

```
kirillspitsyn@LAPTOP-VPGTN0GN: ~  
kirillspitsyn@LAPTOP-VPGTN0GN:~$ helm repo add prometheus-community https://prometheus-community.github.io/helm-charts  
"prometheus-community" has been added to your repositories  
kirillspitsyn@LAPTOP-VPGTN0GN:~$ helm repo update  
Hang tight while we grab the latest from your chart repositories...  
...Successfully got an update from the "fission-charts" chart repository  
...Successfully got an update from the "prometheus-community" chart repository  
Update Complete. 🎉Happy Helming!🎉
```

```
kirillspitsyn@LAPTOP-VPGTN0GN: ~  
kirillspitsyn@LAPTOP-VPGTN0GN:~$ helm install prometheus prometheus-community/prometheus  
NAME: prometheus  
LAST DEPLOYED: Mon Feb 5 23:04:51 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/
```


kirillspitsyn@LAPTOP-VPGTN0GN:~\$ kubectl get pods

NAME	READY	STATUS	RESTARTS	AGE
mongo-express-deployment-b88f6d45f-8cgjx	1/1	Running	5 (3m50s ago)	15d
mongodb-stateful-set-0	1/1	Running	6 (3m50s ago)	15d
mongodb-stateful-set-1	1/1	Running	6 (3m50s ago)	15d
nginx-6jk59	1/1	Running	10 (3m50s ago)	15d
nginx-deployment-596b5b4d66-4zj7d	1/1	Running	9 (3m50s ago)	15d
nginx-deployment-596b5b4d66-drp6r	1/1	Running	10 (3m50s ago)	15d
nginx-deployment-596b5b4d66-tb27w	1/1	Running	10 (3m50s ago)	15d
nginx-deployment-replica-5479df7db-6gxlk	1/1	Running	10 (3m50s ago)	15d
nginx-deployment-replica-5479df7db-9zv59	1/1	Running	10 (3m50s ago)	15d
nginx-deployment-replica-5479df7db-m29vz	1/1	Running	10 (3m50s ago)	15d
nginx-replica-6pbdw	1/1	Running	10 (3m50s ago)	15d
nginx-replica-m8pxr	1/1	Running	10 (3m50s ago)	15d
nginx-replica-zppfb	1/1	Running	10 (3m50s ago)	15d
note-deployment-74cc946cd8-c7t48	1/1	Running	8 (2m10s ago)	14d
note-deployment-74cc946cd8-mskbv	1/1	Running	12 (2m55s ago)	15d
note-server-deployment-6fb5fcb67f-dq52j	1/1	Running	8 (119s ago)	15d
note-server-deployment-6fb5fcb67f-m7rg5	1/1	Running	7 (119s ago)	15d
poolmgr-nodedemo-default-15241-5bb5d54f89-5x2wz	1/2	InvalidImageName	0	2m59s
poolmgr-nodedemo-default-15241-5bb5d54f89-8pgd8	1/2	InvalidImageName	0	2m59s
poolmgr-nodedemo-default-15241-5bb5d54f89-kl47b	1/2	InvalidImageName	0	2m59s
poolmgr-nodeenv-default-14592-c5589c69c-68p9j	1/2	InvalidImageName	0	2m59s
poolmgr-nodeenv-default-14592-c5589c69c-tp5zj	1/2	InvalidImageName	0	2m54s
poolmgr-nodeenv-default-14592-c5589c69c-twslq	1/2	InvalidImageName	0	2m54s
poolmgr-nodeenvironment-default-14844-5c9979549f-rnjtm	1/2	InvalidImageName	0	2m53s
poolmgr-nodeenvironment-default-14844-5c9979549f-skwjrr	1/2	InvalidImageName	0	2m53s
poolmgr-nodeenvironment-default-14844-5c9979549f-trqtg	1/2	InvalidImageName	0	2m54s
poolmgr-nodejs-default-10461-6dd8d48c64-2bvkp	2/2	Running	0	2m59s
poolmgr-nodejs-default-10461-6dd8d48c64-jcsz6	2/2	Running	0	2m59s
poolmgr-nodejs-default-10461-6dd8d48c64-z52g7	2/2	Running	0	2m59s
poolmgr-nodejsdemo-default-15502-68cbc48b8d-5mnl6	1/2	InvalidImageName	0	2m53s
poolmgr-nodejsdemo-default-15502-68cbc48b8d-ln78x	1/2	InvalidImageName	0	2m52s
poolmgr-nodejsdemo-default-15502-68cbc48b8d-x897q	1/2	InvalidImageName	0	2m52s
poolmgr-nodejsenv-default-13784-748bdfffb49-dhcqz	1/2	InvalidImageName	0	2m51s
poolmgr-nodejsenv-default-13784-748bdfffb49-dhljw	1/2	InvalidImageName	0	2m52s
poolmgr-nodejsenv-default-13784-748bdfffb49-k569j	1/2	InvalidImageName	0	2m51s
poolmgr-nodejsenvironment-default-14213-765b457c77-flw4x	1/2	InvalidImageName	0	2m48s
poolmgr-nodejsenvironment-default-14213-765b457c77-sb69k	1/2	InvalidImageName	0	2m48s
poolmgr-nodejsenvironment-default-14213-765b457c77-xfwnz	1/2	InvalidImageName	0	2m49s
poolmgr-nodejstest-default-15707-79494cc4f-59dmh	2/2	Running	0	2m46s
poolmgr-nodejstest-default-15707-79494cc4f-k4r5l	2/2	Running	0	2m46s
poolmgr-nodejstest-default-15707-79494cc4f-nkrd7	2/2	Running	0	2m47s
prometheus-alertmanager-0	1/1	Running	0	2m35s
prometheus-kube-state-metrics-745b475957-xhkt5	1/1	Running	0	2m39s
prometheus-prometheus-node-exporter-fx79l	1/1	Running	0	2m39s
prometheus-prometheus-pushgateway-6ccd698d79-svtcm	1/1	Running	0	2m39s
prometheus-server-5c99dfc547-bn8fc	2/2	Running	0	2m39s
web-0	1/1	Running	0	15d

kirillspitsyn@LAPTOP-VPGTN0GN:~\$ kubectl get svc

NAME	TYPE	CLUSTER-IP	EXTERNAL-IP	PORT(S)	AGE
kubernetes	ClusterIP	10.96.0.1	<none>	443/TCP	15d
mongo-express-service	LoadBalancer	10.100.41.217	<pending>	8081:32693/TCP	15d
mongodb-service	ClusterIP	10.102.109.164	<none>	27017/TCP	15d
nginx	ClusterIP	None	<none>	80/TCP	15d
note-server-service	ClusterIP	10.98.43.56	<none>	5000/TCP	15d
note-service	LoadBalancer	10.96.39.94	<pending>	3000:30211/TCP	15d
prometheus-alertmanager	ClusterIP	10.106.234.224	<none>	9093/TCP	3m6s
prometheus-alertmanager-headless	ClusterIP	None	<none>	9093/TCP	3m6s
prometheus-kube-state-metrics	ClusterIP	10.108.74.194	<none>	8080/TCP	3m6s
prometheus-prometheus-node-exporter	ClusterIP	10.96.86.134	<none>	9100/TCP	3m6s
prometheus-prometheus-pushgateway	ClusterIP	10.102.192.231	<none>	9091/TCP	3m6s
prometheus-server	ClusterIP	10.101.206.118	<none>	80/TCP	3m6s

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 kirillspitsyn@LAPTOP-VPGTN0GN: ~

```
kirillspitsyn@LAPTOP-VPGTN0GN:~$ kubectl expose service prometheus-server --type=NodePort --target-port=9090 --name=prometheus-server-ext  
service/prometheus-server-ext exposed
```

```
kirillspitsyn@LAPTOP-VPGTN0GN:~$ helm repo add grafana https://grafana.github.io/helm-charts
```

```
"grafana" has been added to your repositories
```

```
kirillspitsyn@LAPTOP-VPGTN0GN:~$ helm repo update
```

```
Hang tight while we grab the latest from your chart repositories...
```

```
...Successfully got an update from the "fission-charts" chart repository
```

```
...Successfully got an update from the "grafana" chart repository
```

```
...Successfully got an update from the "prometheus-community" chart repository
```

```
Update Complete. 🎉Happy Helming!🎉
```

```
kirillspitsyn@LAPTOP-VPGTN0GN:~$ helm install grafana grafana/grafana
```

```
NAME: grafana
```

```
LAST DEPLOYED: Mon Feb 5 23:20:49 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. #####  
#####
```

```
kirillspitsyn@LAPTOP-VPGTN0GN:~$ kubectl get svc
```

NAME	TYPE	CLUSTER-IP	EXTERNAL-IP	PORT(S)	AGE
grafana	ClusterIP	10.103.212.44	<none>	80/TCP	48s
kubernetes	ClusterIP	10.96.0.1	<none>	443/TCP	15d
mongo-express-service	LoadBalancer	10.100.41.217	<pending>	8081:32693/TCP	15d
mongodb-service	ClusterIP	10.102.109.164	<none>	27017/TCP	15d
nginx	ClusterIP	None	<none>	80/TCP	15d
note-server-service	ClusterIP	10.98.43.56	<none>	5000/TCP	15d
note-service	LoadBalancer	10.96.39.94	<pending>	3000:30211/TCP	15d
prometheus-alertmanager	ClusterIP	10.106.234.224	<none>	9093/TCP	16m
prometheus-alertmanager-headless	ClusterIP	None	<none>	9093/TCP	16m
prometheus-kube-state-metrics	ClusterIP	10.108.74.194	<none>	8080/TCP	16m
prometheus-prometheus-node-exporter	ClusterIP	10.96.86.134	<none>	9100/TCP	16m
prometheus-prometheus-pushgateway	ClusterIP	10.102.192.231	<none>	9091/TCP	16m
prometheus-server	ClusterIP	10.101.206.118	<none>	80/TCP	16m

```
kirillspitsyn@LAPTOP-VPGTN0GN:~$ kubectl expose service grafana --type=NodePort --target-port=3000 --name=grafana-ext
```

```
service/grafana-ext exposed
```



kirillspitsyn@LAPTOP-VPGTN0GN: ~

kirillspitsyn@LAPTOP-VPGTN0GN:~\$ minikube service grafana-ext

NAMESPACE	NAME	TARGET PORT	URL
default	grafana-ext	80	http://192.168.121.2:31135

Starting tunnel for service grafana-ext.

NAMESPACE	NAME	TARGET PORT	URL
default	grafana-ext		http://127.0.0.1:45357

Opening service default/grafana-ext in default browser...

http://127.0.0.1:45357

Because you are using a Docker driver on linux, the terminal needs to be open to run it.



kirillspitsyn@LAPTOP-VPGTN0GN: ~

kirillspitsyn@LAPTOP-VPGTN0GN:~\$ minikube service prometheus-server-ext

NAMESPACE	NAME	TARGET PORT	URL
default	prometheus-server-ext	80	http://192.168.121.2:32003

Starting tunnel for service prometheus-server-ext.

NAMESPACE	NAME	TARGET PORT	URL
default	prometheus-server-ext		http://127.0.0.1:43035

Opening service default/prometheus-server-ext in default browser...

http://127.0.0.1:43035

Because you are using a Docker driver on linux, the terminal needs to be open to run it.

127.0.0.1:45357/connections/datasources/edit/e8afa7bf-951f-4115-934f-8d2bc8315a96/

Connections

Add new connection

Data sources

Alerting

Manage alerts via Alerting UI ⓘ ☒

Interval behaviour

Scrape interval ⓘ 15s

Query timeout ⓘ 60s

Query editor

Default editor ⓘ Builder ▾

Disable metrics lookup ⓘ ☐

Performance

Prometheus type ⓘ Choose ▾

Cache level ⓘ Low ▾

Incremental querying (beta) ⓘ ☐

Disable recording rules (beta) ⓘ ☐

Other

Custom query parameters ⓘ Example: max_source_resolution=5m&timeout

HTTP method ⓘ POST ▾

Exemplars

+ Add

✓ Successfully queried the Prometheus API.

Next, you can start to visualize data by [building a dashboard](#), or by querying data in the [Explore view](#).


Delete

Save & test

Data sources

View and manage your connected data source connections

Search by name or type



prometheus

Prometheus | http://192.168.121.2:32003 | default

☐ Use local time ☐ Enable query history ☒ Enable autocomplete ☒ Enable highlighting ☒ Enable linter

🔍 Expression (press Shift+Enter for newlines)

Table Graph



Evaluation time



No data queried yet

Add Panel

job All instance All interval 1h reloads ☒ down ☒

