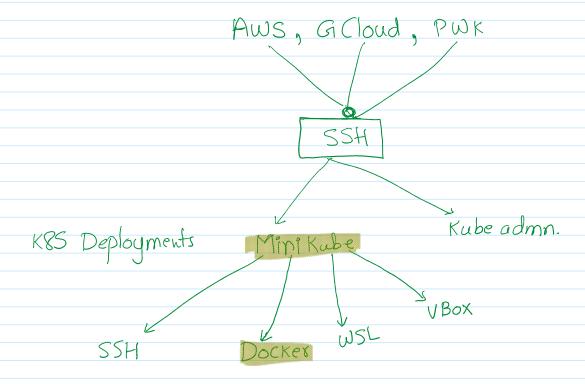
## 60.22Jun.K8S Deployments

Thursday, June 22, 2023

7:07 PM



- A. Jenkins Integrations with:
  - a. Github
  - b. Java
  - c. Maven
  - d. Docker
  - e. Ansible
- B. Minikube (AWS/GCloud Shell/PWK)
- C. K8S CRUD App Deployments



- (1) SSH → Linux
- (2) DOCKEY --- Install
- 3) Minikube

usermod -aG docker \$USER usermod -aG root \$USER chmod 664 /var/run/docker.sock

\$ docker info # NO WARNING/ERROR

Install Minikube		
\$ curl -LO https://storage.googleapis.com/minikube/releases/latest/minikube-linux-amd64		
\$ sudo install minikube-linux-amd64 /usr/le	ocal/bin/minikube	
Ć miniliuska vomian		
\$ minikube version		
\$ minikube status		
\$ minikube profile list		
\$ minikube profile list		
\$ minikube startdriver=docker		
3 millikube starturiver-uocker		
\$ minikube config set driver docker		
\$ minkabe coming set arriver docker		
\$ apt install kubectl -y		
y apt motali kabeeti y		
\$ kubectl version		
\$ minikube status		
¥		
\$ minikube status		
minikube		
type: Control Plane		
host: Running		
kubelet: Running		
apiserver: Running		
kubeconfig: Configured		
Deployment Tool( Minikube, KubeAdmn):	Prepare Kubernetes Cluster	
	<u> </u>	
Kubectl(Adhoc, YAML):	Manage Kubernetes Cluster Resources	
Create Application and Deploy on K8S		
\$ kubectl		
\$ cat > welcome.yaml		
apiVersion: apps/v1		
kind: Deployment		
metadata:		
labels:		
app: example1		
name: example1		
spec:		
replicas: 1		
selector:		
matchLabels:		
app: example1 template:		
metadata:		
ilictauata.		

labels:
app: example1
spec:
containers:
- image: nginx:latest
name: nginx
Create Pod(Nginx Container) using YAML
\$ kubectl apply -f welcome.yaml
Check Pods
\$ kubectl get pods
example1-6f7fff9469-5rhqh
\$ kubectl log example1-6f7fff9469-5rhqh
Create K8S Service
apiVersion: v1
kind: Service
metadata:
name: example1
labels:
app: example1
spec:
type: NodePort
selector:
app: example1
ports:
- protocol: TCP
targetPort: 80
port: 80
nodePort: 30080
Houer ort. 30000
\$ kubectl get services
Ç Kübecü get sei vices
\$ curl <u>http://IP</u>
φ curi <u>incep.//ii</u>
¢ minikuha carvica ayampla1
\$ minikube service example1

Deployment + Service + Vol

Deployment,

Controllers

Object