Day 5: Jenkins

Demo Document - I

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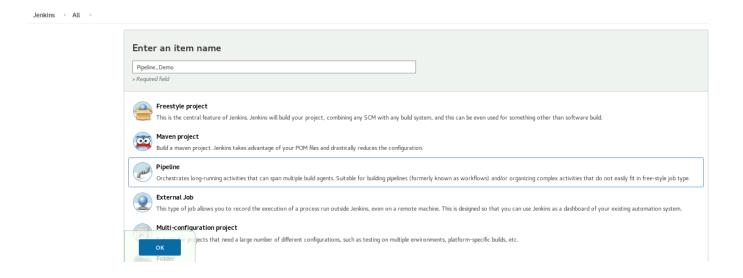
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Demo I: Build a Pipeline project using Groovy Scipt.

Step1: Create a Pipeline Project by navigating to Jenkins -> New Item

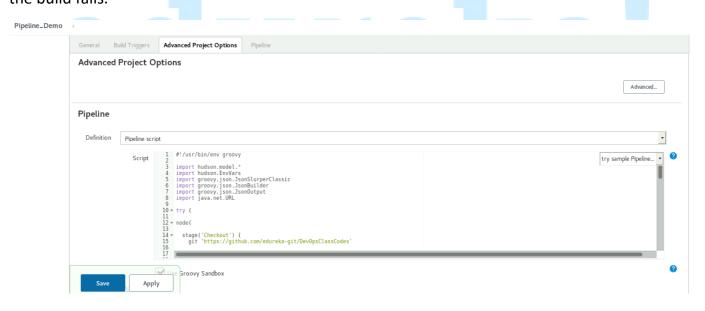


Step-2 Create a Pipeline project "Pipeline_Demo" for your job. Select pipeline while creating.



Step-3: Go to your project and start configuring it.

Step-4: Go to the Advanced Project option and write your code within the Pipeline definition. The code is mentioned below if you want to copy and paste the code to generate the pipeline. Replace the "some email id" in the 2nd last line with the email_id you want to send email to if the build fails.



#!/usr/bin/env groovy

```
import hudson.model.*
import hudson.EnvVars
import groovy.json.JsonSlurperClassic
import groovy.json.JsonBuilder
```

```
import groovy.json.JsonOutput
import java.net.URL
try {
node {
  stage('Checkout') {
    git 'https://github.com/edureka-git/DevOpsClassCodes'
  }
  stage('Build') {
      dir('') {
        sh 'mvn -B -V -U -e clean package'
  stage ('Email') {
    emailext attachLog: true, body: 'The status of the build can be obtained
from the build log attached', subject: 'The build update is ', to: 'some
email id'
}
stage('Deployment') {
            // Deployment
                script {
                    echo "deployment"
                    sh 'cp
/var/lib/jenkins/workspace/Pipeline Demo/target/addressbook.war
/usr/share/tomcat/webapps'
        }
```

```
stage('publish html report') {
                echo "publishing the html report"
                publishHTML([allowMissing: false, alwaysLinkToLastBuild:
false, keepAll: false, reportDir: '', reportFiles: 'index.html', reportName:
'HTML Report', reportTitles: ''])
        stage('clean up') {
                echo "cleaning up the workspace"
                cleanWs()
        }
}// node
} // try end
finally {
 (currentBuild.result != "ABORTED") && node("master") {
         // Send e-mail notifications for failed or unstable builds.
     // currentBuild.result must be non-null for this step to work.
    step([$class: 'Mailer',
        notifyEveryUnstableBuild: true,
        recipients: 'some email id',
        sendToIndividuals: true])
 }
}
```

Step 5. If you are getting any error on deployment stage, make sure you are copying the war file to webapps folder correctly i.e., provide the war file location and tomcat directory path correctly.

In my case, it is "sh 'cp /var/lib/jenkins/workspace/Pipeline_Demo/target/addressbook.war /usr/share/tomcat/webapps'"

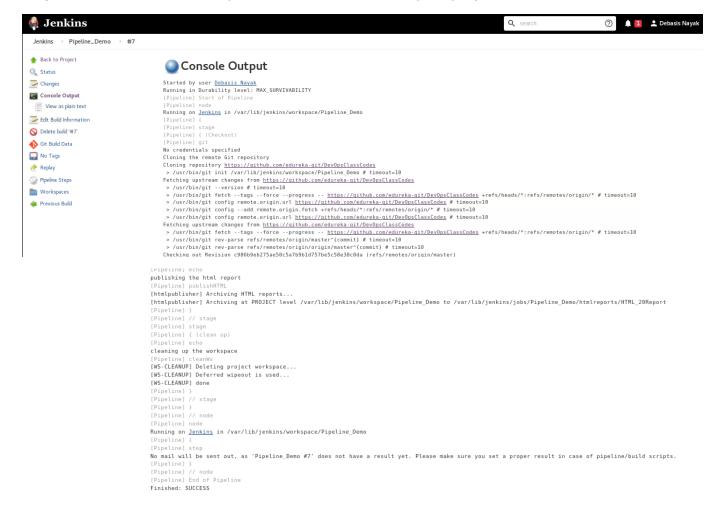
The destination path is as below

```
[centos@ip-172-31-20-57 tomcat]$ cd webapps/
[centos@ip-172-31-20-57 webapps]$ ls
docs examples host-manager manager ROOT sample webapp webapp.war
[centos@ip-172-31-20-57 webapps]$ pwd
/usr/share/tomcat/webapps
```

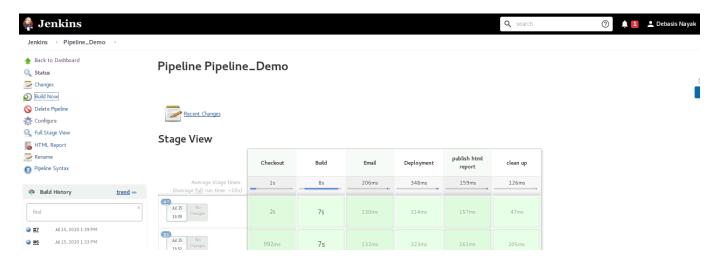
Source path of the war file is as below.

/var/lib/jenkins/workspace/Pipeline Demo/target/addressbook.war

- **Step 6**. Then save the code and click on build now to build the project.
- **Step 7**. If you're getting some error related to html report then go to manage jenkins->manage plugins->available and install html publisher plugin.
- **Step 8**. Go to the console output and check the build of your project.



Step-9: Go back to your project and check the pipeline flow.



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