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● wahajhaider@Wahajs-MacBook-Pro ~ % cd Lab5
● wahajhaider@Wahajs-MacBook-Pro Lab5 % curl -fsSL -o get_helm.sh https://raw.githubusercontent.com/helm/helm/main/scripts/get-helm-3
chmod 700 get_helm.sh
./get_helm.sh
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
● wahajhaider@Wahajs-MacBook-Pro Lab5 % helm repo update
Error: no repositories found. You must add one before updating
● wahajhaider@Wahajs-MacBook-Pro Lab5 % helm repo add prometheus-community https://prometheus-community.github.io/helm-charts
"prometheus-community" has been added to your repositories
● wahajhaider@Wahajs-MacBook-Pro Lab5 % 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 Helm-ing!
● wahajhaider@Wahajs-MacBook-Pro Lab5 % helm install prometheus prometheus-community/prometheus
NAME: prometheus
LAST DEPLOYED: Mon Feb  5 22:39:10 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 json
path=".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 js
onpath=".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=$(kubectl get pods --namespace default -l "app=prometheus-pushgateway,component=pushgateway" -o jsonpath=".items[0].meta
da
ta.name")
http://$POD_NAME:9091
● wahajhaider@Wahajs-MacBook-Pro Lab5 % kubectl get pods
NAME          READY   STATUS    RESTARTS   AGE
dapp-764b7d6d95-pzx76   1/1     Running   1 (4d5h ago)  10d
ganache-59894c7d87-qhb5k   1/1     Running   3 (4d5h ago)  11d
mongodb-stateful-set-0   1/1     Running   4 (4d5h ago)  18d
mongodb-stateful-set-1   1/1     Running   4 (4d5h ago)  18d
note-deployment-74cc946cd8-6kfwv   1/1     Running   7 (4d5h ago)  18d
note-deployment-74cc946cd8-22jg7   1/1     Running   8 (4d5h ago)  18d
note-server-deployment-6fb5fc67f-2gm4s   1/1     Running   4 (4d5h ago)  18d
note-server-deployment-6fb5fc67f-t5v7s   1/1     Running   5 (4d5h ago)  18d
prometheus-alertmanager-0   1/1     Running   0        3m40s
prometheus-kube-state-metrics-745b475957-d74zq   1/1     Running   0        3m40s
prometheus-prometheus-node-exporter-d6jd6   1/1     Running   0        3m40s
prometheus-prometheus-pushgateway-6cccd698d79-vgwz6   1/1     Running   0        3m40s
prometheus-server-5c99dfc547-5rmvp   2/2     Running   0        3m40s
react-79cf5f79b6-w8wj8   1/1     Running   1 (4d5h ago)  10d
● wahajhaider@Wahajs-MacBook-Pro Lab5 % kubectl delete dapp-764b7d6d95-pzx76
error: the server doesn't have a resource type "dapp-764b7d6d95-pzx76"
● wahajhaider@Wahajs-MacBook-Pro Lab5 % kubectl get svc
NAME          TYPE        CLUSTER-IP      EXTERNAL-IP      PORT(S)         AGE
dapp          ClusterIP   10.101.146.71   <none>          4000/TCP       11d
ganache       ClusterIP   10.106.143.199   <none>          8545/TCP       11d
kubernetes    ClusterIP   10.96.0.1       <none>          443/TCP        18d
mongodb-service ClusterIP   10.105.22.131   <none>          27017/TCP      18d
note-server-service ClusterIP   10.109.128.231   <none>          5000:30705/TCP  18d
note-service   LoadBalancer 10.105.98.235   <pending>      3000:30705/TCP  18d
prometheus-alertmanager ClusterIP   10.99.21.214   <none>          9093/TCP       4m23s
prometheus-alertmanager-headless ClusterIP   None           <none>          9093/TCP       4m23s
prometheus-kube-state-metrics ClusterIP   10.108.51.230   <none>          8080/TCP       4m23s
prometheus-prometheus-node-exporter ClusterIP   10.103.192.207   <none>          9100/TCP       4m23s
prometheus-prometheus-pushgateway ClusterIP   10.104.156.248   <none>          9091/TCP       4m23s
prometheus-server   ClusterIP   10.96.116.93    <none>          80/TCP         4m23s

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● TERMINAL
● wahajhaider@Wahajs-MacBook-Pro Lab5 % kubectl expose service grafana --type=NodePort --target-port=3000 --name=grafana-ext
● wahajhaider@Wahajs-MacBook-Pro Lab5 % kubectl get svc
NAME          TYPE        CLUSTER-IP   EXTERNAL-IP    PORT(S)      AGE
dapp          ClusterIP  10.101.146.71 <none>        4000/TCP    11d
ganache       ClusterIP  10.106.143.199 <none>        8545/TCP    11d
grafana        ClusterIP  10.97.39.79  <none>        80/TCP      13m
grafana-ext    NodePort    10.98.238.237 <none>        80:30858/TCP 3s
kubernetes     ClusterIP  10.96.0.1    <none>        443/TCP     18d
mongodb-service ClusterIP  10.105.22.131 <none>        27017/TCP   18d
note-server-service ClusterIP  10.109.128.231 <none>        5000/TCP    18d
note-service   LoadBalancer 10.105.98.235  <pending>    3000:30705/TCP 18d
prometheus-alertmanager ClusterIP  10.99.21.214 <none>        9093/TCP    20m
prometheus-alertmanager-headless ClusterIP  None           <none>        9093/TCP    20m
prometheus-kube-state-metrics ClusterIP  10.108.51.230 <none>        8080/TCP    20m
prometheus-prometheus-node-exporter ClusterIP  10.103.192.207 <none>        9100/TCP    20m
prometheus-prometheus-pushgateway ClusterIP  10.104.156.248 <none>        9091/TCP    20m
prometheus-server   ClusterIP  10.96.116.93  <none>        80/TCP      20m
react          LoadBalancer 10.110.202.103 <pending>    3001:31068/TCP 11d
● wahajhaider@Wahajs-MacBook-Pro Lab5 % kubectl expose service grafana --type=NodePort --target-port=3000 --name=grafana-ext
Error from server (AlreadyExists): services "grafana-ext" already exists
● wahajhaider@Wahajs-MacBook-Pro Lab5 % kubectl expose service grafana --type=NodePort --target-port=3000 --name=grafana-ext
Error from server (AlreadyExists): services "grafana-ext" already exists
● wahajhaider@Wahajs-MacBook-Pro Lab5 % kubectl expose service prometheus-server --type=NodePort --target-port=9090 --name=prometheus-server-ext
service/prometheus-server-ext exposed
● wahajhaider@Wahajs-MacBook-Pro Lab5 % kubectl get svc
NAME          TYPE        CLUSTER-IP   EXTERNAL-IP    PORT(S)      AGE
dapp          ClusterIP  10.101.146.71 <none>        4000/TCP    11d
ganache       ClusterIP  10.106.143.199 <none>        8545/TCP    11d
grafana        ClusterIP  10.97.39.79  <none>        80/TCP      14m
grafana-ext    NodePort    10.98.238.237 <none>        80:30858/TCP 59s
kubernetes     ClusterIP  10.96.0.1    <none>        443/TCP     18d
mongodb-service ClusterIP  10.105.22.131 <none>        27017/TCP   18d
note-server-service ClusterIP  10.109.128.231 <none>        5000/TCP    18d
note-service   LoadBalancer 10.105.98.235  <pending>    3000:30705/TCP 18d
prometheus-alertmanager ClusterIP  10.99.21.214 <none>        9093/TCP    21m
prometheus-alertmanager-headless ClusterIP  None           <none>        9093/TCP    21m
prometheus-kube-state-metrics ClusterIP  10.108.51.230 <none>        8080/TCP    21m
prometheus-prometheus-node-exporter ClusterIP  10.103.192.207 <none>        9100/TCP    21m
prometheus-prometheus-pushgateway ClusterIP  10.104.156.248 <none>        9091/TCP    21m
prometheus-server   ClusterIP  10.96.116.93  <none>        80/TCP      21m
prometheus-server-ext NodePort    10.99.51.244  <none>        80:31997/TCP 5s
● wahajhaider@Wahajs-MacBook-Pro Lab5 % minikube services prometheus-server-ext
Error: unknown command "services" for "minikube"

Did you mean this?
  service

Run 'minikube --help' for usage.
● wahajhaider@Wahajs-MacBook-Pro Lab5 % minikube service prometheus-server-ext
NAME          TARGET PORT   URL
default      80           http://192.168.58.2:31997

Starting tunnel for service prometheus-server-ext.
NAME          TARGET PORT   URL
default      80           http://127.0.0.1:52380

● TERMINAL
● Prometheus
  Alerts Graph Status Help
 Use local time  Enable query history  Enable autocomplete  Enable highlighting  Enable linter
 Expression (press Shift+Enter for newlines)
 Execute
 Table  Graph
 Evaluation time >
No data queried yet
 Remove Panel
 Add Panel

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