

Installing Jenkins

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 update
$sudo 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.

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 command 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'
```

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
```

```
root@ip-172-31-35-193:~# systemctl status jenkins
● jenkins.service - LSB: Start Jenkins at boot time
   Loaded: loaded (/etc/init.d/jenkins; bad; vendor preset: enabled)
   Active: active (exited) since Sat 2019-06-22 05:12:50 UTC; 1min 6s ago
     Docs: man:systemd-sysv-generator(8)

Jun 22 05:12:49 ip-172-31-35-193 systemd[1]: Starting LSB: Start Jenkins at boot time...
Jun 22 05:12:49 ip-172-31-35-193 jenkins[9253]: Correct java version found
Jun 22 05:12:49 ip-172-31-35-193 jenkins[9253]: * Starting Jenkins Automation Server jenkins
Jun 22 05:12:49 ip-172-31-35-193 su[9287]: Successful su for jenkins by root
Jun 22 05:12:49 ip-172-31-35-193 su[9287]: + ??? root:jenkins
Jun 22 05:12:49 ip-172-31-35-193 su[9287]: pam_unix(su:session): session opened for user jenkins
Jun 22 05:12:50 ip-172-31-35-193 jenkins[9253]: ...done.
Jun 22 05:12:50 ip-172-31-35-193 systemd[1]: Started LSB: Start Jenkins at boot time.
lines 1-13/13 (END)
root@ip-172-31-35-193:~#
```

Incase if you get below Error while update

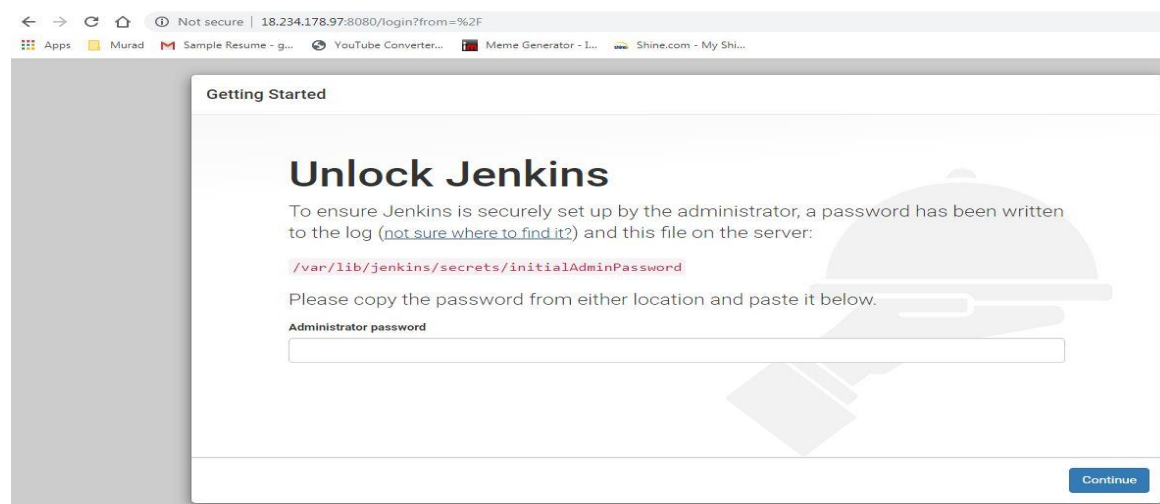
```
[chris@server ~]$ sudo apt-get update
Ign http://security.ubuntu.com trusty-security InRelease
Get:1 http://security.ubuntu.com trusty-security Release.gpg [933 B]
...
Fetched 21.9 MB in 14s (1,537 kB/s)
Reading package lists... Done
W: GPG error: http://security.ubuntu.com trusty-security Release: The following signatures couldn't be
verified because the public key is not available: NO_PUBKEY 40976EAF437D05B5 NO_PUBKEY 3B4FE6ACC0B21F32
W: GPG error: http://archive.canonical.com trusty Release: The following signatures couldn't be verified
because the public key is not available: NO_PUBKEY 40976EAF437D05B5 NO_PUBKEY 3B4FE6ACC0B21F32
W: GPG error: http://archive.ubuntu.com trusty Release: The following signatures couldn't be verified
because the public key is not available: NO_PUBKEY 40976EAF437D05B5 NO_PUBKEY 3B4FE6ACC0B21F32
W: GPG error: http://archive.ubuntu.com trusty-updates Release: The following signatures couldn't be
verified because the public key is not available: NO_PUBKEY 40976EAF437D05B5 NO_PUBKEY 3B4FE6ACC0B21F32
[chris@server ~]$
```

Use the below command to fix the update

```
$sudo apt-key adv --keyserver keyserver.ubuntu.com --recv-keys <Value of NO_PUBKEY>
```

```
[chris@server ~]$ sudo apt-key adv --keyserver keyserver.ubuntu.com --recv-keys 40976EAF437D05B5
Executing: gpg --ignore-time-conflict --no-options --no-default-keyring --homedir /tmp/tmp.QTeppiINUh --no-
auto-check-trustdb --trust-model always --keyring /etc/apt/trusted.gpg --primary-keyring
/etc/apt/trusted.gpg --keyserver keyserver.ubuntu.com --recv-keys 40976EAF437D05B5
gpg: requesting key 437D05B5 from hkp server keyserver.ubuntu.com
gpg: key 437D05B5: public key "Ubuntu Archive Automatic Signing Key " imported
gpg: Total number processed: 1
gpg: imported: 1
[chris@server ~]$ sudo apt-key adv --keyserver keyserver.ubuntu.com --recv-keys 3B4FE6ACC0B21F32
Executing: gpg --ignore-time-conflict --no-options --no-default-keyring --homedir /tmp/tmp.77TqYGKU7b --no-
auto-check-trustdb --trust-model always --keyring /etc/apt/trusted.gpg --primary-keyring
/etc/apt/trusted.gpg --keyserver keyserver.ubuntu.com --recv-keys 3B4FE6ACC0B21F32
gpg: requesting key C0B21F32 from hkp server keyserver.ubuntu.com
gpg: key C0B21F32: public key "Ubuntu Archive Automatic Signing Key (2012) " imported
gpg: Total number processed: 1
gpg: imported: 1 (RSA: 1)
[chris@server ~]$
```

Then try Jenkins url <ipaddress>:8080 whith default port.Copy and Paste the password in the location shown



Select the required plugins

Getting Started

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.

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Getting Started

Getting Started

✓ Folders	✓ OWASP Markup Formatter	✓ Build Timeout	✓ Credentials Binding
✓ Timestampers	✓ Workspace Cleanup	✓ Ant	✓ Gradle
⚙ Pipeline	⚙ GitHub Branch Source	⚙ Pipeline: GitHub Groovy Libraries	⚙ Pipeline: Stage View
⚙ Git	⚙ Subversion	⚙ SSH Slaves	<input type="radio"/> Matrix Authorization Strategy
<input type="radio"/> PAM Authentication	⚙ LDAP	⚙ Email Extension	⚙ Mailer
⚙ SSH Agent	⚙ MSBuild	✓ JUnit	⚙ Build Pipeline
⚙ Git Parameter	⚙ GitHub	⚙ Role-based Authorization Strategy	⚙ Publish Over SSH

OWASP Markup Formatter

** Token Macro

Build Timeout

** Credentials

** Plain Credentials

** SSH Credentials

Credentials Binding

Timestampers

** Pipeline: Supporting APIs

** Durable Task

** Pipeline: Nodes and Processes

** Matrix Project

** Resource Disposer

Workspace Cleanup

Ant

Gradle

** Pipeline: Milestone Step

** JavaScript GUI Lib: jQuery bundles (jQuery and jQuery UI)

** - required dependency

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Finish Installation

Getting Started

Instance Configuration

Jenkins URL:

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.

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Not now

Save and Finish

Jenkins is ready!

Your Jenkins setup is complete.

[Start using Jenkins](#)