

## Installation of Jenkins

## Create EC2 Instance

The screenshot shows the AWS EC2 Instances page. The left sidebar is collapsed, and the main content area displays a table of instances. The table has columns for Name, Instance ID, Instance state, Instance type, Status check, Alarm status, Availability Zone, and Public IPv4. There are four instances listed: Docker (Stopped), vpn-server (Terminated), Linux (Terminated), and jenkins (Running). The jenkins instance is selected, indicated by a blue border around its row. The top navigation bar includes a search bar, a help icon, and a dropdown for United States (N. Virginia). The bottom right corner shows the user's name and a percentage completion indicator.

Name	Instance ID	Instance state	Instance type	Status check	Alarm status	Availability Zone	Public IPv4
Docker	i-0141ee92a35ba88e78	Stopped	t3.micro	-	<a href="#">View alarms +</a>	us-east-1c	-
vpn-server	i-071cbf045fc79def3	Terminated	t2.micro	-	<a href="#">View alarms +</a>	us-east-1c	-
Linux	i-0c2b58f20bb133707	Terminated	t3.micro	-	<a href="#">View alarms +</a>	us-east-1a	-
jenkins	i-0550ea338bf4223ee	Running	t3.micro	3/3 checks passed	<a href="#">View alarms +</a>	us-east-1f	ec2-3-235-1

## Cd Downloads/

```
ssh -i "jenkins.pem" ubuntu@ec2-3-235-192-206.compute-1.amazonaws.com
```

Edit inbound rules <small>Info</small>					
Security group rule ID	Type <small>Info</small>	Protocol <small>Info</small>	Port range	Source <small>Info</small>	Description - optional <small>Info</small>
sgr-0c74656dfcc49bc96	SSH	TCP	22	Custom	<input type="text"/> Delete
-	Custom TCP	TCP	8080	Anywhere	<input type="text"/> Delete

```
ubuntu@ip-172-31-74-73:~  
[root@vadu@kshay04 MINGW64 ~]  
$ cd Downloads/  
[root@vadu@kshay04 MINGW64 ~]# /OpenTools  
$ ssh -i "jenkins.pem" ubuntu@ec2-3-235-192-206.compute-1.amazonaws.com  
ssh: Could not resolve hostname ec2-3-235-192-206.compute-1.amazonaws.com: Name or service not known  
[root@vadu@kshay04 MINGW64 ~]# /OpenTools  
$ ssh -i "jenkins.pem" ubuntu@ec2-3-235-192-206.compute-1.amazonaws.com  
The authenticity of host 'ec2-3-235-192-206.compute-1.amazonaws.com (3.235.192.206)' can't be established.  
ED25519 key fingerprint is ed25519:62:pskO/CldHmKHSYbRkn38qTcBhsd97U9GrYbsSc  
Are you sure you want to continue connecting (yes/no/[fingerprint])? yes  
Warning: Permanently added 'ec2-3-235-192-206.compute-1.amazonaws.com' (ED25519) to the list of known hosts.  
Welcome to Ubuntu 24.04.3 LTS (GNU/Linux 6.14.0-1018-aws x86_64)  
  
 * Documentation: https://Help.ubuntu.com  
 * Management: https://landscape.canonical.com  
 * Support: https://ubuntu.com/pro  
  
System information as of Tue Feb 10 13:58:36 UTC 2026  
  
System load: 0.05 Temperature: -273.1 C  
Usage of /: 25% of 6.71GB Users logged in: 1/4  
Memory usage: 26% IP4 address for ens5: 172.31.74.73  
Swap usage: 0%  
  
Expanded Security Maintenance For Applications is not enabled.  
0 updates can be applied immediately.  
  
enable ESM Apps to receive additional future security updates.  
see https://ubuntu.com/esm or run: sudo pro status  
  
The list of available updates is more than a week old.  
To check for new updates run: sudo apt update  
  
The programs included with the Ubuntu system are free software;  
the exact distribution terms for each program are described in the  
individual files in /usr/share/doc/*copyright.  
  
Ubuntu comes with ABSOLUTELY NO WARRANTY, to the extent permitted by  
applicable law.  
  
To run a command as administrator (user "root"), use "sudo <command>".  
See "man sudo_root" for details.  
ubuntu@ip-172-31-74-73:~$
```

**sudo apt update**

```
sudo apt install fontconfig openjdk-21-jre
```

```
ubuntu@ip-172-31-74-73:~$ Adding debian Sectigo_Public_Server_Authentication_Root_R46.pem
Adding debian Sectigo_Sign_RootCA1.pem
Adding debian:SecureTrust_CA.pem
Adding debian:Secure_Global_CA.pem
Adding debian:Security_Communication_ECC_RootCA1.pem
Adding debian:Security_Communication_RootCA2.pem
Adding debian:Security_Communication_RootCA3.pem
Adding debian:Security_Communication_Root_CA.pem
Adding debian:Starfield_Root_Certificate_Authority_-G2.pem
Adding debian:Starfield_Services_Root_Certificate_Authority_-G2.pem
Adding debian:SwissSign_Gold_CA_G2.pem
Adding debian:TeliaSec_GlobalRoot_CA.pem
Adding debian:TeliaSec_GlobalRoot_Class_2.pem
Adding debian:T-Telsec_GlobalRoot_Class_3.pem
Adding debian:TUBITAK_Kamu_SMS_KokSertifikasi_-Surum_1.pem
Adding debian:TMCA_Root_Certification_Authority.pem
Adding debian:TeliaSonera_Root_CA_v1.pem
Adding debian:TeliaRoot_CA_v2.pem
Adding debian:TeliaTrustFast_CA_G3.pem
Adding debian:TeliaTrustGlobal_Root_CA_G4.pem
Adding debian:Trustwave_Global_Certification_Authority.pem
Adding debian:Trustwave_Global_ECC_P256_Certification_Authority.pem
Adding debian:Trustwave_Global_ECC_P384_Certification_Authority.pem
Adding debian:TurkTesis_Root_CA.pem
Adding debian:UCA_Extended_Validation_Root.pem
Adding debian:UCA_Global_G2_Root.pem
Adding debian:UCA_TrustRoot_Certification_Authority.pem
Adding debian:UESERT_RSA_Certification_Authority.pem
Adding debian:Xram_Global_CA_Root.pem
Adding debian:cetSIGN_ROOT_CA.pem
Adding debian:cetSIGN_Root_Certification_Authority.pem
Adding debian:eKIDRoot_CA_2017.pem
Adding debian:ePKI_Root_Certification_Authority.pem
Adding debian:emSign_ECC_Root_CA_-C3.pem
Adding debian:emSign_ECCRoot_CA_-C3.pem
Adding debian:emSignRoot_CA_-C1.pem
Adding debian:emSign_Root_CA_-G1.pem
Adding debian:virus_ECC_Root_CA.pem
Adding debian:virus_Root_CA.pem
done
Setting up openjdk-21-jre:amd64 (21.0+0+7-1~24.04) ...
Processing triggers for libc-bin (2.39-0ubuntu8.6) ...
Processing triggers for libgdk-pixbuf2.0-0:amd64 (2.42.10+dfsg-3ubuntu3.2) ...
Scanning processes...
Scanning Linux images...

Running kernel seems to be up-to-date.

No services need to be restarted.

No user sessions are running outdated binaries.

No VM guests are running outdated hypervisor (qemu) binaries on this host.
ubuntu@ip-172-31-74-73:~$ |
```

`java -version`

```
ubuntu@ip-172-31-74-73:~$ java -version
openjdk version "21.0.10" 2026-01-20
OpenJDK Runtime Environment (build 21.0.10+7-Ubuntu-124.04)
OpenJDK 64-Bit Server VM (build 21.0.10+7-Ubuntu-124.04, mixed mode, sharing)
ubuntu@ip-172-31-74-73:~$
```

```
sudo wget -O /etc/apt/keyrings/jenkins-keyring.asc \
```

<https://pkg.jenkins.io/debian-stable/jenkins.io-2026.key>

```
echo "deb [signed-by=/etc/apt/keyrings/jenkins-keyring.asc]" \
```

```
https://pkg.jenkins.io/debian-stable binary/ | sudo tee \
```

```
/etc/apt/sources.list.d/jenkins.list > /dev/null
```

**sudo apt update**

sudo apt install Jenkins

```
ubuntu@ip-172-31-74-73:~$ length: 1680 [1.6K] [application/octet-stream]
saving to: '/etc/apt/keyrings/jenkins-keyring.asc'
/etc/apt/keyrings/jenkins-keyring.asc          100%[=====] 1.64K --.-KB/s   in 0s
2026-02-10 14:04:52 (16.2 MB/s) - '/etc/apt/keyrings/jenkins-keyring.asc' saved [1680/1680]

Hit:1 http://us-east-1.ec2.archive.ubuntu.com/ubuntu noble InRelease
Hit:2 http://us-east-1.ec2.archive.ubuntu.com/ubuntu noble-updates InRelease
Hit:3 http://us-east-1.ec2.archive.ubuntu.com/ubuntu noble-backports InRelease
Hit:4 http://security.ubuntu.com/ubuntu focal-security InRelease
Ign:5 https://pkg.jenkins.io/debian-stable binary/ InRelease
Get:6 https://pkg.jenkins.io/debian-stable binary/ Release [2044 B]
Get:7 https://pkg.jenkins.io/debian-stable binary/ Release.gpg [833 B]
Get:8 https://pkg.jenkins.io/debian-stable binary/ Packages [30.5 kB]
Fetched 33.4 kB in 1s (53.1 kB/s)
Reading package lists... done
Building dependency tree... done
Reading state information... done
8 packages can be upgraded. Run 'apt list --upgradable' to see them.
Building dependency tree... done
Reading package lists... done
Reading state information... done
The following NEW packages will be installed:
  net-tools
The following NEW packages will be installed:
  jenkins net-tools
0 upgraded, 2 newly installed, 0 to remove and 81 not upgraded.
0 newly installed, 97.2 MB of archives.
After this operation, 97.2 MB of additional disk space will be used.
Do you want to continue? [Y/n] y
Get:1 http://us-east-1.ec2.archive.ubuntu.com/ubuntu noble-updates/main amd64 net-tools amd64 2.10-0.1ubuntu4.4 [204 kB]
Get:2 https://pkg.jenkins.io/debian-stable binary/ jenkins 2.541.1 [95.8 kB]
Fetched 96.0 MB in 4s (25.4 MB/s)
Selecting previously unselected package net-tools.
(Reading database... 86583 files and directories currently installed.)
Preparing to unpack .../net-tools_2.10-0.1ubuntu4.4_amd64.deb ...
Unpacking net-tools (2.10-0.1ubuntu4.4) ...
Selecting previously unselected package jenkins.
Preparing to unpack .../jenkins_2.541.1_all.deb ...
Unpacking Jenkins (2.541.1) ...
Setting up net-tools (2.10-0.1ubuntu4.4) ...
Setting up Jenkins (2.541.1)
Created symlink /etc/systemd/system/multi-user.target.wants/jenkins.service → /usr/lib/systemd/system/jenkins.service.
Processing triggers for man-db (2.12.0-4build2) ...
scanning processes...
scanning linux images...

Running kernel seems to be up-to-date.

No services need to be restarted.

No containers need to be restarted.

No user sessions are running outdated binaries.

No VM guests are running outdated hypervisor (qemu) binaries on this host.
ubuntu@ip-172-31-74-73:~$
```

```
sudo systemctl start Jenkins
```

```
ubuntu@ip-172-31-74-73:~$ sudo systemctl start jenkins
[jenkins.service - Jenkins Continuous Integration Server
 Active: active (running) since Tue 2026-02-10 14:05:15 UTC; 1min 26s ago
   Main PID: 4288 (java)
     Tasks: 3 (limit: 1008)
    Memory: 16.78MiB
      CPU: 16.784s
 CGroup: /system.slice/jenkins.service
           └─4288 /usr/bin/java jenkins.war --webroot=/var/cache/jenkins/war --httpPort=8080

Feb 10 14:05:11 ip-172-31-74-73 jenkins[4288]: [LF] This may also be found at: /var/lib/jenkins/secrets/initialAdminPassword
Feb 10 14:05:11 ip-172-31-74-73 jenkins[4288]: [LF] ****
Feb 10 14:05:15 ip-172-31-74-73 jenkins[4288]: [LF] ****
Feb 10 14:05:15 ip-172-31-74-73 jenkins[4288]: [LF] ****
Feb 10 14:05:15 ip-172-31-74-73 jenkins[4288]: [LF] [d=33]  INFO  jenkins.InitReactorRunner#onAttained: Completed initialization
Feb 10 14:05:15 ip-172-31-74-73 jenkins[4288]: [LF] [d=195]  INFO  hudson.lifecycle.ForcefulInitialization#onReady: Jenkins is fully up and running
Feb 10 14:05:15 ip-172-31-74-73 jenkins[4288]: [LF] [d=50]  INFO  jenkins.Jenkins#start: Jenkins is now running in continuous Integration Service mode
Feb 10 14:05:15 ip-172-31-74-73 jenkins[4288]: [LF] [d=50]  INFO  hudson.util.DownloadService#onLoadableLoad: obtained the updated data file for hudson.tasks.Maven.MavenInstaller
Feb 10 14:05:15 ip-172-31-74-73 jenkins[4288]: [LF] [d=50]  INFO  hudson.util.Retrier#start: Performed the action check updates server successfully at the attempt #1
ubuntu@ip-172-31-74-73:~$
```

3.235.192.206:8080

Getting Started

## 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

Continue

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

Administrator Password : ad012401677e484cb528f0b56bb07909

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.

## Getting Started

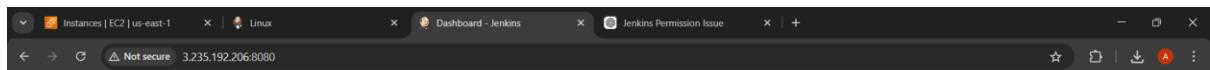
# Jenkins is ready!

You have skipped the **setup of an admin user**.

To log in, use the username: "admin" and the administrator password you used to access the setup wizard.

Your Jenkins setup is complete.

[Start using Jenkins](#)



A screenshot of the Jenkins dashboard. At the top, there are links for 'New Item' and 'Build History'. Below that is a 'Build Queue' section with a dropdown menu and a note: 'No builds in the queue.' To the right is a 'Build Executor Status' section showing '0/2'. In the center, a large heading says 'Welcome to Jenkins!' with the subtext: 'This page is where your Jenkins jobs will be displayed. To get started, you can set up distributed builds or start building a software project.' Below this is a 'Start building your software project' button and a 'Create a job' button. On the right, there's a '+'. Underneath, there's a 'Set up a distributed build' section with three buttons: 'Set up an agent' (with a monitor icon), 'Configure a cloud' (with a cloud icon), and 'Learn more about distributed builds' (with a question mark icon). The bottom right corner shows 'REST API' and 'Jenkins 2.541.1'.

