Module 4: Continuous Integration Using Jenkins

Demo Document

edureka!

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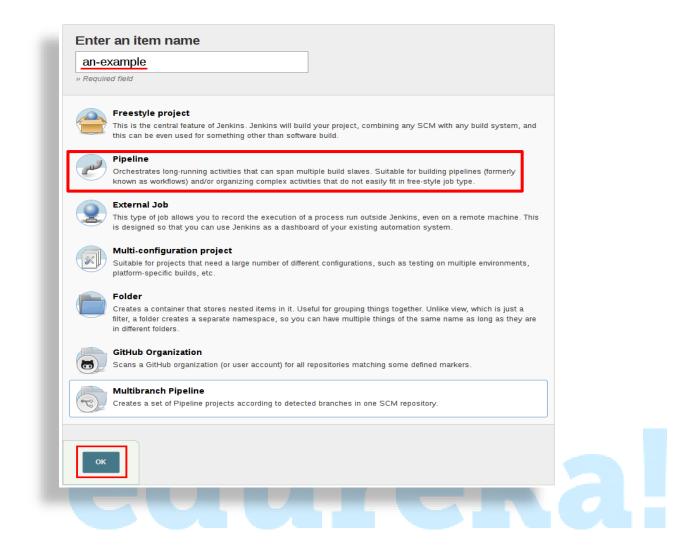
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Demo 2: Build a Pipeline project using Groovy Scipt.

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

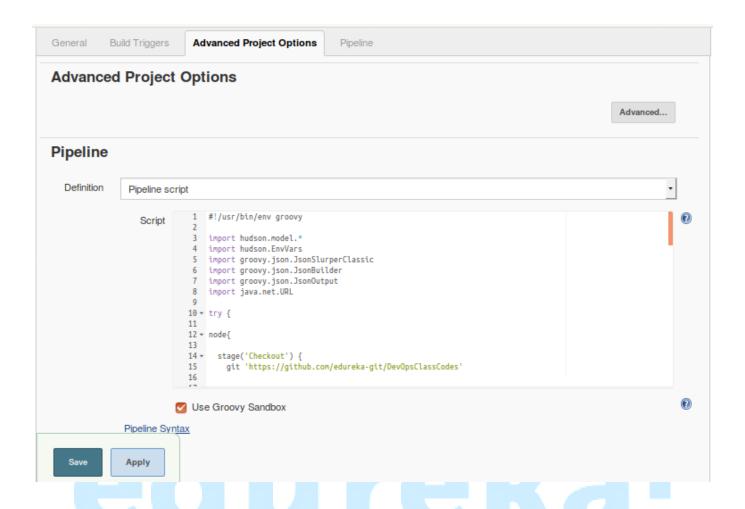


Step-2 Create a Pipeline project for your job.



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" with the email_id you want to send email to if the build fails.



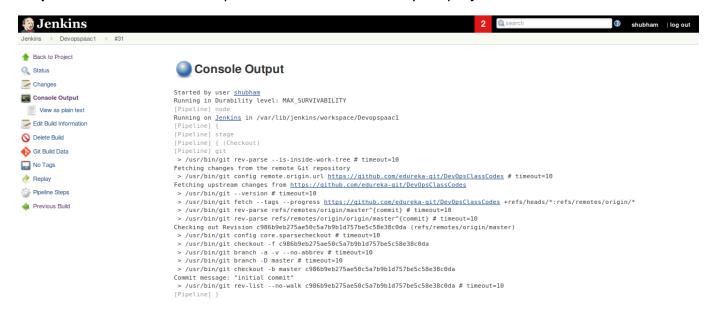
#!/usr/bin/env groovy

```
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/package 1/target/addressbook.war
/opt/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()
        }
```

- **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.
- **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.



```
[Pipeline] stage
[Pipeline] { (publish html report)
[Pipeline] echo
publishing the html report
[Pipeline] publishHTML
[htmlpublisher] Archiving HTML reports...
[htmlpublisher] Archiving at PROJECT level /var/lib/jenkins/workspace/Devopspaac1 to /var/lib/jenkins/jobs/Devopspaac1/htmlreports
/HTML_20Report
[Pipeline] }
[Pipeline] // stage
[Pipeline] stage
[Pipeline] { (clean up)
[Pipeline] echo
cleaning up the workspace
[WS-CLEANUP] Deleting project workspace...[WS-CLEANUP] done
[Pipeline] }
[Pipeline] // stage
[Pipeline] }
[Pipeline] // node
[Pipelinel node
Running on \underline{\mathsf{Jenkins}} in \mathsf{/var/lib/jenkins/workspace/Devopspaac1}
[Pipeline] {
[Pipeline] step
[Pipeline] }
[Pipeline] // node
[Pipeline] End of Pipeline
Finished: SUCCESS
```

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

Pipeline Devopspaac1



Stage View

