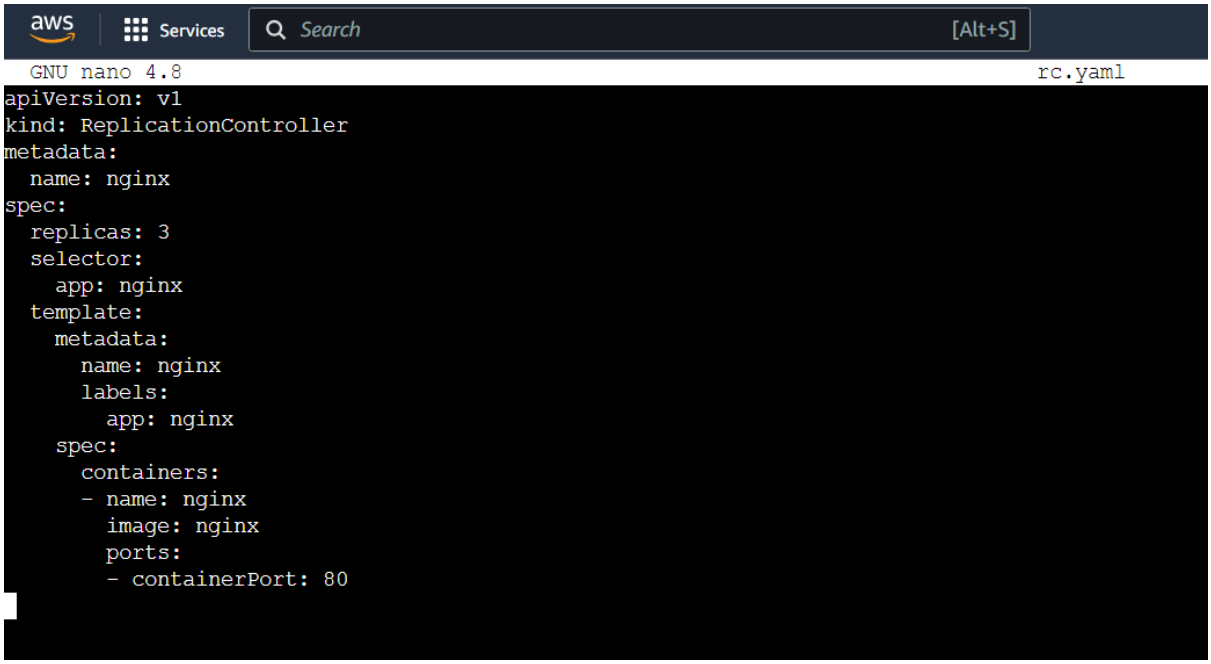
Creating a Replication controller

Step 1: Write a yaml file for the replication controller that you are creating

```
apiVersion: v1
kind: ReplicationController
metadata:
  name: nginx
spec:
  replicas: 3
  selector:
    app: nginx
  template:
    metadata:
      name: nginx
      labels:
        app: nginx
    spec:
      containers:
      - name: nginx
        image: nginx
        ports:
        - containerPort: 80
```

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



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

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

kubectl create –f <yaml file name>

```
ubuntu@ip-172-31-90-123:~$ nano rc.yaml
ubuntu@ip-172-31-90-123:~$ kubectl create -f rc.yaml
replicationcontroller/nginx created
ubuntu@ip-172-31-90-123:~$
```

Step 3: to check if replicas has been made run the following command

kubectl get pods

```
ubuntu@ip-172-31-90-123:~$ kubectl get pods
NAME                                READY   STATUS        RESTARTS   AGE
nginx-deployment-86dcfdf4c6-vqldx   1/1     Terminating   0          44h
nginx-dvk4p                         1/1     Running       0          51s
nginx-f9p8z                         1/1     Running       0          51s
nginx-fwmlm                         1/1     Running       0          51s
ubuntu@ip-172-31-90-123:~$
```

So the job of this replicationcontroller is to maintain 3 pods all the time

So let's try to delete one pod from it

```
ubuntu@ip-172-31-90-123:~$ kubectl get pods
NAME                                READY   STATUS        RESTARTS   AGE
nginx-deployment-86dcfdf4c6-vqldx   1/1     Terminating   0          44h
nginx-dvk4p                         1/1     Running       0          51s
nginx-f9p8z                         1/1     Running       0          51s
nginx-fwmlm                         1/1     Running       0          51s
ubuntu@ip-172-31-90-123:~$
```

Copy one pod- **nginx-fwmlm**

To delete-

kubectl delete pods <pod name>

```
ubuntu@ip-172-31-90-123:~$ kubectl delete pods nginx-fwmlm
pod "nginx-fwmlm" deleted
ubuntu@ip-172-31-90-123:~$
```

Now let’s check our pods it should have terminated this pod and have created one new pod.

```
ubuntu@ip-172-31-90-123:~$ kubectl get pods
NAME                                READY   STATUS        RESTARTS   AGE
nginx-deployment-86dcfdf4c6-vqldx   1/1     Terminating   0          44h
nginx-dvk4p                         1/1     Running       0          5m15s
nginx-f9p8z                         1/1     Running       0          5m15s
nginx-hhr88                         1/1     Running       0          60s
ubuntu@ip-172-31-90-123:~$
```

To delete these pods-

kubectl delete replicationcontroller/nginx

```
ubuntu@ip-172-31-90-123:~$ kubectl delete  replicationcontroller/nginx
replicationcontroller "nginx" deleted
ubuntu@ip-172-31-90-123:~$
```