Day - 18

Demo On Prometheus And Grajana

Introduction:-

Prometheus: -

It is a open source monitoring and Attering System that helps you collect and Store metrics about applications and intrastructure and analyse the health and performance.

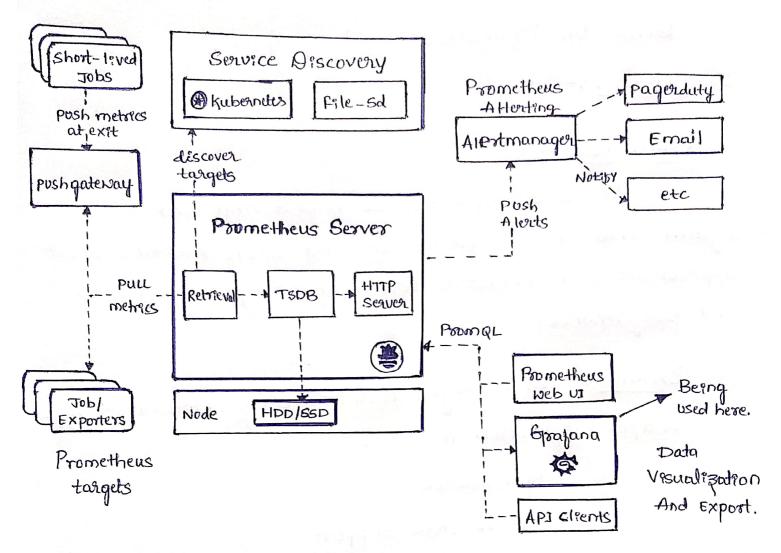
Example: - CPU Usage, Memory Usage, Network traffic and/or application metrics.

- OpenBowice
- Native K8s support
- powerful query Language Promat
- Scalability
- Integrations

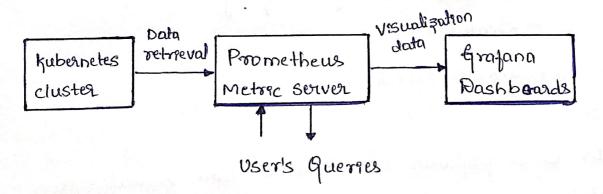
Grafana:-

- It is a popular open source data visualization and analytics platform that allow you to create custom dashboards and visualization based on a variety of data sources.
 - It has support for so many integrations such as prometheus, Elastic Search and influx DB.

- Parometheus Architecture:-



In a Nut Shell we can Consider:



Lets more to handson, consider prerequisites below for this particular handson.

- 1) kubernetes cluster (Here iam using minikabe)
- a) Helm (Install from helm documentation based on OS requirement)

- → Illustrative Steps Involved:-
 - 1) cluster creation (2 cpu's, 4GB RAM)
 - 2) Install prometheus using helm
 - 3> Install Grafana using helm.
 - 4) Create respective suc through Nodeport to access over browser.
 - 5) Import Grajana Dashboard of your chorce.
 (I used 6417 Dashboard)
 - 6) Explore both Bashboard.
 - 7) Cleanup all resource.
- → Prometheus:-
 - # helm repo add prometheus-community
 https://prometheus-community.github.io/helm-chasts
 - # helm repo update
 - # helm install prometheus prometheus-community/prometheus.
 - # Kubectl expose Service prometheus-Server -- type= Nodeport -- target-port = 9090 -- name = prometheus-Server-ext

Access Dashboard @ <mingkubeIp>: Nodeport

- Grajana:-
- # helm repo add grajana https://grajana.gethub.io/helm-charts
 # helm repo Update
- # helm install grafana grafana/ grafana
- # Kubect L expose Service grafana -- type = Nodepost
 -- target port = 3000 -- name = grafana ext

 Access Dashboard @ <mingkubeIp>: Nodeport
 - 1) Setup datasource as prometheus and provide prometheus dashbaard link and save.
 - 2) Import the dashboard of your choice and Explore.