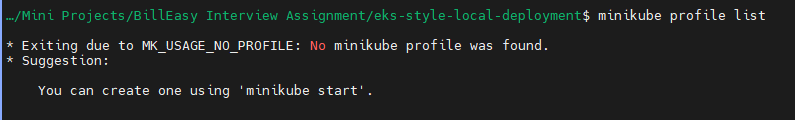
0. Installation and Prerequisites:

Check for existing minikube cluser:

* minikube profile list

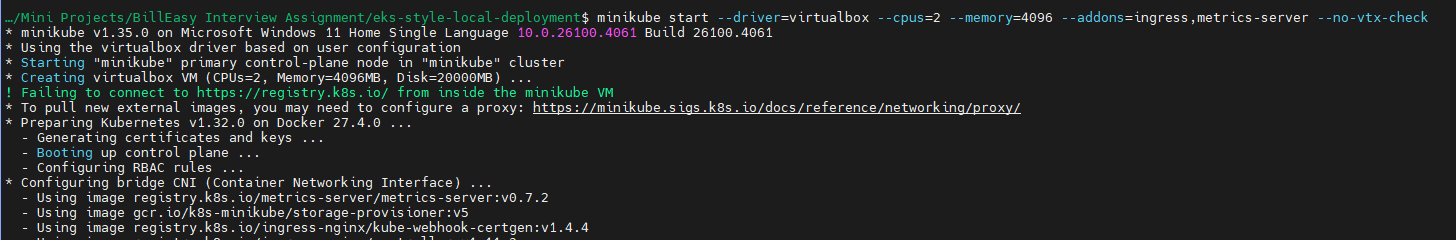


If exists, delete it

* minikube delete

Start your minikube cluster:

* minikube start --driver=virtualbox --cpus=2 --memory=4096 --addons=ingress,metrics-server --no-vtx-check



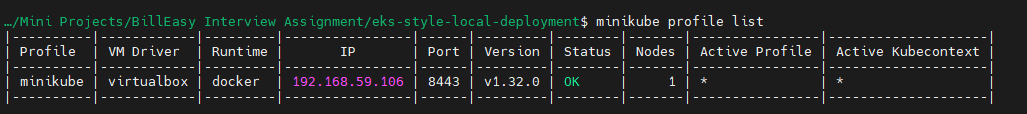
Check the status of minikube cluster:

* minikube status



List the minikube profiles:

* minikube profile list

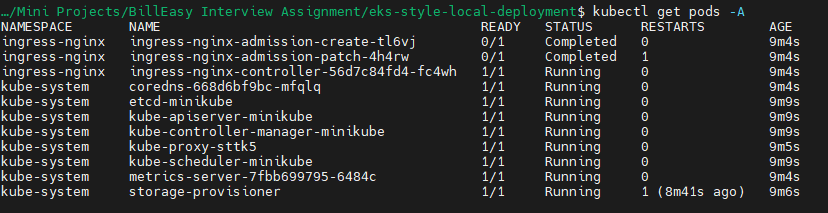


Ensure that your system is ready:

* kubectl get nodes

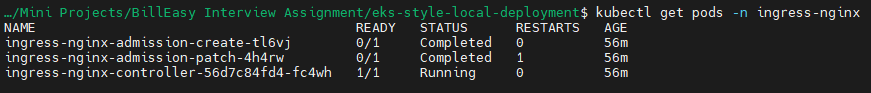


* kubectl get pods -A



Verify your ingress:

* kubectl get pods -n ingress-nginx

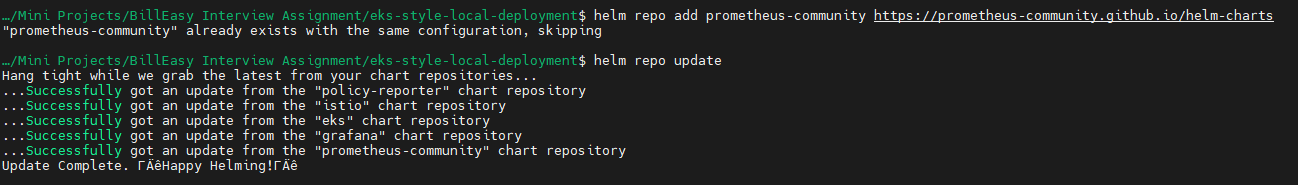


Now we setup Prom and Grafana in a new namespace monitoring by referring: <https://medium.com/@joudwawad/comprehensive-beginners-guide-to-kube-prometheus-in-kubernetes-monitoring-alerts-integration-4ade4fa8fa8c> :

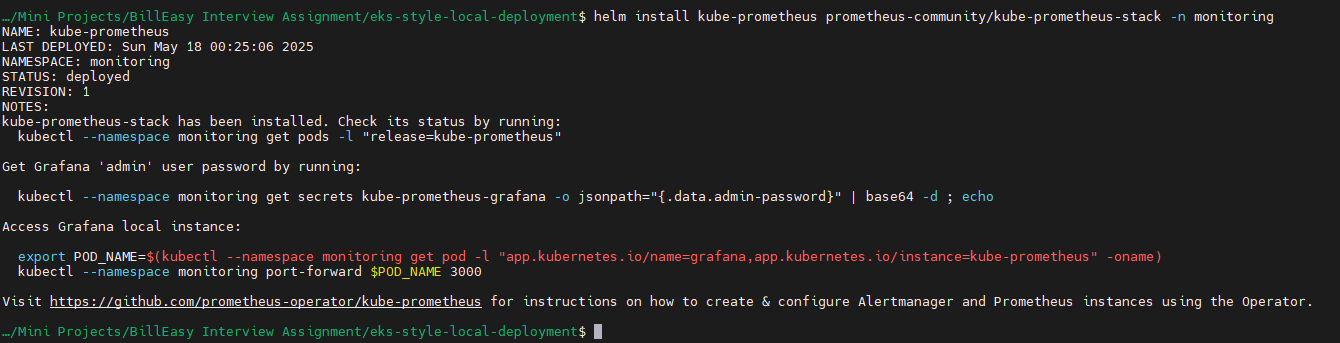
* kubectl create namespace monitoring



* helm repo add prometheus-community <https://prometheus-community.github.io/helm-charts>
* helm repo update

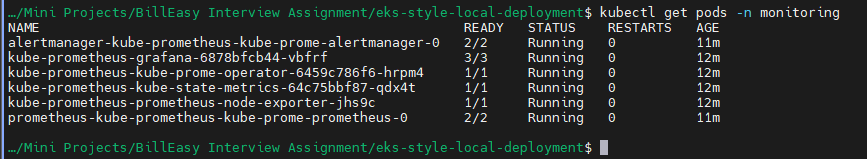


* helm install kube-prometheus prometheus-community/kube-prometheus-stack -n monitoring



Wait for the pods to be in running stage:

* kubectl get pods -n monitoring

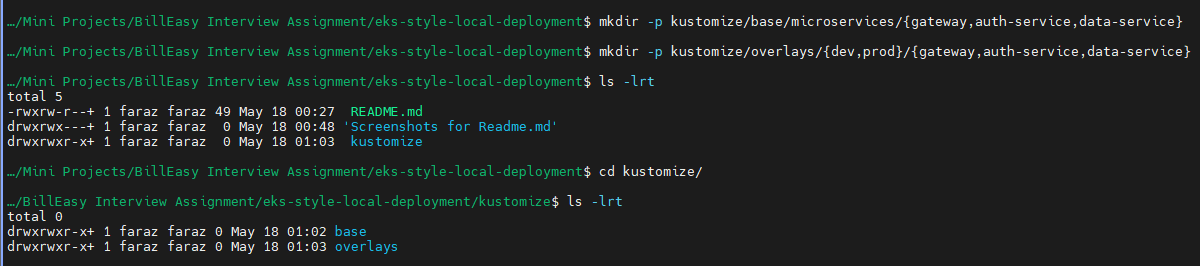


1. Microservice Stack

Refer: <https://subbaramireddyk.medium.com/kustomize-kubernetes-native-configuration-management-f51630d29ac0>

Creating kustomize project structure:

* mkdir -p kustomize/base/microservices/{gateway,auth-service,data-service}
* mkdir -p kustomize/overlays/{dev,prod}/{gateway,auth-service,data-service}



Create kustomization.yaml files:



Create rest of the project structure

Create namespaces application and system:

