TASK = Pod and services creating using manifest file

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Step 1

Create an EKS cluster & Node group

- Use cloudshell

- Connect the cluster
- Aws eks update-kubeconfig –region us east-2 –name Eks-cluster(clustername)

Step 2

Check nodes& cluster-info

- Kubectl get nodes
- Kubectl cluster-info
-

Step 3

Create   manifest file(exec.   Yml.)

- Pod.yml
- Services.yml

Step 4

Create a pods.yml file

```yaml
apiVersion: v1
kind: Pod
metadata:
      name: nginx
      labels:
       app: new_app
spec:
    containers:
    - name : nginx
      image: nginx:latest
      ports:
      - containerPort: 80
        protocol: TCP
    - name: tomcat
      image: tomcat:latest
      ports :
      - containerPort: 8080
        protocol: TCP
```

Services.yml (file)

```yaml
apiVersion: v1
kind: Service
metadata:
   name:  akshportsrv

spec:
  selector:
     app: new_app
  type: NodePort
  ports:
    - port: 80
      targetPort: 80
      nodePort:
      name: nginx
      protocol: TCP
    - port: 8080
      targetPort: 8080
      nodePort:
      name: tomcat
      protocol: TCP
```

Step 5

- This is pos.ym & services.yml file in create in my repo
- Git clone https://github.com/Akshay-7693032755/Kubernetes.git

Step 6

- Using manifest file
- Pods.yml
- Kubectl apply -f posd.yml
- Kubectl get pods

```
[cloudshell-user@ip-10-6-36-71 Kubernetes]$ kubectl apply -f Pods.yaml
pod/nginx created
[cloudshell-user@ip-10-6-36-71 Kubernetes]$ kubectl get pods
NAME      READY   STATUS              RESTARTS   AGE
akshay    1/1     Running             0          3h21m
chinmay   1/1     Running             0          155m
nginx     0/2     ContainerCreating   0          12s
[cloudshell-user@ip-10-6-36-71 Kubernetes]$ kubectl get pods
```

- Services.yml
- Kubectl apply -f services.yml
- Kubectl get services

```
[cloudshell-user@ip-10-6-36-71 Kubernetes]$ kubectl apply -f service.yml
service/akshportsrv created
[cloudshell-user@ip-10-6-36-71 Kubernetes]$ kubectl get svc
4NAME          TYPE        CLUSTER-IP       EXTERNAL-IP   PORT(S)                       AGE
akshportsrv    NodePort    10.100.180.91    <none>        80:32742/TCP,8080:32122/TCP   8s
chinmay        NodePort    10.100.238.165   <none>        80:31433/TCP                  156m
kubernetes     ClusterIP   10.100.0.1       <none>        443/TCP                       5h30m
```

Step 7

- Instance IP copy & past in browser
- Out put (first nginx (2) tomcat

NGINX PAGE HOST

TOMCAT PAGE HOST


Not secure
HTTP Status 404 – Not Found
Type Status Report
Description The origin server did not find a current representation for the target resource or is not willing to disclose that one exists.
Apache Tomcat/10.1.20