

PIPELINE SCRIPT

```
pipeline {
  agent any

  environment {
    DIRECTORY_PATH = "/"
    TESTING_ENVIRONMENT = "test"
    PRODUCTION_ENVIRONMENT = "harsh"
  }

  stages {
    stage('Build') {
      steps {
        echo 'fetch the source code from the directory path
specified by the environment variable'
        echo 'compile the code and generate any necessary
artifacts'
      }
    }

    stage('Unit and Integration Tests') {
      steps {
        echo 'Running unit tests'
        echo 'Running integration tests'
      }
      post {
```

```
        success {
            emailx body: "The Unit and Integration Test is
successful.",
                subject: "Testing Stage Success",
                to: "zaidvora58@gmail.com"
        }
    }
}
```

```
stage('Code Quality Check') {
    steps {
        echo 'check the quality of the code'
    }
}
```

```
stage('Security Scan') {
    steps {
        echo 'used checkstyle, pmd, etc. to scan the code for
vulnerabilities...'
    }
    post {
        success {
            emailx body: "The Security scan is successful.",
                subject: "Security Stage Success",
                to: "zaidvora58@gmail.com"
        }
    }
}
```

```
}
```

```
stage('Deploy') {  
    steps {  
        echo 'deploy the application to staging server, an EC2  
instance...'  
    }  
}
```

```
stage('Integration test on staging') {  
    steps {  
        echo 'Integration test running on staging server...'  
    }  
}
```

```
stage('Approval') {  
    steps {  
        echo 'waiting for approval by the admin....'  
        sleep 10  
    }  
}
```

```
stage('Deploy to Production') {  
    steps {  
        echo 'deploying code to prod environment  
(${env.PRODUCTION_ENVIRONMENT})'  
    }  
}
```

```

    }
}

post {
    always {
        archiveArtifacts artifacts: '**/log/**', allowEmptyArchive: true

        // Send an email with the build log attached
        emailx(
            to: 'zaidvora58@gmail.com',
            subject: "Jenkins Job ${env.JOB_NAME} - Build
#${env.BUILD_NUMBER} - ${currentBuild.currentResult}",
            body: """"<p>Job ${env.JOB_NAME} - Build
#${env.BUILD_NUMBER} - ${currentBuild.currentResult}</p>
                <p>Please find the attached log file for
details.</p>""",
            attachLog: true
        )
    }
}
}

```

CONSOLE OUTPUT

```

Started by user Zaid vora
[Pipeline] Start of Pipeline
[Pipeline] node
Running on Jenkins in
C:\ProgramData\Jenkins\.jenkins\workspace\Jenkins-git
[Pipeline] {
[Pipeline] withEnv
[Pipeline] {

```

```

[Pipeline] stage
[Pipeline] { (Build)
[Pipeline] echo
fetch the source code from the directory path specified by the
environment variable
[Pipeline] echo
compile the code and generate any necessary artifacts
[Pipeline] }
[Pipeline] // stage
[Pipeline] stage
[Pipeline] { (Unit and Integration Tests)
[Pipeline] echo
Running unit tests
[Pipeline] echo
Running integration tests
Post stage
[Pipeline] emailx
Sending email to: zaidvora58@gmail.com
[Pipeline] }
[Pipeline] // stage
[Pipeline] stage
[Pipeline] { (Code Quality Check)
[Pipeline] echo
check the quality of the code
[Pipeline] }
[Pipeline] // stage
[Pipeline] stage
[Pipeline] { (Security Scan)
[Pipeline] echo
used checkstyle, pmd, etc. to scan the code for vulnerabilities...
Post stage
[Pipeline] emailx
Sending email to: zaidvora58@gmail.com
[Pipeline] }
[Pipeline] // stage
[Pipeline] stage
[Pipeline] { (Deploy)
[Pipeline] echo
deploy the application to staging server, an EC2 instance...
[Pipeline] }
[Pipeline] // stage
[Pipeline] stage
[Pipeline] { (Integration test on staging)
[Pipeline] echo
Integration test running on staging server...
[Pipeline] }
[Pipeline] // stage
[Pipeline] stage
[Pipeline] { (Approval)
[Pipeline] echo
waiting for approval by the admin....
[Pipeline] sleep
Sleeping for 10 sec
[Pipeline] }
[Pipeline] // stage
[Pipeline] stage

```

```
[Pipeline] { (Deploy to Production)
[Pipeline] echo
deploying code to prod environment (${env.PRODUCTION_ENVIRONMENT})
[Pipeline] }
[Pipeline] // stage
[Pipeline] stage
[Pipeline] { (Declarative: Post Actions)
[Pipeline] archiveArtifacts
Archiving artifacts
`**/log/**` doesn't match anything, but `**` does. Perhaps that's
what you mean?
No artifacts found that match the file pattern "**/log/**".
Configuration error?
[Pipeline] emailx
Sending email to: zaidvora58@gmail.com
[Pipeline] }
[Pipeline] // stage
[Pipeline] }
[Pipeline] // withEnv
[Pipeline] }
[Pipeline] // node
[Pipeline] End of Pipeline
Finished: SUCCESS
```