

# Jobcopy Builder plugin

## Plugin Information

View Jobcopy Builder [on the plugin site](#) for more information.

This plugin adds "Copy Job" as a build step. You can select how to retrieve choices, including the way to share choices among all jobs.

## What's this?

This plugin provides a Copy Job build step:

- It makes a new job from an existing job.
  - You can copy multiple jobs in one build execution with specifying multiple Copy Job build steps.
  - Can be applied to any type of jobs.
- You specify following parameters.
  - From Job Name
    - Variable expressions can be used.
  - To Job Name
    - Variable expressions can be used.
  - Overwrite
    - Specifies whether to overwrite the destination job if it already exists.
- Additional operations can be performed when copying.
  - Enable Job: Enabling the destination job if the source job is disabled.
  - Disable Job: Disabling the destination job if the source job is enabled. (  $\geq$  1.3.0)
  - Replace String: Replace strings in a job configuration.
    - Source and destination strings can contain variable expressions.
- Additional operation can be extended by using Extension Points.

## Screenshots

1. You can add "Copy Job" build step.

**Build**

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**Copy Job**

From Job Name  ?

To Job Name  ?

Overwrite  ?

**Enable Job** Delete

**Replace String**

From String  ?

Expand From String  ?

To String  ?

Expand To String  ?

Delete

Add Copy Operation ▼

2. "Copy Job" performs additional operations. Replacing strings in the configuration, enabling a disabled job.

- The job copied from

Project name	Jobcopy-builder-TEMPLATE
Description	Builds jobcopy-builder VERSION

[Preview](#)

- Discard Old Builds
- This build is parameterized
- Disable Build (No new builds will be executed until the project is re-enabled.)

- The job copied to. String "VERSION" is replaced, and the job is enabled.

Project name	Jobcopy-builder-1.0.0
Description	Builds jobcopy-builder 1.0.0

[Preview](#)

- Discard Old Builds
- This build is parameterized
- Disable Build (No new builds will be executed until the project is re-enabled.)

3. Replacing strings can be applied to any part of configurations, including that of plugins. This is a example that the branch field of Git plugin is replaced.

- The job copied from.

Add

Branch Specifier (blank for default):

- The job copied to. String "VERSION" is replaced.

Add

Branch Specifier (blank for default):

## How does this work?

This plugin works as following:

1. Reads the configuration xml (config.xml) of the copying job.
2. Applies the operations to the configuration xml string.
3. Create a new job with the processed configuration xml string.

## Extension point

A new way to provide choices can be added with implementing `JobcopyOperation`, overriding the following method:

```
public String perform(String xmlString, String encoding, EnvVars env, PrintStream logger);
```

or, with extending `AbstractXmlJobcopyOperation`, overriding the following method:

```
abstract public Document perform(Document doc, EnvVars env, PrintStream logger);
```

## Used with promoted builds

When used with [Promoted Builds Plugin](#), the configurations of promotions are not copied for they are not stored in config.xml. Do as followings:

- Click "Advanced" in "copy Job"
- Add "Additional File Sets", specify "promotions/\*/config.xml" in "Files".

## Permissions to copy jobs

- "Copy Job" build step requires following permissions.

Target Job	Required permissions	Notes
Item to copy from	Job/Read, Job/ExtendedRead	Job/ExtendedRead is displayed only when you install <a href="#">Extended Read Permission Plugin</a> . You can grant it by granting Job/Configure instead.
Item to copy to (when create)	Job/Create	
Item to copy to (when overwrite)	Job/Read, Job/Configure	

- "Copy Job" is run as ANONYMOUS as default.
  - If you want "Copy Job" run as a specific user, use other plugins authenticate builds. e.g. [Authorize Project plugin](#)

## Issues

To report a bug or request an enhancement to this plugin please create a ticket in JIRA (you need to login or to sign up for an account). Also have a look on [How to report an issue](#)

- [Bug report](#)
- [Request or propose an improvement of existing feature](#)
- [Request or propose a new feature](#)

Key	T	P	Summary
JENKINS-56143			Jenkins - Update Jobs for Jenkins instance hosted on Docker Container
JENKINS-53993			Provide recursive processing of jobs referenced in jobcopy plugin
JENKINS-39023			Improve authorization issue cases
JENKINS-37875			Absolute name for "Copy To" doesn't work
JENKINS-30773			Use jobcopy-plugin's text replacement feature for existing jobs.
JENKINS-18773			Copy Operation for adding new job to View

[6 issues](#)

## Change Log

### Version 1.4.0 (Jul 24, 2016)

- Targets Jenkins 1.532. (was 1.480.3 till 1.3.0)
- Improved permission checks ([JENKINS-36672](#))
  - Jobcopy build step is authorized as anonymous when the build is run as SYSTEM (that is, if not authorization for the job is not configured)
  - Requires EXTENDED\_READ (or CONFIGURE) permission to read job configurations.
  - See [#Permissions to copy jobs](#) for details.

### Version 1.3.0 (May 24, 2015)

- Added "Disable Job" operation ([JENKINS-28439](#))

## **Version 1.2.0 (Sep 11, 2014)**

- Changed target Jenkins version from 1.466 to 1.480.3.
- Supports [CloudBees Folders Plugin](#) ([JENKINS-24515](#))
  - You can copy a job in a folder into another folder.
  - You can copy folders.

## **Version 1.1.2 (Dec 22, 2013)**

- FIXED: Build results page shows wrong link for Copied To and Copied From ([JENKINS-21080](#))

## **Version 1.1.1 (Aug 31, 2013)**

- Fixed a problem with overwriting multi-configuration projects.
  - combination filter was not removed even when it is removed in the source project.

## **Version 1.1.0 (Feb 27, 2013)**

- Added advanced configuration to copy additional files.
  - Useful for plugins that does not store configurations in config.xml of the job.
  - For example, you can copy configurations of [Promoted Builds Plugin](#).

## **Version 1.0.1 (Feb 06, 2013)**

- Improved overwrite behavior
  - Version 1.0.0: delete the old job, and create a new job. Also builds are deleted.
  - Version 1.0.1 and later: update the configuration. Builds are preserved.
- expand "From Job Name" field

## **Version 1.0.0 (Jan 14, 2013)**

- Initial release.