

Jenkins

Pipeline

- is main Jenkins plugin which act as main build engine (from Jenkins 2.0)
- **replay** feature let to run job with modified by hand Jenkinsfile

Scripted pipeline

It is possible to write Jenkinsfile's as Groovy scripts (advanced) or using Declarative Pipeline Syntax.

[Top 10 Best Practices for Jenkins Pipeline](https://www.blazemeter.com/blog/how-to-use-the-jenkins-scripted-pipeline)

<https://www.blazemeter.com/blog/how-to-use-the-jenkins-scripted-pipeline>

<https://jenkins.io/doc/book/pipeline/syntax/#scripted-pipeline>

[jenkinsfile](#)

```
node {
    stage("a") {
    }
    stage("b") {
    }
    stage("c") {
        parallel (
            'taskA': { stage("1") { } },
            'taskB': { stage("2") { } },
        )
    }
    stage("archive") {
        archiveArtifacts artifacts: 'out_*/*.*'
        archiveArtifacts artifacts: 'contiki/tools/cc2538-bsl/cc2538-
bsl.py'
    }
}
```

NOTE:

- **parallel** expect map as argument.
<https://www.cloudbees.com/blog/parallelism-and-distributed-builds-jenkins>

Creating your first Pipeline <https://jenkins.io/doc/pipeline/examples/>

<https://www.blazemeter.com/blog/how-to-use-the-jenkins-scripted-pipeline> Distributed builds

archiveArtifacts

archiveArtifacts:

- **Directory/**/*.*** → All the files recursively under Directory * **/**/*.*** → all the files in the workspace
- **/**/*.xml** → all xml files in your workspace. * **Directory/**/*.xml** → All the xml files recursively under Directory

```
archiveArtifacts artifacts: 'file.extension''
archiveArtifacts artifacts: 'teste.js'
archiveArtifacts artifacts: '*.js'
archiveArtifacts artifacts: 'teste.js', onlyIfSuccessful: true
```

Declarative Pipeline

Jenkinsfile

```
pipeline {
    agent any
    stages {
        stage('Download') {
            steps {
                sh 'make config'
                sh 'echo "artifact file" > generatedFile.txt'
            }
        }
    }
    post {
        always {
            archiveArtifacts artifacts: 'generatedFile.txt',
onlyIfSuccessful: true
        }
    }
}
```

Global Pipeline Libraries

You may also declare whether scripts need to explicitly request that library (detailed below), or if it is present by default. Furthermore, if you specify a version in Jenkins configuration, you can block scripts from selecting a different version.

<https://jenkins.io/doc/book/pipeline/shared-libraries/>

<https://stackoverflow.com/questions/38695237/create-resusable-jenkins-pipeline-script> Share a standard Pipeline across multiple projects with Shared Libraries Exploring Jenkins Pipelines: Shared

Libraries Extending with Shared Libraries <https://cleverbuilder.com/articles/jenkins-shared-library/>

Workspace

/workspace/project@script is checked out on Master only to get Jenkinsfile - it can be safely deleted **/workspace/project@2** - folder where build is performed (can be on slave)
/workspace/project@tmp - ?

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