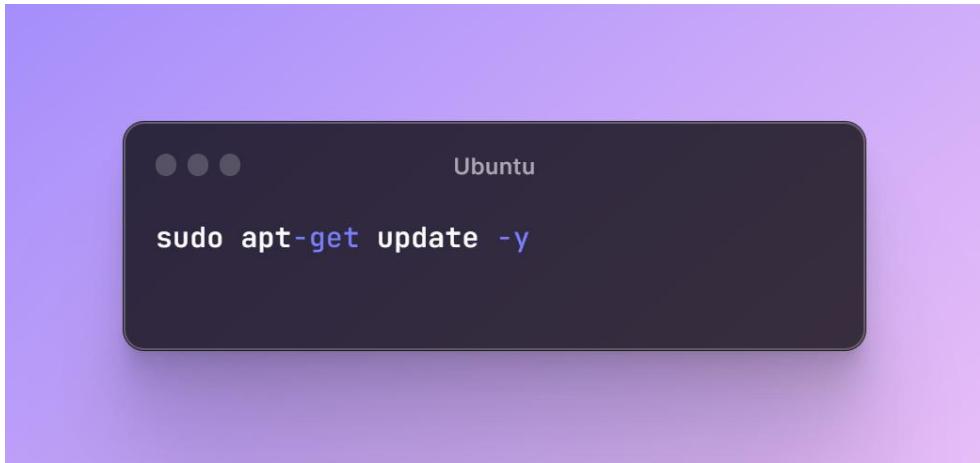


JENKINS INSTALLATION STEPS (UBUNTU)

Step 1: Update the Ubuntu Server

Before installing Jenkins, you have to update software packages on the Ubuntu server for that use the below commands.

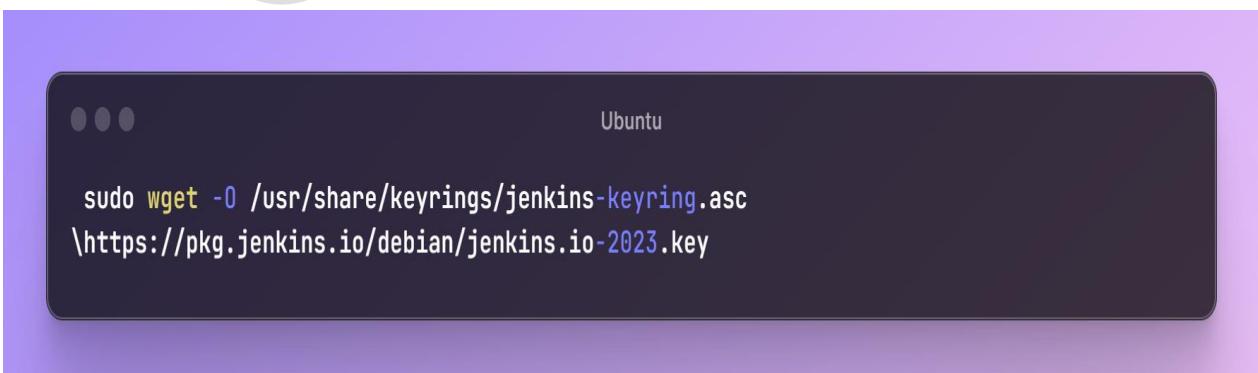


After updating it shows like this.

```
Get:35 http://archive.ubuntu.com/ubuntu jammy-backports/main amd64 Packages [41.7 kB]
Get:36 http://archive.ubuntu.com/ubuntu jammy-backports/main Translation-en [10.5 kB]
Get:37 http://archive.ubuntu.com/ubuntu jammy-backports/main amd64 c-n-f Metadata [388 B]
Get:38 http://archive.ubuntu.com/ubuntu jammy-backports/restricted amd64 c-n-f Metadata [116 B]
Get:39 http://archive.ubuntu.com/ubuntu jammy-backports/universe amd64 Packages [24.3 kB]
Get:40 http://archive.ubuntu.com/ubuntu jammy-backports/universe Translation-en [16.5 kB]
Get:41 http://archive.ubuntu.com/ubuntu jammy-backports/universe amd64 c-n-f Metadata [644 B]
Get:42 http://archive.ubuntu.com/ubuntu jammy-backports/multiverse amd64 c-n-f Metadata [116 B]
Fetched 29.6 MB in 26s (1152 kB/s)
Reading package lists... Done
root@LAPTOP-D6GGIPLD:~# |
```

Step 2: Add Repository Key

You have to add the Jenkins repository to the Ubuntu server, use the below command for that.



Step 3: Add Package Repository

Use the below command to add the package repository.

```
Ubuntu  
echo deb [signed-by=/usr/share/keyrings/jenkins-keyring.asc] \  
https://pkg.jenkins.io/debian binary/ | sudo tee \  
/etc/apt/sources.list.d/jenkins.list > /dev/null
```

Now, to update the server you have to use the below command.

```
Ubuntu  
sudo apt-get update -y
```

Step 4: Install Jenkins Dependencies

Before installing Jenkins, we have to install its dependencies. We first have to install java, for that use the below command.

```
Ubuntu  
sudo apt-get install fontconfig openjdk-17-jre
```

Now, you can use the below command to install Jenkins.

```
Ubuntu  
sudo apt install jenkins -y
```

Once Jenkins installation completed you have to start Jenkins service for that use the below command. You can also stop using below.

```
Ubuntu  
sudo service jenkins start  
sudo service jenkins stop
```

After starting it will show like this.

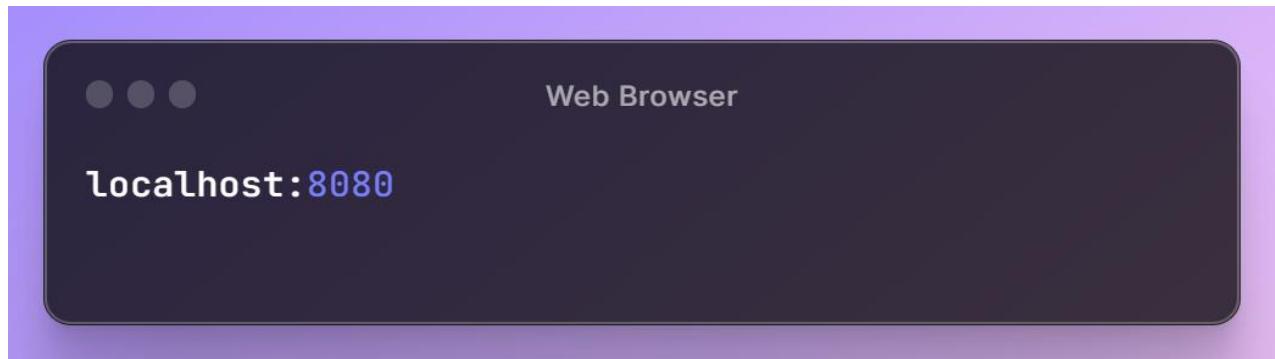
```
root@LAPTOP-D6GGIPLD:~# sudo service jenkins start  
 * Starting Jenkins Automation Server jenkins  
Setting up max open files limit to 8192
```

We can also check the status of Jenkins by the following command.

```
Ubuntu  
sudo service jenkins status
```

Step 5: Setting Up Jenkins

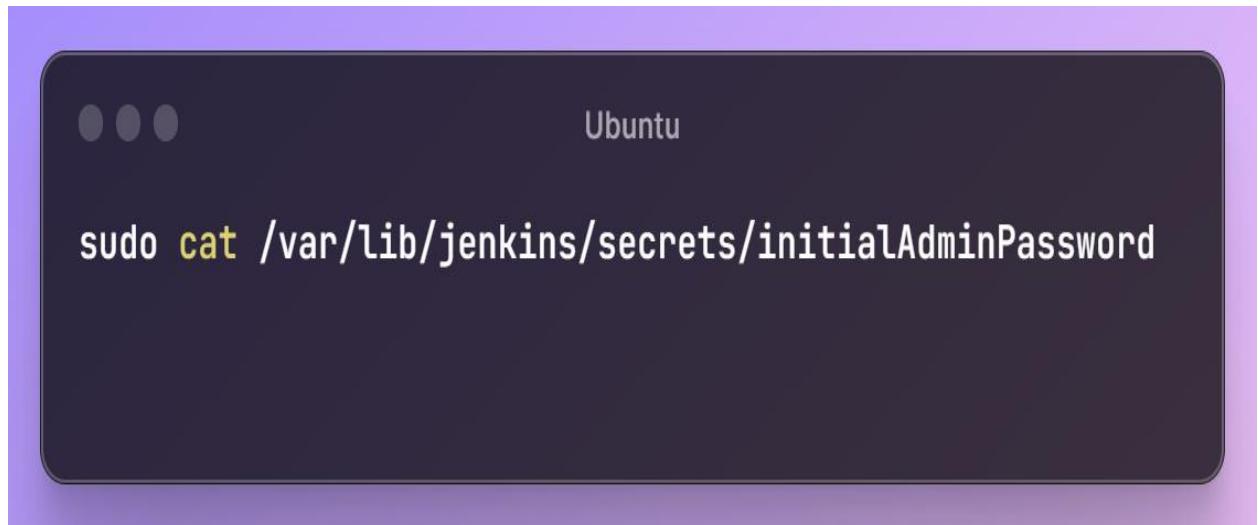
Now to access Jenkins from the web browser you have to type the below line in URL.



So, after typing the above in the URL we can see the Jenkins Unlock Page.

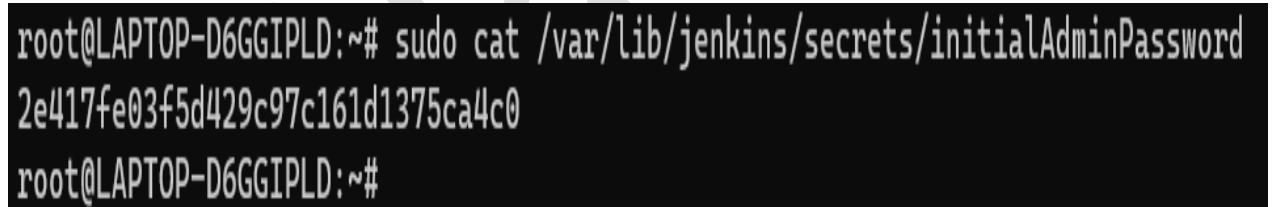
A screenshot of a web browser displaying the Jenkins "Unlock Jenkins" page. The URL in the address bar is "localhost:8080/login?from=%2F". The page has a header "Getting Started" and a large title "Unlock Jenkins". A text block explains that a password has been written to the log and provides the file path "/var/lib/jenkins/secrets/initialAdminPassword". Below this, instructions say to copy the password from either location and paste it into the "Administrator password" input field. A "Continue" button is visible at the bottom right.

As per the given instructions in the above screenshot, you have to get the default administrator password from the given path so, you the below command to get that on your Ubuntu machine.



The image shows a terminal window titled "Ubuntu". Inside the terminal, the command `sudo cat /var/lib/jenkins/secrets/initialAdminPassword` is being typed. The terminal has a dark background with white text and a light blue header bar.

You would get the below output and which is the default admin password for login to Jenkins copy that and use it in a web browser for Jenkins login.



The image shows a terminal window with a black background and white text. It displays the command `sudo cat /var/lib/jenkins/secrets/initialAdminPassword` followed by the output: `2e417fe03f5d429c97c161d1375ca4c0`. The prompt `root@LAPTOP-D6GGIPLD:~#` appears again at the bottom.

Once you logged in to Jenkins with the default admin password it will give two options and that is suggested plugins and select plugins to install. We recommend you to click on suggested plugins and Jenkins itself takes care of plugin installations. As shown below...

Customize Jenkins

Plugins extend Jenkins with additional features to support many different needs.

Install suggested plugins

Install plugins the Jenkins community finds most useful.

Select plugins to install

Select and install plugins most suitable for your needs.

Jenkins 2.445

Plugins installation will take some time and once all plugins are installed Jenkins will ask you to create your Admin user account.

Now, fill in the admin user details which you want and set Jenkins admin credentials.

Create First Admin User

Username

Password

Confirm password

Full name

Jenkins 2.445

Skip and continue as admin

Save and Continue

Now friends you get a configuration page and it will ask you to confirm your preferred URL for the Jenkins instance. You can confirm either with the domain name or can use your server's IP address. After setting, Jenkins is ready!

Getting Started

Jenkins is ready!

Your Jenkins setup is complete.

[Start using Jenkins](#)

Jenkins 2.445

You can log in to Jenkins with created account and start the use of Jenkins.

The screenshot shows the Jenkins dashboard. At the top, there is a navigation bar with the Jenkins logo, a search bar labeled "Search (CTRL+K)", a user icon for "Narendra Sivangula", and a "log out" button. Below the navigation bar, the page title is "Welcome to Jenkins!". A sub-header says "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." A call-to-action button "Start building your software project" is present. On the left side, there is a sidebar with links: "New Item", "People", "Build History", "Manage Jenkins", and "My Views". Under "Build Queue", it says "No builds in the queue.". Under "Build Executor Status", it shows "1 Idle" and "2 Idle". On the right side, there are three cards: "Set up a distributed build" (with icons for "Set up an agent" and "Configure a cloud"), and a link "Learn more about distributed builds". There is also a "Create a job" button with a plus sign.

References

Reference: [Jenkins.io](https://jenkins.io)

Packages & Repositories: <https://pkg.jenkins.io/debian/>

Installation Blog: <https://rishikeshblog.hashnode.dev/how-to-install-configure-jenkins-on-linux-easily>