



## Summary

- How to check the Minikube status
  - **Command: minikube.exe status** [To check cluster status]

```
Select Command Prompt

c:\Program Files\Kubernetes\Minikube>minikube.exe status
minikube
type: Control Plane
host: Stopped
kubelet: Stopped
apiserver: Stopped
kubeconfig: Stopped

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

- How to check connectivity between the user and server
  - **Command: kubectl.exe cluster-info**

```
c:\Program Files\Kubernetes\Minikube>
c:\Program Files\Kubernetes\Minikube>kubectl.exe cluster-info
Kubernetes control plane is running at https://192.168.59.103:8443
CoreDNS is running at https://192.168.59.103:8443/api/v1/namespaces/kube-system/services/kube-dns:dns/proxy

To further debug and diagnose cluster problems, use 'kubectl cluster-info dump'.

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

- How to launch the pod with a run command
  - **SYNTAX: kubectl.exe run (Pod name ) (image name)**

```
c:\Program Files\Kubernetes\Minikube>kubectl.exe run myweb --image=httpd
pod/myweb created

c:\Program Files\Kubernetes\Minikube>kubectl.exe get pods
NAME      READY   STATUS    RESTARTS   AGE
myweb     0/1     ContainerCreating   0          6s
```

- When a user/admin hit the kubectl command internally they are converted into some program & send to the Kube API server
- How to write a YAML file
  - Syntax in the YAML file

```

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

spec:
  containers:
  - name: "myc1"
    image: "httpd"

```

- How to create a pod with a YAML file
  - **SYNTAX: kubectl.exe create -f (filename)**

```

C:\Users\Vimal Daga\Documents\Container2021-ws>kubectl.exe create -f first_pod.yml
pod/mypod1 created

C:\Users\Vimal Daga\Documents\Container2021-ws>kubectl.exe get pods

```

NAME	READY	STATUS	RESTARTS	AGE
mypod1	0/1	ContainerCreating	0	5s

- How to see the details of the pods
  - **Kubectl.exe describe pods** [To describe all pods ]
  - **Kubectl.exe describe pods/( pod name)** [ To see details of specific pod]

```

C:\Users\Vimal Daga\Documents\Container2021-ws>kubectl.exe describe pods

```

```

Name:          mypod1
Namespace:     default
Priority:       0
Node:          minikube/192.168.59.103
Start Time:    Thu, 25 Nov 2021 20:22:38 +0530
Labels:        <none>
Annotations:   <none>
Status:        Running
IP:            172.17.0.3
IPs:           IP: 172.17.0.3
Containers:
  myc1:
    Container ID:  docker://7cbf060c7cb019de127c4a86f9f53b7f2f7a8adcfc546a3c20238077e2e66af
    Image:         httpd
    Image ID:      docker-pullable://httpd@sha256:1d71eef54c08435c0be99877c408637f03112dc9f929fba3cccd1
99b02
    Port:          <none>
    Host Port:     <none>
    State:         Running

```

- **Kubectl.exe describe pods** command also shows the events which help to debug or troubleshoot