

# Jenkins Installation Guide

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## Installation Notes

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## Installation Notes:

### Jenkins:

```
apt-get install python-software-properties
```

```
add-apt-repository ppa:openjdk-r/ppa
```

Update the Ubuntu repository and install the Java OpenJDK with apt command.

```
apt-get update
```

```
apt-get install openjdk-7-jdk
```

Verify the installation by typing the command below:

```
java -version
```

Add Jenkins key and repository to the system with the command below:

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

```
echo deb https://pkg.jenkins.io/debian-stable binary/ | sudo tee  
/etc/apt/sources.list.d/jenkins.list
```

### Installing Jenkins:

```
sudo apt-get update
```

```
sudo apt-get install Jenkins
```

### Starting Jenkins:

```
sudo systemctl start jenkins
```

```
sudo systemctl status Jenkins
```

Verify that Jenkins is running by checking the default port used by Jenkins (port 8080).

```
netstat -plntu
```

Jenkins will run behind an apache web server:

```
apt-get install apache2
```

When the installation is done, enable the proxy and proxy\_http modules so we can configure apache as frontend server/reverse proxy for Jenkins.

```
a2enmod proxy
```

```
a2enmod proxy_http
```

Create a new virtual host file in the sites-available directory.

```
cd /etc/apache2/sites-available/
```

```
vim jenkins.conf
```

Paste virtual host configuration below:

```
<Virtualhost *:80>
    ServerName      my.jenkins.id
    ProxyRequests    Off
    ProxyPreserveHost On
    AllowEncodedSlashes NoDecode

    <Proxy http://localhost:8080/*>
        Order deny,allow
        Allow from all
    </Proxy>

    ProxyPass        / http://localhost:8080/ nocanon
    ProxyPassReverse / http://localhost:8080/
    ProxyPassReverse / http://my.jenkins.id/
</Virtualhost>
```

Save the file. Then activate the Jenkins virtual host with the a2ensite command.

```
a2ensite Jenkins
```

Restart Apache and Jenkins.

```
systemctl restart apache2
```

```
systemctl restart Jenkins
```

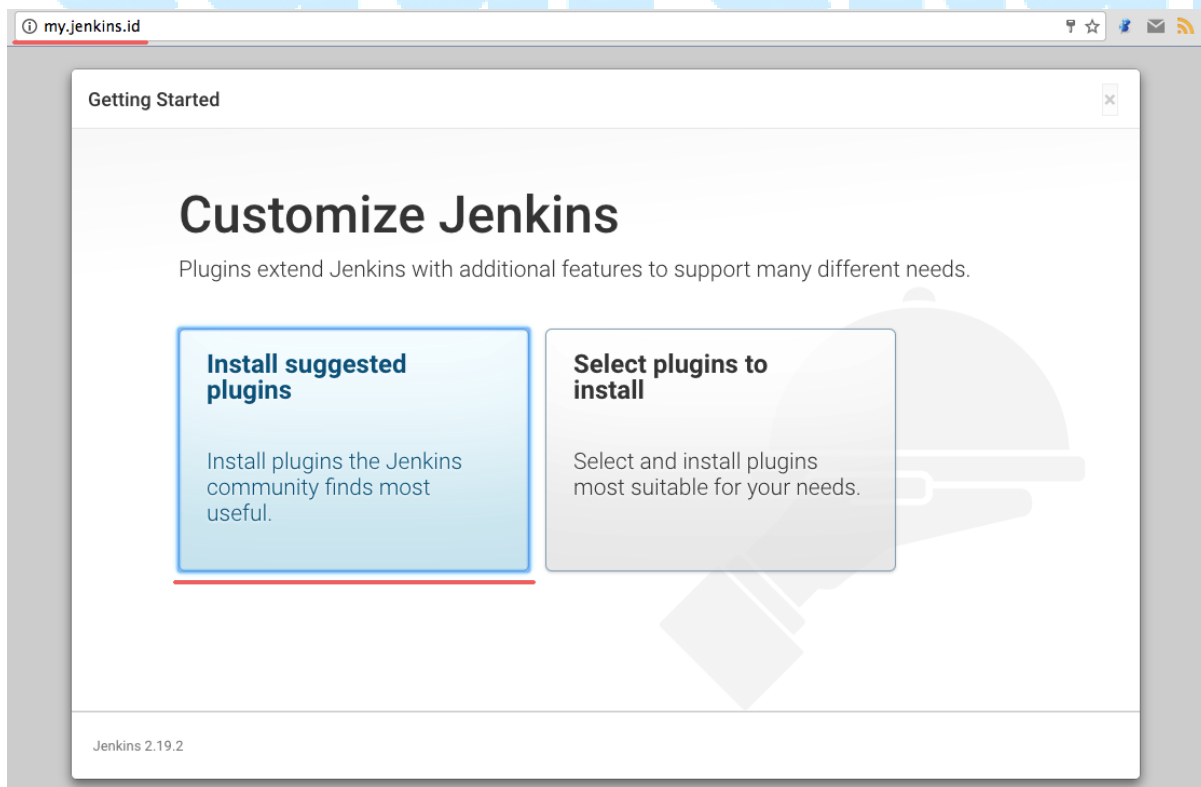
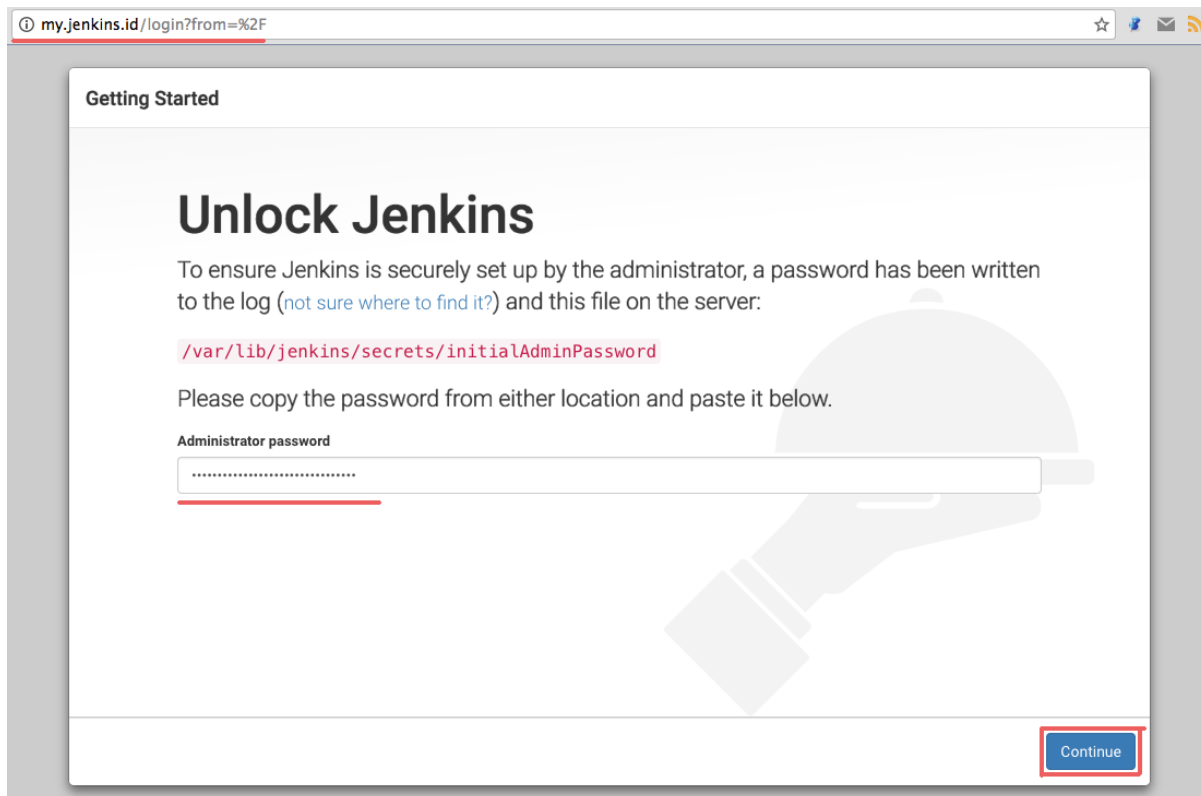
Check that port 80 and 8000 are in use by Jenkins and Apache.

```
netstat -plntu
```

Configure Jenkins

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

Copy the password from terminal and paste it



my.jenkins.id

## Getting Started

✓ Folders Plugin	✓ OWASP Markup Formatter Plugin	✓ build timeout plugin	✓ Credentials Binding Plugin	LDAP Plugin ** Icon Shim Plugin Matrix Authorization Strategy Plugin ** Token Macro Plugin ** Script Security Plugin ** Matrix Project Plugin ** External Monitor Job Type Plugin Jenkins build timeout plugin ** Credentials Plugin ** Plain Credentials Plugin ** Pipeline: Step API Credentials Binding Plugin Timestampers ** Resource Disposer Plugin ** Pipeline: API ** Pipeline: Basic Steps Jenkins Workspace Cleanup Plugin Ant Plugin Gradle Plugin ** - required dependency
✓ Timestampers	✓ Workspace Cleanup Plugin	✓ Ant Plugin	✓ Gradle Plugin	
⚙ Pipeline	⚙ GitHub Organization Folder Plugin	⚙ Pipeline: Stage View Plugin	⚙ Git plugin	
⚙ Subversion Plug-in	⚙ SSH Slaves plugin	✓ Matrix Authorization Strategy Plugin	✓ PAM Authentication plugin	
✓ LDAP Plugin	⚙ Email Extension Plugin	✓ Mailer Plugin		

Jenkins 2.19.2

Now you can start working on Jenkins.

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