

Installing Jenkins on Ubuntu

To install Jenkins on your Ubuntu system, follow these steps:

1. Install Java.

Since Jenkins is a Java application, the first step is to install Java. Update the package index and install the Java 8 OpenJDK package with the following commands:

```
sudo apt updatesudo apt install openjdk-8-jdk
```

The current version of Jenkins does not support Java 10 (and Java 11) yet. If you have multiple versions of Java installed on your machine [make sure Java 8 is the default Java version](#).

2. Add the Jenkins Debian repository.

Import the GPG keys of the Jenkins repository using the following [wget](#) command:

```
wget -q -O - https://pkg.jenkins.io/debian/jenkins.io.key | sudo apt-key add -
```

The commands above should output `OK` which means that the key has been successfully imported and packages from this repository will be considered trusted.

Next, add the Jenkins repository to the system with:

```
sudo sh -c 'echo deb http://pkg.jenkins.io/debian-stable binary/ > /etc/apt/sources.list.d/jenkins.list'
```

3. Install Jenkins.

Once the Jenkins repository is enabled, update the `apt` package list and install the latest version of Jenkins by typing:

```
sudo apt update
sudo apt install jenkins
```

Jenkins service will automatically start after the installation process is complete. You can verify it by printing the service status:

```
systemctl status jenkins
```

You should see something similar to this:

```
• jenkins.service - LSB: Start Jenkins at boot time
Loaded: loaded (/etc/init.d/jenkins; generated)
Active: active (exited) since Wed 2018-08-22 13:03:08 PDT; 2min 16s ago
    Docs: man:systemd-sysv-generator(8)
    Tasks: 0 (limit: 2319)
    CGroup: /system.slice/jenkins.service
```

Adjusting Firewall

If you are installing Jenkins on a remote Ubuntu server that is protected by a firewall you'll need to open port `8080`. Assuming you are using `UFW` to manage your firewall, you can open the port with the following command:

```
sudo ufw allow 8080
```

Verify the change with:

```
sudo ufw status
```

Output

Status: active

To	Action	From
--	-----	----
OpenSSH	ALLOW	Anywhere
8080	ALLOW	Anywhere
OpenSSH (v6)	ALLOW	Anywhere (v6)
8080 (v6)	ALLOW	Anywhere (v6)

Setting Up Jenkins

To set up your new Jenkins installation, open your browser, type your domain or IP address followed by port 8080, `http://your_ip_or_domain:8080` and screen similar to the following will be displayed:

Getting Started

Unlock Jenkins

To ensure Jenkins is securely set up by the administrator, a password has been written to the log ([not sure where to find it?](#)) and this file on the server:

```
/var/lib/jenkins/secrets/initialAdminPassword
```

Please copy the password from either location and paste it below.

Administrator password

Continue

During the installation the Jenkins installer creates an initial 32-character long alphanumeric password. Use the following command to print the password on your terminal:

```
sudo cat /var/lib/jenkins/secrets/initialAdminPassword
```

Output

```
2115173b548f4e99a203ee99a8732a32
```

Copy the password from your terminal, paste it into the Administrator password field and click [Continue](#).



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.

On the next screen the setup wizard will ask you whether you want to install suggested plugins or you want to select specific plugins. Click on the `Install suggested plugins` box, and the installation process will start immediately.

Getting Started

Getting Started



✓ Folders	✓ OWASP Markup Formatter	✓ Build Timeout	✓ Credentials Binding
✓ Timestamper	⌂ Workspace Cleanup	⌂ Ant	⌂ Gradle
⌂ Pipeline	⌂ GitHub Branch Source	⌂ Pipeline: GitHub Groovy Libraries	⌂ Pipeline: Stage View
⌂ Git	⌂ Subversion	⌂ SSH Slaves	⌂ Matrix Authorization Strategy
⌂ PAM Authentication	⌂ LDAP	⌂ Email Extension	⌂ Mailer

** JUnit

OWASP Markup Formatter

** Token Macro

Build Timeout

** Credentials

** SSH Credentials

** Plain Credentials

Credentials Binding

Timestamper

** Pipeline: Supporting APIs

** Durable Task

** Pipeline: Nodes and Processes

** Matrix Project

** - required dependency

Once the plugins are installed, you will be prompted to set up the first admin user. Fill out all required information and click [Save and Continue](#).

Create First Admin User

Username:	<input type="text" value="linuxize"/>
Password:	<input type="password" value="....."/>
Confirm password:	<input type="password" value="....."/>
Full name:	<input type="text" value="Linuxize Tuts"/>
E-mail address:	<input type="text" value="hello@linuxize.com"/>

The next page will ask you to set the URL for your Jenkins instance. The field will be populated with an automatically generated URL.

Instance Configuration

Jenkins URL:

`http://192.168.121.214:8080`

The Jenkins URL is used to provide the root URL for absolute links to various Jenkins resources. That means this value is required for proper operation of many Jenkins features including email notifications, PR status updates, and the `BUILD_URL` environment variable provided to build steps.

The proposed default value shown is **not saved yet** and is generated from the current request, if possible. The best practice is to set this value to the URL that users are expected to use. This will avoid confusion when sharing or viewing links.

Confirm the URL by clicking on the `Save and Finish` button and the setup process will be completed.

Getting Started

Jenkins is ready!

Your Jenkins setup is complete.

[Start using Jenkins](#)

Click on the `Start using Jenkins` button and you will be redirected to the Jenkins dashboard logged in as the admin user you have created in one of the previous steps.

[New Item](#)[People](#)[Build History](#)[Manage Jenkins](#)[My Views](#)[Credentials](#)[New View](#) [add description](#)

Welcome to Jenkins!

Please **create new jobs** to get started.

Build Queue

No builds in the queue.

Build Executor Status

1 Idle

2 Idle

At this point you've successfully installed Jenkins on your system.