# **ToiletPaper #110**

Groovy Jenkins Pipeline, Baby!

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### Х **Problem**

Jenkins is a widely used CICD tool. Working with many microservices can be very complex. Small changes, like a new URL, can be a tedious task, because it has to be done for every job. Due to the missing changelog, it's also hard to track which changes were made and by whom.

#### Solution $\checkmark$

With the plugin suite "Jenkins Pipeline" you can define different jobs as Groovy code. You can then check this into your preferred version control and maintain and further develop it in addition to the project code. In connection with a multi-branch pipeline, all branches of a project are automatically built according to the instructions in the

'Jenkinsfile'.

#### $\rightarrow$ Example

A project with multiple services, all built with Maven. A merge on the branch develop is to build a new version.

```
Coffee-Service, Food-Service: Jenkinsfile
```

```
def pipeline
stage('Load pipeline') {
    // Lade die Pipeline vom gemeinsam genutzten Repository
    fileLoader.withGit(
    'https://url-to-pipeline-repo.git',
    'master',
    'in-jenkins-hinterlegte-credentials-id') {
        // Jeder Service kann pipeline.groovy benutzen
        pipeline = fileLoader.load('pipeline.groovy')
    3
}
pipeline.execute()
Pipeline Repo: pipeline.groovy
def execute() {
    stage('Checkout') {
        checkout scm
    }
    stage('Build service') {
        sh "mvn clean install"
    }
    // Die Variable env.BRANCH NAME wird automatisch auf den aktuellen Branchname gesetzt.
    // Durch dieses Feature ist die Pipeline so dynamisch, dass sie mit jedem neuen Branch umgehen kann.
    if ("develop".equals(env.BRANCH_NAME) {
        stage('Release') {
            sh "mvn release:prepare release:perform"
        }
    }
}
÷
```

## Further Aspects

https://jenkins.io/doc/book/pipeline/



