Jenkinsfile deploy

1- stage: Check Nexus Tag

A- Description:

- the stage used to check commit id exist in nexus repository or not.
- The response variable used to execute curl to get the artifact url from the Nexus repository.
- if response contains 404 output message commit id not exist else output exist and continue pipeline

B-code:

```
stage('Check Nexus Tag') {
   steps {
    script {
     commitId = 'params.COMMIT_ID'
     echo "Commit ID: ${params.COMMIT_ID}"
     url = "${NEXUS_URL}/repository/maven-releases/quantum/solutions/io/next-
gen-radio/${params.COMMIT_ID}/next-gen-radio-${params.COMMIT_ID}.zip"
     response = sh(script: "curl -sS -X GET ${url}", returnStdout: true)
     echo "response: ${response}"
     if (response.contains("404 - Nexus Repository Manager")) {
      error "Version tag '${params.COMMIT_ID}' does not exist in Nexus for
artifact '${GROUP_ID}:${ARTIFACT_ID}'"
     else {
       echo "Version tag '${params.COMMIT_ID}' exists in Nexus for artifact '$
{GROUP_ID}:${ARTIFACT_ID}'''
    }
```

2- stage: pull code from Nexus

A- Description:

 but of stage is execute curl command to download the artifact from the Nexus repository with the specific name.

B-code:

```
stage('pull code from Nexus') {
   steps {
    script {
     url = "${NEXUS_URL}/repository/maven-releases/quantum/solutions/io/next-
gen-radio/${params.COMMIT_ID}/next-gen-radio-${params.COMMIT_ID}.zip"
     sh "curl -L -o project.zip ${url}"
   }
3- stage : unzip
     A- Description:
        • the stage used to unzip the artifact because it is
           download file.zip
     B-code:
stage ('unzip') {
   steps {
    sh "apt-get install unzip"
    sh "unzip -t project.zip"
4- stage : build docker image :
     A- Description:

    the stage used to build docker image with tag

     B-code:
stage('Build Docker Image') {
   steps {
    sh 'docker build – o hamza:sghaier .'
5- stage: Push to Nexus
     A- Description:

    the stage used to push docker image to nexus repository

           with specific tag
     B-code:
stage('Push to Nexus') {
  steps {
   withCredentials([usernamePassword(credentialsId: 'nexus-jenkins', usernameVariable:
'NEXUS_USERNAME', passwordVariable: 'NEXUS_PASSWORD')]) {
```

```
sh "docker login -u wissem --password wissem 172.20.0.10:8082/repository/dockerhosted-
repo"
     sh "docker tag hamza:sghaier 172.20.0.10:8082/repository/dockerhosted-repo/hamza:sghaier"
     sh "docker push 172.20.0.10:8082/repository/dockerhosted-repo/hamza:sghaier"
   }
  }
6- stage : run container
      A- Description:
         • this stage alow to run container with number of port and
            image that can be builded
     B-Code:
stage('run container'){
   steps {
     sh " docker run -dit --name laravel -p 8888:80 hamza:'{params.COMMIT_ID}'"
}
jenkinsfilecd:
def url
def response
def commitId
pipeline {
 agent any
 parameters {
  string(name:'COMMIT_ID', defaultValue: ", description: ")
 environment {
  GROUP_ID = 'quantum.solutions.io'
  ARTIFACT_ID = 'next-gen-radio'
  NEXUS_URL = 'http://172.20.0.10:8081'
  REPOSITORY = 'maven-releases'
  NEXUS REGISTRY = '172.20.0.10:8082/'
  NEXUS_CREDENTIALS = credentials('nexus-jenkins')
  NEXUS_USERNAME = 'wissem'
  NEXUS PASSWORD = 'wissem'
 stages {
   stage('Check Nexus Tag') {
   steps {
    script {
     commitId = 'params.COMMIT_ID'
```

echo "Commit ID: \${params.COMMIT_ID}"

```
url = "${NEXUS_URL}/repository/maven-releases/quantum/solutions/io/next-gen-radio/$
{params.COMMIT ID}/next-gen-radio-${params.COMMIT ID}.zip"
     response = sh(script: "curl -sS -X GET ${url}", returnStdout: true)
     echo "response: ${response}"
     if (response.contains("404 - Nexus Repository Manager")) {
       error "Version tag '${params.COMMIT_ID}' does not exist in Nexus for artifact '$
{GROUP_ID}:${ARTIFACT_ID}'''
      }
     else {
       echo "Version tag '${params.COMMIT ID}' exists in Nexus for artifact '${GROUP ID}:$
{ARTIFACT_ID}'"
     }
     }
   }
   post {
    success {
     slackSend (color: 'good', message: "check to nexus with '${params.COMMIT_ID}'
succeeded!")
     }
    failure {
     slackSend (color: 'danger', message:"check to nexus with '${params.COMMIT_ID}' failed!")
   }
  stage('pull code from Nexus') {
   steps {
    script {
     url = "${NEXUS_URL}/repository/maven-releases/quantum/solutions/io/next-gen-radio/$
{params.COMMIT_ID}/next-gen-radio-${params.COMMIT_ID}.zip"
     sh "curl -L -o project.zip ${url}"
   }
   post {
    success {
     slackSend (color: 'good', message: "pull from nexus succeeded!")
    failure {
     slackSend (color: 'danger', message: "pull from nexus failed!")
   }
  stage ('unzip') {
   steps {
    sh "apt-get install unzip"
    sh "unzip -o project.zip"
   post {
     slackSend (color: 'good', message: "unzip succeeded!")
    failure {
     slackSend (color: 'danger', message: "unzip failed!")
```

```
stage('Build Docker Image') {
   steps {
    sh "chown -R jenkins:jenkins."
    sh "docker build -f dockerfile -t hamza:'${params.COMMIT_ID}'."
   post {
    success {
     slackSend (color: 'good', message: "Build Docker Image succeeded!")
    failure {
     slackSend (color: 'danger', message: "Build Docker Image failed!")
   }
  }
  stage('Push to Nexus') {
   steps {
    withCredentials([usernamePassword(credentialsId: 'nexus-jenkins', usernameVariable:
'NEXUS_USERNAME', passwordVariable: 'NEXUS_PASSWORD')]) {
     sh "docker login -u wissem --password wissem 172,20.0.10:8082/repository/dockerhosted-
repo"
     sh "docker tag hamza:'${params.COMMIT_ID}' 172.20.0.10:8082/repository/dockerhosted-
repo/hamza:'${params.COMMIT_ID}'"
     sh "docker push 172.20.0.10:8082/repository/dockerhosted-repo/hamza:'$
{params.COMMIT ID}'"
   }
   post {
    success {
     slackSend (color: 'good', message: "Push image to Nexus succeeded!")
    failure {
     slackSend (color: 'danger', message: "Push image to Nexus failed!")
   }
  stage('run container'){
    sh " docker run -dit --name laravel -p 8888:80 hamza:'${params.COMMIT_ID}'"
   post {
    success {
     slackSend (color: 'good', message: "run container succeeded!")
    failure {
     slackSend (color: 'danger', message: "run container failed!")
   }
  }
```

```
post {
  /*always {
   cleanWs()
  }*/
  success {
   slackSend channel: '#jenkins-alerts-pfe-2023', message: " deploy ${currentBuild.result} for job
$\{\text{env.JOB_NAME}\} #$\{\text{env.BUILD_NUMBER}\} (duration: $\{\text{currentBuild.durationString}\}).
Check out the deploy at ${env.BUILD_URL}"
   emailext (
    to: 'wissemsghaier2000@gmail.com',
    subject: "Job '${env.JOB_NAME}'",
    body: "deploy ${currentBuild.result} for job ${env.JOB NAME} at ${env.BUILD URL}
and the build number $BUILD_NUMBER"
  }
  failure {
   slackSend channel: '#jenkins-alerts-pfe-2023', message: "deploy ${currentBuild.result} for $
{env.JOB_NAME} #${env.BUILD_NUMBER} (duration: ${currentBuild.durationString}). Check
out the deploy at ${env.BUILD URL}"
   emailext (
    to: 'wissemsghaier2000@gmail.com',
    subject: "Job '${env.JOB_NAME}'",
    body: "deploy ${currentBuild.result} for job ${env.JOB_NAME} at ${env.BUILD_URL}
and the build number $BUILD_NUMBER"
 }
```

