



Certified Jenkins Engineer

What is a Job

Jobs in Jenkins

A Job is any runnable task that is controlled by Jenkins

The Jenkins official documentation indicates that the term Job has been replaced by the term Project

Remember : Job = Project

Jobs in Jenkins

Jenkins

Jenkins >

- New Item
- People
- Build History
- Manage Jenkins
- My Views
- Credentials
- New View

Build Queue

No builds in the queue.

Build Executor Status

1 Idle
2 Idle

Welcome to Jenkins!


Please **create new jobs** to get started.

Clicking **'create new jobs'** is the same as clicking **'New Item'**

Jenkins home page first run



Jobs in Jenkins


 **Jenkins**

search


Jenkins

Enter an item name


» This field cannot be empty, please enter a valid name




Freestyle 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.




Pipeline
Orchestrates long-running activities that can span multiple build slaves. Suitable for building pipelines (formerly known as workflows) and/or organizing complex activities that do not easily fit in free-style job type.




Multi-configuration project
Suitable for projects that need a large number of different configurations, such as testing on multiple environments, platform-specific builds, etc.



Folder
Creates a container that stores nested items in it. Useful for grouping things together. Unlike view, which is just a filter, a folder creates a separate namespace, so you can have multiple things of the same name as long as they are in different folders.



GitHub Organization
Scans a GitHub organization (or user account) for all repositories matching some defined markers.



Multibranch Pipeline
Creates a set of Pipeline projects according to detected branches in one SCM repository.

OK

Job / Project types



Jobs in Jenkins

Freestyle Project

This is the most common type of project. The build step for this type of project normally executes a shell (Linux) or batch (Windows) command.



Jobs in Jenkins

Pipeline

This type of project used to be called a **workflow**. These projects are normally written in Jenkins Domain Specific Language (DSL).

These types of projects are for things that do not fit in a freestyle project, because they are too complicated or span multiple nodes.



Jobs in Jenkins

Multi-Configuration Project

This is for projects that will be tested on multiple environments, and require different configurations, depending on those environments.



Jobs in Jenkins

Git-Hub Organization

This type of project can use the source control platform's organization and allow Jenkins to act on Jenkinsfiles stored within the organization's repositories.



Jobs in Jenkins

Folder

This provides a method to group projects together. This is not technically a project. It acts as a type of directory structure for the projects, and the folder name becomes part of the path of the projects.



Multi-Branch Pipeline

In this type of project, Jenkins uses a Jenkinsfile to mark repositories. If a branch is created in that repository, Jenkins will make a new project in Jenkins for that branch.



Jobs in Jenkins

Job / Project Scope

This includes all of the items that are part of that particular Job / Project. In some cases, there are Global libraries that are brought into the scope of a project simply by being included. Other items that are declared within a project only exist in that project's scope, and are not available as a shared resource.

