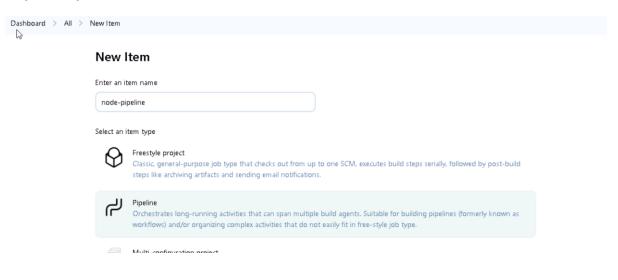
Q1 -CICD DOCUMENT

Repository creation:



kubemaster@kubemaster-vm:~% cd /var/lib/jenkins/workspace/node-pipeline
kubemaster@kubemaster-vm:/var/lib/jenkins/workspace/node-pipeline% ls
app.js dockerfile package.json README.md
kubemaster@kubemaster-vm:/var/lib/jenkins/workspace/node-pipeline%

Building docker image

Creating deployments and service:

Deployment.yaml file

```
GNU nano 4.8
piVersion: apps/v1
kind: Deployment
metadata:
name: myapp
spec:
selector:
matchLabels:
app: myapp
template:
metadata:
labels:
app: myapp
spec:
containers:
- name: myapp
image: mginx
resources:
limits:
memory: "128Mi"
cpu: "500m"
ports:
- containerPort: 9090
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Modifi
                                                                                                                                                                                                                                                                                                                                                                             deployment.yaml
```

Service.yaml

```
# GNU nano 4.8
apiVersion: v1
kind: Service
metadata:
name: myapp
                                                                                                                                                                      service.yaml
  spec:
selector:
    app: myapp
ports:
- port: 80
targetPort: 3000
```

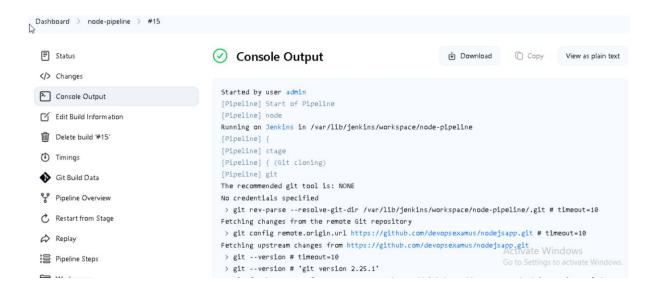
Jenkins pipeline

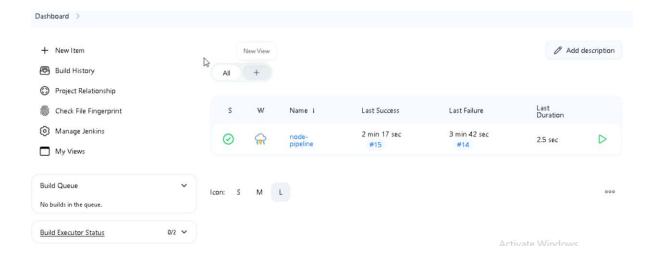
Build and Test stage:

```
ocubt :
    1 v pipeline {
   2
           agent any
   4 ~
           stages {
   5 ~
               stage('Git cloning') {
   6 v
                   steps {
                       git branch: 'main', url: 'https://github.com/devopsexamus/nodejsapp.git
                   }
               }
   10 V
              stage('Build and test'){
   11~
              steps {
                 withCredentials([usernamePassword(credentialsId: 'docker-cred', passwordVaria
   12 v
   13
                    docker build -t karthik449/myapp-z .
   14
   15
```

```
Script ?
  17
  18
            }
  19 ~
            stage('Deployment'){
  20 V
                steps{
  21~
               withCredentials([file(credentialsId: 'config-cred', variable: 'KUBECONFIG')]) {
  22
  23
                       sh 'kubectl apply -f deployment.yaml'
                       sh 'kubectl apply -f service.yaml'
  24
  25
                    }
  27
  28
           }
  29
      }
  30
```

Ilse Gronw Sandhov ?





Verifying service and deployment