**How to create PODS**

**TASK 1**

* Vi Pod1.yml

kind: Pod

apiVersion: v1

metadata:

name: testpod

spec:

containers:

- name: c00

image: ubuntu

command: ["/bin/bash", "-c", "while true; do echo Hello-qasim; sleep 5 ; done"]

restartPolicy: Never # Defaults to Always

* kubectl apply -f pod1.yml // to create and build yml file
* kubectl get pods : //to check running pods
* kubectl get pods -o wides // to check where is your pods running in which cluster worker nodes
* kubectl get pod testpod // to check more deep details of pod and container”testpod is container name”
* kubectl logs -f testpod // now check what’s running in container used this command
* kubectl logs -f testpod -c c00 : to check specific container running details
* kubectl delete pod testpod :to delete pods

Text

Description automatically generated with low confidence

**TASK 2**

**Creating Annotations On Yml File , Annotation Is The Text Message Which Was Right For The Other Developer To Understand The Message**

vi pod11.yml

kind: Pod

apiVersion: v1

metadata:

name: testpod

annotation:

description: this is first pods file create by qasim

spec:

containers:

- name: c00

image: ubuntu

command: ["/bin/bash", "-c", "while true; do echo Hello-Qasim; sleep 5 ; done”]

restartPolicy: Never

**MULTI CONTAINER POD ENVIRONMENT**

**TASK 3**

kind: Pod

apiVersion: v1

metadata:

name: testpod3

spec:

containers:

- name: c00

image: ubuntu

command: ["/bin/bash", "-c", "while true; do echo hello qasim; sleep 5 ; done"]

- name: c01

image: ubuntu

command: ["/bin/bash", "-c", "while true; do echo Hello-sultani; sleep 5 ; done"]

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**POD ENVIRONMENT VARIABLES**

**TASK 4**

kind: Pod

apiVersion: v1

metadata:

name: environments

spec:

containers:

- name: c00

image: ubuntu

command: ["/bin/bash", "-c", "while true; do echo Hello-Qasim Sultani; sleep 5 ; done"]

env: # List of environment variables to be used inside the pod

- name: MYNAME

value: M Qasim Sultani

* kubectl exec environments -it -- bin/bash : to enter in pod

echo $MYNAME : to check name which we put in our env variable in file

**POD WITH PORTS**

**TASK 5**

kind: Pod

apiVersion: v1

metadata:

name: testpod4

spec:

containers:

- name: c00

image: httpd

ports:

- containerPort: 80

//Now check is the port working fine

kubectl get pods -o wide

curl pod ip:portyougive : curl 192.32.243.4:80

//it’s work message shown

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