

```
~ -- kubect1 port-forward prometheus-server-5c99dfc547-42tvf 9090
divyabhamerkar@Divyas-MBP ~ % curl https://raw.githubusercontent.com/helm/helm/master/scripts/get-helm-3 | bash
% Total % Received % Xferd Average Speed Time Time Current
Dload Upload Total Spent Left Speed
100 11679 100 11679 0 0 195k 0 --:--:-- --:--:-- --:--:-- 207k
Downloading https://get.helm.sh/helm-v3.14.0-darwin-arm64.tar.gz
Verifying checksum... Done
Preparing to install helm into /usr/local/bin
Password:
helm installed into /usr/local/bin/helm
divyabhamerkar@Divyas-MBP ~ % helm repo add prometheus-community https://prometheus-community.github.io/helm-charts
"prometheus-community" has been added to your repositories
divyabhamerkar@Divyas-MBP ~ % helm repo update
Hang tight while we grab the latest from your chart repositories...
..Successfully got an update from the "prometheus-community" chart repository
Update Complete. Happy Helming!
divyabhamerkar@Divyas-MBP ~ % helm install prometheus prometheus-community/prometheus
NAME: prometheus
LAST DEPLOYED: Mon Feb 5 23:31:16 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.kubernetes.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 cluster:
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.kubernetes.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 cluster:
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=pushgateway" -o jsonpath="{.items[0].metadata.name}")
kubectl --namespace default port-forward $POD_NAME 9091

For more information on running Prometheus, visit:
https://prometheus.io/
divyabhamerkar@Divyas-MBP ~ % kubectl expose service prometheus-server --type=NodePort --target-port=9090 --name=prometheus-server-ext
service/prometheus-server-ext exposed
```

```
~ -- kubect1 port-forward prometheus-server-5c99dfc547-42tvf 9090
divyabhamerkar@Divyas-MBP ~ % helm repo add prometheus-community https://prometheus-community.github.io/helm-charts
"prometheus-community" has been added to your repositories
divyabhamerkar@Divyas-MBP ~ % helm repo update
Hang tight while we grab the latest from your chart repositories...
..Successfully got an update from the "prometheus-community" chart repository
Update Complete. Happy Helming!
divyabhamerkar@Divyas-MBP ~ % helm install prometheus prometheus-community/prometheus
NAME: prometheus
LAST DEPLOYED: Mon Feb 5 23:31:16 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.kubernetes.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 cluster:
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.kubernetes.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 cluster:
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=pushgateway" -o jsonpath="{.items[0].metadata.name}")
kubectl --namespace default port-forward $POD_NAME 9091

For more information on running Prometheus, visit:
https://prometheus.io/
divyabhamerkar@Divyas-MBP ~ % kubectl expose service prometheus-server --type=NodePort --target-port=9090 --name=prometheus-server-ext
service/prometheus-server-ext exposed
divyabhamerkar@Divyas-MBP ~ % kubectl port-forward prometheus-server-5c99dfc547-ntnfh 9090
Error from server (NotFound): pods "prometheus-server-5c99dfc547-ntnfh" not found
divyabhamerkar@Divyas-MBP ~ % kubectl port-forward prometheus-server-5c99dfc547-42tvf 9090
forwarding from 127.0.0.1:9090 -> 9090
Forwarding from [::]:9090 -> 9090
Handling connection for 9090
Handling connection for 9090
Handling connection for 9090
```

```
Last login: Mon Feb 5 23:24:16 on tty012
divyabhamerkar@Divyas-MBP ~ % helm repo add grafana https://grafana.github.io/helm-charts
"grafana" has been added to your repositories
divyabhamerkar@Divyas-MBP ~ % 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!
divyabhamerkar@Divyas-MBP ~ % helm install grafana grafana/grafana
NAME: grafana
LAST DEPLOYED: Mon Feb 5 23:33:20 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 --decode ; 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.kubernetes.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. #####
#####
divyabhamerkar@Divyas-MBP ~ % kubectl get pods
NAME                                READY   STATUS    RESTARTS   AGE
grafana-68d649cb58-tkmaq             1/1     Running   0           15s
prometheus-alertmanager-0            1/1     Running   0           2m18s
prometheus-kube-state-metrics-745b47967-6rvjn  1/1     Running   0           2m18s
prometheus-prometheus-node-exporter-zmrf7  1/1     Running   0           2m18s
prometheus-prometheus-pushgateway-6ccd698d79-f4hc6  1/1     Running   0           2m18s
prometheus-server-5c99dfc547-42tvf     2/2     Running   0           2m18s
divyabhamerkar@Divyas-MBP ~ % kubectl get svc
NAME                                TYPE           CLUSTER-IP      EXTERNAL-IP    PORT(S)          AGE
grafana                            ClusterIP      10.101.250.10   <none>         80/TCP           30s
kubernetes                         ClusterIP      10.96.0.1       <none>         443/TCP          5m6s
prometheus-alertmanager            ClusterIP      10.103.98.211   <none>         9093/TCP         2m33s
prometheus-alertmanager-headless   ClusterIP      None            <none>         9093/TCP         2m33s
prometheus-kube-state-metrics      ClusterIP      10.96.98.122    <none>         8080/TCP         2m33s
prometheus-prometheus-node-exporter ClusterIP      10.100.168.244   <none>         9100/TCP         2m33s
prometheus-prometheus-pushgateway  ClusterIP      10.99.30.198     <none>         9091/TCP         2m33s
prometheus-server                  ClusterIP      10.105.92.222    <none>         80/TCP           2m33s
divyabhamerkar@Divyas-MBP ~ % kubectl expose service grafana --type=NodePort --target-port=3000 --name=grafana-ext
service/grafana-ext exposed
divyabhamerkar@Divyas-MBP ~ % kubectl get secret --namespace default grafana -o jsonpath="{.data.admin-password}" | base64 --decode ;}"
dquote>
dquote>
divyabhamerkar@Divyas-MBP ~ % kubectl get secret --namespace default grafana -o jsonpath="{.data.admin-password}" | base64 --decode ;}"
dquote>
divyabhamerkar@Divyas-MBP ~ % kubectl get secret --namespace default grafana -o jsonpath="{.data.admin-password}" | base64 --decode
WfJlqIF9Nss3Nhc0LEFZcdSUIfapY9ASl4FXu0
divyabhamerkar@Divyas-MBP ~ % kubectl port-forward grafana-68d649cb58-tkmaq 3000
Forwarding from 127.0.0.1:3000 -> 3000
```

```
-- kubectl port-forward prometheus-server-5c99dfc547-42tvf 9090
-- kubectl port-forward prometheus-alertmanager-0 9093

Last login: Mon Feb 5 23:31:59 on tty013
divyabhamerkar@Divyas-MBP ~ % kubectl port-forward prometheus-alertmanager-0 9093
Forwarding from 127.0.0.1:9093 -> 9093
Forwarding from [::]:9093 -> 9093
Handling connection for 9093
Handling connection for 9093
Handling connection for 9093
Handling connection for 9093
Handling connection for 9093

```

Lab 5 - Monitoring (11) WhatsApp Chat | Vite fabric - npm How to Install ChatGPT Grafana Prometheus Alertmanager

localhost:9090/graph?g0.expr=&g0.tab=1&g0.display\_mode=lines&g0.show\_exemplars=0&g0.range\_input=1h

Prometheus Alerts Graph Status Help

Use local time

Enable query history

Enable autocomplete

Enable highlighting

Enable linter

Q

Expression (press Shift+Enter for newlines)

Execute

Table

Graph

<

Evaluation time

>

No data queried yet

Remove Panel

Add Panel

teams.microsoft.com is sh

