

## Lab #5. Install Jenkins (namespace)



- `sudo kubectl create namespace jenkins`

- `nano jenkins.yaml:`

- `apiVersion: apps/v1`
- `kind: Deployment`
- `metadata:`
  - `name: jenkins`
- `spec:`
  - `replicas: 1`
  - `selector:`
    - `matchLabels:`
      - `app: jenkins`
  - `template:`
    - `metadata:`
      - `labels:`
        - `app: jenkins`
    - `spec:`
      - `containers:`
        - `- name: jenkins`
        - `image: jenkins/jenkins:lts`
        - `ports:`
          - `- name: http-port`
          - `containerPort: 8080`
          - `- name: jnlp-port`
          - `containerPort: 50000`
      - `volumeMounts:`
        - `- name: jenkins-vol`



## Lab #5. Install Jenkins (namespace)



- `sudo kubectl create -f jenkins.yaml --namespace jenkins`
- `sudo kubectl get pods -n jenkins`

```
loki@ubuntumaster:~$ sudo kubectl get pods -n jenkins
NAME                                READY   STATUS    RESTARTS   AGE
jenkins-7d4f76684f-zwcp2            1/1     Running   0           101s
```

- `nano jenkins-service.yaml`

- `apiVersion: v1`
- `kind: Service`
- `metadata:`
  - `name: jenkins`
- `spec:`
  - `type: NodePort`
  - `ports:`
    - `- port: 8080`
    - `targetPort: 8080`
    - `nodePort: 30000`
  - `selector:`
    - `app: jenkins`
- `---`
- `apiVersion: v1`
- `kind: Service`
- `metadata:`
  - `name: jenkins-jnlp`
- `spec:`
  - `type: ClusterIP`
  - `ports:`
    - `- port: 50000`
    - `targetPort: 50000`
  - `selector:`
    - `app: jenkins`



## Lab #5. Install Jenkins (namespace)



- `sudo kubectl create -f jenkins-service.yaml --namespace jenkins`
- `sudo kubectl get services --namespace jenkins`

```
loki@ubuntumaster:~$ sudo kubectl get services --namespace jenkins
```

| NAME         | TYPE      | CLUSTER-IP    | EXTERNAL-IP | PORT(S)        | AGE |
|--------------|-----------|---------------|-------------|----------------|-----|
| jenkins      | NodePort  | 10.96.197.40  | <none>      | 8080:30000/TCP | 25s |
| jenkins-jnlp | ClusterIP | 10.104.147.93 | <none>      | 50000/TCP      | 25s |

- Access <http://your master ip:30000>
- `sudo kubectl get pods -n jenkins`
  - we need to know “NAME”
- `sudo kubectl logs “NAME” -n jenkins`
  - we need to password

```
Jenkins initial setup is required. An admin user has been created and a password generated.  
Please use the following password to proceed to installation:
```

```
9974780e872b4f70bac175a231ac3bd0
```

```
This may also be found at: /var/jenkins_home/secrets/initialAdminPassword
```

