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

helm repo update

**helm install monitoring prometheus-community/kube-prometheus-stack --namespace monitoring --create-namespace**

**helm upgrade monitoring prometheus-community/kube-prometheus-stack --set prometheus.service.type=LoadBalancer --namespace monitoring**

Configure Prometheus to Scrape the Kubernetes Cluster

Modify prometheus.yaml to include your Kubernetes cluster endpoint.

**Step 4: Configure Prometheus to Scrape the Kubernetes Cluster**

**Create a new prometheus.yaml file and configure it as follows:**

**global:**

**scrape\_interval: 15s**

**scrape\_configs:**

**- job\_name: "kubernetes"**

**static\_configs:**

**- targets: ["<K8S\_CLUSTER\_ENDPOINT>:9090"]**

**kubectl create configmap prometheus-config --from-file=prometheus.yaml -n monitoring**

**kubectl patch deployment monitoring-kube-prometheus-prometheus -n monitoring --type='json' -p='[{"op": "add", "path": "/spec/template/spec/volumes/-", "value": {"name": "prometheus-config", "configMap": {"name": "prometheus-config"}}}]'**

**kubectl delete pod -l app=prometheus -n monitoring**

**helm upgrade monitoring prometheus-community/kube-prometheus-stack --set grafana.service.type=LoadBalancer --namespace monitoring**

**kubectl get secret --namespace monitoring monitoring-grafana -o jsonpath="{.data.admin-password}" | base64 --decode ; echo**

**kubectl get configmap -n monitoring**

**kubectl get configmap monitoring-kube-prometheus-prometheus -n monitoring -o yaml > prometheus.yaml**

**aws eks describe-cluster --name <your-cluster-name> --query "cluster.endpoint" --output text**