Creating a JOB

Operation 1: Write a yaml file for the job that you are creating

```
apiVersion: batch/v1
kind: Job
metadata:
name: countdown
spec:
template:
metadata:
name: countdown
spec:
containers:
- name: counter
image: centos:7
command:
- "bin/bash"
- "-c"
- "for i in 9 8 7 6 5 4 3 2 1 ; do echo $i ; done"
restartPolicy: Never
```

Go to command line and create a yaml file and paste the above created specs.

nano <file name>.yaml

Once done hit Ctrl+s and then Ctrl+x to save & exit

Operation 2: next thing to do is to create the yaml file.

kubectl create –f <file name>

```
ubuntu@ip-172-31-90-123:~$ nano job1.yaml
ubuntu@ip-172-31-90-123:~$ kubectl create -f job1.yaml
job.batch/countdown created
ubuntu@ip-172-31-90-123:~$
```

Operation 3: to check if your job got created run the following command

kubectl get jobs

```
ubuntu@ip-172-31-90-123:~$ kubectl get jobs
NAME        COMPLETIONS   DURATION   AGE
countdown   1/1           11s        114s
ubuntu@ip-172-31-90-123:~$
```

To check the pod name who is doing this job

kubectl get pods –o wide

```
ubuntu@ip-172-31-90-123:~$ kubectl get pods -o wide
NAME                                READY   STATUS        RESTARTS   AGE     IP              NODE               NOMINATED NODE   READINESS GATES
countdown-4hlgk                     0/1     Completed     0          4m18s   192.168.41.156  ip-172-31-88-45    <none>           <none>
nginx-deployment-86dcfdf4c6-vqldx   1/1     Terminating   0          2d1h    192.168.124.4   ip-172-31-87-104   <none>           <none>
nginxd-9d6cbcc65-2zkvs              1/1     Running       0          86m     192.168.41.153  ip-172-31-88-45    <none>           <none>
nginxd-9d6cbcc65-6dwdv              1/1     Running       0          86m     192.168.41.154  ip-172-31-88-45    <none>           <none>
nginxd-9d6cbcc65-kfhd9              1/1     Running       0          86m     192.168.41.155  ip-172-31-88-45    <none>           <none>
rcsise-9xz8v                        1/1     Running       0          102m    192.168.41.152  ip-172-31-88-45    <none>           <none>
ubuntu@ip-172-31-90-123:~$
```

Operation 4: To get further details about the job run the following command

kubectl describe jobs/<job name>

e.g- kubectl describe jobs/countdown

```
aws | Services | Search [Alt+S]
Duration:         11s
Pods Statuses:    0 Active (0 Ready) / 1 Succeeded / 0 Failed
Pod Template:
  Labels:  batch.kubernetes.io/controller-uid=d40c32f2-ce89-405e-b01d-6c0d887e5137
           batch.kubernetes.io/job-name=countdown
           controller-uid=d40c32f2-ce89-405e-b01d-6c0d887e5137
           job-name=countdown
  Containers:
   counter:
    Image:      centos:7
    Port:       <none>
    Host Port:  <none>
    Command:
      bin/bash
      -c
      for i in 9 8 7 6 5 4 3 2 1 ; do echo $i ; done
    Environment:  <none>
    Mounts:       <none>
  Volumes:        <none>
Events:
  Type    Reason            Age    From            Message
  ----    ------            ----   ----            -------
  Normal  SuccessfulCreate  8m8s   job-controller  Created pod: countdown-4hlgk
  Normal  Completed         7m57s  job-controller  Job completed
ubuntu@ip-172-31-90-123:~$
```

Operation 5: To see the output go to the logs of the pod by running the following command

kubectl logs <pod name>