**Using Helm**

**Install and start Kubernetes dashboard**

Source:   
<https://medium.com/@dijin123/kubernetes-and-the-ui-dashboard-with-docker-desktop-5ad4799b3b61>

kubectl apply -f <https://raw.githubusercontent.com/kubernetes/dashboard/v2.4.0/aio/deploy/recommended.yaml>

kubectl apply -f .\dashboard-adminuser.yaml

kubectl apply -f .\dashboard-rolebinding.yaml

kubectl proxy

<http://localhost:8001/api/v1/namespaces/kubernetes-dashboard/services/https:kubernetes-dashboard:/proxy/>

kubectl -n kubernetes-dashboard create token admin-user

kubectl delete -f <https://raw.githubusercontent.com/kubernetes/dashboard/v2.4.0/aio/deploy/recommended.yaml>

kubectl delete -f .\dashboard-rolebinding.yaml

kubectl delete -f .\long-lived-secret-dashboard-token.yaml

**Install keycloak using helm**

\eazybank-microservice-application-k8s-helm\helm> helm install keycloak keycloak

\eazybank-microservice-application-k8s-helm\helm> helm upgrade -i keycloak keycloak

To start keycloak dashboard

niles@Nilesh MINGW64 ~

export SERVICE\_IP=$(kubectl get svc --namespace default keycloak -o jsonpath='{.status.loadBalancer.ingress[0].ip}')

niles@Nilesh MINGW64 ~

export HTTP\_SERVICE\_PORT=$(kubectl get --namespace default -o jsonpath="{.spec.ports[?(@.name=='http')].port}" services keycloak)

niles@Nilesh MINGW64 ~

echo "http://${SERVICE\_IP}:${HTTP\_SERVICE\_PORT}/"

http://:80/

niles@Nilesh MINGW64 ~

echo Username: user

niles@Nilesh MINGW64 ~

echo Password: $(kubectl get secret --namespace default keycloak -o jsonpath="{.data.admin-password}" | base64 -d)

Username: user

Password: password

<http://localhost>

It might take 10-15 minutes for the dashboard UI to come up.

**Install Prometheus using helm**

\eazybank-microservice-application-k8s-helm\helm> helm install prometheus kube-prometheus

\eazybank-microservice-application-k8s-helm\helm> helm upgrade -i prometheus kube-prometheus

**Install Grafana-Loki and Temp using helm**\eazybank-microservice-application-k8s-helm\helm> helm install loki grafana-loki

\eazybank-microservice-application-k8s-helm\helm> helm install tempo grafana-tempo

\eazybank-microservice-application-k8s-helm\helm> helm upgrade -i loki grafana-loki

\eazybank-microservice-application-k8s-helm\helm> helm upgrade -i tempo grafana-tempo

**Install Grafana using helm**\eazybank-microservice-application-k8s-helm\helm> helm install grafana grafana

\eazybank-microservice-application-k8s-helm\helm> kubectl port-forward svc/grafana 3000:3000

\eazybank-microservice-application-k8s-helm\helm> helm upgrade -i grafana grafana

echo "Password: $(kubectl get secret grafana-admin --namespace default -o jsonpath="{.data.GF\_SECURITY\_ADMIN\_PASSWORD}" | base64 -d)"

Password: KybFfFcUB7

C:\Users\niles> helm ls

**Install Kafka using helm**\eazybank-microservice-application-k8s-helm\helm> helm install kafka kafka

**Install eazybank microservices using helm**  
\eazybank-microservice-application-k8s-helm\helm\environments> helm install eazybank dev-env