Installeren prometheus:

Voor het monitoren van mijn kubernetes cluster ga ik gebruik maken van prometheus. In het volgende bestand ga ik toelichten welke stappen ik precies heb ondernomen om dit voor elkaar te krijgen.

## Het downloaden van de prometheus manifest files

git clone <https://github.com/techiescamp/kubernetes-prometheus>

## Create a namespace & cluster role

1. Kubectl create namespace monitoring
2. Create file name clusterRole.yaml (see K8s folder)
3. Create role
   1. Kubectl create -f clusterRole.yaml

## Create a Config Map To Externalize Prometheus Configurations

A screenshot of a chat

Description automatically generated with low confidence

1. Create a file called config-map.yaml (see k8s folder for file)
2. Execute file
   1. kubectl create -f config-map.yaml

## Create a Prometheus Deployment

1. create a file named Prometheus-deployment.yaml (see k8s for file)
2. kubectl create -f Prometheus-deployment.yaml
   1. kubectl create -f prometheus-deployment.yaml
3. check if the deployment works
   1. kubectl get deployments --namespace=monitoring

## Connecting To Prometheus Dashboard

The first method for pc will be port forwarding:

A screenshot of a computer

Description automatically generated with medium confidence

Creating a service:

1. create file Prometheus-service.yaml
   1. kubectl create -f prometheus-service.yaml --namespace=monitoring

A screenshot of a web page

Description automatically generated with medium confidenceUsing an ingress controller

Installing Grafana

1. apply Grafana-datasource-config.yaml
   1. kubectl apply -f https://github.com/bibinwilson/kubernetes-grafana/grafana-datasource-config.yaml
2. apply deployment.yaml
   1. kubectl apply -f https://github.com/bibinwilson/kubernetes-grafana/deployment.yaml
3. apply service.yaml
   1. kubectl apply -f https://github.com/bibinwilson/kubernetes-grafana/service.yaml