Jenkins Installation Document

Contents

Jenkins Installation Document	 1
Introduction	1
Prerequisites	
Step 1 — Installing Jenkins	
Step 2 — Starting Jenkins	
Step 3 — Opening the Firewall	
Step 4 — Setting up Jenkins	2

Introduction

Jenkins is an open source automation server intended to automate repetitive technical tasks involved in the continuous integration and delivery of software. Jenkins is Java-based and can be installed from Ubuntu packages or by downloading and running its Web application. Here, In this point, we will install Jenkins by adding its Debian package repository, then using that repository to install the package using apt-get.

Prerequisites

Operating system: One Ubuntu 16.04 server configured with a non-root sudo user

RAM: 1GB

Step 1 — Installing Jenkins

First, we'll add the repository key to the system.

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

When the key is added, the system will return OK. Next, we'll append the Debian package repository address to the server's sources.list:

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

When both of these are in place, we'll run update so that apt-get will use the new repository:

sudo apt-get update

Finally, we'll install Jenkins and its dependencies, including Java:

```
Sudo apt-get install openjdk-8-jdk
```

sudo apt-get install jenkins

Now that Jenkins and its dependencies are in place, we'll start the Jenkins server.

Step 2 — Starting Jenkins

Using systemctl we'll start Jenkins:

```
sudo systemctl start jenkins
```

Since systematl doesn't display output, we'll use its status command to verify that it started successfully:

sudo systemctl status jenkins

If everything went well, the beginning of the output should show that the service is active and configured to start at boot:

Output

jenkins.service - LSB: Start Jenkins at boot time
Loaded: loaded (/etc/init.d/jenkins; bad; vendor preset: enabled)
Active:active (exited) since Thu 2017-04-20 16:51:13 UTC; 2min 7s ago
Docs: man:systemd-sysv-generator(8)

Now that Jenkins is running, we'll adjust our firewall rules so that we can reach Jenkins from a web browser to complete the initial set up.

Step 3 — Opening the Firewall

By default, Jenkins runs on port 8080, so we'll open that port using ufw:

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sudo ufw allow 8080

We can see the new rules by checking UFW's status.

sudo ufw status

We should see that traffic is allowed to port 8080 from anywhere:

Output

Status: active

То	Action	From
OpenSSH	ALLOW	Anywhere
8080	ALLOW	Anywhere
OpenSSH (v6)	ALLOW	Anywhere (v6)
8080 (v6)	ALLOW	Anywhere (v6)

Note: If the firewall is inactive, the following commands will make sure that OpenSSH is allowed and then enable it.

- sudo ufw allow OpenSSH
- sudo ufw enable

Now that Jenkins is installed and the firewall allows us to access it, we can complete the initial setup.

Note: - If you are doing from AWS, please add in security wizard

Step 4 — Setting up Jenkins

To set up our installation, we'll visit Jenkins on its default port, 8080, using the server domain name or IP address: http://ip address or domain name:8080

We should see "Unlock Jenkins" screen, which displays the location of the initial password

Get	ting	Sta	rted
	_		

Unlock Jenkins

To ensure Jenkins is securely set up by the administrator, a pass 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

In the terminal window, we'll use the cat command to display the password:

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

We'll copy the 32-character alphanumeric password from the terminal and paste it into the "Administrator password" field, then click "Continue". The next screen presents the option of installing suggested plugins or selecting specific plugins.

Getting Started

Customize Jenkins

Plugins extend Jenkins with additional features to support many

Install suggested plugins

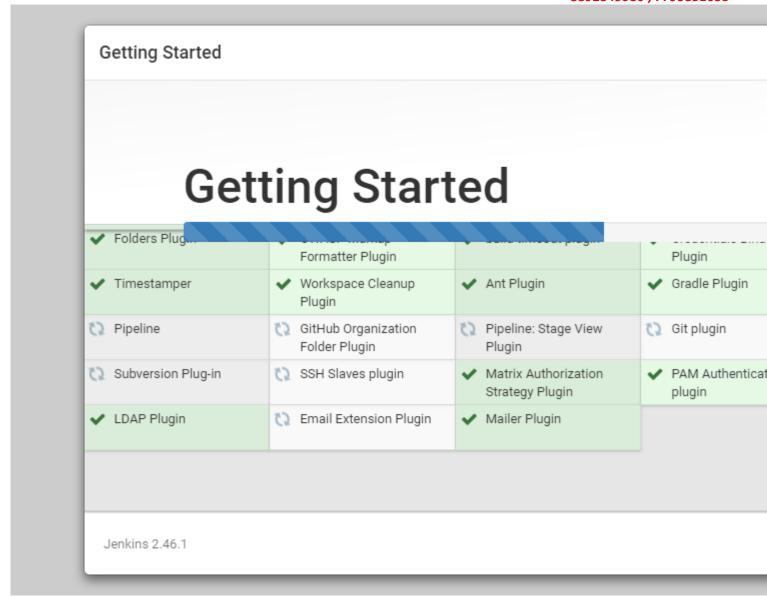
Install plugins the Jenkins community finds most useful.

Select plugins to install

Select and install plugins most suitable for your ne

Jenkins 2.46.1

We'll click the "Install suggested plugins" option, which will immediately begin the installation process:



When the installation is complete, we'll be prompted to set up the first administrative user. It's possible to skip this step and continue as admin using the initial password we used above, but we'll take a moment to create the user.

(Create	First A	Admi	n User
U	sername:			
Р	assword:			
С	Confirm password:			
F	ull name:			
E	-mail address:			

Once the first admin user is in place, you should see a "Jenkins is ready!" confirmation screen.

Getting Started

Jenkins is ready!

Your Jenkins setup is complete.

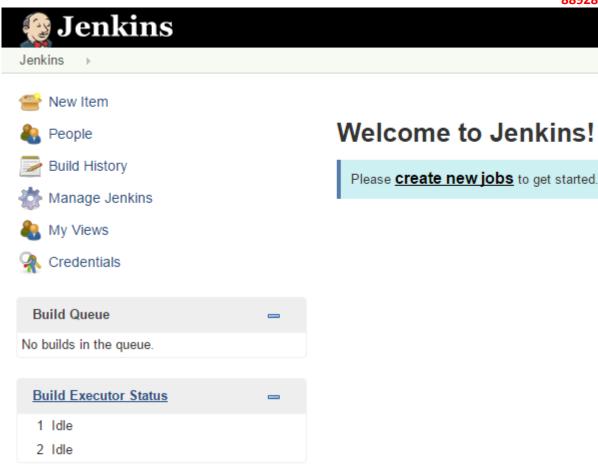
Start using Jenkins

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Click "Start using Jenkins" to visit the main Jenkins dashboard:

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At this point, Jenkins has been successfully installed.