Install Helm using brew

```
BTC4I:~$ brew install helm
   Auto-updating Homebrew...
djust how often this is run with HOMEBREW_AUTO_UPDATE_SECS or disable with
OMEBREW_NO_AUTO_UPDATE. Hide these hints with HOMEBREW_NO_ENV_HINTS (see 'man brew').
 Homebrew collects anonymous analytics.
lead the analytics documentation (and how to opt-out) here:
https://docs.brew.sh/Analytics
lo analytics have been recorded yet (nor will be during this 'brew' run).
 Homebrew is run entirely by unpaid volunteers. Please consider donating:
https://github.com/Homebrew/brew#donations
   Auto-updated Homebrew!
pdated 2 taps (homebrew/core and homebrew/cask).
 > New Formulae
                        jsontoolkit
libvirt-python
                                                                           pedump
span-lite
pache-flink-cdc
                                                                                                    vedic
                                                 nvtop
ocicl
loudflare-cli4
aproxy@2.8
                                                                           stripe-cli
                        llama.cpp
                                                 openfa
 New Casks
ias-fx
                              font-playwrite-au-vic
                                                              font-playwrite-in
                                                                                              font-playwrite-us-trad
litz-gg
                               font-playwrite-ca
                                                              font-playwrite-it-moderna
                                                                                              font-playwrite-za
                                                              font-playwrite-it-trad
                                                                                              hopper-disassembler
anon-ufrii-driver
                              font-playwrite-de-la
                                                              font-playwrite-mx
ore-tunnel
                              font-playwrite-es
                                                                                              mac-mouse-fix@2
                              font-playwrite-es-deco
                                                              font-playwrite-ng-modern
ont-playwrite-au-nsw
                                                                                              nessus
ont-playwrite-au-qld
                                                              font-playwrite-nz
                              font-playwrite-fr-moderne
ont-playwrite-au-sa
                              font-playwrite-id
                                                              font-playwrite-tz
ont-playwrite-au-tas
                              font-playwrite-ie
                                                              font-playwrite-us-modern
```

Helm version

```
hafelago@DESKTOP-208TC4I:~$ helm version
version.BuildInfo{Version:"v3.15.1", GitCommit:"e211f2aa62992bd72586b395de50979e31231829", GitTreeState:"clean", GoVersi
on:"go1.22.3"}
hafelago@DESKTOP-208TC4I:~$
```

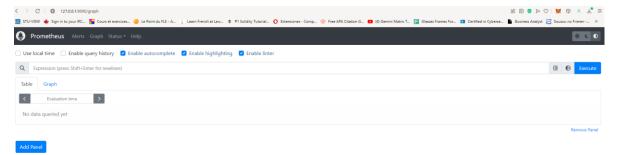
Install prometheus

```
nafelago@DESKTOP-208TC4I:~$ helm repo add prometheus-community https://prometheus-community.github.io/helm-charts
'prometheus-community" already exists with the same configuration, skipping
nafelago@DESKTOP-208TC4I:~$ helm install my-prometheus prometheus-community/prometheus --version 25.21.0
```

```
NAME: my-prometheus
LAST DEPLOYED: Sat Jun 1 14:20:32 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:
my-prometheus-server.default.svc.cluster.local
```

```
1/1
1/1
1/1
1/1
1/1
2/2
                                                                                                                                Running
Running
Running
Running
poormy prometheus-tudes the manager-o
pod/my-prometheus-kube-state-metrics-586d9754b8-67gsk
pod/my-prometheus-prometheus-node-exporter-7rfw5
pod/my-prometheus-prometheus-pushgateway-54b7f4fd4c-pbvcp
pod/my-prometheus-server-56dc5c5fbd-dhmvj
                                                                                           PORT(S)
443/TCP
9093/TCP
9093/TCP
8080/TCP
9100/TCP
9091/TCP
80/TCP
                                                                                                                                                   EXTERNAL-IP
service/kubernetes
service/my-prometheus-alertmanager
service/my-prometheus-alertmanager-headless
service/my-prometheus-kube-state-metrics
service/my-prometheus-prometheus-node-exporter
service/my-prometheus-prometheus-pushgateway
service/my-prometheus-server
NAME
daemonset.apps/my-prometheus-prometheus-node-exporter
                                                                                                        NAME
deployment.apps/my-prometheus-kube-state-metrics
deployment.apps/my-prometheus-prometheus-pushgateway
deployment.apps/my-prometheus-server
                                                                                                       READY
                                                                                                                     UP-TO-DATE AVAILABLE
                                                                                                                            DESIRED CURRENT READY
nond.
replicaset.apps/my-prometheus-kube-state-metrics-586d9754b8
replicaset.apps/my-prometheus-prometheus-pushgateway-54b7f4fd4c
replicaset.apps/my-prometheus-server-56dc5c5fbd
NAME READY AGE statefulset.apps/my-prometheus-alertmanager 1/1 4m40s
                                              4I:~$ helm ls --all-namespaces
ACE REVISION UPD/
NAME NAMESPACE
my-prometheus default
hafelago@DESKTOP-208TC41:~$
                                                                                                                                                                                                                  CHART
                                                                                                                                                                                                                                                                   APP VERSION
                                                                                                 2024-06-01 14:20:32.231965846 -0400 EDT deployed
                                                                                                                                                                                                                  prometheus-25.21.0
```

prometheus



```
-208TC4I:~$ kubectl get services --namespace default
NAME
                                                        CLUSTER-IP
                                                                          EXTERNAL-IP
                                                                                         PORT(S)
                                                                                                     AGE
                                           TYPE
                                           ClusterIP
                                                                                         443/TCP
9093/TCP
kubernetes
                                                        10.96.0.1
                                                                                                     74m
                                                                          <none>
my-prometheus-alertmanager
                                           ClusterIP
                                                        10.104.226.142
                                                                          <none>
                                                                                                     17m
my-prometheus-alertmanager-headless
my-prometheus-kube-state-metrics
                                           ClusterIP
                                                                                         9093/TCP
                                                                                                     17m
                                                        None
                                                                          <none>
                                           ClusterIP
                                                        10.106.240.161
                                                                          <none>
                                                                                         8080/TCP
                                                                                                     17m
my-prometheus-prometheus-node-exporter
                                           ClusterIP
                                                        10.104.136.74
                                                                                         9100/TCP
                                                                                                     17m
                                                                          <none>
my-prometheus-prometheus-pushgateway
                                           ClusterIP
                                                        10.102.87.29
                                                                                         9091/TCP
my-prometheus-server
                                           ClusterIP
                                                       10.111.74.254
                                                                          <none>
                                                                                         80/TCP
                                                                                                     17m
    lago@DESKTOP-208TC4I:~$ kubectl expose service my-prometheus-server --type=NodePort --target-port=9090 --name=promet
eus-server-ext
service/prometheus-server-ext exposed
```

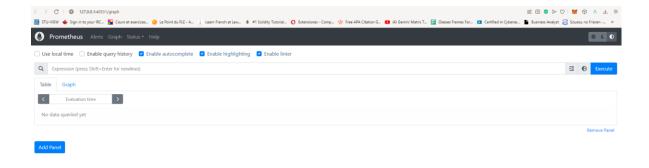
Check the service

```
(TOP-208TC4I:~$ kubectl expose service my-prometheus-server --type=NodePort --target-port=9090 --name=prome
heus-server-ext
service/prometheus-server-ext exposed
hafelago@DESKTOP-208TC4I:~$ kubectl get svc
NAME
                                          TYPE
                                                                       EXTERNAL-IP
                                                      CLUSTER-IP
                                                                                      PORT(S)
                                                                                                     AGE
                                         ClusterIP
kubernetes
                                                      10.96.0.1
                                                                       <none>
                                                                                      443/TCP
                                                                                                     76m
                                                      10.104.226.142
my-prometheus-alertmanager
                                                                                      9093/TCP
                                         ClusterIP
                                                                       <none>
                                                                                                     18m
my-prometheus-alertmanager-headless
                                         ClusterIP
                                                      None
                                                                       <none>
                                                                                      9093/TCP
                                                                                                     18m
                                                      10.106.240.161
my-prometheus-kube-state-metrics
                                         ClusterIP
                                                                                      8080/TCP
                                                                       <none>
                                                                                                     18m
                                                      10.104.136.74
my-prometheus-prometheus-node-exporter
                                         ClusterIP
                                                                                      9100/TCP
                                                                       <none>
                                                                                                     18m
                                                      10.102.87.29
10.111.74.254
my-prometheus-prometheus-pushgateway
                                         ClusterIP
                                                                                      9091/TCP
                                                                       <none>
                                                                                                     18m
my-prometheus-server
                                         ClusterIP
                                                                       <none>
                                                                                      80/TCP
                                                                                                     18m
                                                                                      80:30183/TCP
                                                      10.100.111.92
prometheus-server-ext
                                         NodePort
                                                                       <none>
                                                                                                     73s
 nafelago@DESKTOP-208TC4I:~$
```

Minikube IP

```
hafelago@DESKTOP-208TC4I:~$ minikube ip
192.168.49.2
hafelago@DESKTOP-208TC4I:~$
```

Prometheus Server



Grafana

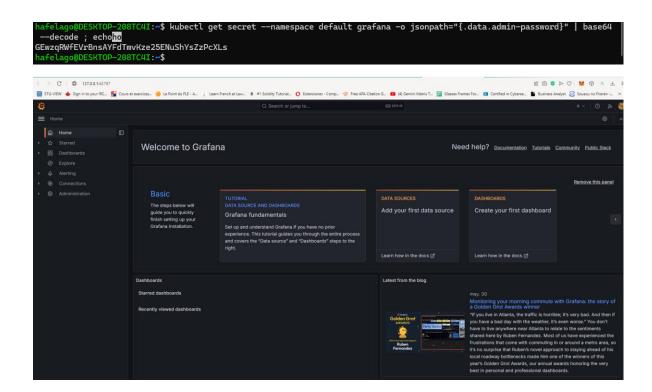
```
Name Language STOTO-2007CII:-$ helm repo add grafana https://grafana.github.io/helm-charts
'grafana' has been added to your repositories
'has Language STOTO-2007CII:-$ helm repo list

norm and promotheus-community

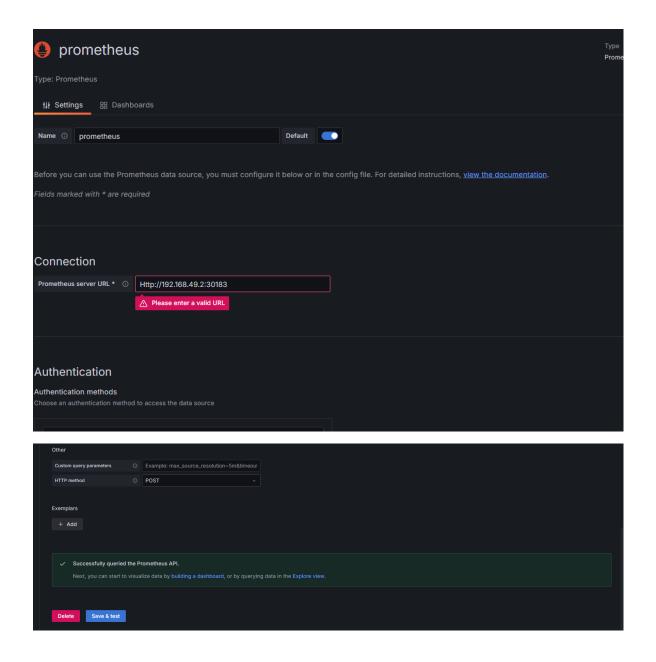
promo
```

hafelago@DESKTOP-208TC4I:~\$ kubectl get svc					
NAME	TYPE	CLUSTER-IP	EXTERNAL-IP	PORT(S)	AGE
grafana	ClusterIP	10.96.173.78	<none></none>	80/TCP	3m55s
grafana-ext	NodePort	10.111.75.114	<none></none>	80:31664/TCP	10s
kubernetes	ClusterIP	10.96.0.1	<none></none>	443/TCP	157m
my-prometheus-alertmanager	ClusterIP	10.104.226.142	<none></none>	9093/TCP	99m
my-prometheus-alertmanager-headless	ClusterIP	None	<none></none>	9093/TCP	99m
my-prometheus-kube-state-metrics	ClusterIP	10.106.240.161	<none></none>	8080/TCP	99m
my-prometheus-prometheus-node-exporter	ClusterIP	10.104.136.74	<none></none>	9100/TCP	99m
my-prometheus-prometheus-pushgateway	ClusterIP	10.102.87.29	<none></none>	9091/TCP	99m
my-prometheus-server	ClusterIP	10.111.74.254	<none></none>	80/TCP	99m
prometheus-server-ext	NodePort	10.100.111.92	<none></none>	80:30183/TCP	81m
hafelago@DESKTOP-208TC4I:~\$					

Get password



Connect Prometheus as Data source to Grafana



Graffana Dashboard using query from prometheus

