

FIRST JOB

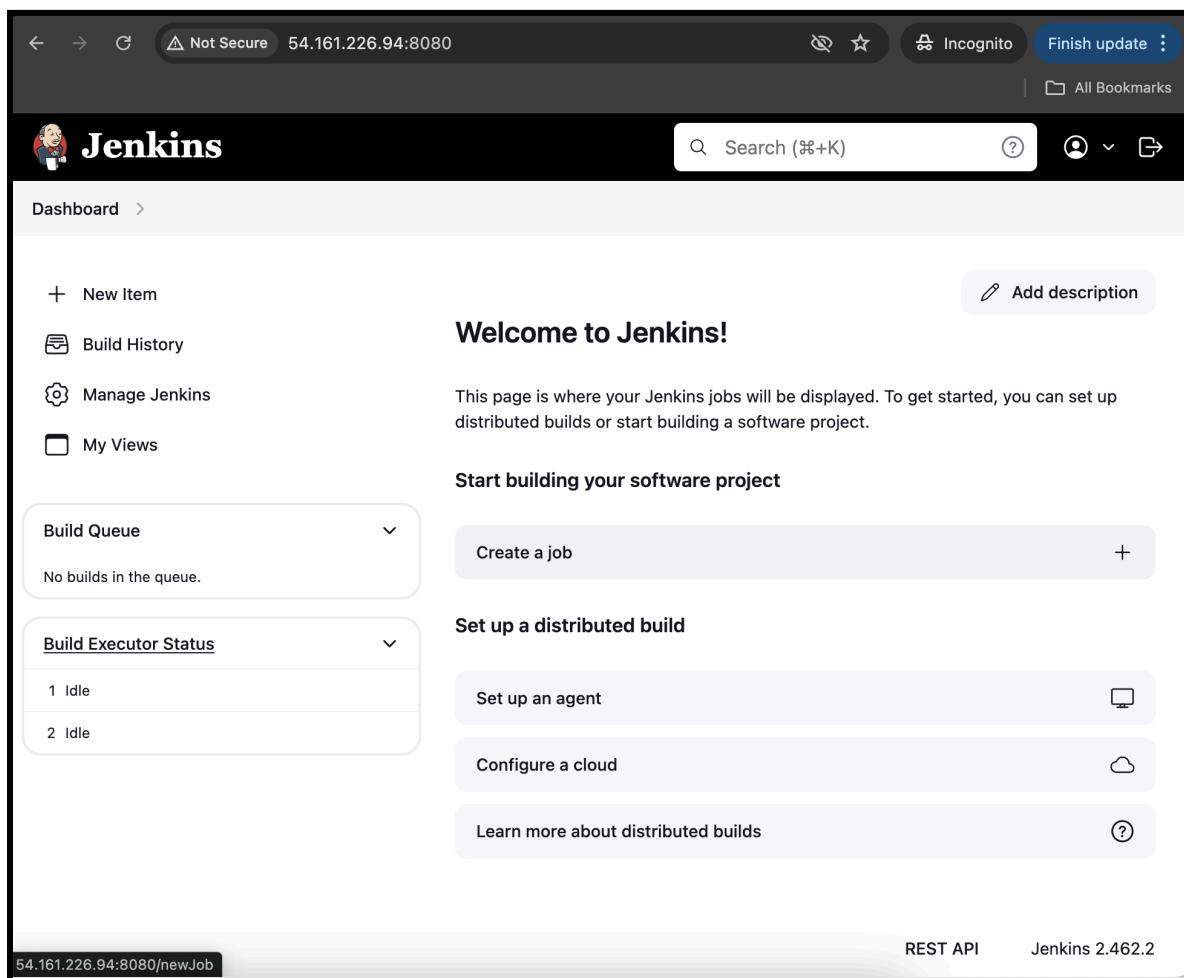
Here's a step-by-step guide for creating your first simple job in Jenkins:

Step 1: Access Jenkins Dashboard

- Open Jenkins by visiting <http://localhost:8080> (or your Jenkins URL).
- Log in with your credentials.

Step 2: Create a New Job

- On the Jenkins Dashboard, click on "New Item" in the left-hand menu and click on "create a job".



Step 3: Name Your Job

- In the "Enter an item name" field, enter a name for your job (e.g., "mycommands").
- Choose "Freestyle project" and click OK.

The screenshot shows the Jenkins 'New Item' configuration interface. At the top, the URL is 54.161.226.94:8080/newJob. The main title is 'New Item'. Below it, there's a 'Dashboard > New Item' breadcrumb. The first step is to 'Enter an item name', which has 'mycommands' typed into the input field. The second step is to 'Select an item type', where 'Freestyle project' is selected and highlighted with a rounded rectangle. Other options shown are 'Pipeline', 'Multi-configuration project', and 'Folder'. At the bottom right is a blue 'OK' button.

Not Secure 54.161.226.94:8080/newJob

Incognito Finish update :

All Bookmarks

Jenkins

Search (⌘+K)

Dashboard > New Item

New Item

Enter an item name

mycommands

Select an item type

Freestyle project
Classic, general-purpose job type that checks out from up to one SCM, executes build steps serially, followed by post-build steps like archiving artifacts and sending email notifications.

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.

OK

Step 4: Configure the Job

- In the job configuration page, you can set up various settings:

1. General Tab: Add a description for your job (optional).

2. Source Code Management:

- Select Git and enter the repository URL if you're pulling code from a Git repo.
- If you're not using a repository for this job, leave this section empty.

3. Build Triggers:

- You can choose to build the job periodically or when a change is detected in the repository.
- For a simple job, you can leave this section empty or set it to build manually.

The screenshot shows the Jenkins job configuration interface. At the top, there's a navigation bar with a back arrow, forward arrow, refresh icon, and a URL field showing '54.161.226.94:8080/job/mycommands/configure'. To the right of the URL are icons for Not Secure, Incognito, and Finish update, along with a menu icon. Below the navigation is the Jenkins logo and a search bar with placeholder text 'Search (⌘+K)'. The main content area has a breadcrumb navigation: Dashboard > mycommands > Configuration. On the left, a sidebar titled 'Configure' lists several tabs: General (selected), Source Code Management, Build Triggers, Build Environment, Build Steps, and Post-build Actions. The 'General' tab contains a 'Description' field with the value 'Running some commands to test jenkins jobs.' Below the description are several optional checkboxes: 'Discard old builds', 'GitHub project', 'This project is parameterized', 'Throttle builds', and 'Execute concurrent builds if necessary'. At the bottom of the tab are 'Save' and 'Apply' buttons.

Step 5: Add a Build Step

- Scroll down to the "Build" section.
- Click on "Add build step" and choose "Execute shell" (for Linux/Mac) or "Execute Windows batch command" (for Windows).

The screenshot shows the Jenkins configuration page for a job named "mycommands". The left sidebar lists sections: General, Source Code Management, Build Triggers, Build Environment (which is selected), Build Steps, and Post-build Actions. The main area is titled "Configure" and shows various global configuration options like "Delete workspace before build starts" and "Use secret text(s) or file(s)". Below these is the "Build Steps" section, which contains a button labeled "Add build step". A dropdown menu is open over this button, showing several options: "Execute Windows batch command", "Execute shell" (which is highlighted with a grey background), "Invoke Ant", "Invoke Gradle script", "Invoke top-level Maven targets", "Run with timeout", and "Set build status to 'pending' on GitHub commit". The Jenkins version "Jenkins 2.462.2" is visible at the bottom right of the page.

- In the command box, enter a simple script or commands like:
 - Id
 - Whoami
 - pwd

The screenshot shows a web browser window with the URL 54.161.226.94:8080/job/mycommands/configure. The page title is "Configuration". On the left, there's a sidebar with icons for General, Source Code Management, Build Triggers, Build Environment, **Build Steps** (which is selected), and Post-build Actions. The main content area is titled "Build Steps" and contains a section for "Execute shell". The "Command" field contains the following text:

```
id  
whoami  
pwd
```

A red "X" button is located in the top right corner of the command input box. Below the command field is an "Advanced" dropdown menu. At the bottom of the page, there are "Post-build Actions" and buttons for "Save" and "Apply".

Step 6: Save and Build the Job

- Scroll to the bottom and click "Save".
- On the job's page, click "Build Now" on the left menu.

The screenshot shows the Jenkins interface for the 'mycommands' job. The top navigation bar includes the Jenkins logo, a search bar, and user account options. Below the header, the breadcrumb navigation shows 'Dashboard > mycommands >'. The main content area has a title 'mycommands' with a subtitle 'Running some commands to test jenkins jobs.' To the right of the title is a 'Edit description' button. On the left, a sidebar contains links: 'Status' (highlighted in grey), 'Changes', 'Workspace', 'Build Now' (with a right-pointing arrow icon), 'Configure', 'Delete Project', and 'Rename'. Below this is a 'Build History' section with a 'trend' dropdown set to 'trend'. A message 'No builds' is displayed. At the bottom of the history section are links for 'Atom feed for all' and 'Atom feed for failures'. In the bottom right corner of the main content area, there are links for 'REST API' and 'Jenkins 2.462.2'.

Step 7: View the Build Results

- Once the build starts, you'll see a progress bar under Build History.
- Click on the build number (e.g., #1) to see the build details.

The screenshot shows the Jenkins interface for the 'mycommands' job. The top navigation bar includes the Jenkins logo, a search bar, and user information for 'Aakansha'. Below the header, the breadcrumb navigation shows 'Dashboard > mycommands >'. The left sidebar contains links for Status, Changes, Workspace, Build Now, Configure, Delete Project, and Rename. The main content area is titled 'mycommands' with a description 'Running some commands to test jenkins jobs.' and a 'Permalinks' section. A 'Build History' panel is open, showing two builds: '#2' (Sep 25, 2024, 11:20 AM) and '#1' (Sep 25, 2024, 11:20 AM). The bottom of the screen displays the URL '54.161.226.94:8080/job/mycommands/build?delay=0sec'.

| Build | Date |
|-------|------------------------|
| #2 | Sep 25, 2024, 11:20 AM |
| #1 | Sep 25, 2024, 11:20 AM |

- To check the output, click "Console Output" and verify that your script ran successfully.

The screenshot shows the Jenkins interface for a project named "mycommands". The left sidebar contains options like Changes, Workspace, Build Now, Configure, Delete Project, and Rename. The main area displays a message: "Running some commands to test jenkins jobs." Below this is a section titled "Permalinks" with links to the last four builds. The "Build History" section shows three successful builds (#3, #2, #1) from September 25, 2024, at various times. At the bottom, there are links for "Atom feed for all" and "Atom feed for failures".

The screenshot shows the Jenkins UI for build #3 of the "mycommands" project. The left sidebar includes Status, Changes, Console Output (which is selected), Edit Build Information, Delete build '#3', Timings, and Previous Build. The main area is titled "Console Output" and shows the following terminal session:

```

Started by user Aakansha
Running as SYSTEM
Building in workspace /var/lib/jenkins/workspace/mycommands
[mycommands] $ /bin/sh -xe /tmp/jenkins6050640595766712574.sh
+ id
uid=111(jenkins) gid=113(jenkins) groups=113(jenkins)
+ whoami
jenkins
+ pwd
/var/lib/jenkins/workspace/mycommands
Finished: SUCCESS

```

"Practice is the quiet foundation of mastery, built step by step."



Let's go to the job and configure it to add some more build steps.

The screenshot shows a configuration interface for a job named "mycommands". The left sidebar lists sections: General, Source Code Management, Build Triggers, Build Environment, **Build Steps**, and Post-build Actions. The "Build Steps" section is selected. The main area displays two "Execute shell" build steps. The first step has commands: id, whoami, and pwd. The second step is currently empty. At the bottom are Save and Apply buttons.

Dashboard > mycommands > Configuration

Configure

Build Steps

General

Source Code Management

Build Triggers

Build Environment

Build Steps

Post-build Actions

Execute shell ?

Command

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

```
id  
whoami  
pwd
```

Advanced ▾

Execute shell ?

Command

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

Save Apply

Add build step and select execute shell and give the following commands:

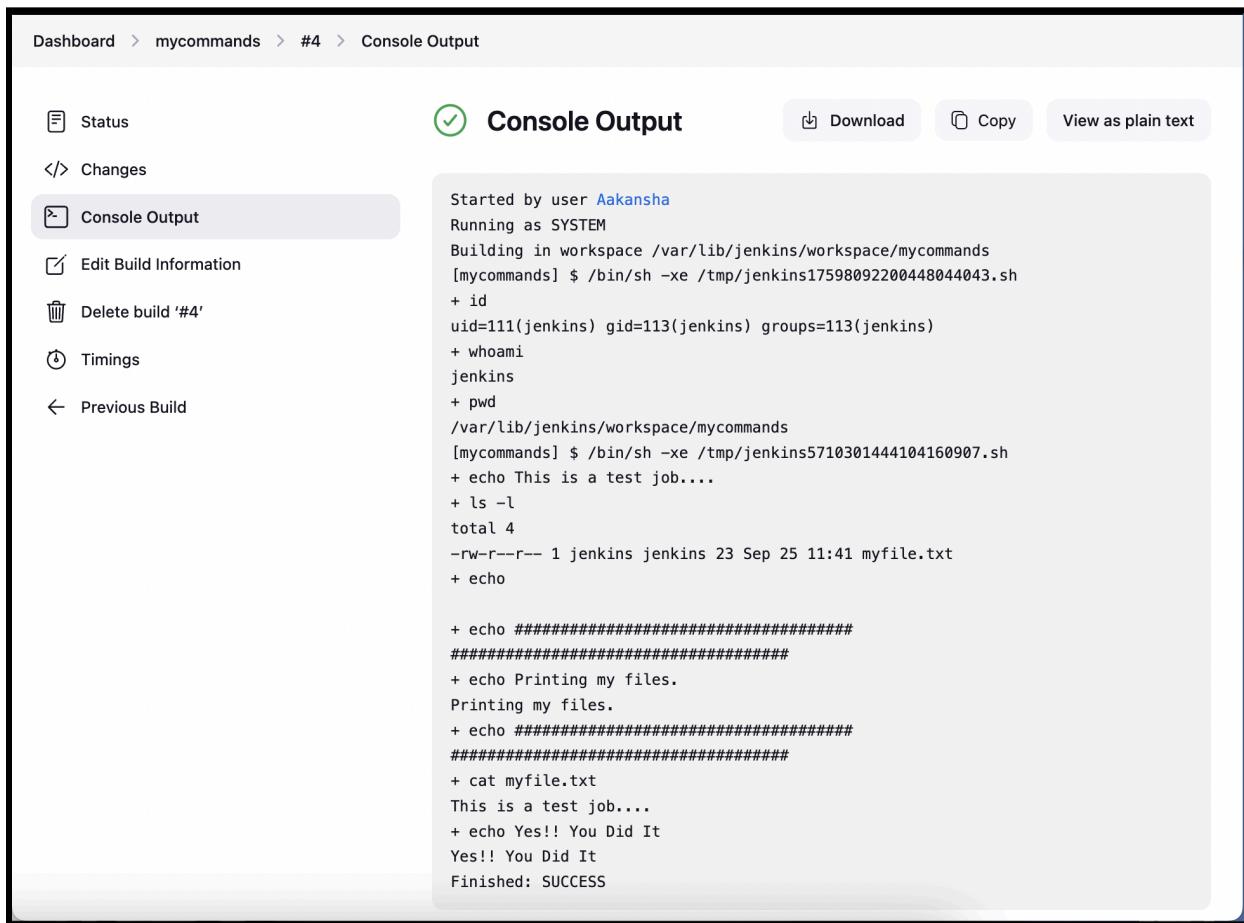
```
echo "This is a test job...." >> myfile.txt
ls -l
echo
echo #####
echo "Printing my files."
echo #####
cat myfile.txt
echo "Yes!! You Did It"
```

The screenshot shows a build configuration interface with the following details:

- Dashboard > mycommands > Configuration**
- Configure** sidebar menu items: General, Source Code Management, Build Triggers, Build Environment, **Build Steps** (selected), Post-build Actions.
- Execute shell** section:
 - Command**: echo "This is a test job...." >> myfile.txt
ls -l
echo
echo #####
echo "Printing my files."
echo #####
 - Advanced** dropdown
 - Add build step** button
- Post-build Actions** section:
 - Add post-build action** dropdown
- Buttons at the bottom**: Save, Apply

Save and build.

Check the console output.



The screenshot shows the Jenkins interface for a build named 'mycommands' under job '#4'. The 'Console Output' tab is selected in the left sidebar. The main content area displays the build logs:

```
Started by user Aakansha
Running as SYSTEM
Building in workspace /var/lib/jenkins/workspace/mycommands
[mycommands] $ /bin/sh -xe /tmp/jenkins17598092200448044043.sh
+ id
uid=111(jenkins) gid=113(jenkins) groups=113(jenkins)
+ whoami
jenkins
+ pwd
/var/lib/jenkins/workspace/mycommands
[mycommands] $ /bin/sh -xe /tmp/jenkins5710301444104160907.sh
+ echo This is a test job....
+ ls -l
total 4
-rw-r--r-- 1 jenkins jenkins 23 Sep 25 11:41 myfile.txt
+ echo

+ echo #####
#####
+ echo Printing my files.
Printing my files.
+ echo #####
#####
+ cat myfile.txt
This is a test job....
+ echo Yes!! You Did It
Yes!! You Did It
Finished: SUCCESS
```

Note: The files are owned by the Jenkins user. You may encounter "permission denied" errors for certain operations if the files are not owned by you.

In the workspace directory, check to see if your file is created. You should see the output of your build step or any files generated during the job execution.

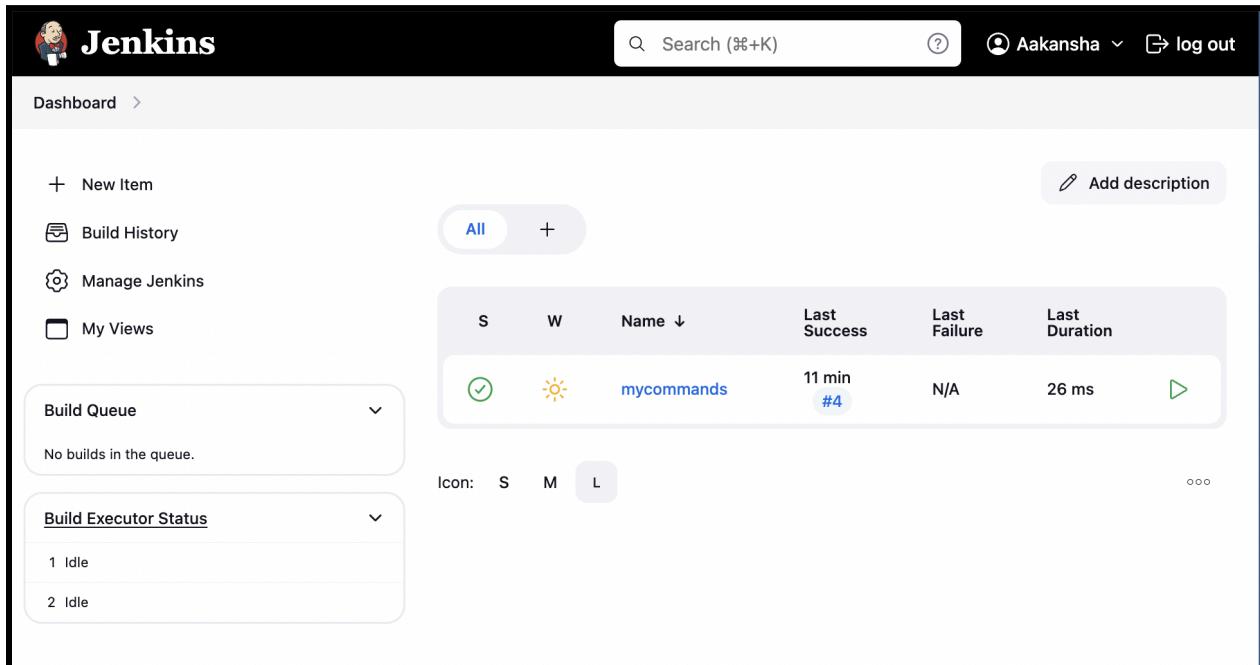
The screenshot shows the Jenkins interface for the 'mycommands' project. The top navigation bar includes a user icon, a search bar, and a log out link. Below the header, the breadcrumb navigation shows 'Dashboard > mycommands > Workspace of mycommands on Built-In Node'. The main content area is titled 'Workspace of mycommands on Built-In Node'. On the left, there's a sidebar with options: Status, Changes, Workspace (which is highlighted), Wipe Out Current Workspace, Build Now, Configure, Delete Project, and Rename. To the right of the sidebar, there's a search bar with the text 'mycommands /' and a file listing for 'myfile.txt' with details: Sep 25, 2024, 11:41:16 AM, 23 B. A link '(all files in zip)' is also present. At the bottom of the workspace section, there's a 'Build History' panel showing four builds: #4 (Sep 25, 2024, 11:41 AM), #3 (Sep 25, 2024, 11:22 AM), #2 (Sep 25, 2024, 11:20 AM), and #1. The URL at the bottom of the page is 54.161.226.94:8080/job/mycommands/ws/myfile.txt.

If it's a text file, you can view its contents by clicking the "View" button next to the file in the workspace.

The screenshot shows a web browser window with two tabs: 'Instances | EC2 | us-east-1' and '54.161.226.94:8080/job/mycommands/ws/myfile.txt/*view*/'. The main content area of the browser displays the text 'This is a test job....'. The URL in the address bar is 54.161.226.94:8080/job/mycommands/ws/myfile.txt/*view*/.

→ If there are other files besides text files, they will be downloaded in a ZIP format.

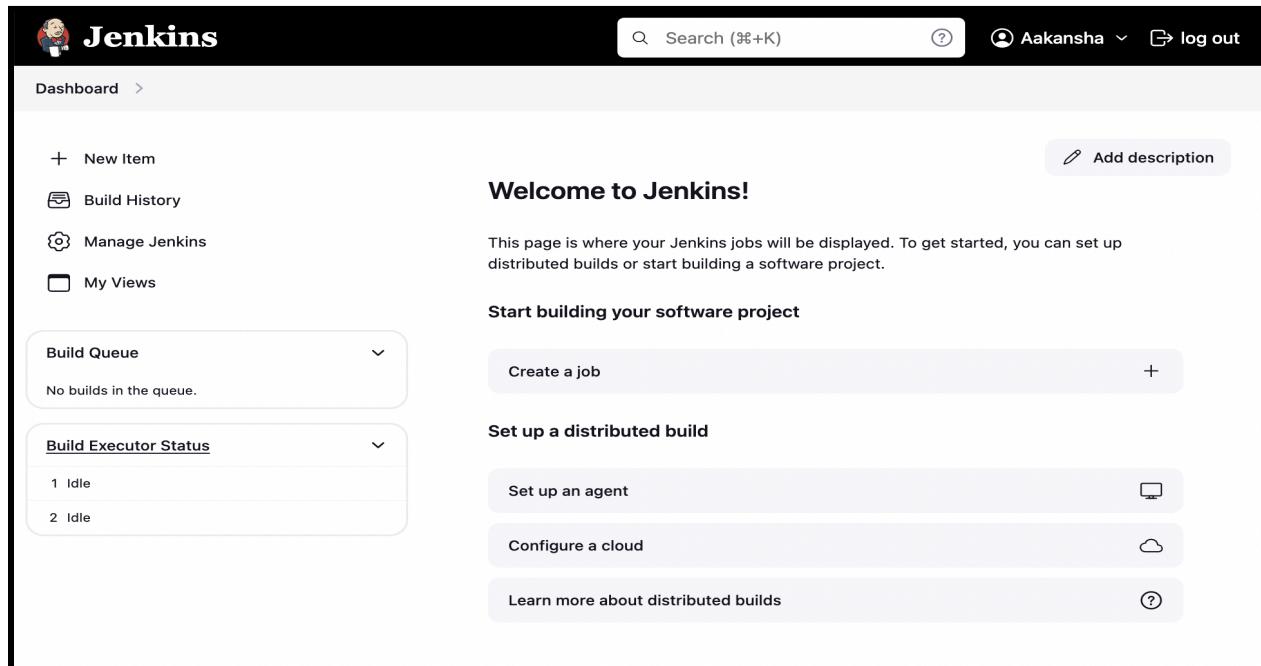
You can delete the project by navigating to the job's page and clicking on the "Delete Project" option in the left sidebar. Confirm the deletion when prompted.



The screenshot shows the Jenkins dashboard. At the top right, there is a search bar with the placeholder "Search (⌘+K)", a help icon, a user profile for "Aakansha", and a "log out" button. Below the header, the word "Dashboard" is followed by a right-pointing arrow. On the left side, there is a sidebar with links: "+ New Item", "Build History", "Manage Jenkins", and "My Views". Under "My Views", there is a section titled "Build Queue" which says "No builds in the queue." and a "Build Executor Status" section showing "1 Idle" and "2 Idle". The main content area has a title "All" with a "+" button. Below it is a table with columns: S, W, Name (sorted down), Last Success, Last Failure, and Last Duration. A row for the "mycommands" project is shown with status icons (green checkmark, yellow sun), name "mycommands", last success at "11 min #4", last failure as "N/A", and last duration at "26 ms". There is also a green "More" button. At the bottom of the main content area, there is an "Icon:" section with "S", "M", and "L" buttons, and three dots (...).

Check the Dashboard:

- After deletion, return to the Jenkins dashboard.
- Verify that the project is no longer listed in the job list.



The screenshot shows the Jenkins dashboard after a project has been deleted. The top right features a search bar ("Search (⌘+K)"), a help icon, a user profile for "Aakansha", and a "log out" button. The word "Dashboard" is followed by a right-pointing arrow. The sidebar on the left includes "+ New Item", "Build History", "Manage Jenkins", and "My Views". The "Build Queue" section still says "No builds in the queue." and the "Build Executor Status" section shows "1 Idle" and "2 Idle". In the center, there is a prominent "Welcome to Jenkins!" message. Below it, a paragraph reads: "This page is where your Jenkins jobs will be displayed. To get started, you can set up distributed builds or start building a software project." To the right, there are sections for "Start building your software project" (with a "Create a job" button and a plus sign), "Set up a distributed build" (with "Set up an agent" and "Configure a cloud" buttons), and a link "Learn more about distributed builds" with a help icon. At the very bottom, there is a large green circular icon with a white checkmark inside, and a hand icon pointing towards it.