

Day 3

Like we did in Yesterday's Session, we created pods using CLI where we created all by writing commands line by line from where to pull the image and all.

Today same thing we will do via a code. **YAML code**

Start the Kubernetes first and let's check the status

Minikube.exe start

Minikube.exe status

```
C:\Program Files\Kubernetes\Minikube>minikube.exe start
* minikube v1.16.0 on Microsoft Windows 10 Pro 10.0.19042 Build 19042
* Using the virtualbox driver based on existing profile
* Starting control plane node minikube in cluster minikube
* Restarting existing virtualbox VM for "minikube" ...
! This VM is having trouble accessing https://k8s.gcr.io
* Preparing Kubernetes v1.20.0 on Docker 20.10.0 .../ * To pull new external images, y
://minikube.sigs.k8s.io/docs/reference/networking/proxy/

* Verifying Kubernetes components...
* Enabled addons: storage-provisioner, dashboard, default-storageclass
* Done! kubectl is now configured to use "minikube" cluster and "default" namespace by

C:\Program Files\Kubernetes\Minikube>minikube.exe status
minikube
type: Control Plane
host: Running
kubelet: Running
apiserver: Running
kubeconfig: Configured
timeToStop: Nonexistent
```

Now we need to check available pods- **kubectl get pods**

If present, Like we did in yesterday's Session delete all by

Kubectl.exe delete all --all

```
C:\Program Files\Kubernetes\Minikube>kubectl get pods
NAME                                READY   STATUS    RESTARTS   AGE
myweb1-55dbb57599-jm6t5             1/1     Running   0           3d17h
myweb1-55dbb57599-nl67f             1/1     Running   0           3d17h
myweb1-55dbb57599-pjsh9             1/1     Running   0           3d18h
myweb1-55dbb57599-wtdgs             1/1     Running   0           3d17h

C:\Program Files\Kubernetes\Minikube>kubectl.exe delete all --all
pod "myweb1-55dbb57599-jm6t5" deleted
pod "myweb1-55dbb57599-nl67f" deleted
pod "myweb1-55dbb57599-pjsh9" deleted
pod "myweb1-55dbb57599-wtdgs" deleted
service "kubernetes" deleted
service "myweb1" deleted
deployment.apps "myweb1" deleted
replicaset.apps "myweb1-55dbb57599" deleted
```

Again check for the available pods by

```
kubectl get pods
```

```
C:\Program Files\Kubernetes>cd Minikube  
C:\Program Files\Kubernetes\Minikube>kubectl.exe get pods  
No resources found in default namespace.
```

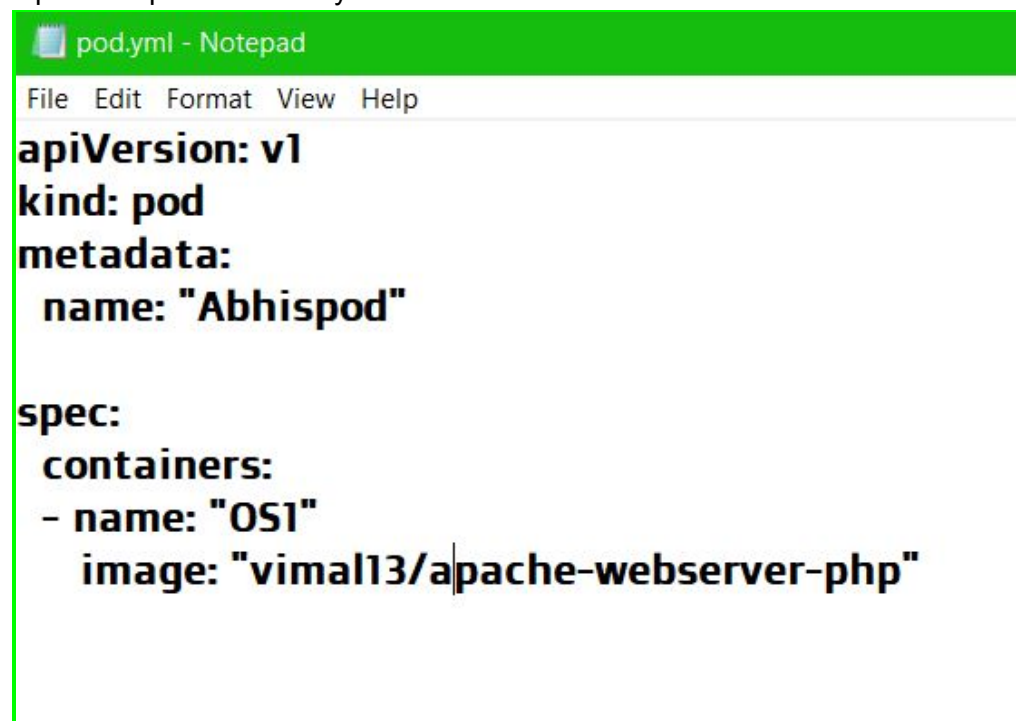
Now, Create a Directory where to store Yml file in local system

Here i am making in Desktop>> temp>> k8

```
Cd /Desktop/temp
```

```
Mkdir /k8
```

Open notepad and write yml file.



```
pod.yml - Notepad  
File Edit Format View Help  
apiVersion: v1  
kind: pod  
metadata:  
  name: "Abhispod"  
  
spec:  
  containers:  
    - name: "OS1"  
      image: "vimal13/apache-webserver-php"
```

After writing,

Save it as "pod.yml" in Desktop>> temp>> k8.

Now, check for the file

```
C:\Users\Abhishek kumar\Desktop\temp\k8>cat pod.yml  
apiVersion: v1  
kind: Pod  
metadata:  
  name: "abhispod"  
  
spec:  
  containers:  
    - name: "os1"  
      image: "vimal13/apache-webserver-php"  
C:\Users\Abhishek kumar\Desktop\temp\k8>
```

Now, to check for the error and also to create pods by yml file, we create by

Kubectrl create -f pod.yml

```
C:\Users\Abhishek kumar\Desktop\temp\k8>kubectrl create -f pod.yml
pod/abhispod created

C:\Users\Abhishek kumar\Desktop\temp\k8>kubectrl get pods
NAME          READY   STATUS    RESTARTS   AGE
abhispod      1/1     Running   0           18s

C:\Users\Abhishek kumar\Desktop\temp\k8>
```

In the above Screenshot i have added one more command which will show the list of pods.

Kubectrl get pods

Kubectrl describe pods

```
image: vimal13/apache-webserver-php
C:\Users\Abhishek kumar\Desktop\temp\k8>kubectrl describe pods
Name:          abhispod
Namespace:     default
Priority:       0
Node:          minikube/192.168.99.100
Start Time:    Tue, 12 Jan 2021 15:59:18 +0530
Labels:        <none>
Annotations:   <none>
Status:        Running
IP:            172.17.0.3
IPs:
  IP: 172.17.0.3
Containers:
  os1:
    Container ID:  docker://f66bcef537611d8403a720efb3ac1b83308b93454b167cb2bb7edd0cb4767d19
    Image:         vimal13/apache-webserver-php
```

Here you can see the image name is same as stated in yml file with the name

abhispod