Anishkumar Pankajkumar Patel 101504708

BCDV 4032 Building Scalable Blockchain Apps

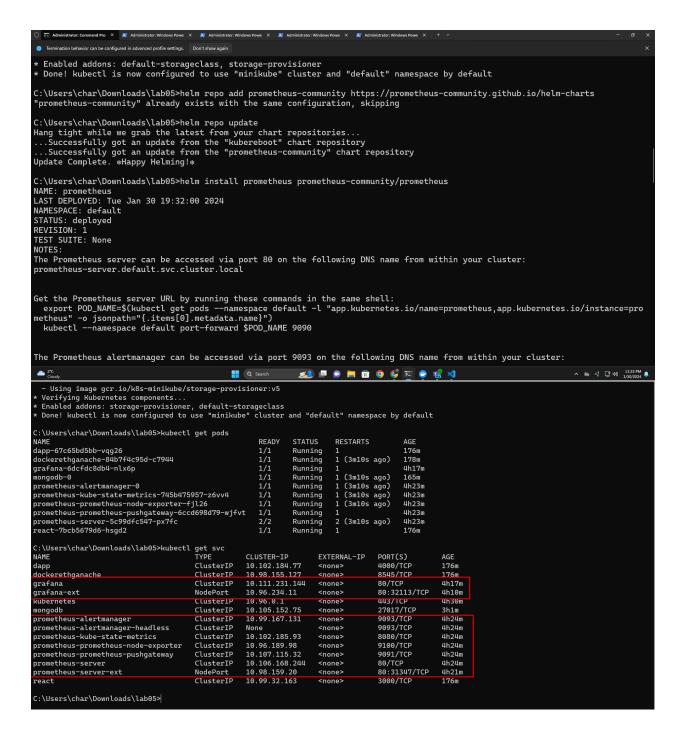
Lab₀₅

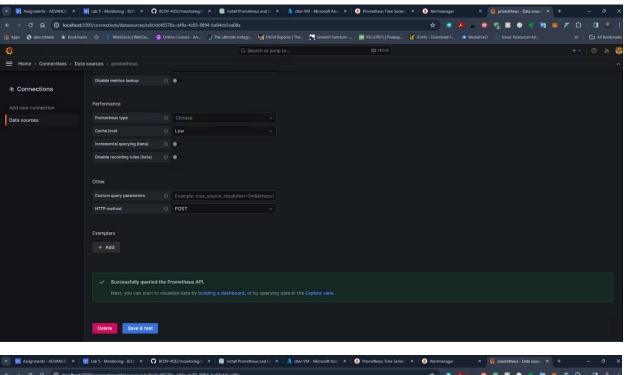
31st Jan 2024 Keerthi Nelaturu

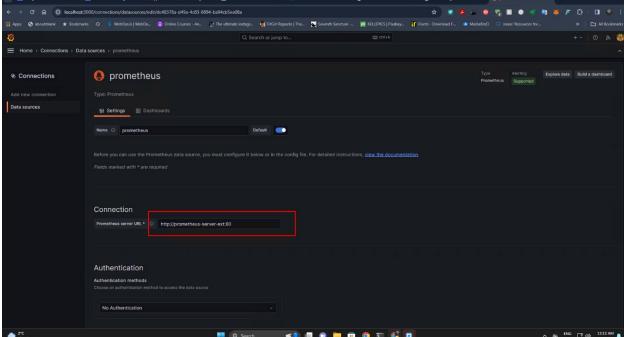
Note for Lab 04 - Made a mistake in Lab 04 frontend-deployment.yaml and backend-deployment.yaml
apiVersion: apps/v1
kind: Deployment
metadata:
name:
namespace:
spec:
from here ->
replicas:
selector:
matchLabels:
арр:
template:
metadata:
labels:
арр:
spec:
serviceAccountName: # Correct placement
containers:
- name:
image:
ports:
- containerPort:

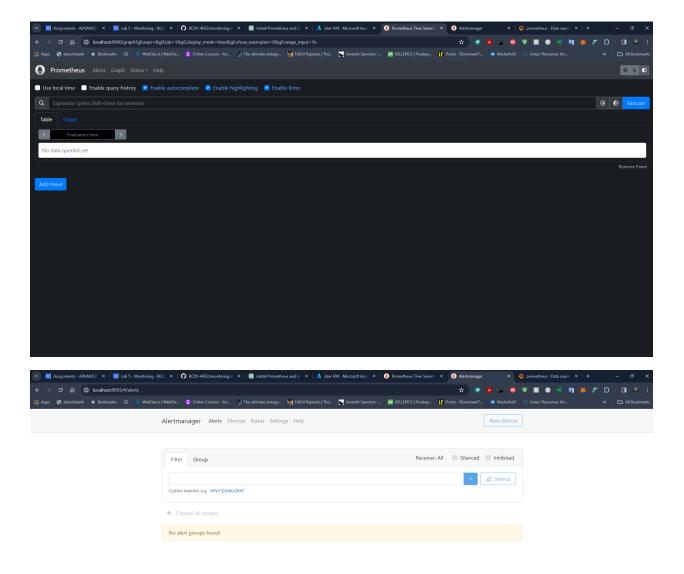
Lab 05

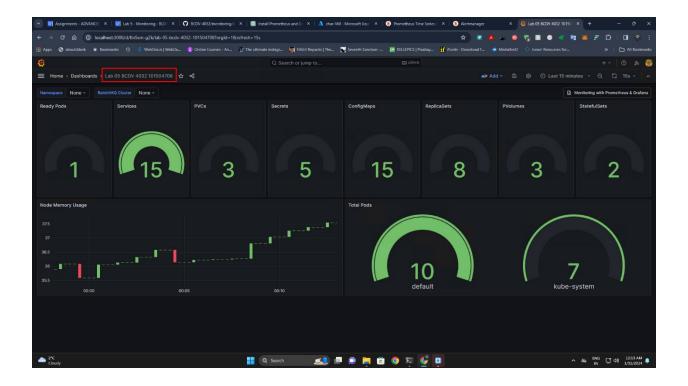
Section 01 – Screenshots of the Demonstration











Section 02 - Commands

helm repo add prometheus-community https://prometheus-community.github.io/helm-charts

helm repo update

helm install prometheus prometheus-community/prometheus

kubectl get pods

kubectl get svc

kubectl expose service prometheus-server -- type=NodePort -- target-port=9090 -- name=prometheus-server-ext

helm repo add grafana https://grafana.github.io/helm-charts

helm repo update

helm install grafana grafana/grafana

kubectl expose service grafana -- type=NodePort -- target-port=3000 -- name=grafana ext

kubectl get secret --namespace default grafana -o jsonpath="{.data.admin-password}" | ForEach-Object

{[System.Text.Encoding]::UTF8.GetString([System.Convert]::FromBase64String(\$_))}

http://prometheus-server-ext:80

kubectl port-forward grafana-6dcfdc8db4-nlx6p 3000

kubectl port-forward prometheus-server-5c99dfc547-px7fc 9090

kubectl port-forward prometheus-alertmanager-0 9093

PromQL queries

- count(kube_secret_info)
- count(kube_replicaset_created)
- count(kube_statefulset_created)
- count(kube_configmap_info)
- count(kube_role_info)
- count(kube_rolebinding_info)
- count(kube_persistentvolume_info)
- count(kube_persistentvolumeclaim_info)
- count(kube service info)
- sum(count by(service) (kube_service_spec_ports_port))