

Jenkins Configuration Details

Version 1.18-SNAPSHOT

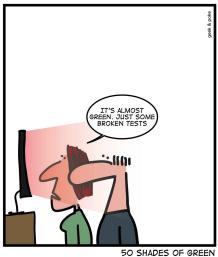
2018-11-21

Table of Contents

1. Server configuration	2
1.1. Plugins installation	2
1.2. Change Theme	3
1.3. Gerrit Trigger Configuration	3
1.4. Administration	6
1.4.1. Overall configuration	6
1.4.2. Tools configuration	6
1.5. Allow CSS on published HTML	6
1.6. SonarQube token	7
1.7. ssh key on remote server	7
1.8. Pipelines creations	7
1.8.1. The Review pipeline	7
1.8.2. The Deploy pipeline	11
1.8.3. The Release pipeline.	14
1.9. Troobleshooting	16
1.9.1. Disk space usage > 90 %	17
2. Appendix	19
2.1. Revision marks	19

Table 1. History

Date	Author	Detail
2018-09-19	bcouetil	- Sample asciidoctor maven project published on Github - Github & LinkedIn links - Sample project tree - new images + resizing and positioning
2018-08-29	bcouetil	Asciidoc HTML look & feel changes
2018-08-23	bcouetil	Initial commit



DO SHADES OF GREEN

1. Server configuration

Connect to Jenkins homepage.

1.1. Plugins installation



This has to be done only for a new Production Line

- Go to Jenkins → Administration Jenkins → Gestion des plugins
- Update all plugins which have an update available
- Select **Disponibles** (=available) and install:
 - Pipeline Maven Integration
 - Throttle Concurrent Builds Plug-in
 - To be able to force non concurrent builds
 - Xvnc
 - To have a virtual screen if needed in tests
 - Naginator
 - For retry on failure
 - Gerrit Trigger
 - To launch job on gerrit update
 - HTML Publisher plugin
 - To have the **Maven Reporting** link when "maven site" is launched
 - Monitoring
 - To see nice health data of Jenkins on https://bpmfactory.s2-eu.nvx.com/jenkins/ monitoring
 - JUnit Attachments
 - for enhanced job reporting

- Logstash
 - To send jenkins jobs output to logstash then elastic
- diskcheck
 - Check filesystem space on slave before a build
- · disk-usage
 - Show disk usage per build, configuration in Administrer Jenkins → [Configurer le système] → Utilisation du disque
- AnsiColor
 - To allow colors in build logs
- Simple Theme Plugin
 - to change Jenkins basic theme

1.2. Change Theme



This has to be done only for a new Production Line

- Have the Simple Theme Plugin installed
- Navigate Administrer Jenkins → [Configurer le système] → Theme section
 - URL of theme CSS = https://cdn.rawgit.com/afonsof/jenkins-material-theme/gh-pages/dist/material-cyan.css
 - see the author's page for other colors: http://afonsof.com/jenkins-material-theme/
 - Save

1.3. Gerrit Trigger Configuration



This has to be done only for a new Production Line

On Jenkins:

Create the console-master job if not already existing

Create a new freestyle job.

Name it console-master

General

- ☑ [Restreindre où le projet peut être exécuté]
 - master

Put this **Build** \rightarrow [**Ajouter une étape au build**] \rightarrow [**Exécuter un script shell**] \rightarrow paste this and save :

```
ssh-keygen -y -f /root/.ssh/id_rsa > /root/.ssh/id_rsa.pub
ls -lart /root/.ssh/
more /root/.ssh/id_rsa.pub
```

- Add 1 executor on the master node
 - Home → [État du lanceur de compilations] → [maître] → Configurer
- Execute the console-master
- Keep track of what the execution gave for later Gerrit configuration, example :

ssh-rsa

AAAAB3NzaC1yc2EAAAADAQABAAABAQDKGER5oLwkNhcCYtTzmUQooA+1mdrjIGi84AVsOHyNpsMqFBhkpxfImvopvKlYiztXUA15dwwDsPWq1tUcy/4N WqKnMTQA57xxxT2r8suF/DVlH6fNn8T73mGz9+kT77FXHuaMfmDTqrwPngUYQMm2Y9kTjGhIcH/jseq6jCUawITAOs/6EUbs7jtJ/S+jMb6Ed60S7S/n R3IzQwVrXMiQjDdFsL8RWEBQ54T4cNia/HMI8MK7mEEF5K008g4Ru3Bidk+VSisPUYFPmNc/tE12RyAjvkcwWxrYqFEB5h6RlS0yWXAjCUzjv8T0ov4W us+ZqNgqUMYtBBf+zQvQC1ub

- When finished, remove the executor from master node
- Create a local trigger server
 - Home → Administrer Jenkins → Gerrit Trigger → Add New Server
 - Gerrit Connection Setting
 - Name = local_server
 - Hostname = gerrit
 - Frontend URL = http://gerrit/
 - SSH Port = 29418
 - Username = svc-fr-bpmfact
 - SSH Keyfile = /root/.ssh/id_rsa
 - Gerrit Reporting Values
 - Verify = <vide>, 1, -1, -1, -1
 - Code Review = <vide>, 1, -1, -1, -1
 - Gerrit Verified Commandes
 - Started = vide
 - Successful =

• Failed =

```
gerrit review <CHANGE>,<PATCHSET> --message 'Build Failed ( _ ) <BUILDS_STATS>' --verified
<VERIFIED>
```

Unstable =

```
gerrit review <CHANGE>,<PATCHSET> --message 'Build Unstable ( ° °) <BUILDS_STATS>' --verified <VERIFIED>
```

• Not Built =

Save

On Gerrit:

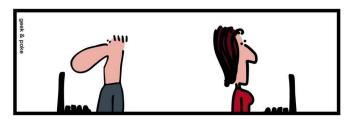
- Connect with the technical user (svc-fr-bpmfact / Bpm-fact0ry)
 - You may have to use a secondary browser, since authentication is very persistent on Gerrit
- Click on the user top right → **Settings** → **SSH Public Keys** → **[Add Key...]**
- Add the public key content from Jenkins server (the one asked to be kept track earlier), starting with **ssh-rsa**

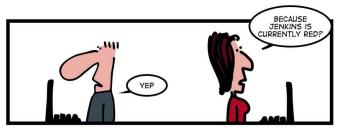
On Jenkins:

- Test the earlier configured connection of the trigger with **Test Connection** while editing local_server
- Restart jenkins with: https://bpmfactory.s2-eu.nvx.com/jenkins/safeRestart
- The Gerrit trigger should be up and running

WHILE YOU SEE A CHANCE ...







... PUSH IT!

1.4. Administration



This has to be done only for a new Production Line

1.4.1. Overall configuration

Connect to Jenkins configuration page: https://bpmfactory.s2-eu.nvx.com/jenkins/configure

Propriétés globales

• JAVA_HOME = /usr/

Jenkins Location

• Adresse email de l'administrateur système = xxxxx@nvx.com

Extended E-mail Notification

- SMTP server = smtp.nvx.fr
- Default user E-mail suffix = @nvx.com

Notification par email

- Serveur SMTP = smtp.nvx.fr
- Suffixe par défaut des emails des utilisateurs = @nvx.com

Save.

1.4.2. Tools configuration

Connect to Jenkins tools configuration page : https://bpmfactory.s2-eu.nvx.com/jenkins/configureTools/

Maven

- Nom = Maven 3.5
- Version = 3.5.2

Logstash Plugin

- Indexer type = ELASTICSEARCH
- Host name = http://frpardge.corp.nvx.com
- Port = 9200
- Key = /jenkins/builds

Save.

1.5. Allow CSS on published HTML



This has to be done only for a new Production Line

- Create a pipeline "css-support"
- · Build Triggers
 - Construire périodiquement
 - Planning = 0 10,15,20 * * *
- Pipeline

```
println(System.getProperty("hudson.model.DirectoryBrowserSupport.CSP"))
System.setProperty("hudson.model.DirectoryBrowserSupport.CSP", "")
println(System.getProperty("hudson.model.DirectoryBrowserSupport.CSP"))
```

Uncheck Use Groovy Sandbox and save

1.6. SonarQube token

To be able to upload quality results to SonarQube, you have to create a token.

Go to SonarQube application on the PL → **YourName** → **My Account** → **Security** → Name = Jenkins → **Generate**

Now maven can upload results to SonarQube with something like:

mvn sonar:sonar -Dsonar.login=ab7451586619e21d0e2bb50389899ce3595e3 -Dsonar.host.url=http://sonarqube:9000/sonarqube

1.7. ssh key on remote server



This has to be done only for a new remote server

If you have a remote server where you deploy your artifacts for further developments or tests: * note the result of the slavePrep.sh script under **Here is this server's ssh public key**. Here is an example

ssh-rsa

AAAAB3NzaC1yc2EAAAADAQABAAABAQDZRLfTsI+cTRjbhYhnDvIOI3lsexMiJpwcBmeuJrISnEdh1LRPlviQjtI1h7NCihejVIPgvzyMVn3tMLsvABBXLTbV FIetOudpJn+8isnYAWWaaqX2fce/BqjLC26ygR4n25sqT0/GE9AhV5uBPbYTr4HCrH9Wzd8nU13DXm8C0hxUKh1+Uwm47KB11fVH/boIUygocIRu1FXS9TJy MU0qFf3GGmDXs56VTe4ZQtPBHJ1klRXQQc6UIhTbdLpedo4Khvzr7TpdVZg13qXZt35/t7Gu4lbImHSlN64TKhaxAYgCPjYKgl9tAWJpEkk3WzXghohLivIQ PInu5h3uvckH jenkins@b43496a2520e

- Connect on the remote server via SSH
- add the key to ~/.ssh/authorized_keys file

1.8. Pipelines creations

1.8.1. The Review pipeline



FIFTY SHADES OF RED

This will be the review pipeline with steps from checkout to quality check. This pipeline is a "pipeline as code".

Go to Jenkins home page:

https://bpmfactory.s2-eu.nvx.com/jenkins

- Click New Item
- Choose a name : CG-WM_P1_Review
- Choose Pipeline type

General

- Description = This is the review pipeline fired by Gerrit on non yet validated push
- Check Supprimer les anciens builds
 - Strategy = Log Rotation
 - Nombre de builds à conserver = 10

Build Triggers



In the field Choose a Server, Any Server won't work

• Choose Gerrit event

Gerrit Trigger

- Choose a Server = local_server
- Trigger on = Patchset Created
- Gerrit Project
 - Type = Plain

- Pattern = cg-wm
- Branches
 - Type = Plain
 - Pattern = master

Advanced Project Options

None.

Pipeline

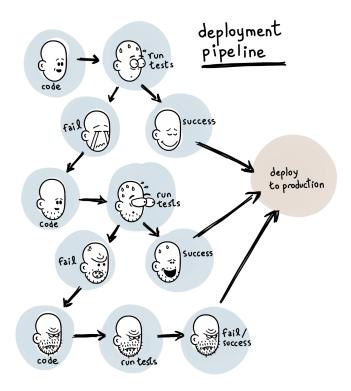
• Definition = Pipeline script

Pipeline content to copy/paste

```
#!groovy
properties([
  buildDiscarder(logRotator(artifactDaysToKeepStr: '', artifactNumToKeepStr: '', daysToKeepStr: '', numToKeepStr: '7')),
  [$class: 'ThrottleJobProperty',
   categories: [],
   limitOneJobWithMatchingParams: false,
   maxConcurrentPerNode: 0,
   maxConcurrentTotal: 0,
   paramsToUseForLimit: '',
   throttleEnabled: false,
   throttleOption: 'project'],
  pipelineTriggers([
   gerrit(customUrl: ''
      gerritProjects: [[branches: [[compareType: 'PLAIN', pattern: 'master']],
      compareType: 'PLAIN', disableStrictForbiddenFileVerification: false, pattern: 'cg-wm']],
      serverName: 'local_server',
      triggerOnEvents: [patchsetCreated(excludeDrafts: false, excludeNoCodeChange: false, excludeTrivialRebase: false)]
 ])
])
node {
  timeout(30) {
   try {
      stage('Checkout') {
       cleanWs() // requires workspace cleanup plugin to be installed
       echo "**** Starting checkout of patchset ${GERRIT_PATCHSET_NUMBER} on change number ${GERRIT_CHANGE_NUMBER}"
       git username: 'svc-fr-cric', password: '****', url: 'https://cric.pl.s2-eu.nvx.com/gerrit/cg-wm.git'
       def changeBranch = "change-${GERRIT_CHANGE_NUMBER}-${GERRIT_PATCHSET_NUMBER}"
       sh "git fetch origin ${GERRIT REFSPEC}:${changeBranch}"
       sh "git checkout ${changeBranch}"
       def v = version(readFile('pom.xml'))
       echo "Building version ${v}"
      stage('Compilation') {
        //slaves are wiped out randomly, so we prepare them on each execution
       sh '$WORKSPACE/src/scripts/slavePrep.sh'
       withMaven(maven: 'Maven 3.5', mavenOpts: '-Xmx1024M', options: [artifactsPublisher(disabled: true)]) {
         //clean to deploy libs to local maven repository
          sh "mvn clean dependency:purge-local-repository"
          //The assembly is postponed : it needs some further generated PDF
          sh "mvn install verify -DskipTests -Dassembly.skipAssembly=true"
      stage('Verification'){
```

```
parallel (
          "Unit Tests" : {
            wrap([$class: 'Xvnc', takeScreenshot: false, useXauthority: true]) {
              withMaven(maven: 'Maven 3.5', mavenOpts: '-Xmx1024M', options: [artifactsPublisher(disabled: true)]) {
                sh "mvn test -s cg-settings.xml -Dcheckstyle.skip=true"
                //Maven auto reports JUnit surefire results
              }
            }
           },
          "Documentation" : {
            sh '$WORKSPACE/src/scripts/asciidocOnlyModified.sh'
            //get history from git to asciidoc documentation
            sh '$WORKSPACE/src/scripts/asciidocHistory.sh $WORKSPACE'
            withMaven(maven: 'Maven 3.5', mavenOpts: '-Xmx1024M', options: [artifactsPublisher(disabled: true)]) {
              //validate produces the date for PDF
              sh "mvn validate asciidoctor:process-asciidoc antrun:run@pdfsAddVersion -s cg-settings.xml
-Dcheckstyle.skip=true"
            archiveArtifacts artifacts: '**/*.pdf', excludes: '**/test*.pdf', allowEmptyArchive: true
          }
        )
      }
      stage('Integration Tests'){
        //integration tests have to be after documentation for the tracker zip to include the user manual
        wrap([$class: 'Xvnc', takeScreenshot: false, useXauthority: true]) {
          withMaven(maven: 'Maven 3.5', mavenOpts: '-Xmx1024M', options: [artifactsPublisher(disabled: true)]) {
            try{
              //we do not install, since these suspicious jars could be misused by other projects
              sh "mvn verify failsafe:verify -Dcg.ut.skip=true -Dcheckstyle.skip=true"
            } finally {
              //Maven does not auto report JUnit failsafe results
              junit '**/target/failsafe-reports/*.xml'
          }
        }
      stage('Quality Gate') {
        withMaven(maven: 'Maven 3.5', mavenOpts: '-Xmx1024M', options: [artifactsPublisher(disabled: true)]) {
          sh "mvn sonar:sonar -Dsonar.login=0d1356516289799b179c6c7f851c9d4464ab04e2
-Dsonar.host.url=http://sonarqube:9000/sonarqube"
        }
        sh '$WORKSPACE/src/scripts/sonarStatus.sh'
      stage('Assembly') {
        withMaven(maven: 'Maven 3.5', mavenOpts: '-Xmx1024M', options: [artifactsPublisher(disabled: true)]) {
          sh "mvn install -DskipTests -Dcheckstyle.skip=true'
          sh "mvn dependency:purge-local-repository"
        archiveArtifacts artifacts: '**/target/*.zip'
    } catch (any) {
      step([
        $class: 'Mailer', notifyEveryUnstableBuild: true,
        recipients: emailextrecipients([[$class: 'CulpritsRecipientProvider'],
        [$class: 'RequesterRecipientProvider']])
        1)
      currentBuild.result = 'FAILURE'
  }//timeout
  logstashSend failBuild: false, maxLines: 1000
}//node
@NonCPS
def version(text) {
  def matcher = text =~ '<version>(.+)</version>'
  matcher ? matcher[0][1] : null
```

1.8.2. The Deploy pipeline



This will be the main pipeline with everything from checkout to deployment. This pipeline is a "pipeline as code".

Go to Jenkins home page:

https://bpmfactory.s2-eu.nvx.com/jenkins

- Click New Item
- Choose a name: CG-WM_P2_Deploy
- Choose **Pipeline** type

General

- Check Supprimer les anciens builds
 - Strategy = Log Rotation
 - Nombre de builds à conserver = 10

Build Triggers

- Choose « Scrutation de l'outil de gestion de version »
- Planning = H * * * *

Advanced Project Options

None.

Pipeline

Definition = Pipeline script from SCM

• Repositories

SCM = Git

- Repository URL = http://bpmfactory.s2-eu.nvx.com/gerrit/p/cg-wm.git
- Credentials = svc-fr-bpmfact / Bpm-fact0ry
- Branches to build: */master

Script Path = Jenkinsfile-2-deploy-to-dev

☑ Lightweight checkout

Pipeline content (for information)

```
#!groovy
node {
  timeout(60) {
   try {
      stage('Checkout') {
       cleanWs()
                   // requires workspace cleanup plugin to be installed
       retry(3) {
         checkout scm
       def v = version(readFile('pom.xml'))
       echo "Building version ${v}"
      stage('Compilation') {
        //slaves are wiped out randomly, so we prepare them on each execution
       sh '$WORKSPACE/src/scripts/slavePrep.sh'
       withMaven(maven: 'Maven 3.5', mavenOpts: '-Xmx1024M', options: [artifactsPublisher(disabled: true)]) {
          //used to deploy libs to local maven repository
          sh "mvn clean"
          //The assembly is postponed : it needs some further generated PDF
          sh "mvn install -DskipTests -Dassembly.skipAssembly=true"
      stage('Unit Tests') {
       wrap([$class: 'Xvnc', takeScreenshot: false, useXauthority: true]) {
          withMaven(maven: 'Maven 3.5', mavenOpts: '-Xmx1024M', options: [artifactsPublisher(disabled: true)]) {
           sh "mvn test -Dcheckstyle.skip=true"
            //Maven auto reports JUnit surefire results
          }
       }
      stage('Documentation') {
       //get history from git to asciidoc documentation
       sh '$WORKSPACE/src/scripts/asciidocHistory.sh $WORKSPACE'
       withMaven(maven: 'Maven 3.5', mavenOpts: '-Xmx1024M', options: [artifactsPublisher(disabled: true)]) {
          //validate produces the date for PDF
          //javadoc:aggregate is CPU intensive, we don't parallelize for now
          sh "mvn validate asciidoctor:process-asciidoc antrun:run@pdfsAddVersion javadoc:aggregate
-Dcheckstyle.skip=true"
          sh "mvn javadoc:jar -pl cg-utils -Dcheckstyle.skip=true"
       step([$class: 'JavadocArchiver', javadocDir: 'target/site/javadoc', keepAll: true])
       archiveArtifacts artifacts: '**/*.pdf,**/*-javadoc.jar', excludes: '**/test*.pdf'
      stage('Integration Tests') {
        wrap([$class: 'Xvnc', takeScreenshot: false, useXauthority: true]) {
          withMaven(maven: 'Maven 3.5', mavenOpts: '-Xmx1024M', options: [artifactsPublisher(disabled: true)]) {
              sh "mvn verify failsafe:verify -Dcg.ut.skip=true -Dcheckstyle.skip=true"
            } finally {
```

```
//Maven does not auto report JUnit failsafe results
             junit '**/target/failsafe-reports/*.xml'
         }
       }
      stage('Quality Check') {
       withMaven(maven: 'Maven 3.5', mavenOpts: '-Xmx1024M', options: [artifactsPublisher(disabled: true)]) {
          sh "mvn sonar:sonar -Dsonar.login=0d1356516289799b179c6c7f851c9d4464ab04e2
-Dsonar.host.url=http://sonarqube:9000/sonarqube"
       sh '$WORKSPACE/src/scripts/sonarStatus.sh'
      stage('Assembly') {
       withMaven(maven: 'Maven 3.5', mavenOpts: '-Xmx1024M', options: [artifactsPublisher(disabled: false)]) {
          sh "mvn install -DskipTests -Dcheckstyle.skip=true"
       //archiveArtifacts is now in "Deployment" phase since we download packages
      }
      stage('Publication'){
       parallel (
          "Deployment to Nexus and IS": {
           withMaven(maven: 'Maven 3.5', mavenOpts: '-Xmx1024M', options: [artifactsPublisher(disabled: true)]) {
             //sh 'mvn wagon:update-maven-3'
             sh 'mvn deploy -DskipTests -Dassembly.skipAssembly=true -Dcheckstyle.skip=true -s cg-settings.xml'
            sh "ssh devops@frpardge.corp.nvx.com 'cd /opt/sagis/profiles/IS_default/bin;./restart.sh'"
            sh '$WORKSPACE/src/scripts/deployJavadoc.sh'
           sh '$WORKSPACE/src/scripts/getPackages.sh'
           //SchemaSpy must not fail the deployment so we put it after deployment
           sh '$WORKSPACE/src/scripts/schemaspy.sh'
           publishHTML([
             allowMissing
                              : false,
             alwaysLinkToLastBuild: false,
              keepAll
                            : true,
              reportDir
                             : 'target/schemaspy',
                              : 'index.html'
              reportFiles
                               : 'DB Schema'])
             reportName
           archiveArtifacts artifacts: '**/target/*.zip'
          },
          "Reporting" : {
           //Git Inspector
            sh 'mkdir target/gitinspector'
            sh 'export PYTHONIOENCODING=utf-8 ; qitinspector --format=html -rTw > tarqet/qitinspector/index.html'
            publishHTML([
             allowMissing
                               : false,
             alwaysLinkToLastBuild: false,
             keepAll
                            : true,
             reportDir
                             : 'target/gitinspector',
                             : 'index.html',
              reportFiles
                             : 'Git Inspector'])
             reportName
            //Maven Site
           withMaven(maven: 'Maven 3.5', mavenOpts: '-Xmx1024M', options: [artifactsPublisher(disabled: true)]) {
             sh 'mvn site site:stage -DskipTests -Dcheckstyle.skip=true -s cg-settings.xml'
           publishHTML([
             allowMissing
                               : false,
             alwaysLinkToLastBuild: false,
             keepAll
                            : true,
             reportDir
                            : 'target/staging',
             reportFiles
                             : 'index.html',
                              : 'Maven Reporting'])
             reportName
       )
     }
   } catch (any) {
```



1.8.3. The Release pipeline

This is the release pipeline launched manually at will when an external release is needed. This pipeline is a "pipeline as code".

Go to Jenkins home page:

https://bpmfactory.s2-eu.nvx.com/jenkins

- Click New Item
- Choose a name: CG-WM_P3_Release
- Choose Pipeline type

General

- Check Ce build a des paramètres
 - · Paramètre texte
 - RELEASE_VERSION
 - the release version, with pattern 1.YY.MM[.increment] (ex: 1.17.5.9)
- Check Supprimer les anciens builds

- Strategy = Log Rotation
- Nombre de builds à conserver = 10

Build Triggers

No trigger (manual launch).

Advanced Project Options

None.

Pipeline

```
Definition = Pipeline script from SCM
SCM = Git
```

- Repositories
 - Repository URL = http://bpmfactory.s2-eu.nvx.com/gerrit/p/cg-wm.git
 - Credentials = svc-fr-bpmfact / Bpm-fact0ry
- Branches to build: */master

Script Path = Jenkinsfile-4-release

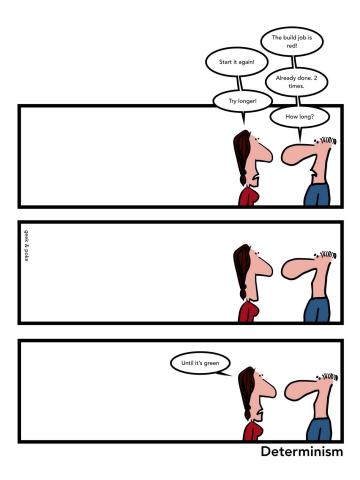
☑ Lightweight checkout

Pipeline content (for information)

```
#!groovy
//Release is a manual firing (and should always be)
//No need to do the whole process, trunk is always trustworthy with our setup
//Just check that the merge pipeline (DeployToDev) is successful
node {
  timeout(30) {
   try {
      stage('Checkout') {
       cleanWs()
                   // requires workspace cleanup plugin to be installed
       retry(3) {
         checkout scm
       echo "Releasing version $RELEASE_VERSION"
      stage('Documentation') {
       //get history from git to asciidoc documentation
       sh '$WORKSPACE/src/scripts/asciidocHistory.sh $WORKSPACE'
       withMaven(maven: 'Maven 3.5', mavenOpts: '-Xmx1024M', options: [artifactsPublisher(disabled: true)]) {
         //to put jars in local maven repository if needed
         sh "mvn clean"
         sh "mvn versions:set -DnewVersion=$RELEASE_VERSION"
          //without this local installation, modules are searched on internet on mvn validate
         sh "mvn install -DskipTests -Dassembly.skipAssembly=true"
         //we launch some (quick) tests that contains the generation of service list for the cg-utils doc
         sh "mvn test -pl cg-utils"
         //time to launch the actual doc generation
         //validate produces the date for PDF
         sh "mvn validate asciidoctor:process-asciidoc antrun:run@pdfsAddVersion javadoc:aggregate
-Dcheckstyle.skip=true"
         sh "mvn javadoc:jar -pl cg-utils -Dcheckstyle.skip=true"
```

```
step([$class: 'JavadocArchiver', javadocDir: 'target/site/javadoc', keepAll: true])
        archiveArtifacts artifacts: '**/*.pdf,**/*-javadoc.jar', excludes: '**/test*.pdf'
      stage('Deployment') {
        //Deployment is after documentation because a pdf must be in the zip
        //Delete tag if this is a replayed-on-error build...
        //...locally
        sh "git tag -d cg-wm-$RELEASE_VERSION || true"
        //...remotely
        //Special characters have to be URL encoded : https://stackoverflow.com/questions/6172719/escape-character-in-
git-proxy-password
        sh "git push --force --delete https://svc-fr-cric:****@cric.pl.s2-eu.nvx.com/gerrit/p/cg-wm.git cg-wm-
$RELEASE_VERSION || true"
        withMaven(maven: 'Maven 3.5', mavenOpts: '-Xmx1024M', options: [artifactsPublisher(disabled: true)]) {
          sh "mvn deploy scm:tag -s cg-settings.xml -DskipTests -Dcheckstyle.skip=true"
        }
        sh "$WORKSPACE/src/scripts/deployJavadoc.sh"
        sh "$WORKSPACE/src/scripts/getPackages.sh"
        archiveArtifacts artifacts: '**/target/*.zip'
      stage('Reporting') {
        withMaven(maven: 'Maven 3.5', mavenOpts: '-Xmx1024M', options: [artifactsPublisher(disabled: true)]) {
          sh "mvn site site:stage -DskipTests -Dcheckstyle.skip=true -s cg-settings.xml"
        publishHTML([
          allowMissing
                           : false,
          alwaysLinkToLastBuild: false,
          keepAll
                      : true,
                       : 'target/staging',
          reportDir
                       : 'index.html',
          reportFiles
          reportName
                          : 'Maven Reporting'])
   } catch (any) {
      step([
        $class: 'Mailer', notifyEveryUnstableBuild: true,
        recipients: emailextrecipients([[$class: 'CulpritsRecipientProvider'],
        [$class: 'RequesterRecipientProvider']])
        ])
      currentBuild.result = 'FAILURE'
  }//timeout
  logstashSend failBuild: false, maxLines: 1000
}//node
@NonCPS
def version(text) {
  def matcher = text =~ '<version>(.+)</version>'
  matcher ? matcher[0][1] : null
}
```

1.9. Troobleshooting



1.9.1. Disk space usage > 90 %

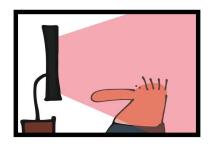
If the disk space usage is too high and your build fails a the start for this reason, you can purge some folders with the below actions.

- Edit the **console** job.
- Put these lines and save :

```
du --max-depth=1 /home/jenkins/workspace/ | sort -n -r | head -n 30 find /home/jenkins/workspace/ -maxdepth 1 -mtime +90 -type d -depth -print
```

- Launch the job
- Following the results, do the necessary deletions
- If there are some ws-cleanup directory, you can delete them safely:

```
rm -rf /home/jenkins/workspace/\*ws-cleanup*/ ???
```







'Ah, stay a while! You are so lovely!'

2. Appendix

2.1. Revision marks

Differences since last tag