





WHAT IS A JENKINS JOB?

- A Jenkins project (job) is a repeatable build job, which contains steps and post-build actions
- A job can do anything - depending on what you configure it to do
- An example of what a job can be used to do is automatically build a project and deploy it on a server, to be accessed over the internet





HOW TO CREATE A NEW JOB



- To create a new job, you can navigate to the New Item link on the Jenkins dashboard
- This will then present you with some options for what type of job to create
- Go ahead and name your job first-job, select Freestyle Project and then select OK



HOW TO CREATE A NEW JOB



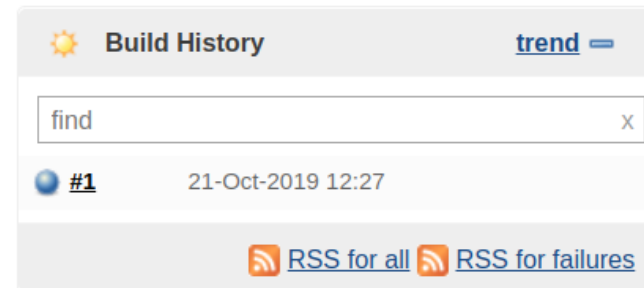
Have a look at the learner guide for all the different options with jobs

A screenshot of the Jenkins 'New Job' configuration page. The page has a black header with the Jenkins logo and a search bar. Below the header, there's a section titled 'Enter an item name' with a text input field containing 'first-job' and a 'Required field' label. Below this, there's a list of job types with icons and descriptions: 'Freestyle project' (a blue folder icon), 'Pipeline' (a blue gear icon), 'Multi-configuration project' (a blue document icon), 'Folder' (a blue folder icon), and 'GitHub Organization' (a blue GitHub logo icon). At the bottom, there's a 'Multibranch Pipeline' option with a green 'OK' button.



BUILDS

- A build is a result of an execution of a project (job) in Jenkins
- Builds for projects can be seen on the Build History section of the project dashboard:





- **Success**
 - The build succeeded
 - If all the build steps complete successfully, this will be the build status.
- **Failure**
 - The build failed
 - If any of the steps exit with a non-zero status (if they throw an error), then the build status will go to failed.



BUILD STATUS



- **Aborted:**
 - The build aborted before it finished
 - This exit status is more uncommon; it must be set either by yourself or plugins that are being used in the project
 - Build steps
 - Build steps are effectively where you configure what your job is going to do. Depending on your situation, this could accomplish many different tasks:



CONSOLE OUTPUT



- The console output is likely one of the main parts of a build that you'll be checking for information and debugging purposes
- This section includes the output for any shell scripts and plugins that have been executed in the build step for a project



Console Output

```
Started by user admin  
Running as SYSTEM  
Building in workspace /var/jenkins_home/workspace/test  
Finished: SUCCESS
```




FREESTYLE JOB



- **Installation and adoption**
 - Likely to be a long and involved process
 - Potential to waste time, effort, and money should it be approached without enough planning
- **Learning curve**
 - Pipelines make use of many different and relatively new technologies that teams may not have any prior experience with
 - New workflow
 - Some teams may find their old responsibilities obsolete and have to readjust their set of responsibilities