Lab 9 – Jenkins
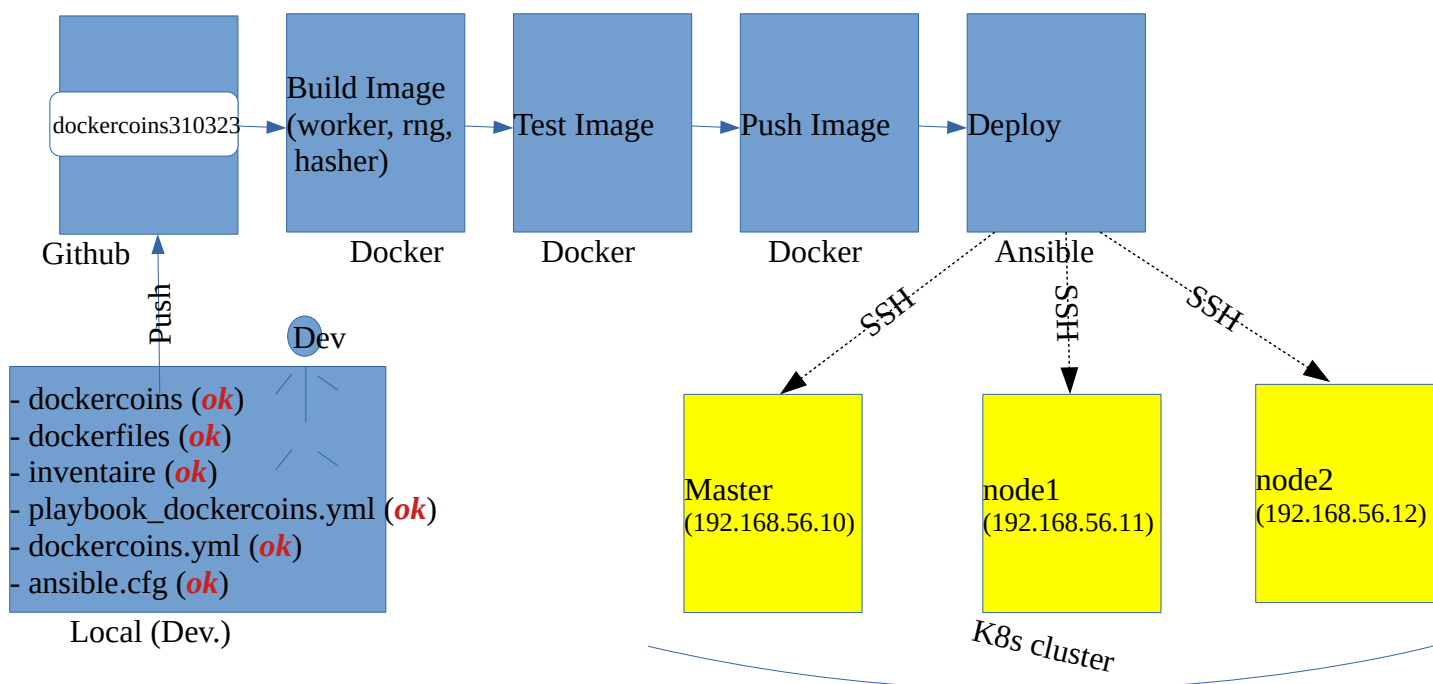
Les VMs :
- Local (windows git bash, …) : Dev.
- JenkinsAnsible : 192.168.56.10
- Control-Plane : 192.168.56.10
- node1 : 192.168.56.11
- node2 : 192.168.56.12

Pipeline Dockercoins

```
brahim@Training:/tmp/dockercoins$ ll
total 104
drwxrwxr-x  7 brahim brahim  4096 juin  20 12:30 ./
drwxrwxrwt 27 root   root   40960 juin  20 12:21 ../
-rw-r--r--  1 brahim brahim 19975 juin  20 12:23 ansible.cfg
-rw-rw-r--  1 brahim brahim  2687 juin  20 12:27 dockercoins-k8s.yml
drwxrwxr-x  8 brahim brahim  4096 juin  20 12:21 .git/
drwxrwxr-x  2 brahim brahim  4096 juin  20 12:21 hasher/
-rw-rw-r--  1 brahim brahim   148 juin  20 12:24 inventory
-rw-r-----  1 brahim brahim  1230 juin  20 12:30 jenkinsfile_dockercoins
-rw-rw-r--  1 brahim brahim   685 juin  20 12:28 playbook_dockercoins.yml
drwxrwxr-x  2 brahim brahim  4096 juin  20 12:21 rng/
drwxrwxr-x  3 brahim brahim  4096 juin  20 12:22 webui/
drwxrwxr-x  2 brahim brahim  4096 juin  20 12:21 worker/
brahim@Training:/tmp/dockercoins$
```
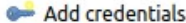
Jenkins   Q   rechercher (C

Tableau de bord > Administrer Jenkins > Identifiants

Credentials

T	P	Store ↓	Domain

Stores scoped to Jenkins

P	Store ↓	Domains
System	(global)	
		👤 Add credentials

Icône: S   M   L

3
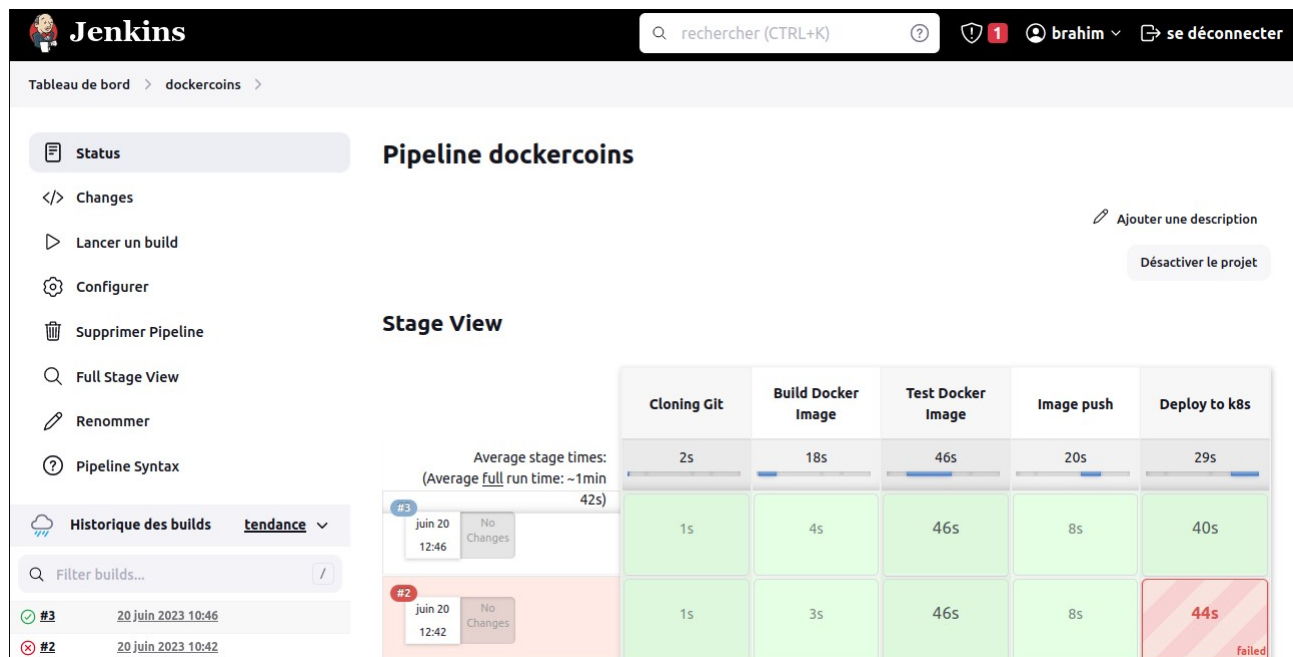
pipeline :

```
pipeline {
  environment {
    workerImg = "brahimhamdi/worker"
    hasherImg = "brahimhamdi/hasher"
    rngImg = "brahimhamdi/rng"
    registryCredential = 'dockerhub' //à configurer : ajouter les paramètres de connexion à votre compte DockerHub
    imgworker = ''
    imghasherer = ''
    imgrng = ''
  }

  agent any

  stages {

    stage('Cloning Git') {
      steps {
        git 'https://github.com/brahimhamdi/dockercoins_pipe.git'
      }
    }

    stage('Build Docker Image') {
```

```
    steps{
      script {
      imgworker = docker.build(workerImg + ":$BUILD_NUMBER","worker")
      imghasher = docker.build(hasherImg + ":$BUILD_NUMBER","hasher")
      imgrng = docker.build(rngImg + ":$BUILD_NUMBER","rng")

        }
      }
    }

    stage('Test Docker Image') {
      steps{
        sh "docker run -d --rm --name worker $workerImg:$BUILD_NUMBER"
        sh "docker run -d --rm --name hasher $hasherImg:$BUILD_NUMBER"
        sh "docker run -d --rm --name rng $rngImg:$BUILD_NUMBER"
        sh "docker run -d --rm --name webui brahimhamdi/webui:2.0
        sh 'sleep 30'
        sh 'docker stop worker hasher rng webui'

      }
    }

    stage('Image push') {
      steps{
        script {
      //install gnupg2 et  pass avant (sudo apt install gnupg2 pass)
        docker.withRegistry( '', registryCredential ) {
          imgworker.push()
          imghasher.push()
          imgrng.push()

          }
        }
      }
    }

    stage('Deploy to k8s') {
      steps{
        // sh 'docker rmi brahimhamdi/worker:$BUILD_NUMBER'
        sh 'ansible-playbook -i inventory dockercoins_playbook.yml'
        sh 'kubectl apply -f dockercoins_k8s'
      }
    }

  }
}
```