

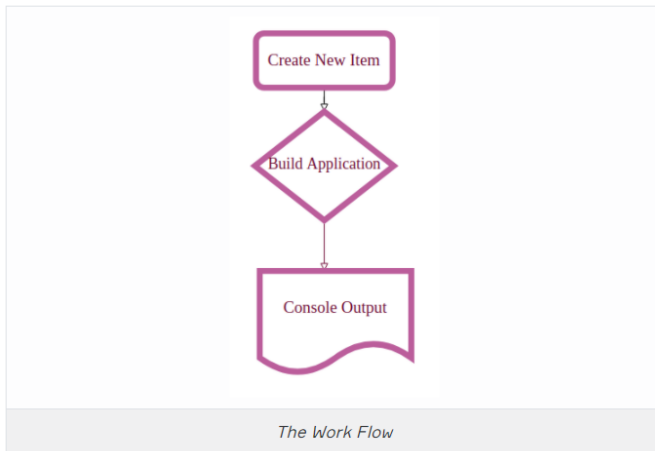
Build Your Jenkins Job

What is Jenkins Job

A Jenkins project is a repeatable build job which contains steps and post-build actions. The types of actions you can perform in a build step or post-build action are quite limited. There are many standard plugins available within a Jenkins freestyle project to help you overcome this problem. They allow you to configure build triggers and offers project-based security for your Jenkins project.

A new Jenkins item can be any of six types of job plus a folder for organizing items:

- Freestyle Project
- Pipeline
- External Job
- Multi-configuration Project
- Folder
- Github Organization
- Multibranch Pipeline

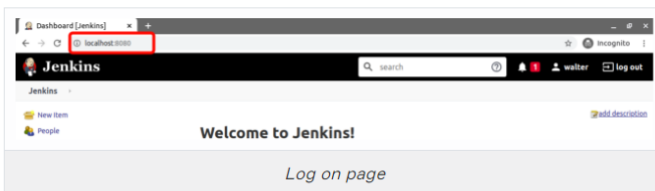


Create Your First Job

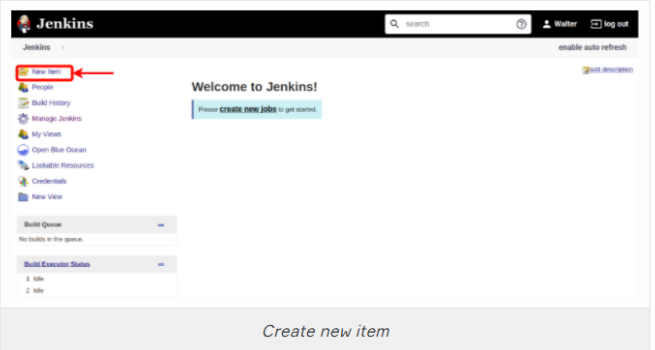
In this lesson we will create a job in Jenkins which picks up a simple "Hello World" python script, builds and runs the python code. Our example will be very simple but you can manage complex applications.

The freestyle build job is a highly flexible and easy-to-use option. You can use it for any type of project; it is easy to set up, and many of its options appear in other build jobs.

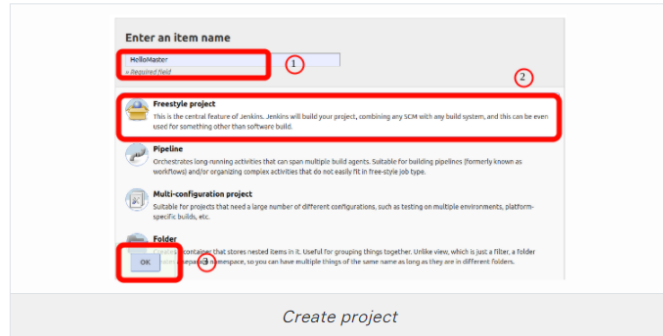
1 - To create a Jenkins freestyle job, open your Jenkins installation path. It will be hosted on <http://localhost:8080> or <http://ec2-ip-address:8080> If you have installed to different port, please use this port number. Then log on to your Jenkins dashboard with username and password.



2 - Open your Jenkins dashboard and click on **New Item** to create a new item.



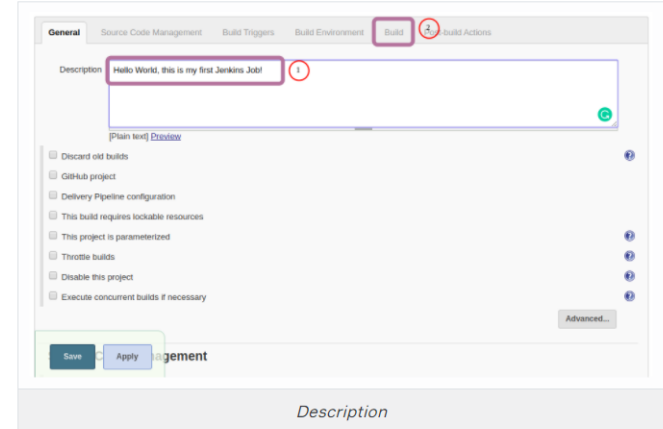
3 - Enter the **item name** then select **freestyle project** and click to **OK**.



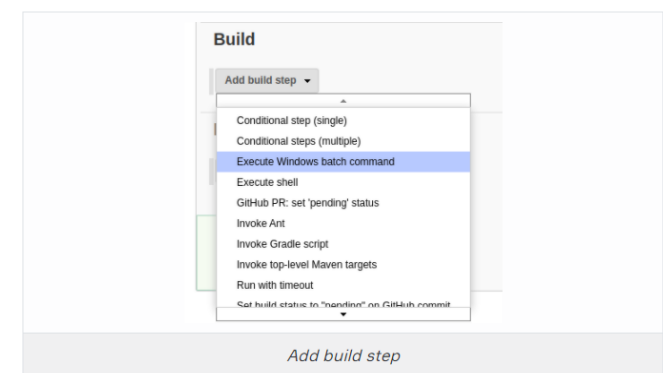
While creating first Project you will see four tab. These are:

1. Source Code Management Tab : optional SCM, such as CVS or Subversion where your source code resides.
2. Build Triggers : Optional triggers to control when Jenkins will perform builds.
3. Build Environment: Some sort of build script that performs the build (ant, maven, shell script, batch file, etc.) where the real work happens
4. Build : Optional steps to collect information out of the build, such as archiving the artifacts and/or recording javadoc and test results.
5. Post-build Actions : Optional steps to notify other people/systems with the build result, such as sending e-mails, IMs, updating issue tracker, etc.

4 - Specify your Jenkins project's **description**. Then go to **Build**.



5 - Choose appropriate build step from "Add build step". It depends on your operating system. If you are windows user you can choose **Execute Windows batch command** or if you are using Linux or MacOS operating system, you can choose **Execute shell**.



6 - When you select the build step, command space will be shown. Write down just **echo "Hello World"** to execute shell command/windows batch command.

Build

Execute shell

Command

echo Hello World

See [the list of available environment variables](#)

Advanced...

Add build step

Build Command

7 - Then click **apply** and **save** button.

8 - After that you will see inside of the Project. Then click to **Build now** and wait a few seconds. You will see result of this build action under the **Build History**

Back to Dashboard

Status

Changes

Workspace

Build Now

Delete Project

Configure

Favorite

Open Blue Ocean

Rename

Project HelloMaster

hello world python test program

Workspace

Recent Changes

Permalinks

Build History

trend

find

#2 Apr 25, 2020 1:52 PM

#1 Apr 25, 2020 1:52 PM

Atom feed for all

Atom feed for failures

Add build step

9 - As we mentioned above you will see the results of the build. If you click to the build number, you can reach build page. If you see the number blue that means build worked well.

Back to Dashboard

Status

Changes

Workspace

Build Now

Delete Project

Configure

Move

Rename

Project HelloMaster

Hello World, this is my first Jenkins Job!

Workspace

Recent Changes

Permalinks

Build History

trend

find

#2 Apr 25, 2020 1:52 PM

#1 Apr 25, 2020 1:52 PM

Atom feed for all

Atom feed for failures

Click the build number

10 - From build page you can see console results from "Console Output".

Back to Project

Status

Changes

Console Output

Edit Build Information

Delete build '#2'

Previous Build

Build #2 (Apr 25, 2020 1:52:43 PM)

No changes

Started by user [walter](#)

Build Page

11 - You can see results of your build. As you can see our result our job printed out to "Hello World" and it finished with "SUCCESS".

Console Output

Started by user [walter](#)
Running as SYSTEM
Building in workspace /var/lib/jenkins/workspace/HelloMaster
[HelloMaster] \$ /bin/sh -xe /tmp/jenkins2693254329432431625.sh
+ echo Hello World
Hello World
Finished: SUCCESS

Console Output

Complementary Lesson about Build Your First Job

Jenkins Pipeline Tutorial | Jenkins Build And Delivery Pipeline | Jenkins Tutorial | Simplilearn

Watch later

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JENKINS PIPELINE TUTORIAL

10:00