------|-------------|-------------|------------------------|
🎉  Opening service default/grafana-ext in default browser...
👉  http://127.0.0.1:39181
❗  Because you are using a Docker driver on linux, the terminal needs to be open to run it.
```




127.0.0.1:39181/connections/datasources/edit/b103c7a9-8b3b-47b5-8b6e-9c39746ec8d8
Search or jump to...
Home › Connections › Data sources › prometheus
Connections
Add new connection
Data sources
prometheus
Type: Prometheus
Type
Prometheus
Alerting
Supported
Explore data
Build a dashboard
Settings
Dashboards
Configure your Prometheus data source below
Or skip the effort and get Prometheus (and Loki) as fully-managed, scalable, and hosted data sources from Grafana Labs with the free-forever Grafana Cloud plan.
Name
prometheus
Default
Before you can use the Prometheus data source, you must configure it below or in the config file. For detailed instructions, view the documentation.
Fields marked with * are required
Connection
Prometheus server URL *
http://127.0.0.1:35921
Authentication
Authentication methods
Choose an authentication method to access the data source


Search or jump to...
Home › Dashboards › Import dashboard
Dashboards
Playlists
Snapshots
Library panels
Public dashboards
Import dashboard
Import dashboard from file or Grafana.com
Importing dashboard from Grafana.com
Published by
jeremy b
Updated on
2020-12-23 17:47:42
Options
Name
Prometheus 2.0 Overview
Folder
Dashboards
Unique identifier (UID)
The unique identifier (UID) of a dashboard can be used for uniquely identify a dashboard between multiple Grafana installs. The UID allows having consistent URLs for accessing dashboards so changing the title of a dashboard will not break any bookmarked links to that dashboard.
Change uid
prometheus
A prometheus server with prometheus server metrics
Import
Cancel


127.0.0.1:39181/d/rYdddlPWk/node-exporter-full?orgId=1
Home › Dashboards › Node Exporter Full
Add
Last 24 hours
datasource
default
Job
kubernetes-service-endpoints
Host
192.168.49.2:9100
GitHub
Grafana
Quick CPU / Mem / Disk
CPU Busy
N/A
Sys Load (5m avg)
N/A
Sys Load (15m avg)
N/A
RAM Used
No data
SWAP Used
N/A
Root FS Used
N/A
CPU Cores
12
Uptime
N/A
RootFS Tota
N/A
RAM Total
N/A
SWAP Total
N/A
Basic CPU / Mem / Net / Disk
CPU Basic
Busy System
Busy User
Busy Iowait
Busy IRQs
Busy Other
Idle
Memory Basic
RAM Total
RAM Used
RAM Cache + Buffer
RAM Free
SWAP Used
Network Traffic Basic
Disk Space Used Basic
/data
/etc/hostname
/etc/hosts
/etc/resolv.conf
/tmp/hostpath-provisioner
/tmp/hostpath_pv
/usr/lib/modules
/var
/run
/run/lock
/tmp
CPU / Memory / Net / Disk (8 panels)
Memory Meminfo (15 panels)
Memory Vmstat (4 panels)
System Timesync (4 panels)