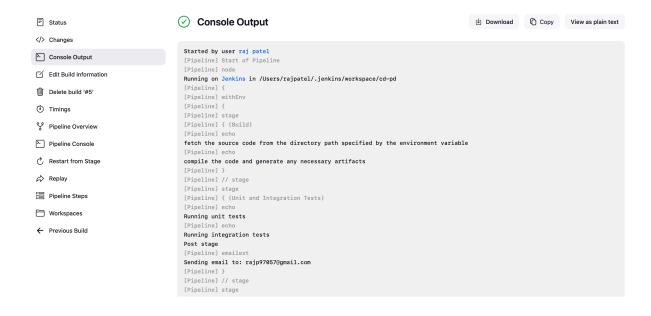**PIPELINE SCRIPT**

```
pipeline {
    agent any

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

    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 {
```

```
                emailext body: "The Unit and Integration Test is successful.",

                subject: "Testing Stage Success",

                to: "rajp97057@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 {

                emailext body: "The Security scan is successful.",

                subject: "Security Stage Success",

                to: "rajp97057@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

        emailext(

            to: 'rajp97057@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**   ⬇ Download   ⧉ Copy   View as plain text

```
Started by user raj patel
[Pipeline] Start of Pipeline
[Pipeline] node
Running on Jenkins in /Users/rajpatel/.jenkins/workspace/cd-pd
[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] emailext
Sending email to: rajp97057@gmail.com
[Pipeline] }
[Pipeline] // stage
[Pipeline] stage
```

```
[Pipeline] emailext
Sending email to: rajp97057@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] emailext
Sending email to: rajp97057@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
```

```
[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 (raj)
[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] emailext
Sending email to: rajp97057@gmail.com
[Pipeline] }
[Pipeline] // stage
[Pipeline] }
[Pipeline] // withEnv
[Pipeline] }
[Pipeline] // node
[Pipeline] End of Pipeline
Finished: SUCCESS
```