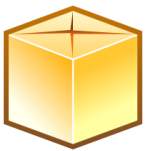


## 3 - Jenkins - Add a new project

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### Table of contents

- [Create a new Item](#)
  - [Configure your project](#)
    - [Configure Git](#)
    - [Add Build Triggers](#)
      - [Create a new hook in BitBucket](#)
      - [Triggers configuration in your Jenkins project](#)
    - [Configure the Build Environment](#)
      - [Invoke Artifactory Manager](#)
      - [Inject GumGum's parameters](#)
      - [Invoke Gradle or Maven \(depending on your project\)](#)
      - [Email notification](#)
- 



### Create a new Item

- Click on **New Item** from the Dashboard

The screenshot shows the Jenkins dashboard with a large 'New Item' button at the top. Below it are links for 'People', 'Build History', 'Manage Jenkins', and 'Credentials'. The 'Build Queue' section shows 'No builds in the queue.' The 'Build Executor Status' section shows a table with two executors, both in an 'Idle' state.

#	Status
1	Idle
2	Idle

- Enter the name of your project and check the box **Build a free-style software project**

Item name

- ☒ **Build a free-style software project**  
This is the central feature of Jenkins. Jenkins will build your project, combining any SCM with any build system, and this can be even used for something other than software build.
- ☐ **Build a maven2/3 project**  
Build a maven 2/3 project. Jenkins takes advantage of your POM files and drastically reduces the configuration.
- ☐ **Build multi-configuration project**  
Suitable for projects that need a large number of different configurations, such as testing on multiple environments, platform-specific builds, etc.
- ☐ **Monitor an external job**  
This type of job allows you to record the execution of a process run outside Jenkins, even on a remote machine. This is designed so that you can use Jenkins as a dashboard of your existing automation system. See [the documentation for more details](#).



## Configure your project



## Configure Git

- Here are the following settings that you have to configure to build your project from BitBucket

Select the source code management tool	<input checked="" type="checkbox"/> Git				
Repository URL	git@bitbucket.org:gumgum/ <i>projectName</i> .git				
Credentials	Select the credentials for BitBucket (References <a href="#">Add Credentials in Jenkins</a> )				
Branch to build	origin/master (most of the time)				
Additional Behaviours - Check out to specific local branch	master				
Additional Behaviours - Custom user name/e-mail address	<table> <tr> <td>user.name</td><td>Jenkins</td></tr> <tr> <td>user.email</td><td>jenkins@gumgum.com</td></tr> </table>	user.name	Jenkins	user.email	jenkins@gumgum.com
user.name	Jenkins				
user.email	jenkins@gumgum.com				

#### Source Code Management

☐ CVS  
☐ CVS Projectset  
☒ Git

Repositories

Repository URL

Credentials

Branches to build

Branch Specifier (blank for 'any')

Repository browser

Additional Behaviours

☒ Check out to specific local branch

Branch name

☒ Custom user name-email address

user.name

user.email

☐ None  
☐ Subversion



## Add Build Triggers

- Add two builds triggers, one from BitBucket, and the other one to pull periodically



## Create a new hook in BitBucket

- Reference link if needed: <https://confluence.atlassian.com/display/BITBUCKET/Manage+Bitbucket+hooks>
- Go on BitBucket and click on the **gear icon** (You have to be admin)
- Click on **Hooks**
- **Add hook** after selecting **Jenkins** in the menu

**Hooks** allow you to extend what Bitbucket does when the repository changes (for example, new code is pushed or a pull request is merged).

- [Repository details](#)
- [Access management](#)
- [Branch management](#)
- [Username aliases](#)
- [Hooks](#)**
- [Links](#)
- [Deployment keys](#)
- [Transfer repository](#)
- [Delete repository](#)

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- [Issue tracker settings](#)

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- [Wiki settings](#)

- |                     |  |
|---------------------|--|
| <b>Endpoint</b>     | DNS of your EC2 instance (http://jenkins.gumgum.com) |
| <b>Project name</b> | Name of your project in Jenkins                      |

## Jenkins

Save Cancel

❗ You have to allow BitBucket's IP addresses to trigger the hook on your server. In order to do that you have to allow the following ports: **80, 443** in your Security Groups.

Allow these ports for the Ips given in the **Outbound** column in the following link  
<https://confluence.atlassian.com/display/BITBUCKET/How+can+I+access+Bitbucket+from+behind+a+firewall>

**As written in the documentation those Ips may change, so in case of error with the hook trigger, check this documentation first!**

## Triggers configuration in your Jenkins project

- Thanks to these triggers, you allow Jenkins to build your project **after each commit on the master** (thanks to the **Build when a change is pushed to BitBucket** checkbox)

**Build Triggers**

☐ Build after other projects are built

☐ Build periodically

☒ Build when a change is pushed to BitBucket

☐ Poll SCM



## Configure the Build Environment



### Invoke Artifactory Manager

- In order to export to artifactory, you have to check the Gradle-Artifactory Integration checkbox

**Build Environment**

☐ Ant/Ivy-Artifactory Integration

☐ Generic-Artifactory Integration

☒ Gradle-Artifactory Integration

**Artifactory Configuration**

Artifactory server:

Resolution repository:

Publishing repository:

Custom staging configuration:

- As you can see, there is an issue to refresh the selection lists
- To overcome this problem you can just hit **Apply** (Button at the bottom of the page) and **refresh** your browser (F5)
- Set up the following parameter:

<b>Artifactory server</b>	<a href="https://gumgum.artifactoryonline.com/gumgum">https://gumgum.artifactoryonline.com/gumgum</a> (See section <a href="#">Artifactory Configuration</a> )
<b>Resolution repository</b>	repo
<b>Publishing repository</b>	libs-releases-local
<b>Custom staging configuration</b>	None

**Artifactory Configuration**

Artifactory server:

Resolution repository:

Publishing repository:

Custom staging configuration:

- **Uncheck** the following two checkboxes avoiding releasing a SNAPSHOT to artifactory.

☐ Capture and publish build info

☐ Publish artifacts to Artifactory

- Enable the **Release Management**

<b>VCS tags name/base URL</b>	release-
<b>Git release branch name prefix</b>	REL-BRANCH-
<b>Release properties</b>	version
<b>Next integration properties</b>	version
<b>Alternative Gradle tasks and options</b>	All of the Gradle command that you want to invoke, usually: clean   assemble   build   uploadArchives   deploy

☒ Enabled Release Management

VCS tags name/base URL

Git release branch name prefix

Release properties

Next integration properties

Alternative Gradle tasks and options



## Inject GumGum's parameters

- Configure the build environment in order to inject some parameters used by the Gradle script
- This section is using some files created in the following section: [Import the GumGum configuration](#)

<b>Properties File Path</b>	\$HOME/.gumgum/gradle.properties
<b>Script File Path</b>	\$HOME/.gumgum/jenkins-env.sh

**Build Environment**

☐ Ant/Ivy-Artifactory Integration

☐ Generic-Artifactory Integration

☐ Gradle-Artifactory Integration

☒ Inject environment variables to the build process

Properties File Path

Properties Content

Script File Path

Script Content

☐ Inject passwords to the build as environment variables

☐ Maven3-Artifactory Integration



## Invoke Gradle or Maven (depending on your project)

- Add a new build > Invoke Gradle script OR Add a new build > Invoke Maven 3
- Select the version of Gradle/Maven (Items comes from the configuration of Jenkins -> [Gradle Configuration](#) / [Maven Configuration](#))
- Set tasks to run by Gradle (Usually **clean build**) / Maven (Usually **clean deploy**)

**Build**

**Invoke Gradle script**

☒ Invoke Gradle  
Gradle Version

☐ Use Gradle Wrapper  
Build step description

Switches

Tasks

Root Build script

Build File

Specify Gradle build file to run. Also, [some environment variables are available to the build script](#)

Force GRADLE\_USER\_HOME to use workspace ☐

[Delete](#)



## Email notification

- Add a new post-build action > Email notification

**Post-build Actions**

**E-mail Notification**

Recipients

Whitespace-separated list of recipient addresses. May reference build parameters like \$PARAM. E-mail will be sent when a build fails, becomes unstable or returns to stable.

☒ Send e-mail for every unstable build

☐ Send separate e-mails to individuals who broke the build

[Delete](#)



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Maxime Nay likes this

No labels