

# DevOps

## TD-03 – Jenkins

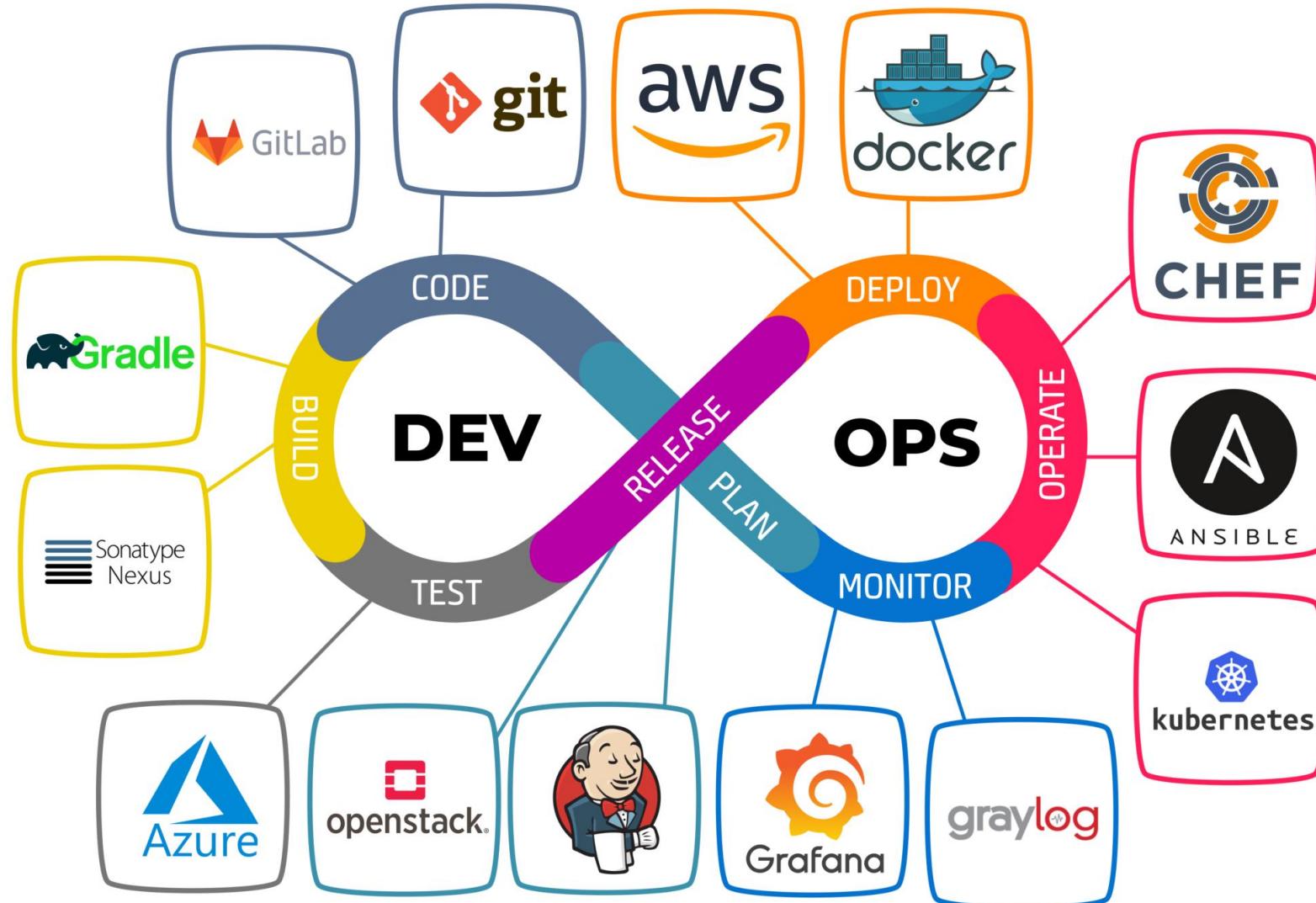
Jamel ESSOUSSI: Architecte logiciel

[jamel.essoussi@gmail.com](mailto:jamel.essoussi@gmail.com)

<https://github.com/jessoussi>

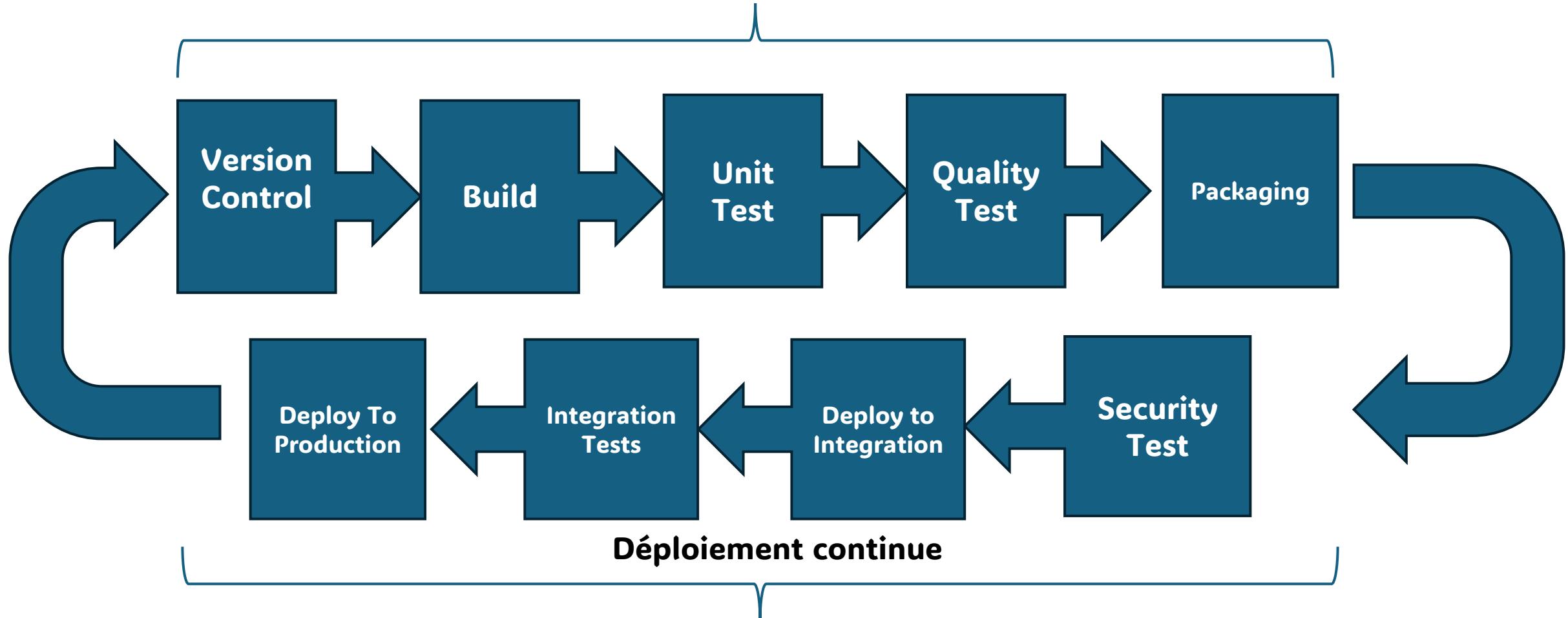
2025

# Outils du DevOps



# Introduction

Intégration continue





# Objectif du TD

- Installation de Jenkins
- Installation de sonarQube
- Configuration des plugin github / sonarQube
- Création d'une première pipeline basique
- Création d'une pipeline script CI pour le projet authentication-service
- Creation d'une pipeline Jenkinsfile CI pour le projet authentication-service

# Installation de Jenkins

**Suivre le cours**

# Installation de Jenkins

**Suivre le cours**

# Installation de SonarQube

**Suivre le cours**

# Première pipeline

□ Suivre le cours

```
Jenkinsfile (Declarative Pipeline)
pipeline {
    agent any

    stages {
        stage('Build') {
            steps {
                echo 'Building..'
            }
        }
        stage('Test') {
            steps {
                echo 'Testing..'
            }
        }
        stage('Deploy') {
            steps {
                echo 'Deploying....'
            }
        }
    }
}
```

# Création d'une pipeline script

Tableau de bord > authentication-service-job-pipeline-master > Configuration

Configurer

Général

Enabled



Général

Triggers

Pipeline

Advanced

Description

Texte brut [Prévisualisation](#)

Ce build a des paramètres [?](#)

Do not allow concurrent builds

Do not allow the pipeline to resume if the controller restarts

GitHub project

Project url [?](#)

`https://github.com/jessoussi/authentication-service/`

Avancé ▾

Pipeline speed/durability override [?](#)

Preserve stashes from completed builds [?](#)

# Création d'une pipeline script

## Pipeline

Define your Pipeline using Groovy directly or pull it from source control.

### Definition

Pipeline script

#### Script ?

```
1< v pipeline {
2     agent any
3< v     tools {
4         maven 'M3'
5         jdk 'jdk17'
6     }
7< v     options {
8         skipStagesAfterUnstable()
9     }
10< v    stages {
11        stage('Git Checkout') {
12            steps {
13                script {
14                    git branch: 'main', url: 'https://github.com/jessoussi/authentication-service/'
15                }
16            }
17        }
18    }
19}
```

Use Groovy Sandbox ?

Pipeline Syntax

# Création d'une pipeline script

```
1< pipeline {
2   agent any
3<   tools {
4     maven 'M3'
5     jdk 'jdk17'
6   }
7<   options {
8     skipStagesAfterUnstable()
9   }
10<  stages {
11<    stage('Git Checkout') {
12<      steps {
13<        script {
14          git branch: 'main', url: 'https://github.com/jessoussi/authentication-service/'
15        }
16      }
17    }
18<    stage ('Build') {
19<      steps {
20        bat 'mvn clean compile'
21      }
22    }
23<    stage ('Test') {
24<      steps {
25        bat 'mvn -Dmaven.test.failure.ignore=true clean install'
26      }
27<      //post {
28<        //  success {
29<          //    junit 'target/surefire-reports/**/*xml'
30<        //}
31        //}
32      }
33<    stage('Deploy') {
34<      steps {
35        echo "Deployment à venir"
36      }
37    }
38  }
39 }
```

# Création d'une pipeline Jenkinsfile

Pipeline

Define your Pipeline using Groovy directly or pull it from source control.

Definition

Pipeline script from SCM

SCM ?

Git

Repositories ?

Repository URL ?

https://github.com/jessoussi/authentication-service/

Credentials ?

jamel.essoussi@gmail.com/\*\*\*\*\*

+ Ajouter

Avancé ▾

Add Repository

Branches to build ?

Branch Specifier (blank for 'any') ?

\*add-ci-cd

Add Branch

The screenshot shows the Jenkins Pipeline configuration page. It starts with a 'Pipeline' section where users can define their pipeline using Groovy or pull it from source control. The 'Definition' section is set to 'Pipeline script from SCM'. Below this, the 'SCM' dropdown is set to 'Git'. The 'Repositories' section contains one repository entry: 'Repository URL' is set to 'https://github.com/jessoussi/authentication-service/' and 'Credentials' are provided as 'jamel.essoussi@gmail.com/\*\*\*\*\*'. There is also an 'Avancé' (Advanced) dropdown. Below the repositories, there is a 'Branches to build' section with a 'Branch Specifier' field containing '\*add-ci-cd' and an 'Add Branch' button.

# Création d'une pipeline Jenkinsfile

Branch Specifier (blank for 'any') ?

\*/add-ci-cd

Add Branch

Navigateur de la base de code ?

(Auto)



Additional Behaviours

Ajouter ▾

Script Path ?

Jenkinsfile

Lightweight checkout ?

# Création d'une pipeline Jenkinsfile

<https://github.com/jessoussi/authentication-service/tree/add-ci-cd>