

Launching pod via code

1.

Delete all pods

```
kubectrl.exe delete all --all
```

```
C:\Program Files\Kubernetes\Minikube>kubectrl.exe delete all --all
pod "myweb1-55dbb57599-jfnpc" deleted
pod "myweb1-55dbb57599-rhqks" deleted
pod "myweb1-55dbb57599-szvgn" deleted
pod "myweb1-55dbb57599-vmblj" deleted
service "kubernetes" deleted
service "myweb1" deleted
deployment.apps "myweb1" deleted
replicaset.apps "myweb1-55dbb57599" deleted
```

2.

Let's launch it via cli and verify

```
kubectrl.exe run myweb1 --image=vimal13/apache-webserver-php
```

```
kubectrl.exe get pods
```

```
C:\Program Files\Kubernetes\Minikube>kubectrl.exe run myos --image=vimal13/apache-webserver-php
pod/myos created

C:\Program Files\Kubernetes\Minikube>kubectrl.exe get pods
NAME      READY   STATUS             RESTARTS   AGE
myos      0/1     ContainerCreating   0           4s

C:\Program Files\Kubernetes\Minikube>
```

Behind the scenes, minikube uses DE. Lets check:

```
docker ps | grep vimal13
```

```
$ docker ps | grep vimal13
79e4312b5777    vimal13/apache-webserver-php    "/usr/sbin/httpd -DF"    55 second
s ago         Up 54 seconds                  k8s_myos_myos_default_456cf319-9ec6-4862-a
94e-6d257bab586c_0
$
```

3. lets do the same via code.

We will create one folder to keep all the code in one place -> known as Workspace.

```
C:\Users\Romio_juliete\Desktop>mkdir CKA_ws_akshayanil
C:\Users\Romio_juliete\Desktop>cd CKA_ws_akshayanil
C:\Users\Romio_juliete\Desktop\CKA_ws_akshayanil>notepad pod.yml
C:\Users\Romio_juliete\Desktop\CKA_ws_akshayanil>
```

## Launching pod via code

- ➔ My req: launch the container...
- ➔ Kind of pod
- ➔ Name of pod
- ➔ Image for Container
- ➔ Name of container
- ➔ Also, api version is needed

Code:

```
apiVersion: v1
kind: Pod
metadata:
  name: "mypod1"

spec:
  containers:
  - name: "myc1"
    image: "vimal13/apache-webserver-php"
```

**kubect1.exe create -f pod.yml**

```
C:\Users\Romio_juliete\Desktop\CKA_ws_akshayanil>kubect1 create -f pod.yml
pod/mypod1 created
```

```
C:\Users\Romio_juliete\Desktop\CKA_ws_akshayanil>kubect1 create -f pod.yml
pod/mypod1 created
```

```
C:\Users\Romio_juliete\Desktop\CKA_ws_akshayanil>kubect1.exe get pods
```

NAME	READY	STATUS	RESTARTS	AGE
myos	1/1	Running	0	19m
mypod1	1/1	Running	0	112s

```
C:\Users\Romio_juliete\Desktop\CKA_ws_akshayanil>
```