Prometheus is open source monitoring tools. We can monitor db servers also.							
Prometheus collect data from various cluster based on pull mechanism time series. It sends alerts also to email, teams etc. It collects and stores data in persistent volumes.							
Install Helm: 1. curl -O https://get.helm.sh/helm-v3.16.2-linux-amd64.tar.gz							
2. tar xvf helm-v3.16.2-linux-amd64.tar.gz							
3. sudo mv linux-amd64/helm /usr/local/bin							
4. rm helm-v3.16.2-linux-amd64.tar.gz							
5. rm -rf linux-amd64							
6. helm version							
Helm Charts:							
helm repo add stable https://charts.helm.sh/stable							
# Add prometheus Helm repo helm repo add prometheus-community https://prometheus- community.github.io/helm-charts							
# helm repo update							
# helm install prometheus prometheus-community/prometheus							
This will give some commands:							
Get the Prometheus server URL by running these commands in the same							

shell:

export POD_NAME=\$(kubectl get pods --namespace default -l "app.kubernetes.io/name=prometheus,app.kubernetes.io/instance=prometheus" -o jsonpath="{.items[0].metadata.name}") kubectl --namespace default port-forward \$POD_NAME 9090

The Prometheus alertmanager can be accessed via port 9093 on the following DNS name from within your cluster: prometheus-alertmanager.default.svc.cluster.local

The Prometheus PushGateway can be accessed via port 9091 on the following DNS name from within your cluster: prometheus-prometheus-pushgateway.default.svc.cluster.local

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

Kubectl get pods. Prometheus pods will be shown

KubeState Metrics:

Kube-state-metrics provides insights into the state of your Kubernetes cluster by exposing metrics related to various objects like deployments, pods, services, and mor

Create Prometheus namespace kubectl create namespace prometheus

helm install stable prometheus-community/kube-prometheus-stack -n prometheus

kubectl get pvc. This will show pending servers which has not run.

Helm repo	te prometheus o list o remove ()							
helm repo add prometheus-community https://prometheus- community.github.io/helm-charts								
helm repo update								
helm install monitoring prometheus-community/kube-prometheus-stack Kubectl get pods. Kubectl get events								
Kubectl describe pod ()								
	()							
Events: Type Message	Reason	Age	Fr	rom				
	 FailedSchedulin are available: 1 no							

pod ports, 1 node(s) didn't satisfy plugin(s) [NodeAffinity]. preemption:

1 Preemption is not helpful for scheduling.

0/2 nodes are available: 1 No preemption victims found for incoming pod,

To Remove helm: