**Kubernetes Task Solutions**

**Task 1:**

**thor@jumphost ~$ vi pod-nginx.yaml**

**thor@jumphost ~$ kubectl create -f pod-nginx.yaml**

**pod/pod-nginx created**

**thor@jumphost ~$**

**thor@jumphost ~$ kubectl get pods**

**NAME READY STATUS RESTARTS AGE**

**pod-nginx 1/1 Running 0 19s**

**thor@jumphost ~$ kubectl get pod pod-nginx -o wide**

**NAME READY STATUS RESTARTS AGE IP NODE NOMINATED NODE READINESS GATES**

**pod-nginx 1/1 Running 0 36s 10.244.0.5 kodekloud-control-plane <none> <none>**

**thor@jumphost ~$ cat pod-nginx.yaml**

**apiVersion: v1**

**kind: Pod**

**metadata:**

**name: pod-nginx**

**labels:**

**app: nginx\_app**

**spec:**

**containers:**

**- name: nginx-container**

**image: nginx:latest**

**ports:**

**- containerPort: 80**

**Tack 2:**

**thor@jumphost ~$ vi nginx-deployment**

**thor@jumphost ~$ kubectl apply -f nginx-deployment**

**deployment.apps/nginx created**

**thor@jumphost ~$ cat nginx-deployment**

**apiVersion: apps/v1**

**kind: Deployment**

**metadata:**

**name: nginx**

**spec:**

**selector:**

**matchLabels:**

**app: nginx**

**template:**

**metadata:**

**labels:**

**app: nginx**

**spec:**

**containers:**

**- name: nginx-con1**

**image: nginx:latest**

**ports:**

**- containerPort: 80**

**thor@jumphost ~$**

**Task 3:**

**thor@jumphost ~$ kubectl create namespace dev**

**namespace/dev created**

**thor@jumphost ~$ vi dev-nginx-pod.yaml**

**thor@jumphost ~$ kubectl create -f dev-nginx-pod.yaml**

**Error from server (BadRequest): error when creating "dev-nginx-pod.yaml": Pod in version "v1" cannot be handled as a Pod: strict decoding error: unknown field "spec.containers[0].posts"**

**thor@jumphost ~$ vi dev-nginx-pod.yaml**

**thor@jumphost ~$ kubectl create -f dev-nginx-pod.yaml**

**pod/dev-nginx-pod created**

**thor@jumphost ~$**

**thor@jumphost ~$ kubectl get namespace**

**NAME STATUS AGE**

**default Active 41m**

**dev Active 5m35s**

**kube-node-lease Active 41m**

**kube-public Active 41m**

**kube-system Active 41m**

**local-path-storage Active 41m**

**thor@jumphost ~$ kubectl get pods**

**No resources found in default namespace.**

**thor@jumphost ~$ kubectl get pods -n dev**

**NAME READY STATUS RESTARTS AGE**

**dev-nginx-pod 1/1 Running 0 49s**

**thor@jumphost ~$ kubectl get pods -n dev -o wide**

**NAME READY STATUS RESTARTS AGE IP NODE NOMINATED NODE READINESS GATES**

**dev-nginx-pod 1/1 Running 0 60s 10.244.0.5 kodekloud-control-plane <none> <none>**

**thor@jumphost ~$ cat dev-nginx-pod.yaml**

**apiVersion: v1**

**kind: Pod**

**metadata:**

**name: dev-nginx-pod**

**namespace: dev**

**spec:**

**containers:**

**- name: nginx-container**

**image: nginx:latest**

**ports:**

**- containerPort: 80**

**thor@jumphost ~$**