Jenkins with Loadbalancers Task 4 by Subiksha P R 6.02.2025

Definition: A **load balancer** is a system that distributes incoming network traffic across multiple servers to ensure no single server is overwhelmed, improving performance, reliability, and availability.

START MINIKUBE

Steps:

Step 1: create vim files vim

t1.txt vim t2.txt Step 2: Apply

kubectl apply -f t1.txt kubectl

apply -f t2.txt Step 3: check

context kubectl config

current-context Step 4: start

service minikube service

depth Screenshots:

V1.txt

```
subiksha_ubuntu@SUBIKSHA: × + ~
apiVersion: apps/v1
kind: Deployment
metadata:
  labels:
    app: my-jenkins
 name: my-jenkins
spec:
  replicas: 1
  selector:
    matchLabels:
      app: my-jenkins
  template:
    metadata:
      labels:
        app: my-jenkins
    spec:
      containers:
       - name: my-jenkins
image: subiksha17/my-jenkins
imagePullPolicy: Always
         ports:
          - containerPort: 80
           name: http
protocol: TCP
```

V2.txt

```
subiksha_ubuntu@SUBIKSHA: X
apiVersion: v1
kind: Service
metadata:
  name: test
  labels:
    app: test
spec:
  selector:
    app: test
  ports:
     - name: http
       port: 80
       protocol: TCP
       targetPort: 80
  type: NodePort
subiksha_ubuntu@SUBIKSHA:~$ kubectl apply -f t1.txt
deployment.apps/my-jenkins unchanged subiksha_ubuntu@SUBIKSHA:~$ kubectl apply -f t2.txt
service/test unchanged
subiksha_ubuntu@SUBIKSHA:~$ kubectl config current-context
minikube
subiksha_ubuntu@SUBIKSHA:~$
```

subiksha_ubur	ntu@SUBI	KSHA:~\$ minikul	be service depth
NAMESPACE	NAME	TARGET PORT	URL
default	depth	80	http://192.168.49.2:3016
≯ Starting	tunnel +	for service de	nth.
NAMESPACE	NAME	TARGET PORT	URL
default	depth		http://127.0.0.1:37853
<pre>http://12</pre>	27.0.0.1	: 37853	in default browser driver on linux, the term

Output:

