

# **SOFTEAM Cadextan**

*Faites de votre projet un succès*

TRAINING : DEVOPS & CONTINUOUS DEPLOYMENT

PRACTICAL : CONTINUOUS DEPLOYMENT

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SOFTEAM Cadextan

Training : DevOps-Continuous Deployment



START PAGE : XL DEPLOY

XebiaLabs[Support](#) [Contact](#)

Enter your XL Deploy license

Thank you for installing XL Deploy! To get started, please enter the license key that you received by email.

If you haven't received a license key, please [contact XebiaLabs](#).

Paste your license key here

Install license Get started

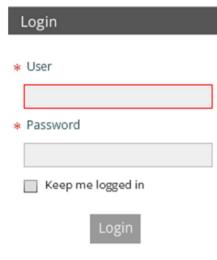
Are you having trouble, or do you want to extend your license?  
[Contact XebiaLabs](#) and we'll help you out.

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Enter the licence of XL Deploy

Click -> Install license

## XL DEPLOY : LOGIN



The image shows a login form titled "Login". It contains two input fields: "User" and "Password", both marked with a red asterisk (\*) indicating they are required. Below the password field is a checkbox labeled "Keep me logged in". At the bottom right of the form is a "Login" button.

User : admin

Password : password

Click -> Login

XL DEPLOY : CREATE AN APPLICATION

The screenshot shows the XL Deploy 5.1.3 interface. On the left, the 'Repository' view displays a tree structure with a context menu open over the 'Applications' node. The menu options are 'New', 'Directory', and 'Application'. On the right, the 'Repository Workspace' view is titled 'Create MY-APP'. It contains fields for 'Id' (set to 'Applications/MY-APP'), 'Name' (set to 'MY-APP'), and 'Type' (set to 'udm.Application'). A tab bar at the bottom shows 'Common' and 'Deployment' (which is selected). Below the workspace, there is a 'Pipeline' section with a dropdown menu set to 'Choose one'. The bottom of the screen has a footer with the text 'SOFTEAM Cadextan', 'Training : DevOps-Continuous Deployment', and the number '5'.

Repository > Applications > New > Application

Name : MY-APP

## Formation : DevOps - Continuous Deployment

XL DEPLOY : CREATE AN INFRASTRUCTURE

The screenshot shows the XL Deploy interface version 5.1.3. The top navigation bar includes links for Deployment, Release Dashboard, Repository (which is selected), Reports, and Admin. The main area is titled "Repository Workspace" and shows a modal dialog for creating a new item named "DEV-SERVER". The "Type" dropdown is set to "overthere LocalHost". A tooltip for the "Type" field indicates it specifies the "Operating system the host runs". On the left, there's a sidebar with "Repository" sections for Applications, Environments, Infrastructure, and Configuration. A context menu is open over the "Infrastructure" section, with options like New, Discover, Directory, overthere, wls, and xl. The "overthere" option is expanded, showing "localhost" as the selected item.

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Repository > Infrastructure > New > overthere > LocalHost  
Name : DEV-SERVER  
Operating system : UNIX  
Click -> Save

## Formation : DevOps - Continuous Deployment

**XL DEPLOY : CREATE A DICTIONARY**

The screenshot shows the XL Deploy 5.5.1 Deployment interface. On the left, the Repository tree includes Blueprints, ProvisioningEnvironments, Providers, Applications (MY-APP), Environments (DEV-SERVE), Infrastructure (DEV-SERVE), Configuration, and a New button. The 'New' button is highlighted. In the center, a 'Repository Workspace' window titled 'Create DEV-DIC' is open. It shows fields for 'Id' (Environments/DEV-DIC), 'Name' (DEV-DIC), and 'Type' (udm.Dictionary). Below these are tabs for 'Common' and 'Restrictions'. Under 'Common', there are sections for 'Dictionary', 'Encrypted Dictionary', and 'Environment'. The 'Dictionary' section contains a table with one row: KEY1 | VALUE1. The 'Encrypted Entries' section is empty. At the bottom, there is a note: 'The dictionary entries' and 'The encrypted dictionary entries'. At the bottom right of the workspace window, there is a 'Save' button.

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Repository > Environments > New > Dictionary

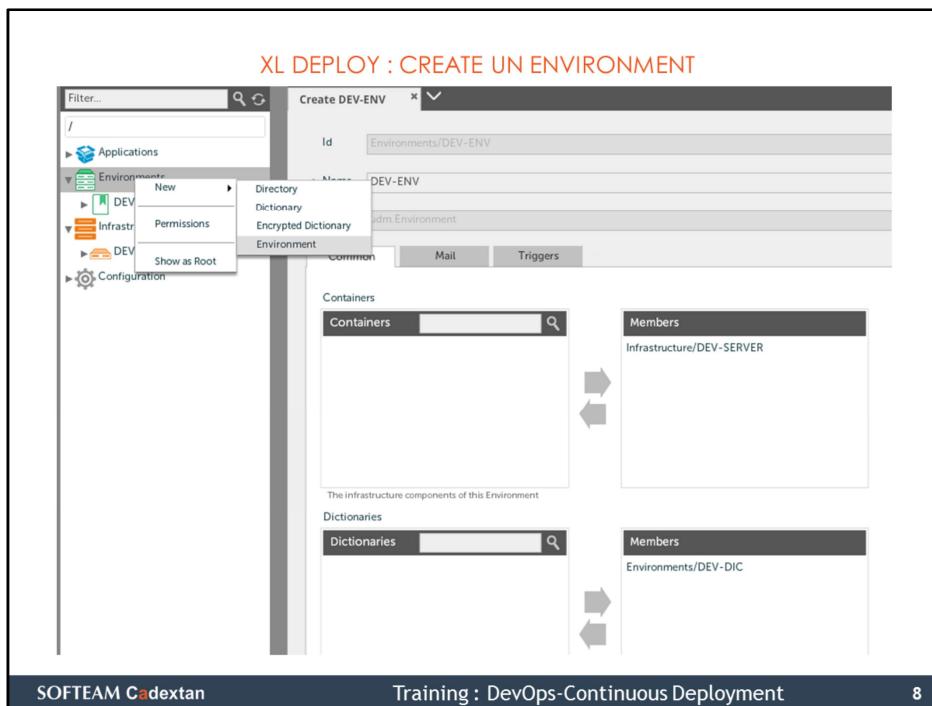
Name : DEV-DIC

Common > Entries > Click -> +

Key : KEY1

Value : VALUE1

Click -> Save



Repository > Environments > New > Environment

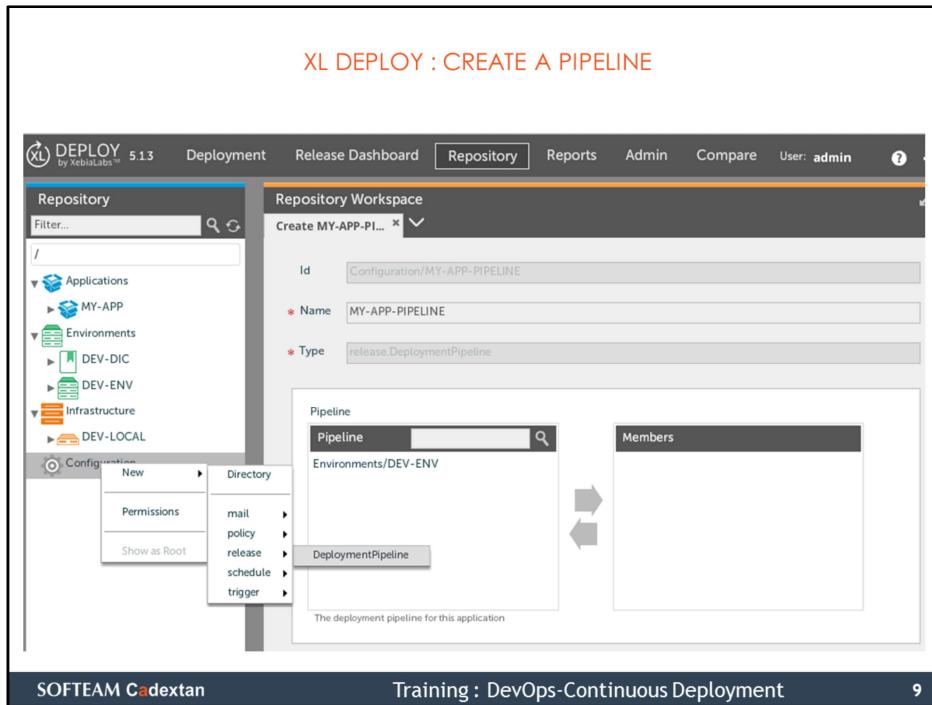
Name : DEV-ENV

Common > Containers

Double click -> Infrastructure/DEV-SERVER

Common > Dictionaries

Double click -> Environments/DEV-DIC



Repository > Configuration > New > release > DeploymentPipeline

Name : MY-APP-PIPELINE

Pipeline >

Double click Environments/DEV-ENV

**XL DEPLOY : LINK APPLICATION TO PIPELINE**

The screenshot shows the XL Deploy 5.1.3 interface. The top navigation bar includes Deployment, Release Dashboard, Repository (selected), and Reports. The left sidebar is titled 'Repository' and shows a tree structure: Applications > MY-APP > MY-APP-PIPELINE. The main workspace is titled 'Repository Workspace' for 'MY-APP'. It contains fields for Id (Applications/MY-APP), Name (MY-APP), and Type (udm Application). Below these are tabs for Common and Deployment, with the Deployment tab selected. A 'Pipeline' section shows a dropdown menu with 'Choose one' and a list below it containing 'MY-APP-PIPELINE'. At the bottom of the screen, there is a footer bar with the text 'SOFTEAM Cadextan', 'Training : DevOps-Continuous Deployment', and the number '10'.

Repository > Applications > MY-APP

Choose : MY-APP-PIPELINE

Click -> Save

## THE APPLICATION PIPELINE

The screenshot shows the 'DEPLOY 5.5.1 Deployment' application interface. At the top, there is a navigation bar with links: Release Dashboard, Repository, Reports, Admin, Compare, Provisioning, and User. Below the navigation bar, the main area is titled 'Deployment pipeline'. On the left, there is a sidebar titled 'Applications' with a search bar and a list containing a single item: 'MY-APP'. To the right of the sidebar, the 'Deployment pipeline' window is open, showing a tree structure for 'MY-APP' under 'DEV-ENV'. A 'Refresh' button is located in the top right corner of the pipeline window. At the bottom of the screen, there is a footer bar with the text 'SOFTEAM Cadextan', 'Training : DevOps-Continuous Deployment', and the number '11'.



Gogs - Go Git Service  
<https://gogs.io/>

**GOGS : INSTALL 1/2**

**Instructions pour la première exécution**

Si vous exécutez Gogs grâce à Docker, merci de lire la [procédure](#) attentivement avant de modifier quoi que ce soit sur cette page !

**Paramètres de la base de données**

Gogs requiert MySQL, PostgreSQL, SQLite3 ou TiDB.

Type de base de données \*

Chemin \*

Le chemin du fichier de base de données SQLite3 ou TiDB.  
Utilisez un chemin absolu lorsque vous démarrez en tant que service.

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When you will access to gogs web site, you will be redirected to install page (only first time)

Choose SQLite3

Go to next slide

**GOGS : INSTALL 2/2**

Paramètres facultatifs

▶ Paramètres du Service de Messagerie

▼ Paramètres du serveur et des autres services

**Activer le mode hors connexion**

**Désactiver le service Gravatar**

**Désactiver le formulaire d'inscription**

**Activez le Captcha**

**Demander une connexion pour afficher des pages**

▼ Paramètres du compte administrateur

Vous n'avez pas besoin de créer un compte administrateur. L'utilisateur ayant l'ID = 1 aura automatiquement accès à l'administration.

Nom d'utilisateur

Mot de passe

Confirmez le mot de passe

E-mail de l'administrateur

**Installer Gogs**

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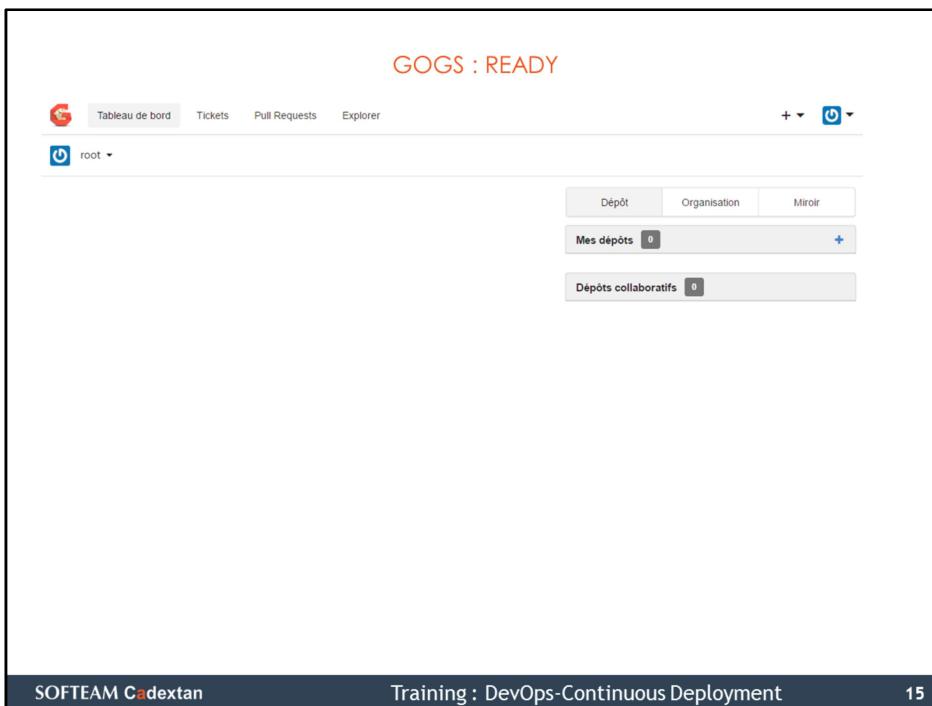
Enable : Offline mode

Username : root

Password : password

Email : root@devops.local

-> Install



My repositories -> +

**GOGS : CREATE REPOSITORY**

**Nouveau dépôt**

**Propriétaire \***

**Nom du Dépôt \*** devops-codesource  
Idéalement, le nom d'un dépôt devrait être court, mémorable et **unique**.

**Visibilité**  Ce dépôt est **privé**

**Description** Bienvenue à {{KEY1}}

**Langue** Sélectionnez les fichiers .gitignore

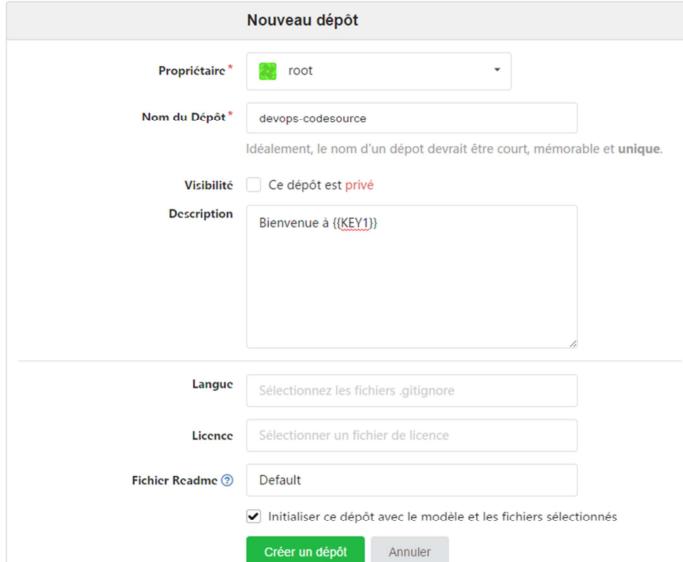
**Licence** Sélectionner un fichier de licence

**Fichier Readme** Default

Initialiser ce dépôt avec le modèle et les fichiers sélectionnés

**Créer un dépôt** **Annuler**

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Name : devops-codesource

Description : Bienvenue à {{KEY1}}

Check : Init the repository with the model

-> Create the repository

GOOG : THE CREATED REPOSITORY

Tableau de bord Tickets Pull Requests Explorer + ⚙️

root / devops-codesource Ne plus suivre 1 Voter 0 Fork 0

Code Tickets 0 Pull Requests 0 Commits 1 Publications 0 Wiki Paramètres

Bienvenue à {{KEY1}}

Branch: master devops-codesource HTTP SSH http://localhost:3000/root/dev

root e7d94be101 initial commit 1 seconde auparavant

README.md e7d94be101 initial commit 1 seconde auparavant

README.md

**devops-codesource**

Bienvenue à {{KEY1}}

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The screenshot shows the Goog (Gitee) web interface for a newly created repository named 'devops-codesource'. The repository page includes a navigation bar with links for 'Tableau de bord', 'Tickets', 'Pull Requests', and 'Explorer'. Below the navigation is a header for the repository 'root / devops-codesource' with metrics for 'Ne plus suivre' (1), 'Voter' (0), and 'Fork' (0). A secondary navigation bar below the header includes 'Code', 'Tickets 0', 'Pull Requests 0', 'Commits 1', 'Publications 0', 'Wiki', and 'Paramètres'. The main content area starts with a welcome message 'Bienvenue à {{KEY1}}'. It shows a branch dropdown set to 'master' and a link to 'devops-codesource'. Below this is a commit list with one entry: 'root e7d94be101 initial commit' made 1 second ago. Underneath the commit is a file listing for 'README.md' with a similar commit history. A preview of the 'README.md' file content is shown, which contains the text 'devops-codesource'. At the bottom of the page is a footer with the text 'SOFTEAM Cadextan', 'Training : DevOps-Continuous Deployment', and the number '17'.



JENKINS : READY

The screenshot shows the Jenkins dashboard. At the top, it says "JENKINS : READY". Below that, there's a main heading "Bienvenue sur Jenkins !". To the right of the heading is a message: "Veuillez [créer un nouveau job](#) pour démarrer.". On the left side, there's a sidebar with several links: "Nouveau Item", "Utilisateurs", "Historique des constructions", "Administre Jenkins", and "Credentials". Below the sidebar are two collapsed sections: "File d'attente des constructions" (which is currently empty) and "Etat du lanceur de compilations" (which also has two items labeled "Au repos"). At the bottom of the dashboard, there's a footer bar with the text "SOFTEAM Cadextan", "Training : DevOps-Continuous Deployment", and the number "19".

-> Administrate Jenkins

## JENKINS : ADMIN

### Administrer Jenkins

Un Jenkins non sécurisé autorise quiconque sur le réseau à lancer des processus en votre nom. Veuillez considérer l'activation de l'authentification pour décourager ce mauvais usage.

[Configuration de la sécurité](#)

[Ignorer](#)



[Configurer le système](#)

Configurer les paramètres généraux et les chemins de fichiers.



[Configurer la sécurité globale](#)

Sécuriser Jenkins; définir qui est autorisé à accéder au système.



[Recharger la configuration à partir du disque](#)

Supprimer toutes les données en mémoire et recharger tout à partir du système de fichiers. Utile quand vous modifiez les fichiers de configuration directement sur le disque.



[Gestion des plugins](#)

Ajouter, supprimer, activer ou désactiver des plugins qui peuvent étendre les fonctionnalités de Jenkins. **(mises à jour disponibles)**

-> Manage plugins

JENKINS : PLUGINS

Mises à jour Disponibles Installés Avancé

**Configuration du proxy HTTP**

Serveur  ?  
Port  ?  
Nom d'utilisateur  ?  
Mot de passe   
No Proxy Host  ?

**Soumettre un plugin**

Vous pouvez téléverser un fichier .hpi pour installer un plugin extérieur au dépôt centralisé de plugin.

Fichier:  Choisissez un fichier Aucun fichier choisi

**Soumettre**

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Use this form to upload the 4 plugins on :  
.\\training-devops-v2-continuous-deployment\\jenkins-plugins

- 1-deployit-plugin-5.0.2.hpi
- 2-scm-api-1.2.hpi
- 3-git-client-1.19.6.hpi
- 4-git-2.4.4.hpi

## JENKINS : PLUGINS INSTALLATION

### Installation/Mise à jour des Plugins

Préparation	
deployit-plugin	<span style="color: green;">● Succès</span>
Préparation	
scm-api	<span style="color: green;">● Succès</span>
Préparation	
git-client	<span style="color: green;">● Succès</span>
Préparation	
git	<span style="color: green;">● Succès</span>

 [Revenir en haut de la page](#)  
(vous pouvez commencer à utiliser les plugins installés dès maintenant)

  Redémarrer Jenkins quand l'installation est terminée et qu'aucun job n'est en cours

Check to restart jenkins

**JENKINS : CONFIGURE XL DEPLOY**

---

**XL Deploy**

Default Server Url	<input type="text" value="http://xldeploy:4516"/>						
Default Proxy Url	<input type="text"/>						
Connection Pool Size	<input type="text" value="10"/>						
Credentials	<table border="0"> <tr> <td>Name</td> <td><input type="text" value="admin-credentials"/></td> </tr> <tr> <td>Username</td> <td><input type="text" value="admin"/></td> </tr> <tr> <td>Password</td> <td><input type="password" value="....."/></td> </tr> </table>	Name	<input type="text" value="admin-credentials"/>	Username	<input type="text" value="admin"/>	Password	<input type="password" value="....."/>
Name	<input type="text" value="admin-credentials"/>						
Username	<input type="text" value="admin"/>						
Password	<input type="password" value="....."/>						
<input type="checkbox"/> Use non-default XL Deploy Server <small>Your XL Deploy instance [5.1.3] is alive, and your credentials are valid!</small>							
<input type="button" value="Test Connection"/> <input type="button" value="Add"/> <input type="button" value="Supprimer"/>							

**Default server url : http://xldeploy:4516**  
**Name : admin-credentials**  
**Username : admin**  
**Password : password**

---

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Go to -> Admin > Manage system > XL Deploy section

Default server url : http://xldeploy:4516

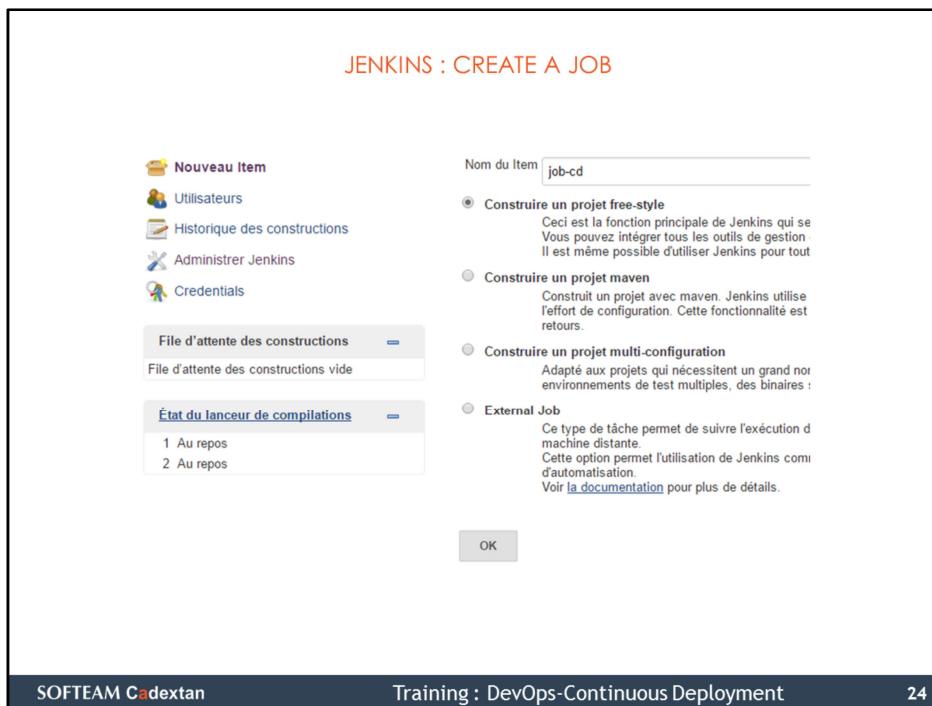
Credentials - Name : admin-credentials

Credentials – Username : admin

Credentials – Password : password

-> Test Connection

-> Save



-> New item

Item name : job-cd

Select : Build project free style

**JENKINS : CONFIGURE JOB - GIT**

Gestion de code source

Aucune  
CVS  
CVS Projectset  
Git

Repositories

Repository URL: http://gogs:3000/root/devops-codesource.git

Credentials: - none -

Add

Avancé...

Add Repository Delete Repository

Branches to build

Branch Specifier (blank for 'any'): \*master

Add Branch Delete Branch

Navigateur de la base de code: (Auto)

Additional Behaviours

Check out to a sub-directory  
Local subdirectory for repo: sources

Supprimer

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Choose : Git

Repository Url : http://gogs:3000/root/devops-codesource.git

> Additional Behaviours > Check out to sub-directory

Local subdirectories : sources

Go next slide

JENKINS : CONFIGURE JOB - XL DEPLOY - APPLICATION

Actions à la suite du build

Deploy with XL Deploy

Global server credential

Please Save or Apply changes before you continue. Changing credentials may unintentionally change your deployables' types - check the definitions afterward.

Override credential

Application

Version

Options

Verbose

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The screenshot shows the Jenkins configuration interface for a job named 'XL DEPLOY - APPLICATION'. Under the 'Actions à la suite du build' section, there is a 'Deploy with XL Deploy' step. The 'Global server credential' dropdown is set to 'admin-credentials'. A warning message at the top right of the step area states: 'Please Save or Apply changes before you continue. Changing credentials ⚠ may unintentionally change your deployables' types - check the definitions afterward.' Below the credential dropdown is a checkbox for 'Override credential' with a 'Reload types for credential' button next to it. The 'Application' field is set to 'Applications/MY-APP' and the 'Version' field is set to '1.0-\$BUILD\_TAG'. There is also an 'Options' section with an 'Ajouter' button and a 'Verbose' checkbox.

> Add a step after the build > Deploy with XL Deploy

Application : Applications/MY-APP

Version : 1.0-\$BUILD\_TAG

Go next slide

**JENKINS : CONFIGURE JOB - XL DEPLOY - PACKAGE**

Package application

Deployables

**Artifact**

Type	file.Folder
Name	RepoFolder
Tags	
Location	sources

Properties

Name	createTargetPath
Value	

**Supprimer**

Name	targetPath
Value	/dpl

**Supprimer**

**Ajouter**

Properties

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Check : Package application

> Add Deployables > Artifact

Type : file.Folder

Name : RepoFolder

Location : sources

Add properties

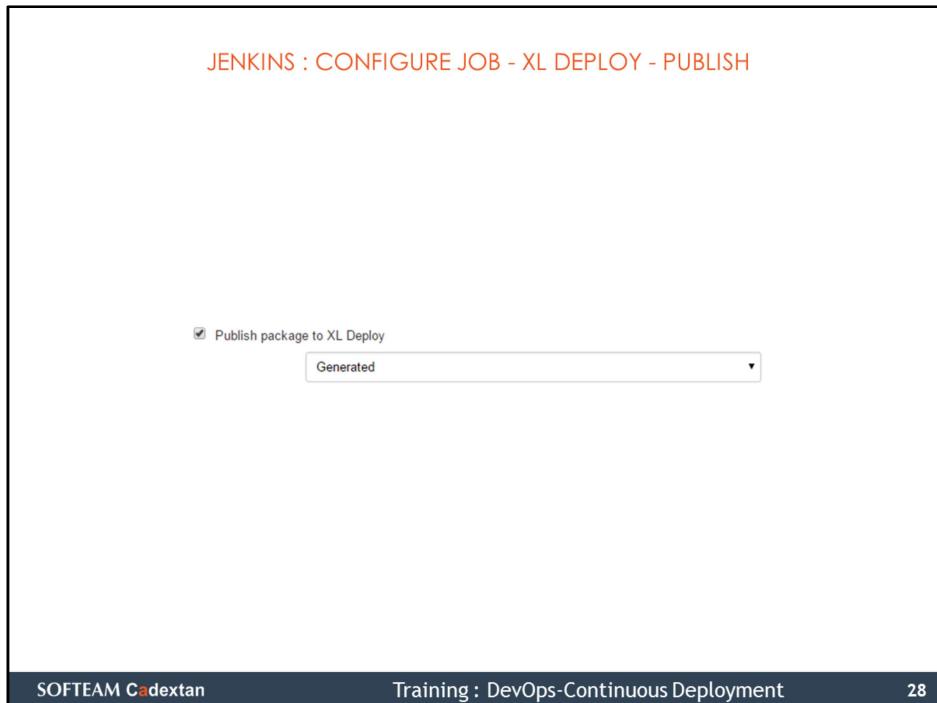
Name : createTargetPath

Value : true

Add properties

Name : targetPath

Value : /dpl



Check : Publish package to XL Deploy

-> Save



JENKINS : BUILD THE JOB

**Projet job-cd**

- Retour au tableau de bord
- État
- Modifications
- Répertoire de travail
- Lancer un build**
- Supprimer Projet
- Configurer

**Historique des builds** tendance

find	29 mai 2016 01:13
2	

**Liens permanents**

- Dernier build (#2), il y a 43 s
- Dernier build stable (#2), il y a 43 s
- Dernier build avec succès (#2), il y a 43 s
- Last completed build (#2), il y a 43 s

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-> Run a build

-> Log of the build

## JENKINS : THE LOG OF THE BUILD

### Sortie de la console

```
Started by user anonymous
Building in workspace /var/jenkins_home/jobs/job-cd/workspace
> git rev-parse --is-inside-work-tree # timeout=10
Fetching changes from the remote Git repository
> git config remote.origin.url http://gogs:3000/root/devops-codesource.git # timeout=10
Fetching upstream changes from http://gogs:3000/root/devops-codesource.git
> git --version # timeout=10
> git -c core.askpass=true fetch --tags --progress http://gogs:3000/root/devops-codesource.git
+refs/heads/*:refs/remotes/origin/*
> git rev-parse refs/remotes/origin/master^{commit} # timeout=10
> git rev-parse refs/remotes/origin/master^{commit} # timeout=10
Checking out Revision 538eb9ef78979f8774cc5879b906fd0d4c08025 (refs/remotes/origin/master)
> git config core.sparsecheckout # timeout=10
> git checkout -f 538eb9ef78979f8774cc5879b906fd0d4c08025
First time build. Skipping changelog.
Info: Package application Applications/MY-APP, version 1.0-jenkins-job-cd-2
Info: Searching for 'sources/README.md' in '/var/jenkins_home/jobs/job-cd/workspace'
Info: Found file(s): [sources/README.md]
Info: Application Applications/MY-APP has been packaged /var/jenkins_home/jobs/job-
cd/workspace/deployitpackage/MY-APP-1.0-jenkins-job-cd-2.dar
Info: Import the deployment package /var/jenkins_home/jobs/job-cd/workspace/deployitpackage/MY-APP-
1.0-jenkins-job-cd-2.dar
Info: The package /var/jenkins_home/jobs/job-cd/workspace/deployitpackage/MY-APP-1.0-jenkins-job-cd-
2.dar has been imported.
Finished: SUCCESS
```

The log of the build



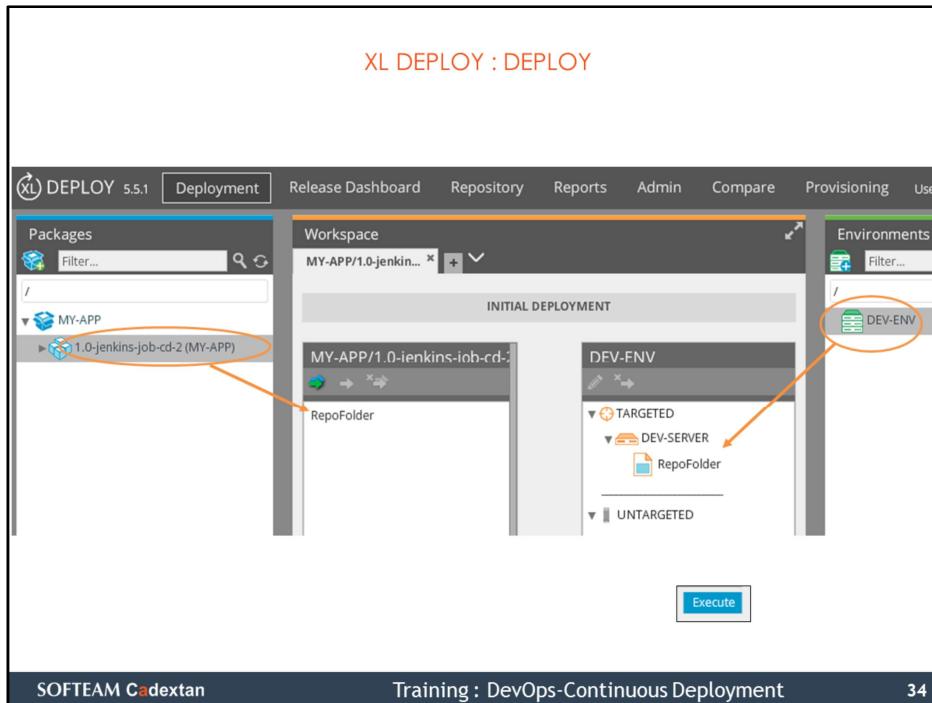
**5** DEPLOY WITH:  
XL DEPLOY

**XL DEPLOY : CHECK THE DEPLOYABLE**

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Repository > Applications > MY-APP >

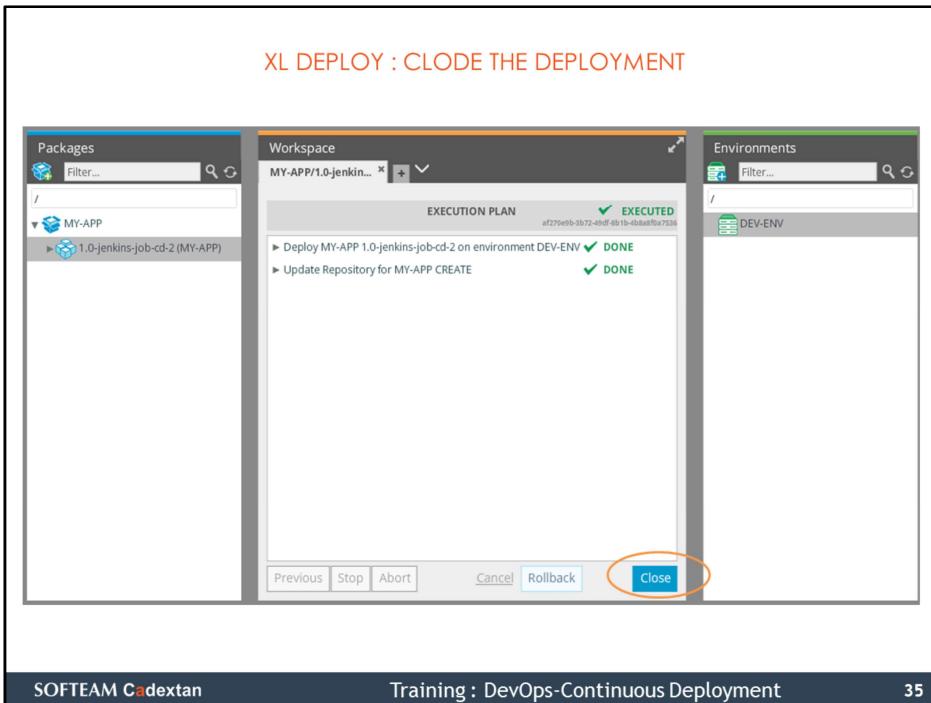
-> Cancel



Drag and the drop the environment, following the arrow

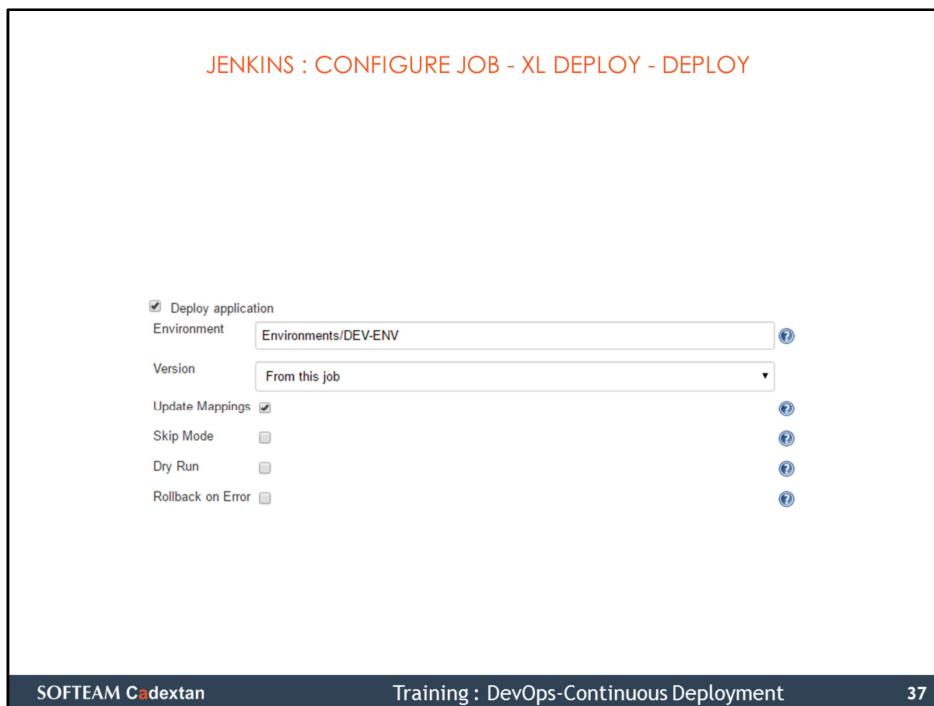
Drag and the drop the application, following the arrow

-> Execute



-> Close





Configure the Jenkins job

Check : Deploy application

Environment : Environments/DEV-ENV

-> Save

## JENKINS : BUILD LOG - DEPLOYMENT

```
Started by user anonymous
Building in workspace /var/jenkins_home/jobs/job-cd/workspace
> git rev-parse --is-inside-work-tree # timeout=10
Fetching changes from the remote Git repository
> git config remote.origin.url http://gogs:3000/root/devops-codesource.git # timeout=10
Fetching upstream changes from http://gogs:3000/root/devops-codesource.git
> git fetch --tags --progress http://gogs:3000/root/devops-codesource.git
> git -c core.askpass=true fetch --tags --progress http://gogs:3000/root/devops-codesource.git
+refs/heads/*:refs/remotes/origin/
> git rev-parse refs/remotes/origin/master^{commit} # timeout=10
> git rev-parse refs/remotes/origin/master^{commit} # timeout=10
Checking out Revision 538eb9ef78979f874cc5879b906fd04c08025 (refs/remotes/origin/master)
> git config core.sparsecheckout # timeout=10
> git checkout -f 538eb9ef78979f874cc5879b906fd04c08025 # timeout=10
> git rev-list 538eb9ef78979f874cc5879b906fd04c08025 # timeout=10
Info: Package application Applications/MY-APP, version 1.0-jenkins-job-cd-3
Info: Searching for 'jenkins' in '/var/jenkins_home/jobs/job-cd/workspace'
Info: Found file(s): [sources/README.md]
Info: Application Applications/MY-APP has been packaged /var/jenkins_home/jobs/job-cd/workspace/deployitpackage/MY-APP-1.0-jenkins-job-cd-3.dar
Info: Import the deployment package /var/jenkins_home/jobs/job-cd/workspace/deployitpackage/MY-APP-1.0-jenkins-job-cd-3.dar
Info: The package /var/jenkins_home/jobs/job-cd/workspace/deployitpackage/MY-APP-1.0-jenkins-job-cd-3.dar has been imported.
Info: Starting the deployment of Applications/MY-APP to Environments/DEV-NV
Info: Deploying application Applications/MY-APP/1.0-jenkins-job-cd-3 to Environments/DEV-ENV
Info: upgrade Deployment
Info: df62c1e4-51b0-4c7e-a697-5cd8d5a325a9 Description: Update deployment of Environments/DEV-ENV/MY-APP
Info: df62c1e4-51b0-4c7e-a697-5cd8d5a325a9 State: PENDING 0/1
Info: df62c1e4-51b0-4c7e-a697-5cd8d5a325a9 step #1 PENDING Update the repository with deployment.
Info: Start deployment task df62c1e4-51b0-4c7e-a697-5cd8d5a325a9
Info: df62c1e4-51b0-4c7e-a697-5cd8d5a325a9 Description: Update deployment of Environments/DEV-ENV/MY-APP
Info: df62c1e4-51b0-4c7e-a697-5cd8d5a325a9 State: EXECUTED 1/1
Info: df62c1e4-51b0-4c7e-a697-5cd8d5a325a9 Start: 2016/05/28 02:07:55
Info: df62c1e4-51b0-4c7e-a697-5cd8d5a325a9 Completion: 2016/05/28 02:07:55
Info: df62c1e4-51b0-4c7e-a697-5cd8d5a325a9 step #1 DONE Update the repository with deployment.
Starting repository update.
Finished repository update.
Finished: SUCCESS
```

-> Run a build

-> Check the log of the build

## XL DEPLOY – DEPLOYMENT ALREADY DONE – STARTED BY BUILD

The screenshot shows the XL Deploy interface with three main panels:

- Packages:** Shows a tree view with "MY-APP" expanded, containing "1.0-jenkins-job-cd-3 (MY-APP)" and "1.0-jenkins-job-cd-2 (MY-APP)".
- Workspace:** Titled "Initial Deployment". It contains two dashed boxes: one for "Drag and drop a package" with a "New package" button, and another for "Drag and drop an environment" with a "New environment" button. A note below says: "To start a new deployment drag and drop a package and an environment here. Or drag and drop an existing deployment and another package version to perform an update." Buttons at the bottom are "Deployment Properties...", "Preview", "Advanced", and "Execute".
- Environments:** Shows "DEV-ENV" expanded, with "MY-APP/1.0-jenkins-job-cd-3" listed. This item is circled in orange.

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Check in XL Deploy the deployed application :  
In the environment : from cd-2 to cd-3

## DOCKER : CHECK DEPLOYMENT DESTINATION

```
$ docker exec xldeploy ls -ae /dpl
total 16
drwxr-xr-x    3 root      root          4096 Sun May 29 01:29:10 2016 .
drwxr-xr-x   36 root      root          4096 Sun May 29 01:29:10 2016 ..
drwxr-xr-x    8 root      root          4096 Sun May 29 01:29:10 2016 .git
-rw-r--r--    1 root      root           44 Sun May 29 01:29:10 2016 README.md
```

```
$ docker exec xldeploy cat /dpl/README.md
# devops-codesource

Bienvenue {{KEY1}}
```

Run on the terminal :

```
docker exec xldeploy ls -ae /dpl
docker exec xldeploy cat /dpl/README.md
```

Check : The variable {{KEY1}} was not modified !

More information on :

<https://docs.xebialabs.com/xl-deploy/4.0.x/filePluginManual.html#file.Folder>



**JENKINS : TRIGGER ON THE COMMIT**

The screenshot shows the Jenkins job configuration page for a job named "JENKINS : TRIGGER ON THE COMMIT". The configuration section is titled "Ce qui déclenche le build" (What triggers the build). It includes three checkboxes: "Construire après le build sur d'autres projets" (Build after other projects build), "Construire périodiquement" (Build periodically), and "Scrutation de l'outil de gestion de version" (Scanning of the version control tool). The third checkbox is checked. Below these is a "Planning" field containing the cron expression "\* \* \* \* \*". A warning message below the planning field states: "Voulez-vous vraiment dire "chaque minute" avec l'expression ""\* \* \* \* \*"? Peut-être vouslez-vous dire "H \* \* \* \*"? Aurait été lancé à Sunday, May 29, 2016 1:41:35 AM UTC; prochaine exécution à Sunday, May 29, 2016 1:41:35 AM UTC." At the bottom left is an "Ignore post-commit hooks" checkbox, which is unchecked. The footer of the page includes the SOFTEAM Cadextan logo, the text "Training : DevOps-Continuous Deployment", and the number "42".

## Configure the Jenkins job

> Trigger the build  
Check : trigger by SCM  
Planning : \* \* \* \* \*

-> Save



## GIT: COMMIT A NEW VERSION

```
$ docker exec -it git bash -x /app/clone-and-push.sh
+ echo

+ ls
Dockerfile Main.class Main.java README.md clone-and-push.sh
+ pwd
/app
+ echo git clone a repo
git clone a repo
+ git clone http://gogs:3000/root/devops-codesource.git
Cloning into 'devops-codesource'...
remote: Counting objects: 3, done.
remote: Total 3 (delta 0), reused 0 (delta 0)
Unpacking objects: 100% (3/3), done.
Checking connectivity... done.
+ ls /app
Dockerfile Main.class Main.java README.md clone-and-push.sh devops-codesource
+ cd devops-codesource
+ git config --global user.email root@devops.local
+ git config --global user.name root
+ git config --global user.password password
+ echo 'This is the config de {{KEY1}}'
+ git add -all
+ git commit -m 'init commit'
[master c84b0a6] init commit
 1 file changed, 1 insertion(+)
 create mode 100644 test.config
+ git push origin master
Username for 'http://gogs:3000': root
Password for 'http://root@gogs:3000':
Counting objects: 3, done.
Compressing objects: 100% (2/2), done.
Writing objects: 100% (3/3), 299 bytes | 0 bytes/s, done.
Total 3 (delta 0), reused 0 (delta 0)
To http://gogs:3000/root/devops-codesource.git
  e7d94be..c84b0a6 master -> master
```

Run on terminal :

`docker exec -it git bash -x /app/clone-and-push.sh`

When asked, enter name :

`root`

When asked, enter name :

`password`

GOGS : CHECK THE COMMIT

The screenshot shows a web-based version control interface for a repository named 'devops-codesource'. At the top, there are navigation links: 'Tableau de bord', 'Tickets', 'Pull Requests', and 'Explorer'. Below this, a breadcrumb navigation shows 'root / devops-codesource'. There are four tabs: 'Code' (selected), 'Tickets' (0), 'Pull Requests' (0), and 'Commits' (2). A message 'Aucune description' is displayed. Below the tabs, there is a green button with a pull request icon and a dropdown menu showing 'Branche: master'. The commit history for 'test.config' is shown, with one entry: '1 This is the config de {{KEY1}}'. At the bottom of the interface, there is a footer bar with the text 'SOFTEAM Cadextan', 'Training : DevOps-Continuous Deployment', and the number '45'.

Check on gogs website

## JENKINS : NEW BUILD - STARTED BY SCM CHANGE

```
Started by an SCM change
Building in workspace '/var/jenkins_home/jobs/job-cd/workspace'
> git rev-parse --show-toplevel & timeout=10
Fetching changes from the remote Git repository
> git config remote.origin.url http://gogs:3000/root/devops-codesource.git # timeout=10
Fetching upstream changes from http://gogs:3000/root/devops-codesource.git
> git fetch --tags --progress http://gogs:3000/root/devops-codesource.git
refs/heads/*:refs/remotes/origin/*
> git rev-parse refs/remotes/origin/master^{commit} # timeout=10
> git config core.askpass=true
> git config core.sparsecheckout # timeout=10
Checking out Revision c48dd464869ad47d5758709511641122ba35067 (refs/remotes/origin/master)
> git config core.sparsecheckout # timeout=10
> git checkout c48dd464869ad47d5758709511641122ba35067
> git pull https://jenkins:443@192.168.0.62:43000/gogs:3000/root/devops-codesource.git # timeout=10
Info: Package application Applications/MY-APP, version 1.0-jenkins-job-cd-4
Info: Searching for 'sources' in '/var/jenkins_home/jobs/job-cd/workspace'
Info: Found file(s): [/var/jenkins_home/jobs/job-cd/workspace/sources]
Info: Applying configuration to build in /var/jenkins_home/jobs/job-cd/workspace/deployitpackage/MY-APP-1.0-jenkins-job-cd-4.dar
Info: Import the deployment package /var/jenkins_home/jobs/job-cd/workspace/deployitpackage/MY-APP-1.0-jenkins-job-cd-4.dar
Info: The package /var/jenkins_home/jobs/job-cd/workspace/deployitpackage/MY-APP-1.0-jenkins-job-cd-4.dar has been imported.
Info: Starting the deployment of Applications/MY-APP to Environments/DEV-ENV
Info: Deploying application Applications/MY-APP/1.0-jenkins-job-cd-4 to Environments/DEV-ENV
Info: 2340aae90-5a3f-477c-8d5e-1c7aa4e6113d Description Update deployment of Environments/DEV-ENV/MY-APP
Info: 2340aae90-5a3f-477c-8d5e-1c7aa4e6113d State PENDING 0/3
Info: 2340aae90-5a3f-477c-8d5e-1c7aa4e6113d step #1 PENDING Delete RepoFolder from Infrastructure/DEV-SERVER
Info: 2340aae90-5a3f-477c-8d5e-1c7aa4e6113d step #2 PENDING Copy RepoFolder to Infrastructure/DEV-SERVER
Info: 2340aae90-5a3f-477c-8d5e-1c7aa4e6113d step #3 PENDING Update the repository with deployment.
Info: Start deployment task 2340aae90-5a3f-477c-8d5e-1c7aa4e6113d
Info: 2340aae90-5a3f-477c-8d5e-1c7aa4e6113d Description Update deployment of Environments/DEV-ENV/MY-APP
Info: 2340aae90-5a3f-477c-8d5e-1c7aa4e6113d State EXECUTED 3/3
Info: 2340aae90-5a3f-477c-8d5e-1c7aa4e6113d Start 2016/05/29 01:48:09
Info: 2340aae90-5a3f-477c-8d5e-1c7aa4e6113d Completion 2016/05/29 01:48:09
Info: 2340aae90-5a3f-477c-8d5e-1c7aa4e6113d step #1 DONE Delete RepoFolder from Infrastructure/DEV-SERVER
Deleting /dpl/.git on host Infrastructure/DEV-SERVER
Deleting /dpl/README.md on host Infrastructure/DEV-SERVER
Deleting /dpl/ on host Infrastructure/DEV-SERVER
Deleting /dpl/ on host Infrastructure/DEV-SERVER
Info: 2340aae90-5a3f-477c-8d5e-1c7aa4e6113d step #2 DONE Copy RepoFolder to Infrastructure/DEV-SERVER
Uploading artifact [/tmp/ot-20160529T014809376/sources]
Copying /tmp/ot-20160529T014809376/sources to /dpl on host Infrastructure/DEV-SERVER
Info: 2340aae90-5a3f-477c-8d5e-1c7aa4e6113d step #3 DONE Update the repository with deployment.
Starting repository update.
Finished repository update.
Info: Ending the deployment of Applications/MY-APP to Environments/DEV-ENV
Finished: SUCCESS
```

You will see a new build in jenkins.

In the first line in the log, you will find :  
Started by an SCM change

XL DEPLOY – DEPLOYMENT ALREADY DONE – STARTED BY COMMIT

The screenshot shows the XL Deploy 5.5.1 interface. At the top, there's a navigation bar with links for Release Dashboard, Repository, Reports, Admin, Compare, Provisioning, and User: admin. Below the navigation is a main workspace titled "INITIAL DEPLOYMENT". On the left, there's a sidebar labeled "Packages" with a search bar and a tree view showing "MY-APP (1.0-jenkins-job-cd-3)" expanded, containing three items: "1.0-jenkins-job-cd-4 (MY-APP)", "1.0-jenkins-job-cd-3 (MY-APP)", and "1.0-jenkins-job-cd-2 (MY-APP)". On the right, there's a sidebar labeled "Environments" with a tree view showing "DEV-ENV" expanded, containing "MY-APP/1.0-jenkins-job-cd-4". The central workspace has two large dashed boxes: one on the left with a blue cube icon and the text "Drag and drop a package", and one on the right with a green server icon and the text "Drag and drop an environment".

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## DOCKER : CHECK DEPLOYMENT DESTINATION

```
$ docker exec xldeploy ls -ae /dpl
total 20
drwxr-xr-x    3 root      root          4096 Sun May 29 01:48:09 2016 .
drwxr-xr-x   36 root      root          4096 Sun May 29 01:29:10 2016 ..
drwxr-xr-x    8 root      root          4096 Sun May 29 01:48:09 2016 .git
-rw-r--r--    1 root      root           44 Sun May 29 01:48:09 2016 README.md
-rw-r--r--    1 root      root          29 Sun May 29 01:48:09 2016 test.config
```

```
$ docker exec git cat /app/devops-codesource/test.config
This is the config{{de {{KEY1}}}}
```

```
$ docker exec xldeploy cat /dpl/test.config
This is the config{{de VALUE1}}
```

Run on the terminal :

```
docker exec xldeploy ls -ae /dpl
```

```
docker exec xldeploy cat /dpl/test.config
```

Check : The variable {{KEY1}} was not modified !

More information on :

<https://docs.xebialabs.com/xl-deploy/4.0.x/filePluginManual.html#file.Folder>

YOU HAVE DONE THE :  
CONTINUOUS DEPLOYMENT

