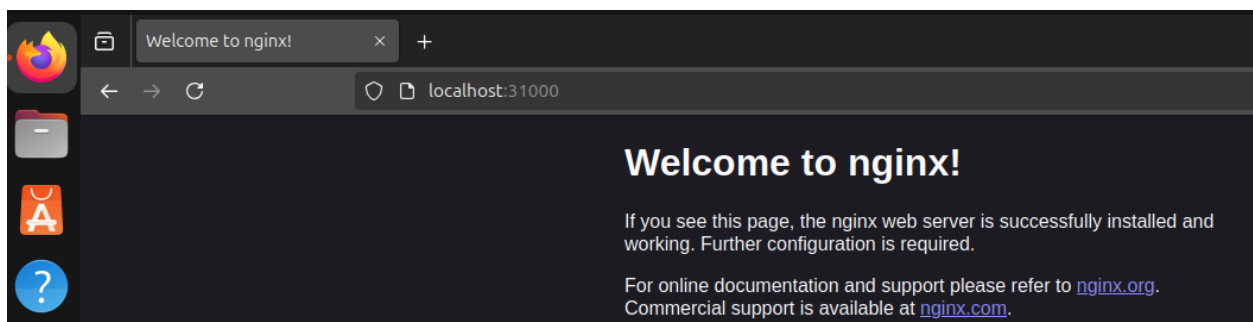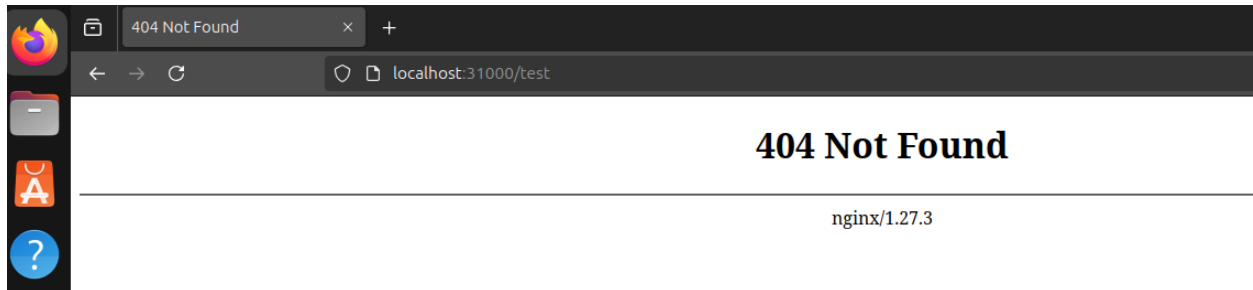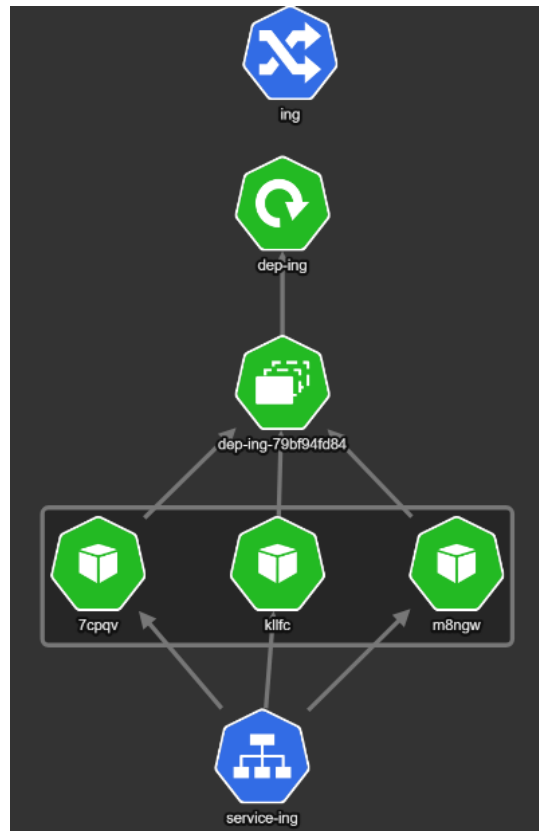# Deployment with service and ingress

```yaml
apiVersion: apps/v1
kind: Deployment
metadata:
  name: dep-ing
  labels:
    dep: ing
spec:
  replicas: 3
  selector:
    matchLabels:
      dep: ing
  template:
    metadata:
      name: pod-ing
      labels:
        dep: ing
    spec:
      containers:
        - name: cont-ing
          image: nginx
          ports:
            - containerPort: 80
```

```yaml
apiVersion: v1
kind: Service
metadata:
  name: service-ing
spec:
  type: NodePort
  selector:
    dep: ing
  ports:
    - port: 8889
      targetPort: 80
      nodePort: 31000
```

```yaml
apiVersion: networking.k8s.io/v1
kind: Ingress
metadata:
  name: ing
spec:
  rules:
    - host: localhost
      http:
        paths:
          - path: /test
            pathType: Prefix
            backend:
              service:
                name: service-ing
                port:
                  number: 8889
```

```
adham@master:/adhamk8s$ vim ing.yml
adham@master:/adhamk8s$
adham@master:/adhamk8s$ kubectl apply -f ing.yml
ingress.networking.k8s.io/ing configured
adham@master:/adhamk8s$
adham@master:/adhamk8s$ vim deploy-ingress.yml
adham@master:/adhamk8s$
adham@master:/adhamk8s$ kubectl apply -f deploy-ingress.yml
deployment.apps/dep-ing unchanged
adham@master:/adhamk8s$
adham@master:/adhamk8s$ vim service-ing.yml
adham@master:/adhamk8s$
adham@master:/adhamk8s$ kubectl apply -f service-ing.yml
service/service-ing unchanged
adham@master:/adhamk8s$
```

```
adham@master:/adhamk8s$ kubectl get pod
NAME                              READY   STATUS    RESTARTS       AGE
auto-deploy-6bcdb5d77b-264k7      1/1     Running   1 (52m ago)    132m
auto-deploy-6bcdb5d77b-2wkj5      1/1     Running   1 (52m ago)    132m
auto-deploy-6bcdb5d77b-cx6zh      1/1     Running   1 (52m ago)    132m
auto-deploy-6bcdb5d77b-w6bhs      1/1     Running   1 (52m ago)    132m
dep-ing-79bf94fd84-7cpqv          1/1     Running   1 (52m ago)    132m
dep-ing-79bf94fd84-kllfc          1/1     Running   1 (52m ago)    132m
dep-ing-79bf94fd84-m8ngw          1/1     Running   1 (52m ago)    132m
deploy-web-6498fd9b8c-k952b       1/1     Running   1 (52m ago)    132m
deploy-web-6498fd9b8c-qpk22       1/1     Running   1 (52m ago)    132m
deploy-web-6498fd9b8c-rd7lp       1/1     Running   1 (52m ago)    132m
kubeview-78dd597bd8-gswkz         1/1     Running   1 (52m ago)    132m
podaff                            1/1     Running   1 (52m ago)    79m
rollout-deploy-7647484798-9stjn   1/1     Running   1 (52m ago)    132m
rollout-deploy-7647484798-fqtkd   1/1     Running   1 (52m ago)    132m
rollout-deploy-7647484798-tp6vl   1/1     Running   1 (52m ago)    132m
adham@master:/adhamk8s$ kubectl get deploy
NAME             READY   UP-TO-DATE   AVAILABLE   AGE
auto-deploy      4/4     4            4           4d1h
dep-ing          3/3     3            3           3h33m
deploy-web       3/3     3            3           4d2h
kubeview         1/1     1            1           5d1h
rollout-deploy   3/3     3            3           3d8h
adham@master:/adhamk8s$ kubectl get ingress
NAME   CLASS    HOSTS       ADDRESS   PORTS   AGE
ing    <none>   localhost             80      36m
adham@master:/adhamk8s$
```

```
adham@node1:~$ kubectl get pod
NAME                              READY   STATUS    RESTARTS       AGE
auto-deploy-6bcdb5d77b-264k7      1/1     Running   1 (52m ago)    133m
auto-deploy-6bcdb5d77b-2wkj5      1/1     Running   1 (52m ago)    133m
auto-deploy-6bcdb5d77b-cx6zh      1/1     Running   1 (52m ago)    133m
auto-deploy-6bcdb5d77b-w6bhs      1/1     Running   1 (52m ago)    133m
dep-ing-79bf94fd84-7cpqv          1/1     Running   1 (52m ago)    133m
dep-ing-79bf94fd84-kllfc          1/1     Running   1 (52m ago)    133m
dep-ing-79bf94fd84-m8ngw          1/1     Running   1 (52m ago)    133m
deploy-web-6498fd9b8c-k952b       1/1     Running   1 (52m ago)    133m
deploy-web-6498fd9b8c-qpk22       1/1     Running   1 (52m ago)    133m
deploy-web-6498fd9b8c-rd7lp       1/1     Running   1 (52m ago)    133m
kubeview-78dd597bd8-gswkz         1/1     Running   1 (52m ago)    133m
podaff                            1/1     Running   1 (52m ago)    79m
rollout-deploy-7647484798-9stjn   1/1     Running   1 (52m ago)    133m
rollout-deploy-7647484798-fqtkd   1/1     Running   1 (52m ago)    133m
rollout-deploy-7647484798-tp6vl   1/1     Running   1 (52m ago)    133m
adham@node1:~$
```