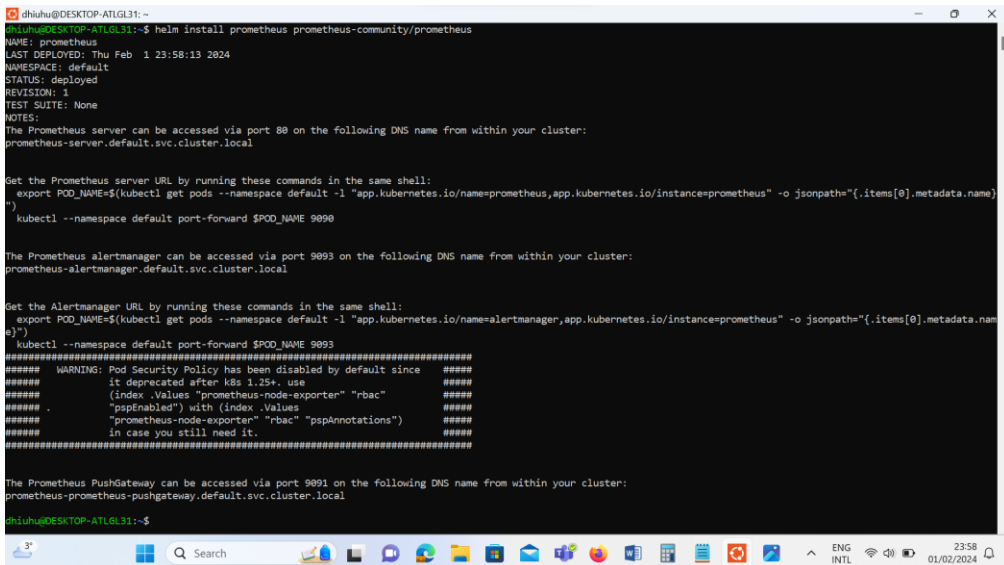
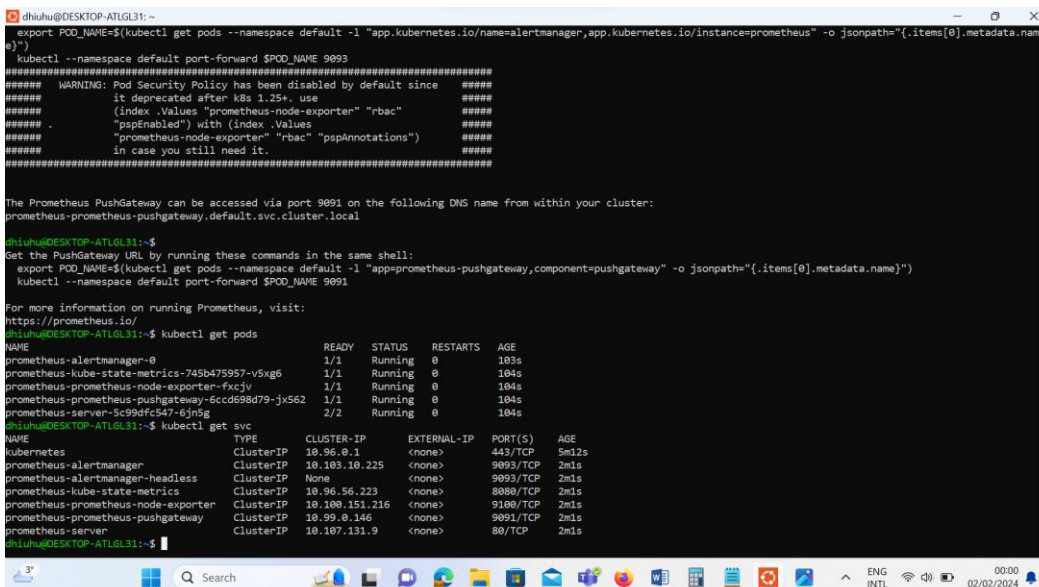


Install helm



Check for Prometheus installation



Metrics on Prometheus

```
Select dhiuhu@DESKTOP-ATLGL31: ~
prometheus-prometheus-pushgateway.default.svc.cluster.local

dhiuhu@DESKTOP-ATLGL31:~$
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/
dhiuhu@DESKTOP-ATLGL31:~$ kubectl get pods
NAME                                READY   STATUS    RESTARTS   AGE
prometheus-alertmanager-0           1/1     Running   0           103s
prometheus-kube-state-metrics-745b475957-v5xg6  1/1     Running   0           104s
prometheus-prometheus-node-exporter-fxcjv  1/1     Running   0           104s
prometheus-prometheus-pushgateway-6ccd698d79-jx562  1/1     Running   0           104s
prometheus-server-5c99dfc547-6jn5g      2/2     Running   0           104s
dhiuhu@DESKTOP-ATLGL31:~$ kubectl get svc
NAME                                TYPE               CLUSTER-IP      EXTERNAL-IP      PORT(S)          AGE
kubernetes                         ClusterIP          10.96.0.1        <none>            443/TCP           5m12s
prometheus-alertmanager            ClusterIP          10.103.10.225    <none>            9093/TCP           2m1s
prometheus-alertmanager-headless   ClusterIP          None             <none>            9093/TCP           2m1s
prometheus-kube-state-metrics       ClusterIP          10.96.56.223     <none>            8080/TCP           2m1s
prometheus-prometheus-node-exporter ClusterIP          10.100.151.216   <none>            9100/TCP           2m1s
prometheus-prometheus-pushgateway   ClusterIP          10.99.0.146      <none>            9091/TCP           2m1s
prometheus-server                  ClusterIP          10.107.131.9     <none>            80/TCP            2m1s
dhiuhu@DESKTOP-ATLGL31:~$ kubectl expose service prometheus-server --type=NodePort --target-port=9090 --name=prometheus-server-ext
service/prometheus-server-ext exposed
dhiuhu@DESKTOP-ATLGL31:~$ kubectl get svc
NAME                                TYPE               CLUSTER-IP      EXTERNAL-IP      PORT(S)          AGE
kubernetes                         ClusterIP          10.96.0.1        <none>            443/TCP           6m13s
prometheus-alertmanager            ClusterIP          10.103.10.225    <none>            9093/TCP           3m2s
prometheus-alertmanager-headless   ClusterIP          None             <none>            9093/TCP           3m2s
prometheus-kube-state-metrics       ClusterIP          10.96.56.223     <none>            8080/TCP           3m2s
prometheus-prometheus-node-exporter ClusterIP          10.100.151.216   <none>            9100/TCP           3m2s
prometheus-prometheus-pushgateway   ClusterIP          10.99.0.146      <none>            9091/TCP           3m2s
prometheus-server                  ClusterIP          10.107.131.9     <none>            80/TCP            3m2s
prometheus-server-ext              NodePort           10.101.136.36    <none>            80:30747/TCP       14s
dhiuhu@DESKTOP-ATLGL31:~$ minikube ip
192.168.49.2
dhiuhu@DESKTOP-ATLGL31:~$
```

Install Grafana >> Add helm repo >> Update helm repo >> Install helm >> Expose Grafana Service

```
dhiuhu@DESKTOP-ATLGL31:~$ helm repo add grafana https://grafana.github.io/helm-charts
"grafana" has been added to your repositories
dhiuhu@DESKTOP-ATLGL31:~$ helm repo update
Hang tight while we grab the latest from your chart repositories...
...Successfully got an update from the "grafana" chart repository
...Successfully got an update from the "prometheus-community" chart repository
Update Complete. 🎉Happy Helming!🎉
dhiuhu@DESKTOP-ATLGL31:~$ helm install grafana grafana/grafana
NAME: grafana
LAST DEPLOYED: Fri Feb  2 00:15:06 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

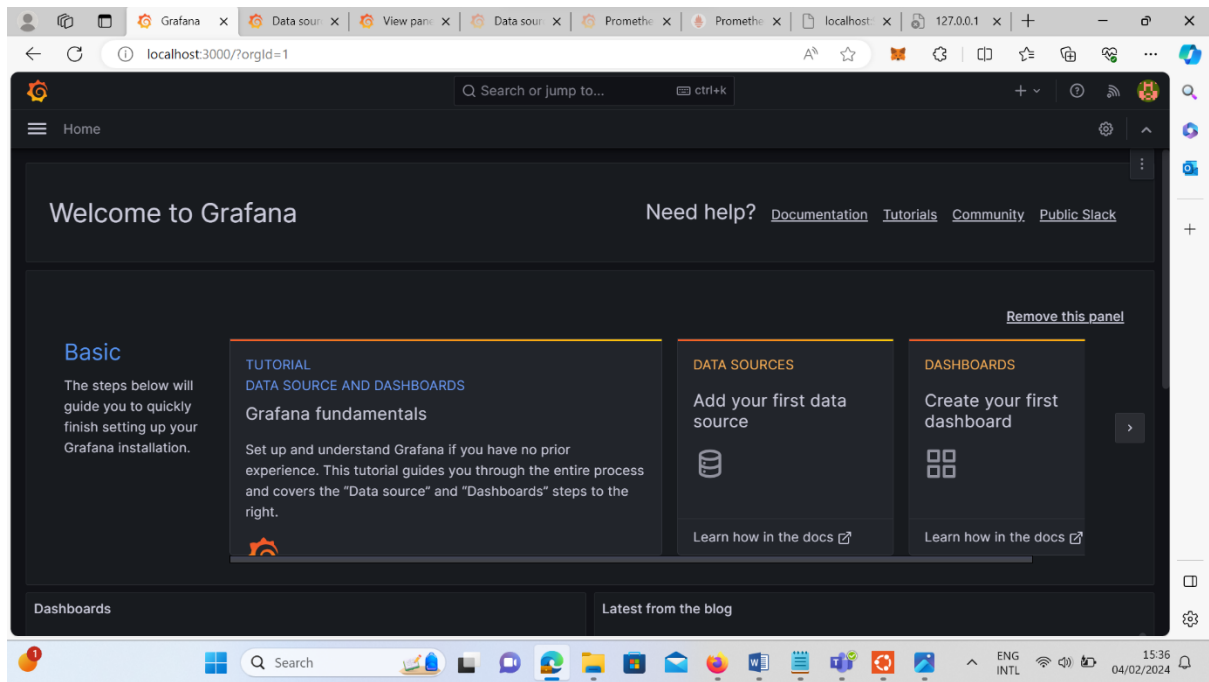
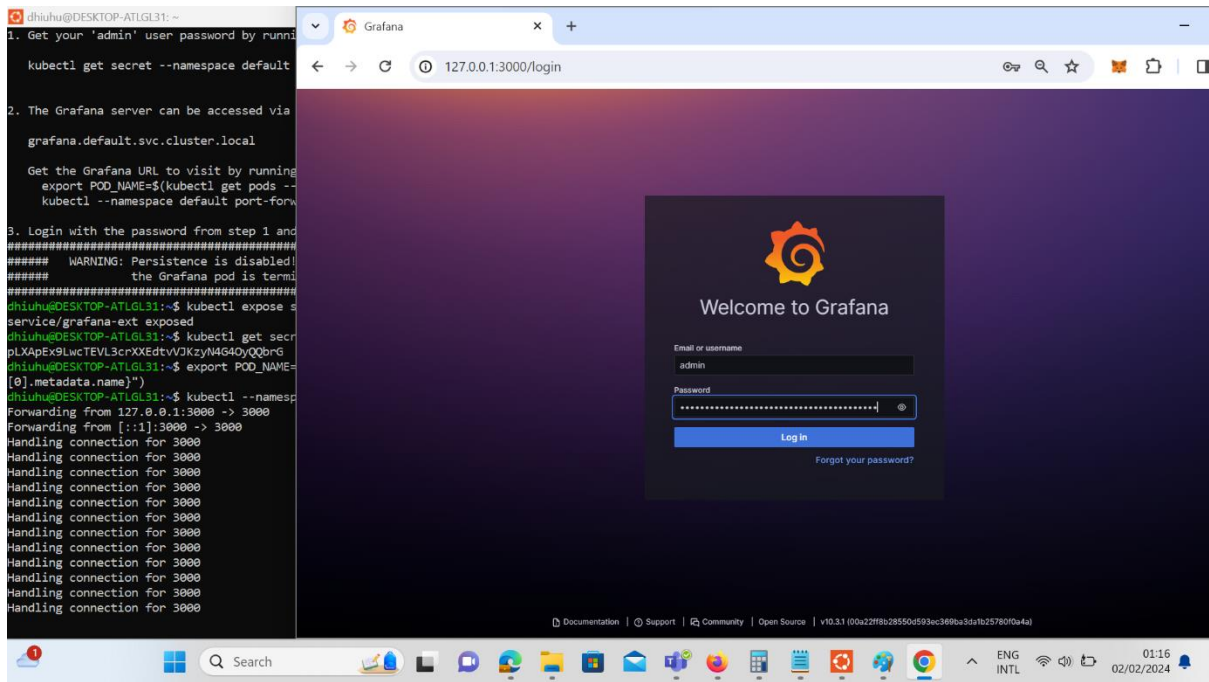
    Get the Grafana URL to visit by running these commands in the same shell:
    export POD_NAME=$(kubectl get pods --namespace default -l "app.kubernetes.io/name=grafana,app.kubernetes.io/instance=grafana" -o jsonpath="{.items[0].metadata.name}")
    kubectl --namespace default port-forward $POD_NAME 3000

3. Login with the password from step 1 and the username: admin

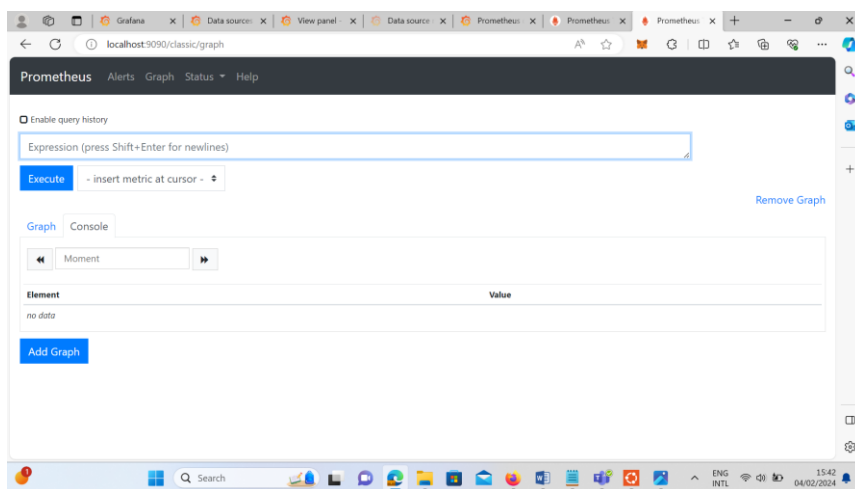
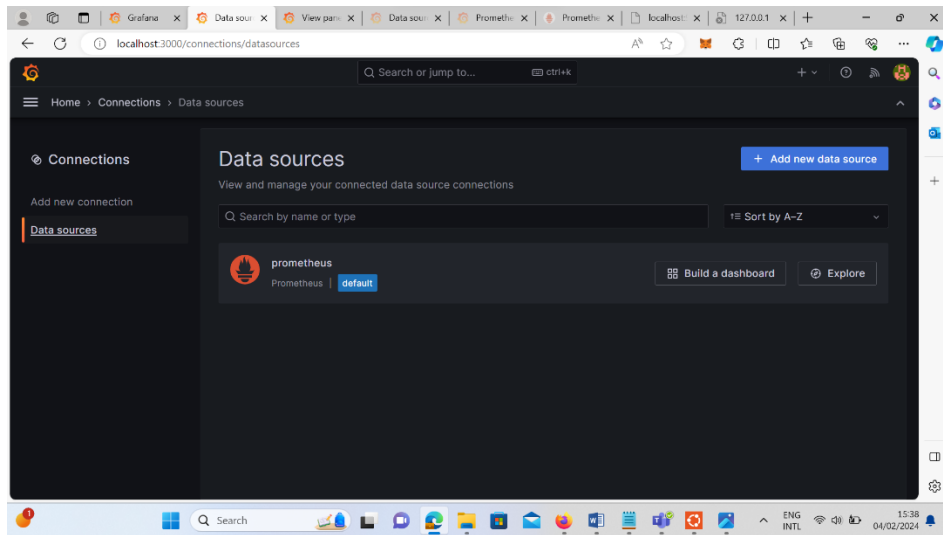
#####
#####  WARNING: Persistence is disabled!!! You will lose your data when  #####
#####    the Grafana pod is terminated.    #####
#####

dhiuhu@DESKTOP-ATLGL31:~$ kubectl expose service grafana --type=NodePort --target-port=3000 --name=grafana-ext
service/grafana-ext exposed
dhiuhu@DESKTOP-ATLGL31:~$
```

Get Grafana admin password



Add Prometheus as data source for Grafana



Import dashboard

