Documentation

Step 1: Launch EC2 Instance

- 1. Go to the EC2 Dashboard.
- 2. Click "Launch Instance".
- 3. Set instance details:
 - Name: e.g., Jenkins-Ubuntu
 - **AMI**: Ubuntu 24.04 (as shown in your screenshot)
 - Instance Type: t2.micro (free tier)
- 4. Under **Key Pair**:
 - Select an existing key pair or create a new one.
- 5. Under **Network settings** → Click **Edit**:
 - Allow SSH (port 22) from your IP
 - Add Custom Rule:
 - Type: Custom TCP
 - Port Range: 8080
 - Source: Anywhere (or custom IP)
- 6. **Storage**: Leave as default (8 GiB)
- 7. Click "Launch Instance"

▼ Summary

Number of instances | Info

1

Software Image (AMI)

Canonical, Ubuntu, 24.04, amd6...read more ami-04f167a56786e4b09

Virtual server type (instance type)

t2.micro

Firewall (security group)

New security group

Storage (volumes)

1 volume(s) - 8 GiB

Cancel

Launch instance

Preview code

Step 2: Connect to EC2 via SSH

```
chmod 400 your-key.pem # Give secure permissions
ssh -i your-key.pem ubuntu@<EC2_Public_IP>
```

Replace your-key.pem with your key file and <EC2_Public_IP> with your instance's public IP from AWS.

```
(base) abdulrehamanshaik@Abduls-MacBook-Pro Linux % ssh -i "mykeyportal.pem" ubuntu@ec2-18-218-197-178.us-east-2.compute.amazonaws.com (18-218.197-178.us-east-2.compute.amazonaws.com (18-218.197-178)' can't be established. ED25319 key flangerprint is StAt256:ana3doffcle/IZBOHNIDPGSCANTKSkuglgosCollu.

This key is not known by any other names.
Are you sure you want to continue connecting (yes/no/[fingerprint]) yes.
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**Processes: 185

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**Suppurage: 28

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```

Step 3: Create Jenkins Install Script

1.Create a new script file:

```
vi jenkins-install.sh
```

2. Press i to enter **insert mode**, paste the full script you provided.

3. Save and exit:

Press Esc

Type :wq and press Enter

Step 4: Make the Script Executable

chmod +x jenkins-install.sh

Step 5: Run the Script

./jenkins-install.sh

This script will:

- Install OpenJDK 17
- Install Maven and tree (optional)
- Add Jenkins GPG key and repository
- Install Jenkins
- Configure UFW firewall to allow ports 22 and 8080
- Enable and start Jenkins service

#!/bin/bash

echo " Updating package list..."

```
sudo apt update -y
echo " Installing OpenJDK 17..."
sudo apt install openjdk-17-jdk -y
echo " Installing Maven (optional)..."
sudo apt install maven -y
echo " Installing 'tree' utility (optional)..."
sudo apt install tree -y
echo " Adding Jenkins repository key..."
sudo mkdir -p /usr/share/keyrings
curl -fsSL https://pkg.jenkins.io/debian-stable/jenkins.io-2023.key | sudo tee
/usr/share/keyrings/jenkins-keyring.asc > /dev/null
echo " Adding Jenkins source list..."
echo "deb [signed-by=/usr/share/keyrings/jenkins-keyring.asc]
https://pkg.jenkins.io/debian-stable binary/" | sudo tee /etc/apt/sources.list.d/jenkins.list >
/dev/null
echo " Updating package list again..."
sudo apt update -y
echo " Installing Jenkins..."
sudo apt install jenkins -y
```

```
echo " Starting and enabling Jenkins service..."

sudo systemctl start jenkins

sudo systemctl enable jenkins

echo " Configuring UFW firewall rules..."

sudo ufw allow 8080

sudo ufw allow OpenSSH

sudo ufw --force enable

echo " Jenkins installation complete!"

echo " Access Jenkins at: http://<your-server-ip>:8080"

echo " Initial Admin Password:"
```

Step 6: Get Jenkins Initial Admin Password

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

sudo cat /var/lib/jenkins/secrets/initialAdminPassword
Copy this password.

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

Step 7: Access Jenkins Web Interface

Open your browser and go to:

http://<EC2_Public_IP>:8080

Getting Started

Instance Configuration

Jenkins URL:

http://18.218.197.178:8080/

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.

Jenkins 2.492.3 Not now Save and Finish

Getting Started

Jenkins is ready!

Your Jenkins setup is complete.

Start using Jenkins

Jenkins 2.492.3

- Paste the password
- Install suggested plugins
- Create the first admin user
- Start using Jenkins!

Getting Started ×

Customize Jenkins

Plugins extend Jenkins with additional features to support many different needs.

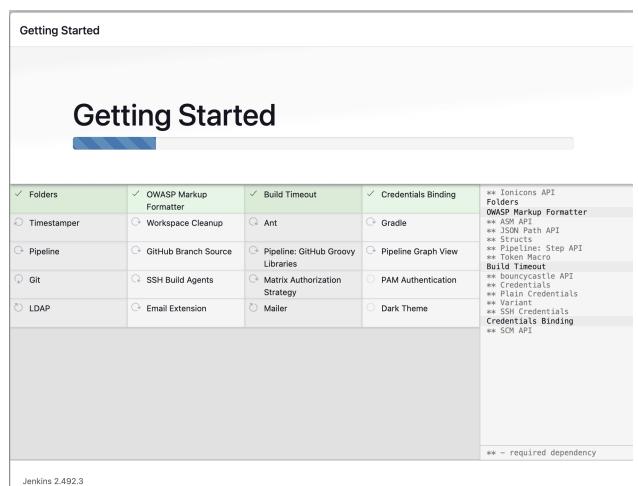
Install suggested plugins

Install plugins the Jenkins community finds most useful.

Select plugins to install

Select and install plugins most suitable for your needs.

Jenkins 2.492.3



What to Watch For

• If you see any **errors** during package installs, share a screenshot or paste it here.

Once it completes, you'll see:

- Jenkins installation complete!
- ⊕ Access Jenkins at: http://<your-server-ip>:8080
- 🔐 Initial Admin Password:
 - <some-random-password

Unlock Jenkins Ul

After the script is fully done:

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

✓ Step 7: Unlock & Setup Jenkins

- 1. Paste initial password
- 2. Click "Install Suggested Plugins"
- 3. Create:
 - o Admin Username
 - Password
 - o Email
- 4. Finish and log in to Jenkins!

Create First Admin User

Username
Rehu493
Password
Confirm password
Full name
Abdul Rehaman Shaik
E-mail address
abdulrehamansk1993@gmail.com

Jenkins 2.492.3 Skip and continue as admin Save and Continue