



Jenkins Setup For Ubuntu

Requirements :

One Ubuntu 16.04 server.

We recommend starting with at least 1 GB of RAM.

JAVA / jdk setup

Step 1 — Installing Jenkins

Sub step 1.1:

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

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

When the key is added, the system will return OK.

Sub step 1.2:

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
```

Sub step 1.3:

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 jenkins
```

Step 2 — Starting Jenkins

Sub step 2.1

Using systemctl we'll start Jenkins:

```
$ sudo systemctl start jenkins
```

Sub step 2.2

Since systemctl 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)
```

Step 3 — Opening the Firewall

Sub step 3.1

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

```
$ sudo ufw allow 8080
```

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

```
$ 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)
```

Sub step 3.2

Note: If the firewall is inactive, the following commands will make sure that

OpenSSH is allowed and then enable it.

```
$ sudo ufw allow OpenSSH
```

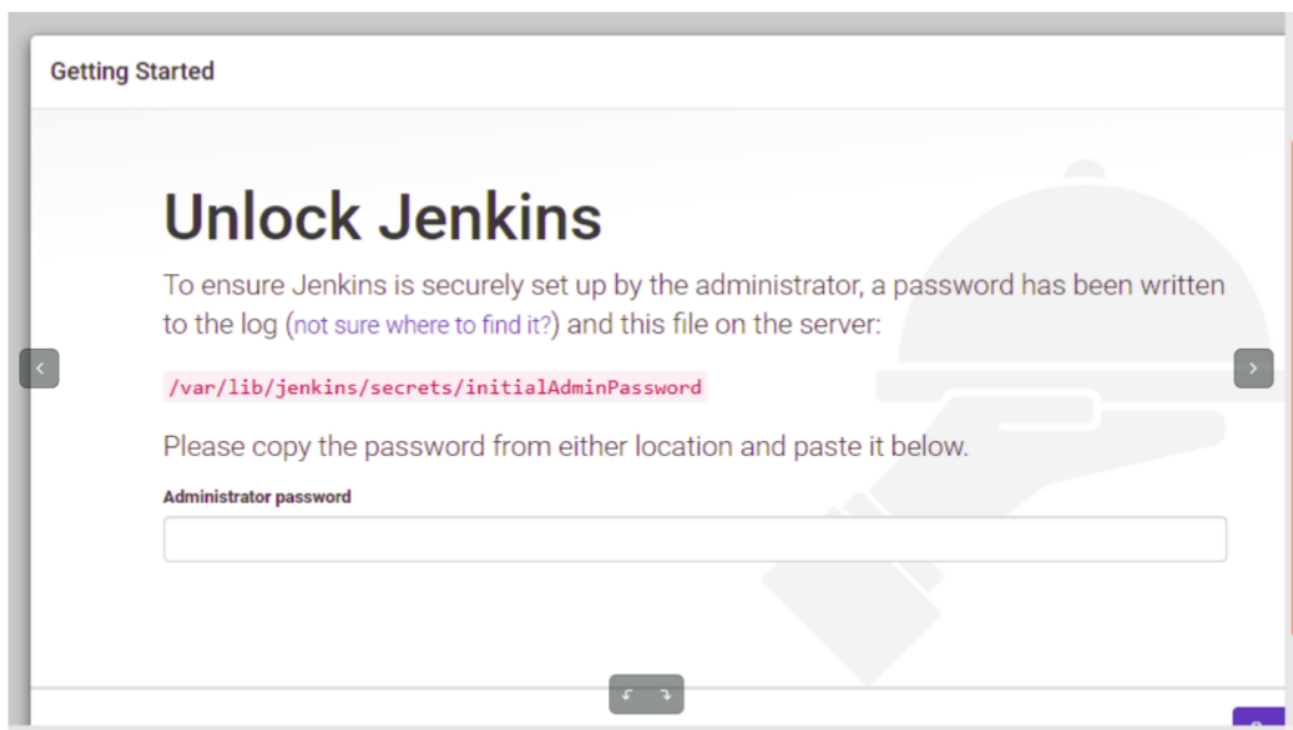
```
$ sudo ufw enable
```

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

Step 4 — Setting up Jenkins

Sub Step 4.1 :

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



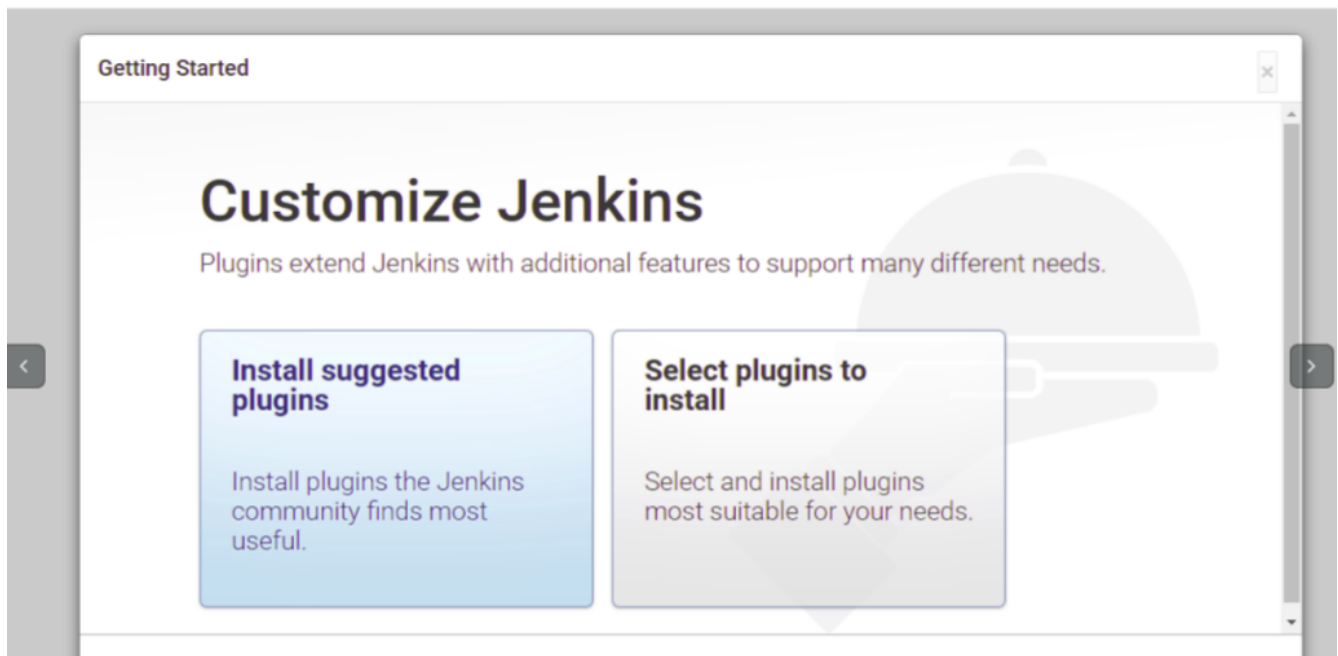
In the terminal window, we'll use the cat command to display the password:

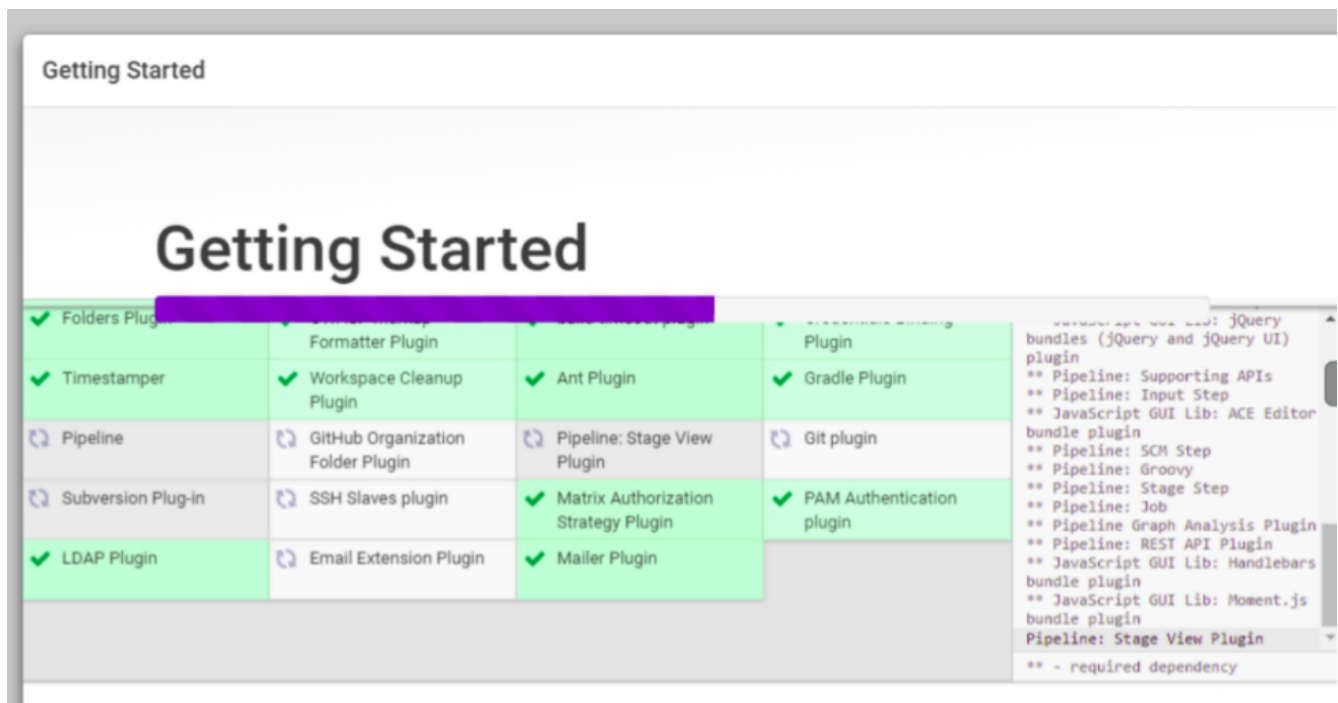
```
$ sudo cat /var/lib/jenkins/secrets/initialAdminPassword
```

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.

Sub Step 4.2:

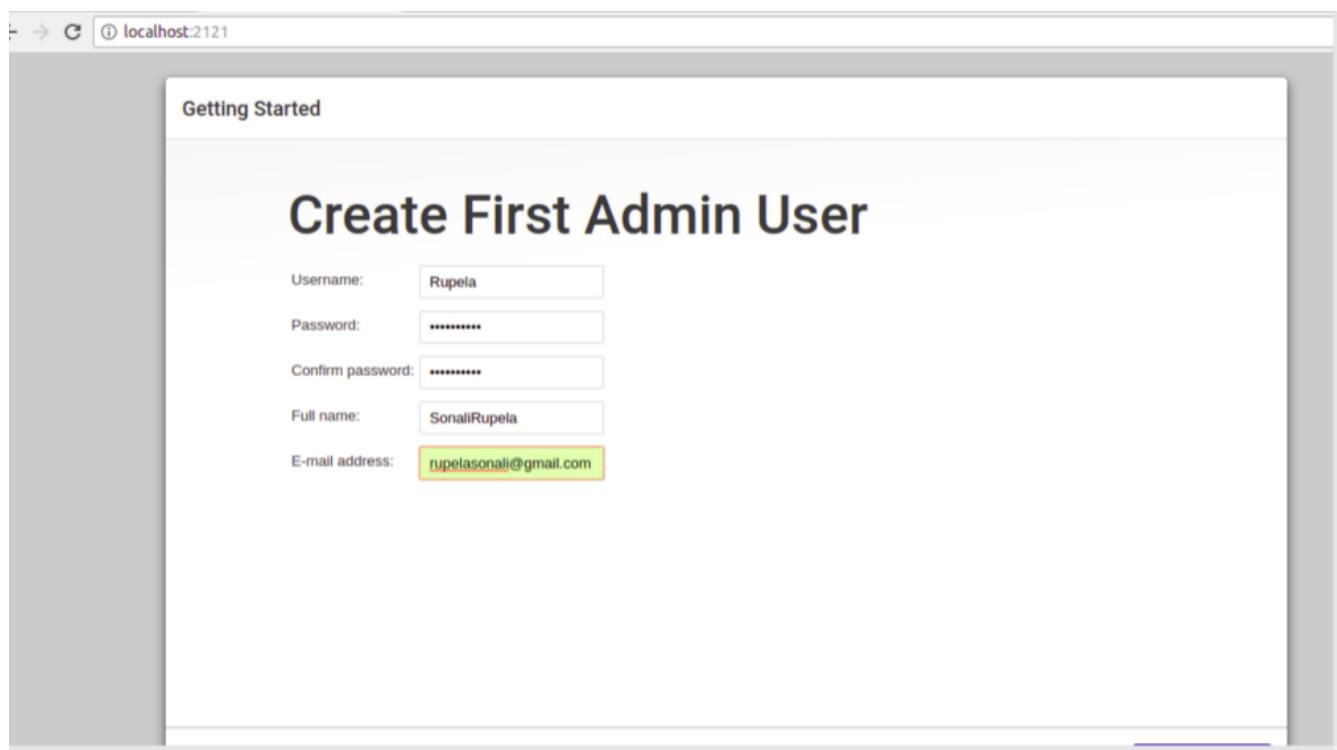
We'll click the "Install suggested plugins" option, which will immediately begin the installation process:





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.

Note: The default Jenkins server is NOT encrypted, so the data submitted with this form is not protected.



The image shows a web browser window with the address bar displaying 'localhost:2121'. The page content is titled 'Getting Started' and features a large heading 'Create First Admin User'. Below the heading is a form with five input fields, each with a label to its left. The fields are: 'Username' with the value 'Rupela', 'Password' with masked characters '*****', 'Confirm password' with masked characters '*****', 'Full name' with the value 'SonaliRupela', and 'E-mail address' with the value 'rupelasonali@gmail.com'. The 'E-mail address' field is highlighted with a yellow border. The form is set against a light gray background with a white border.

Getting Started

Create First Admin User

Username:

Password:

Confirm password:

Full 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


 **Jenkins**


search 


Jenkins >


 New Item

 People

 Build History

 Manage Jenkins

 My Views

 Credentials

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, Jenkins has been successfully installed.

EmailId:

rupelasonali@gmail.com

REF : <https://medium.com/>