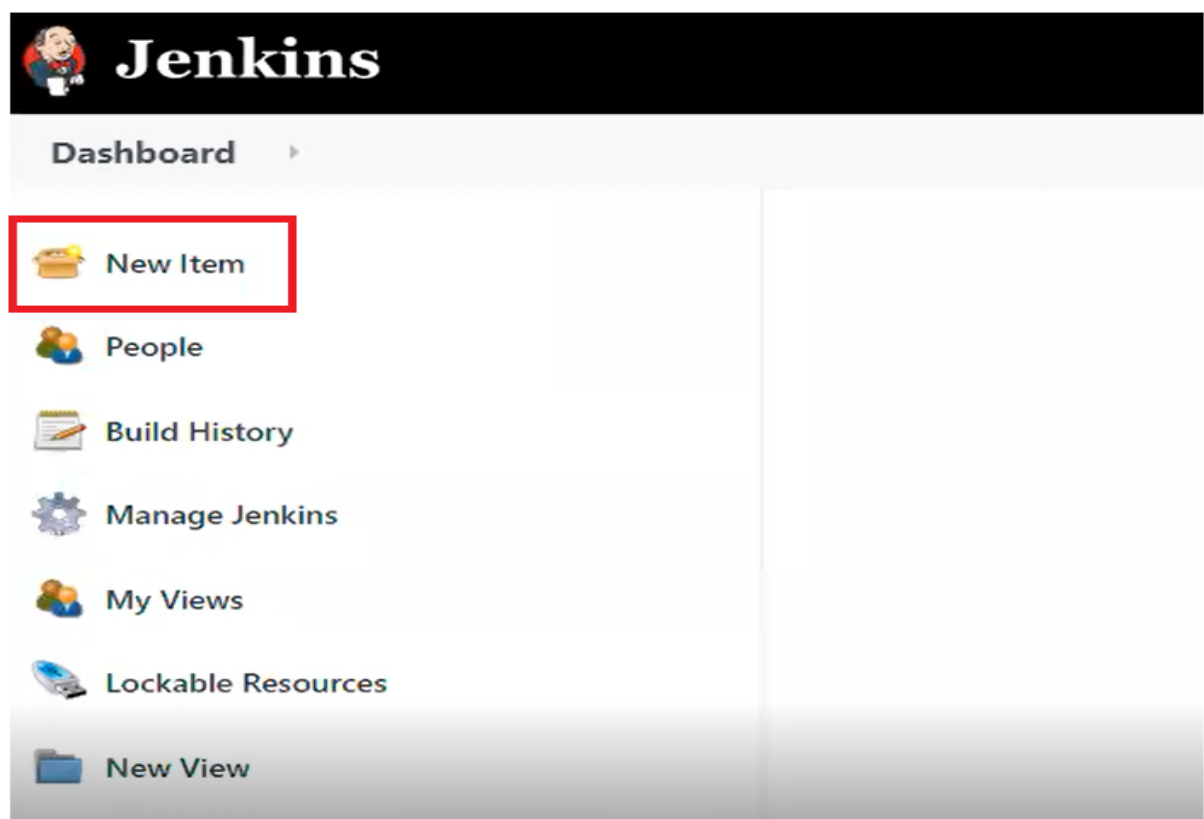


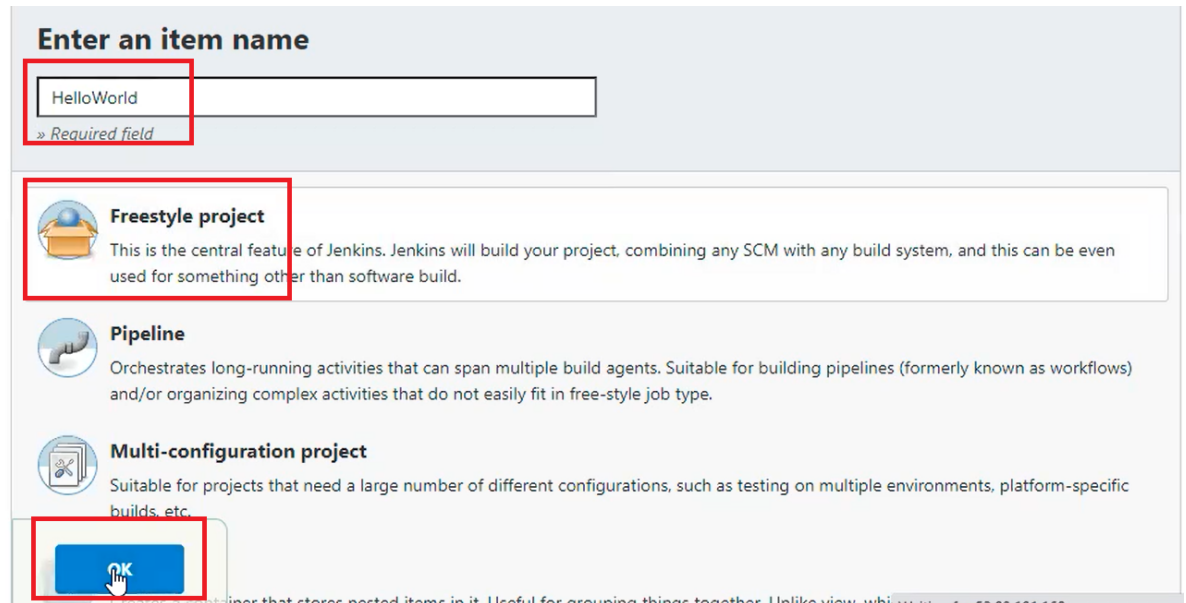
Creating Jobs in Jenkins

Here, you will learn how to create jobs in Jenkins. So, let's take a look at the following steps that are involved in creating a job once you have logged into your ec2 instance and started Jenkins on port 8080.

1. On the Jenkins dashboard, click on the **New Item** option.



2. Next, enter the project name and select the type of project that you want to create. Here, we are selecting the **Freestyle project**.



Enter an item name

HelloWorld

» Required field

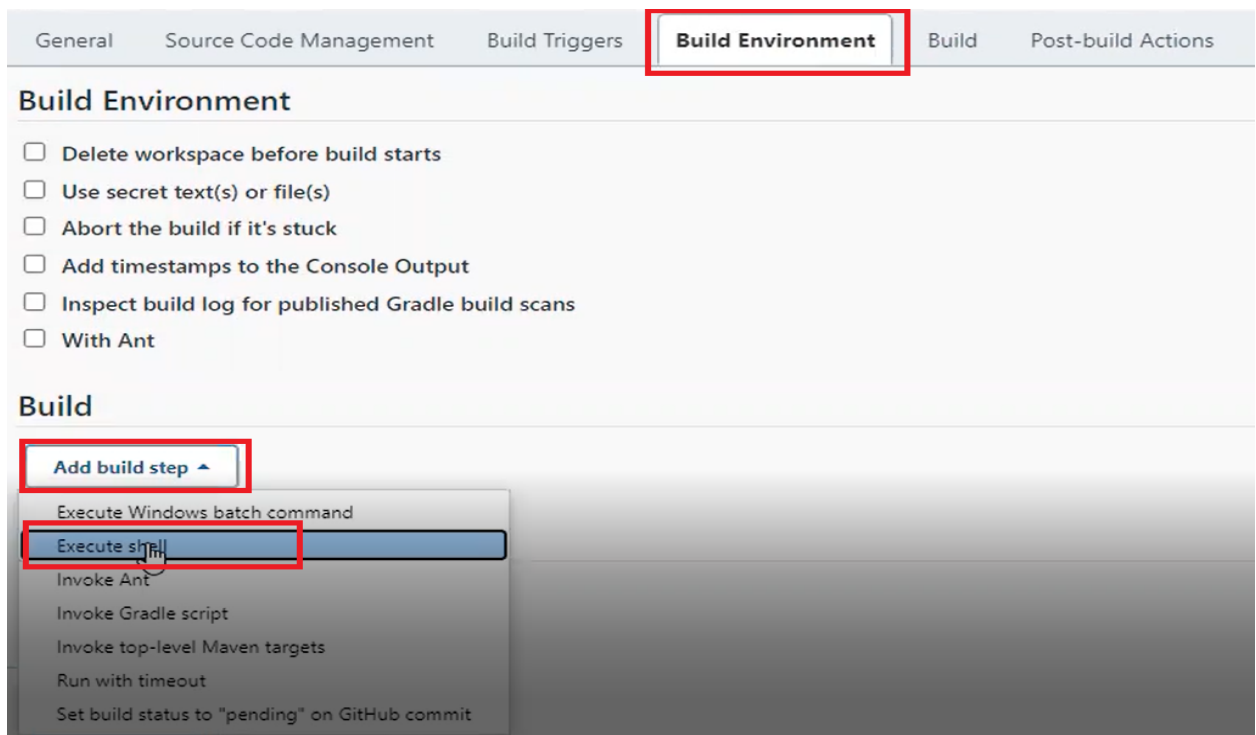
Freestyle project
This is the central feature of Jenkins. Jenkins will build your project, combining any SCM with any build system, and this can be even used for something other than software build.

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.

OK

3. Next, click on the Ok button to confirm as shown in this screenshot.
4. Then, you will be redirected to the configure section.
5. Here, you will be provided with different options. For the sake of simplicity, leave all the options as default and navigate to the **Build** section. In the **Add build step**, select the **Execute shell** option as shown in the screenshot given below.



General Source Code Management Build Triggers **Build Environment** Build Post-build Actions

Build Environment

- ☐ Delete workspace before build starts
- ☐ Use secret text(s) or file(s)
- ☐ Abort the build if it's stuck
- ☐ Add timestamps to the Console Output
- ☐ Inspect build log for published Gradle build scans
- ☐ With Ant

Build

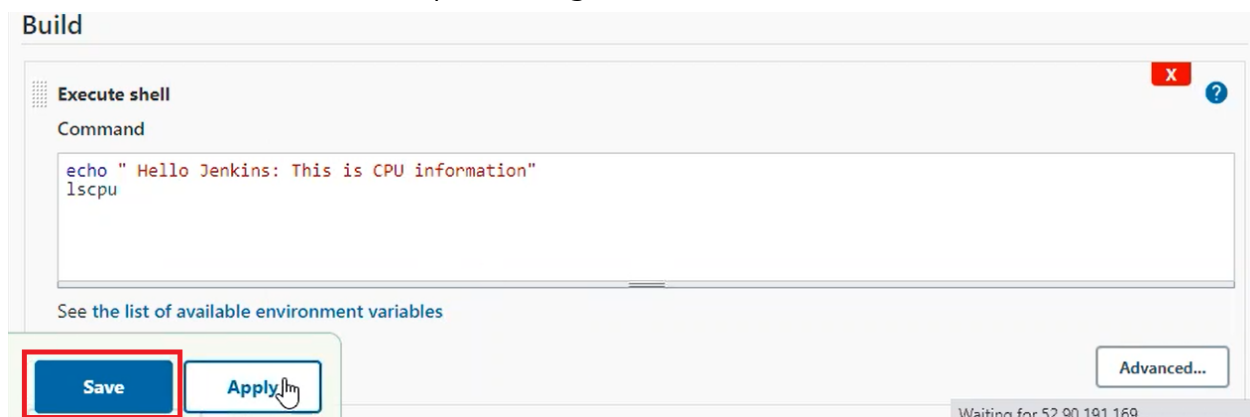
Add build step ▾

- Execute Windows batch command
- Execute shell**
- Invoke Ant
- Invoke Gradle script
- Invoke top-level Maven targets
- Run with timeout
- Set build status to "pending" on GitHub commit

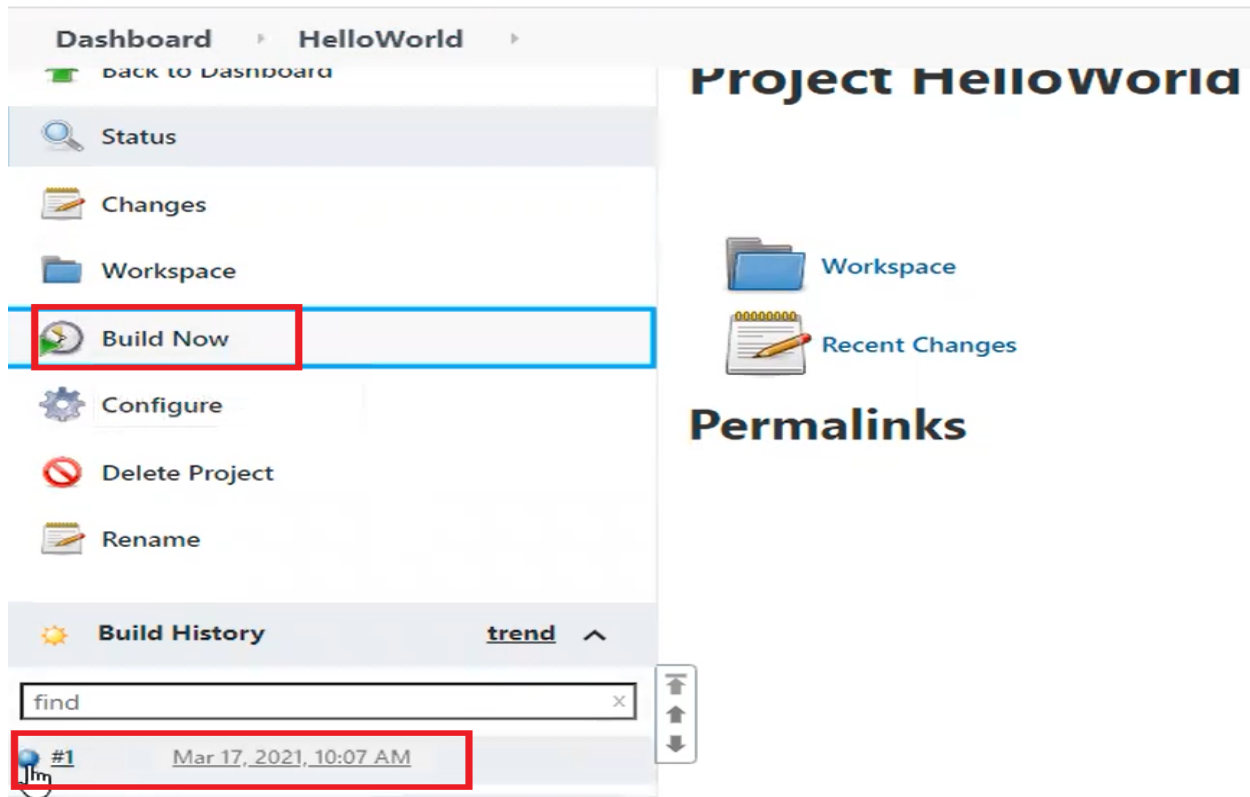
6. Now, write the shell script or any other script that you want to execute. Next, click on the **Apply** button.



7. Then, click on the **Save** option to go back to the dashboard.

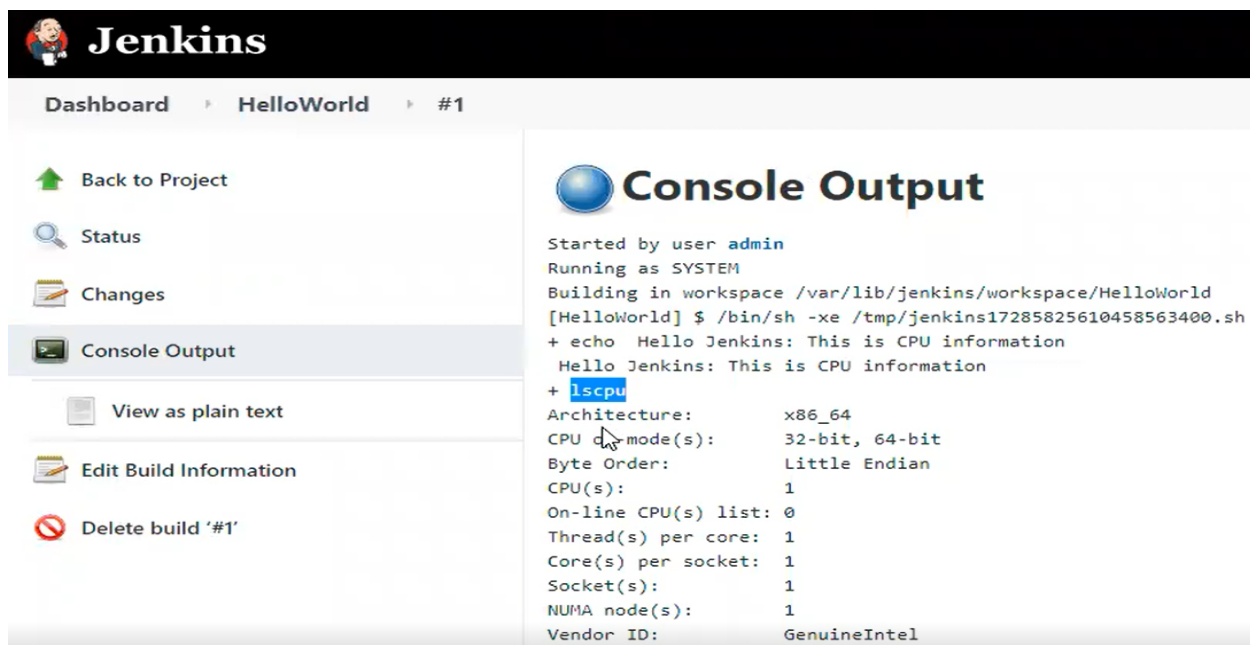


8. Click on the **Build Now** option on the left side. You can view your project getting built in the **Build History**. Here, the blue colour indicates that your project has been successfully built.



The screenshot shows the Jenkins 'Project HelloWorld' dashboard. On the left, a sidebar contains links: Status, Changes, Workspace, **Build Now** (highlighted with a red box), Configure, Delete Project, and Rename. Below this is the 'Build History' section with a search bar containing 'find' and a list of builds. The first build, labeled '#1' with a blue success icon and the timestamp 'Mar 17, 2021, 10:07 AM', is highlighted with a red box. On the right, there are links for 'Workspace' and 'Recent Changes', and a section titled 'Permalinks'.

9. After clicking on this successfully build icon, you will be directed to the **Console Output**. In the console window, you can view the output of the script.



The screenshot shows the Jenkins 'Console Output' for build '#1'. The left sidebar has links: Back to Project, Status, Changes, **Console Output** (selected), View as plain text, Edit Build Information, and Delete build '#1'. The main area displays the console output with the title 'Console Output' and a blue success icon. The output text is as follows:

```
Started by user admin
Running as SYSTEM
Building in workspace /var/lib/jenkins/workspace/HelloWorld
[HelloWorld] $ /bin/sh -xe /tmp/jenkins17285825610458563400.sh
+ echo Hello Jenkins: This is CPU information
Hello Jenkins: This is CPU information
+ lscpu
Architecture:          x86_64
CPU mode(s):           32-bit, 64-bit
Byte Order:            Little Endian
CPU(s):                1
On-line CPU(s) list:   0
Thread(s) per core:    1
Core(s) per socket:    1
Socket(s):             1
NUMA node(s):          1
Vendor ID:             GenuineIntel
```