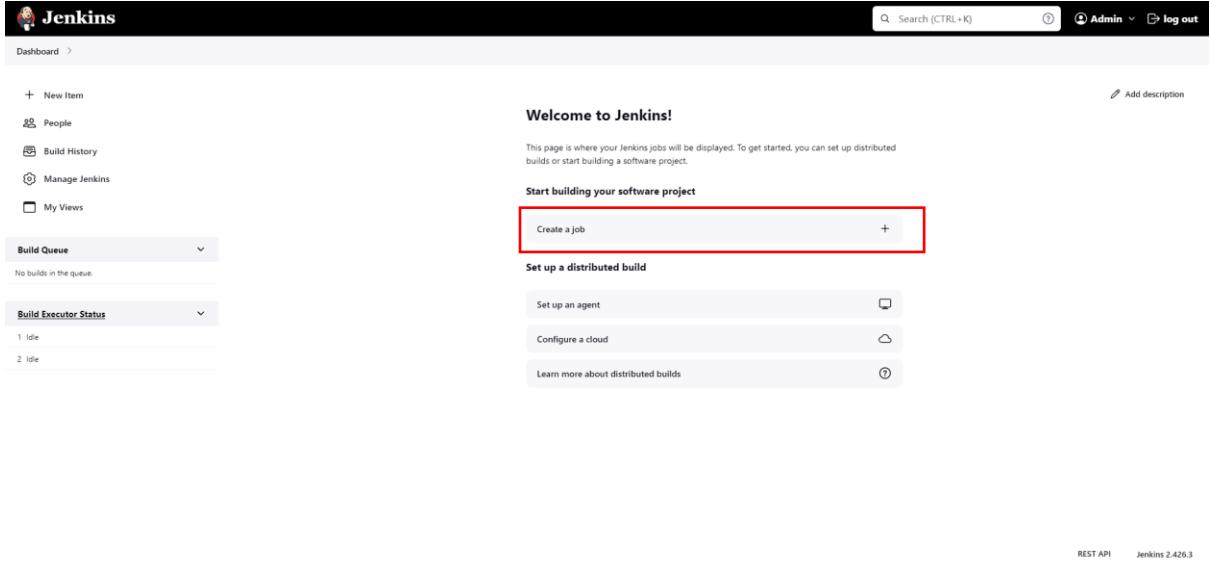


# First Job in Jenkins

1. Now in Jenkins come to its dashboard, then click on create a job.



The screenshot shows the Jenkins dashboard. On the left, there's a sidebar with links: '+ New Item', 'People', 'Build History', 'Manage Jenkins', and 'My Views'. Below that are two sections: 'Build Queue' (No builds in the queue) and 'Build Executor Status' (1 idle, 2 idle). The main area has a 'Welcome to Jenkins!' message and a 'Start building your software project' section. It features a large button labeled 'Create a Job' which is highlighted with a red box. Below it are links for 'Set up a distributed build', 'Set up an agent', 'Configure a cloud', and 'Learn more about distributed builds'. At the bottom right, it says 'REST API Jenkins 2.426.3'.

2. Here you need to give it a name and choose freestyle project, then click on OK.

## Enter an item name

firstjob

» Required field



### 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 agents. 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.



### Multibranch Pipeline

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



### Organization Folder

Creates a set of multibranch project subfolders by scanning for repositories.

OK

3. After that you need to give your job a description.

4. Then scroll down to build steps.

## General

Enabled

### Description

this is the first job to run commands.

Plain text [Preview](#)

5. Now in the build steps you need to click on add build step then you need to select Execute shell and after that you are going to write some commands.
6. Afterwards just save your job.

## Build Steps

Execute shell ?

Command

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

```
id  
whoami  
pwd
```

Advanced ▾

Add build step ▾

Save Apply

7. Once you have saved your job you will see that you have some options to play with.
8. Now if you will just click on build now you will see that the job starts running.

Status

firstjob

Changes

Workspace

Build Now

Configure

Delete Project

Rename

this is the first job to run commands.

## Permalinks

9. In the build history you can see your job and the green check means that the job has executed successfully. Click on your newly created job.

The screenshot shows the Jenkins Build History page. At the top left is a sun icon. Next to it is the text "Build History". To the right is a dropdown menu labeled "trend" with a downward arrow. Below this is a search bar with a magnifying glass icon and the placeholder text "Filter builds...". To the right of the search bar is a small input field containing a forward slash (/). The main content area shows a single build entry. It starts with a green checkmark icon followed by "#1". To the right of the build number is the date and time: "19-Feb-2024, 6:14 PM". Below the date are two links: "Atom feed for all" and "Atom feed for failures", each preceded by a RSS feed icon.

10. Now once you have clicked on your job you will see that it will take you to the console output where you can see the output of your commands.

The screenshot shows the Jenkins Console Output page for build #1. The URL in the address bar is "Dashboard > firstjob > #1 > Console Output". On the left, there is a sidebar with several options: "Status" (with a checkmark), "Changes" (disabled), "Console Output" (selected and highlighted in grey), "View as plain text" (disabled), "Edit Build Information" (disabled), and "Delete build '#1'". The main content area is titled "Console Output" with a green checkmark icon. It displays the command history and output of the build. The output shows the command was started by user "Admin" running as "SYSTEM" in workspace "/var/lib/jenkins/workspace/firstjob". The command executed was "/bin/sh -xe /tmp/jenkins13486071884564227208.sh + id + whoami jenkins + pwd /var/lib/jenkins/workspace/firstjob". The status is listed as "Finished: SUCCESS".

11. Now come back and below the build now option you will see an option to configure, click on it.
12. Now inside configure scroll down to bottom and again add build step and this time just write anything at random, then save it and run your job.

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

```
id  
whoami  
pwd
```

Advanced ▾

≡ Execute shell ? ✖

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

```
sdfasdfasdfasdfasdfasdfsadfasdfadfasdf
```

13. In your build history you will see a build id with a cross on it which means that it has failed.
14. Now open this failed job and look at its console output.

 Build History trend ▾

Filter builds... /

<span style="color: red;">✖</span> #2	<u>19-Feb-2024, 6:18 PM</u>	<span style="font-size: 2em;">↑</span> <span style="font-size: 1.5em;">↑</span> <span style="font-size: 1.5em;">↓</span>
<span style="color: green;">✓</span> #1	<u>19-Feb-2024, 6:14 PM</u>	

 [Atom feed for all](#)  [Atom feed for failures](#)

15. In the console output you can find your error by reading the output.

The screenshot shows the Jenkins console output for a build named 'firstjob'. The output indicates the build was started by user 'Admin' and running as SYSTEM. It shows the command being run: [firstjob] \$ /bin/sh -xe /tmp/jenkins15695568340670699924.sh. The log then shows several errors related to command-line syntax, such as 'uid=115(jenkins) gid=122(jenkins) groups=122(jenkins)', '+ whoami jenkins', '+ pwd /var/lib/jenkins/workspace/firstjob', and '+ /tmp/jenkins2484497717818088779.sh: 2: sdfasfasdfasdfasdfasdfasadsfadfasdfadfasdf: not found'. The final message is 'Build step 'Execute shell' marked build as failure' and 'Finished: FAILURE'.

16. Now again go back to configure and in the build, steps remove the previous step for that random alphabet.

17. Now here you are going to execute these commands. Save and then run them.

```
echo "This is your first job..." >> demo.txt
ls -l
echo "+++++++"
echo "Jenkins Demo"
echo "+++++++"
cat demo.txt
```

The screenshot shows the 'Execute shell' configuration dialog. It includes fields for 'Command' containing the above script, an 'Advanced' dropdown, and a large preview area where the command is displayed in red.

18. Once the execution is complete you can always come see your console output.

Status

Changes

**Console Output**

View as plain text

Edit Build Information

Delete build '#7'

Previous Build

**Console Output**

```
Started by user Admin
Running as SYSTEM
Building in workspace /var/lib/jenkins/workspace/firstjob
[firstjob] $ /bin/sh -xe /tmp/jenkins4643063506514487642.sh
+ id
uid=115(jenkins) gid=122(jenkins) groups=122(jenkins)
+ whoami
jenkins
+ pwd
/var/lib/jenkins/workspace/firstjob
[firstjob] $ /bin/sh -xe /tmp/jenkins10678989291940588931.sh
+ echo This is your first job...
+ ls -l
total 4
-rw-r--r-- 1 jenkins jenkins 78 Feb 19 18:39 demo.txt
+ echo ++++++
+++++
+ echo Jenkins Demo
Jenkins Demo
+ echo ++++++
+++++
+ cat demo.txt
This is your first job...
This is your first job...
This is your first job...
Finished: SUCCESS
```

19. Here are some random commands to play with. These are just to make you comfortable with the service.

Execute shell [?](#) X

Command

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

```
echo "Jenkins Demo"
echo "Amazon Web Services"
echo "Env Variables"
```

Advanced ▾

 Status

</> Changes

 Console Output

 View as plain text

 Edit Build Information

 Delete build '#5'

 Previous Build

## Console Output

```
Started by user Admin
Running as SYSTEM
Building in workspace /var/lib/jenkins/workspace/firstjob
[firstjob] $ /bin/sh -xe /tmp/jenkins1197837340851339445.sh
+ id
uid=115(jenkins) gid=122(jenkins) groups=122(jenkins)
+ whoami
jenkins
+ pwd
/var/lib/jenkins/workspace/firstjob
[firstjob] $ /bin/sh -xe /tmp/jenkins3098652979902649887.sh
+ echo Jenkins Demo
Jenkins Demo
+ echo Amazon Web Services
Amazon Web Services
+ echo Env Variables
Env Variables
Finished: SUCCESS
```