

Jenkins Installation and Configuration.

Creating instance :

>masterjenkins.

>slavejenkins.

The screenshot shows the AWS EC2 Instances page. The sidebar on the left includes options like Dashboard, AWS Global View, Events, Instances (selected), Instance Types, Launch Templates, Spot Requests, Savings Plans, Reserved Instances, Dedicated Hosts, Capacity Reservations, and Images. The main content area displays a table of instances:

Name	Instance ID	Instance state	Instance type	Status check	Alarm status
slavejenkins	i-02127660e878e5920	Terminated	t3.micro	3/3 checks passed	View alarms
masterjenkins	i-0cd482c34ccfbdb888	Terminated	t3.micro	3/3 checks passed	View alarms
git	i-067fe068cc08dbc29	Stopped	t3.micro	3/3 checks passed	View alarms

The screenshot shows the AWS EC2 Launch an instance page. A blue banner at the top says: "It seems like you may be new to launching instances in EC2. Take a walkthrough to learn about EC2, how to launch instances and about best practices". It has "Take a walkthrough" and "Do not show me this message again." buttons. The main form is titled "Launch an instance" and contains the following fields:

- Name and tags**: Name is set to "masterjenkins". There is a "Add additional tags" button.
- Application and OS Images (Amazon Machine Image)**: An AMI is selected: "Amazon Linux 2023 AMI 2023.9.2...". A note says: "An AMI contains the operating system, application server, and applications for your instance. If you don't see a suitable AMI below, use the search field or choose Browse more AMIs."
- Summary**: Number of instances is set to 1. Other settings include Software Image (AMI), Virtual server type (instance type) as t3.micro, and Firewall (security group) as New security group.

The screenshot shows the AWS EC2 'Launch an instance' wizard. In the 'Key pair (login)' section, a key pair named 'jenkin' is selected. Under 'Network settings', the VPC 'vpc-00910cd11628d4355' and subnet are chosen. In the 'Summary' box, one instance is selected, using the 'Canonical, Ubuntu, 24.04, amd64' AMI and the 't3.micro' instance type. A 'Launch instance' button is highlighted.

The screenshot shows the 'Success' message: 'Successfully initiated launch of instance (i-0c38d9a64b2b7fa6a)'. Below it, a 'Launch log' link is visible. The 'Next Steps' section includes links for 'Create billing usage alerts', 'Connect to your instance', 'Connect an RDS database', and 'Create EBS snapshot policy'.

Name and tags

Name: slavejenking

Application and OS Images (Amazon Machine Image)

An AMI contains the operating system, application server, and applications for your instance. If you don't see a suitable AMI below, use the search field or choose [Browse more AMIs](#).

Summary

Number of instances: 1

Software Image (AMI): Amazon Linux 2023 AMI 2023.9.2... [read more](#)

Virtual server type (instance type): t3.micro

Firewall (security group): New security group

[Launch instance](#)

Additional costs apply for AMIs with pre-installed software

Key pair (login)

You can use a key pair to securely connect to your instance. Ensure that you have access to the selected key pair before you launch the instance.

Key pair name - required: jenkins

Network settings

Network: vpc-00910cd11628d4355

Subnet: Info

Summary

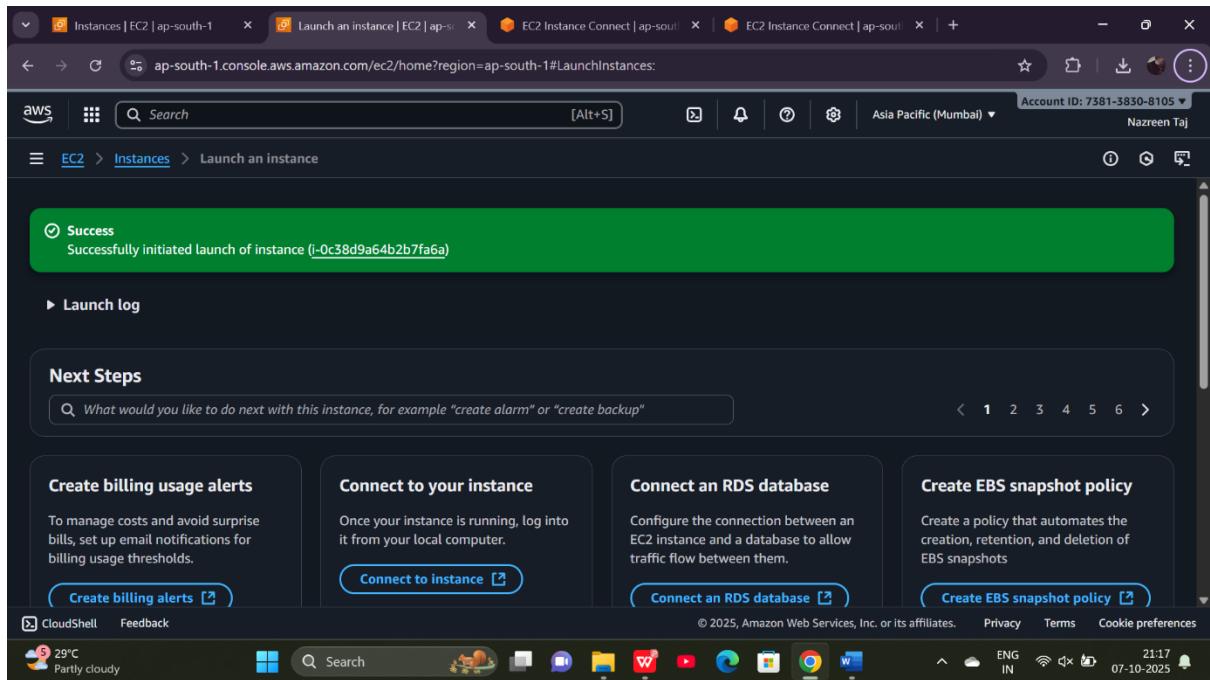
Number of instances: 1

Software Image (AMI): Canonical, Ubuntu, 24.04, amd64... [read more](#)

Virtual server type (instance type): t3.micro

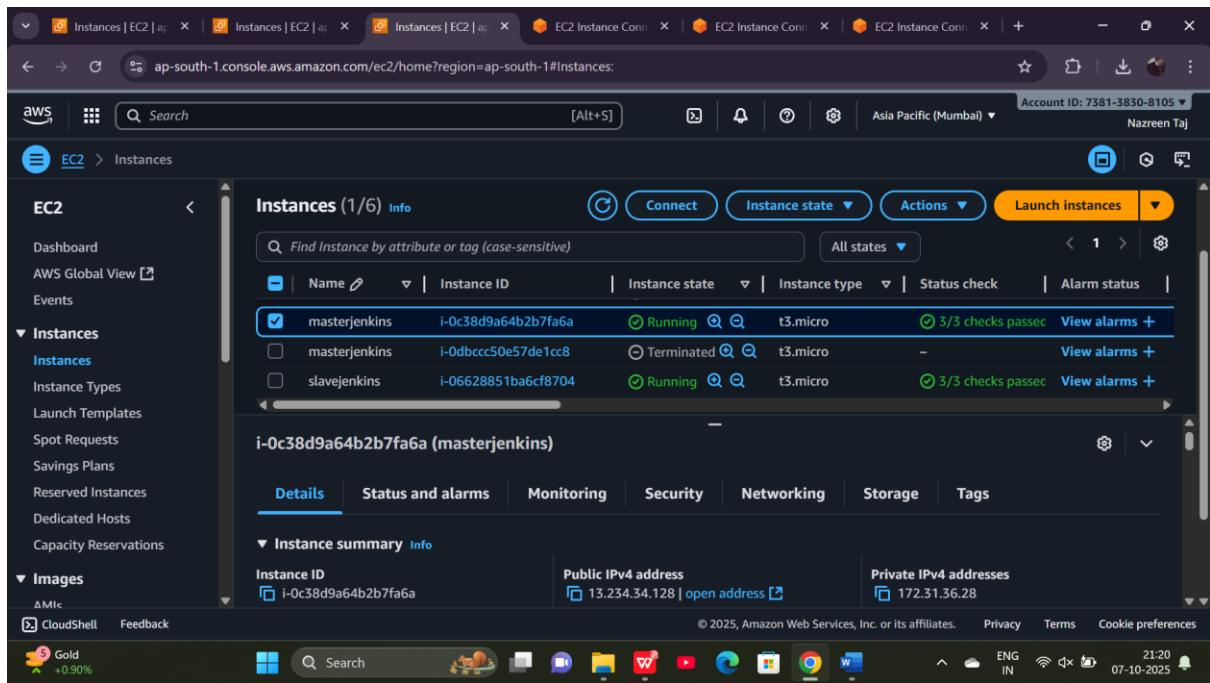
Firewall (security group): New security group

[Launch instance](#)



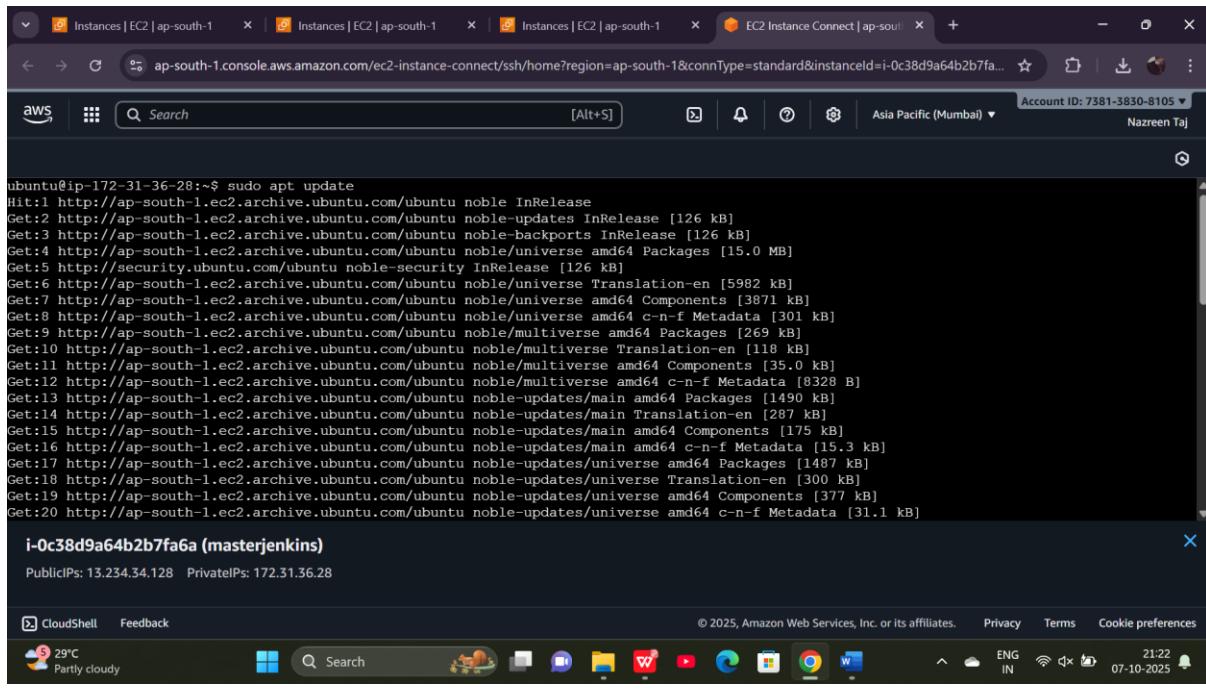
Installing java.

>in masterjenkins.



The screenshot shows the 'Connect to instance' page for an EC2 instance with ID i-0c38d9a64b2b7fa6a. The 'Connection type' section is highlighted, showing two options: 'Connect using a Public IP' (selected) and 'Connect using a Private IP'. Below this, 'Public IPv4 address' is selected, showing the IP 13.234.34.128. The 'Username' field contains 'ubuntu'. A note at the bottom of the connection type section states: 'Note: In most cases, the default username, ubuntu, is correct. However, read your AMI usage instructions to check if the AMI owner has changed the default AMI username.' At the bottom right are 'Cancel' and 'Connect' buttons.

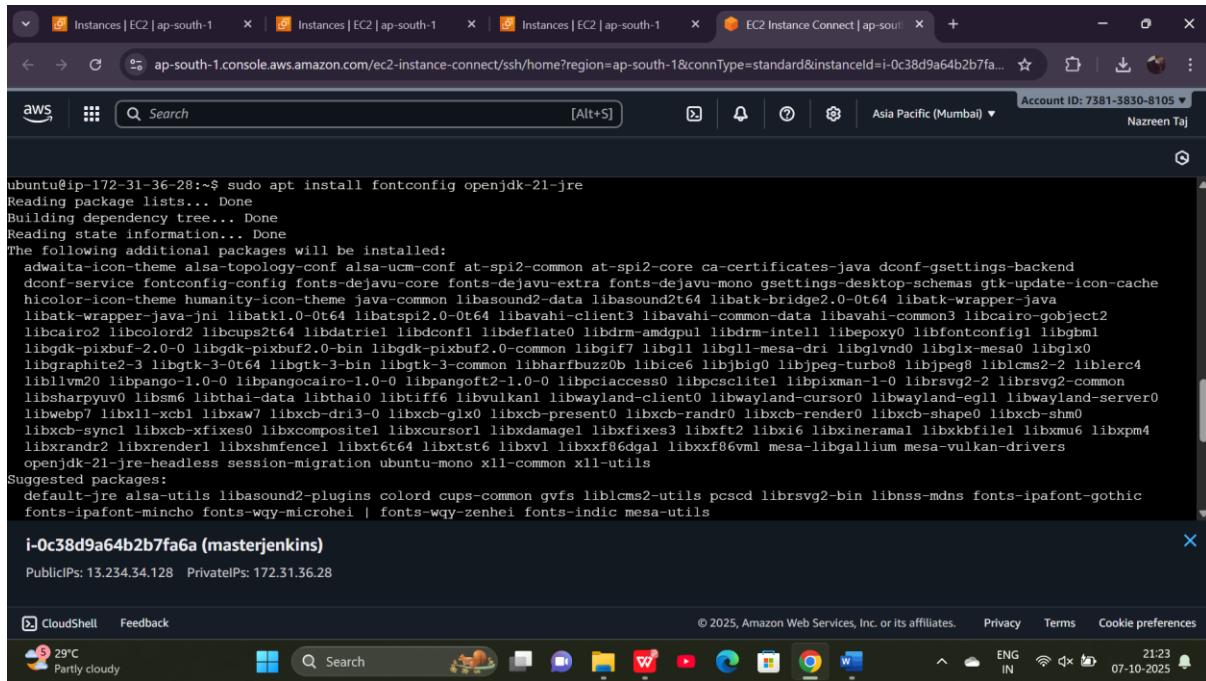
This screenshot is identical to the one above, but it includes a note at the bottom of the connection type section: 'Note: In most cases, the default username, ubuntu, is correct. However, read your AMI usage instructions to check if the AMI owner has changed the default AMI username.'



```
ubuntu@ip-172-31-36-28:~$ sudo apt update
Hit:1 http://ap-south-1.ec2.archive.ubuntu.com/ubuntu noble InRelease
Get:2 http://ap-south-1.ec2.archive.ubuntu.com/ubuntu noble-updates InRelease [126 kB]
Get:3 http://ap-south-1.ec2.archive.ubuntu.com/ubuntu noble-backports InRelease [126 kB]
Get:4 http://ap-south-1.ec2.archive.ubuntu.com/ubuntu noble/universe amd64 Packages [15.0 MB]
Get:5 http://ap-south-1.ec2.archive.ubuntu.com/ubuntu noble-security InRelease [126 kB]
Get:6 http://ap-south-1.ec2.archive.ubuntu.com/ubuntu noble/universe Translation-en [5982 kB]
Get:7 http://ap-south-1.ec2.archive.ubuntu.com/ubuntu noble/universe amd64 Components [3871 kB]
Get:8 http://ap-south-1.ec2.archive.ubuntu.com/ubuntu noble/universe amd64 c-n-f Metadata [301 kB]
Get:9 http://ap-south-1.ec2.archive.ubuntu.com/ubuntu noble/multiverse amd64 Packages [269 kB]
Get:10 http://ap-south-1.ec2.archive.ubuntu.com/ubuntu noble/multiverse Translation-en [118 kB]
Get:11 http://ap-south-1.ec2.archive.ubuntu.com/ubuntu noble/multiverse amd64 Components [35.0 kB]
Get:12 http://ap-south-1.ec2.archive.ubuntu.com/ubuntu noble/multiverse amd64 c-n-f Metadata [8328 B]
Get:13 http://ap-south-1.ec2.archive.ubuntu.com/ubuntu noble-updates/main amd64 Packages [1490 kB]
Get:14 http://ap-south-1.ec2.archive.ubuntu.com/ubuntu noble-updates/main Translation-en [287 kB]
Get:15 http://ap-south-1.ec2.archive.ubuntu.com/ubuntu noble-updates/main amd64 Components [175 kB]
Get:16 http://ap-south-1.ec2.archive.ubuntu.com/ubuntu noble-updates/main amd64 c-n-f Metadata [15.3 kB]
Get:17 http://ap-south-1.ec2.archive.ubuntu.com/ubuntu noble-updates/universe amd64 Packages [1487 kB]
Get:18 http://ap-south-1.ec2.archive.ubuntu.com/ubuntu noble-updates/universe Translation-en [300 kB]
Get:19 http://ap-south-1.ec2.archive.ubuntu.com/ubuntu noble-updates/universe amd64 Components [377 kB]
Get:20 http://ap-south-1.ec2.archive.ubuntu.com/ubuntu noble-updates/universe amd64 c-n-f Metadata [31.1 kB]
```

i-0c38d9a64b2b7fa6a (masterjenkins)

Public IPs: 13.234.34.128 Private IPs: 172.31.36.28



```
ubuntu@ip-172-31-36-28:~$ sudo apt install fontconfig openjdk-21-jre
Reading package lists... Done
Building dependency tree... Done
Reading state information... Done
The following additional packages will be installed:
  adwaita-icon-theme alsacard-topology-conf alsacard-ucm-conf at-spi2-common at-spi2-core ca-certificates-java dconf-gsettings-backend
  dconf-service fontconfig-config fonts-dejavu-core fonts-dejavu-extra fonts-dejavu-mono gsettings-desktop-schemas gtk-update-icon-cache
  hicolor-icon-theme humanity-icon-theme java-common libasound2-data libasound2t64 libatk-bridge2.0-0t64 libatk-wrapper-java
  libatk-wrapper-java-jni libatk1.0-0t64 libatspi2.0-0t64 libavahi-client3 libavahi-common-data libavahi-common3 libcairo-gobject2
  libcairo2 libcolor2 libcurl2t64 libdatriel libdconf1 libdeflate0 libdrm-amdgpu libdrm-intel libepoxy0 libfontconfig1 libgbm1
  libgd-pixbuf2.0-0 libgd-pixbuf2.0-bin libgdk-pixbuf2.0-common libgif7 libgl1 libgl1-mesa-dri libglvnd0 libglx-mesa0 libglx0
  libgraphite2-3 libgtk-3-0t64 libgtk-3-bin libgtk-3-common libharfbuzz0b libice6 libjbig2 libjpeg-turbo8 libjpeg8 liblcms2-2 liblerc4
  liblvm20 libpango-1.0-0 libpangocairo-1.0-0 libpangoft2-1.0-0 libpcicaccess0 libpccslite1 libpixman-1-0 librsvg2-2 librsvg2-common
  libsharpyuv0 libsm6 libthai-data libthai0 libtiff6 libvulkan1 libwayland-client0 libwayland-cursor0 libwayland-egl1 libwayland-server0
  libwebp7 libx11-xcb1 libxaw7 libxcb-dri3-0 libxcb-glx0 libxcb-present0 libxcb-randr0 libxcb-render0 libxcb-shape0 libxcb-shm0
  libxcb-sync1 libxcb-xfixes0 libcomposite1 libcursor1 libxdamage1 libxfixed3 libxft2 libx16 libxinerama1 libxbfile1 libxmu16 libxpm4
  libxrandr2 librender1 libxfencel libxtt64 libxtst6 libxv1 libxf86dg1 libxf86vml mesa-libgallium mesa-vulkan-drivers
  openjdk-21-jre-headless session-migration ubuntu-mono x11-common x11-utils
Suggested packages:
  default-jre alsacard-libs libasound2-plugins colord cups-common gvfs liblcms2-utils pcscd librsvg2-bin libnss-mdns fonts-ipafont-gothic
  fonts-ipafont-mincho fonts-wqy-microhei | fonts-wqy-zenhei fonts-indic mesa-utils

i-0c38d9a64b2b7fa6a (masterjenkins)
```

Public IPs: 13.234.34.128 Private IPs: 172.31.36.28

Do you want to continue? [Y/n] y

```
Get:1 http://ap-south-1.ec2.archive.ubuntu.com/ubuntu noble-updates/main amd64 libgdk-pixbuf2.0-common all 2.42.10+dfsg-3ubuntu3.2 [8192 B]
Get:2 http://ap-south-1.ec2.archive.ubuntu.com/ubuntu noble/main amd64 libjpeg-turbo8 amd64 2.1.5-2ubuntu2 [150 kB]
Get:3 http://ap-south-1.ec2.archive.ubuntu.com/ubuntu noble/main amd64 libjpeg8 amd64 8c-2ubuntu11 [2148 B]
Get:4 http://ap-south-1.ec2.archive.ubuntu.com/ubuntu noble-updates/main amd64 libdeflate0 amd64 1.19-1build1.1 [43.9 kB]
Get:5 http://ap-south-1.ec2.archive.ubuntu.com/ubuntu noble/main amd64 libjbig0 amd64 2.1-6.lubuntu2 [29.7 kB]
Get:6 http://ap-south-1.ec2.archive.ubuntu.com/ubuntu noble/main amd64 liblberc4 amd64 4.0.0+ds-4ubuntu2 [179 kB]
Get:7 http://ap-south-1.ec2.archive.ubuntu.com/ubuntu noble/main amd64 libsharpuyv0 amd64 1.3.2-0.4build3 [15.8 kB]
Get:8 http://ap-south-1.ec2.archive.ubuntu.com/ubuntu noble/main amd64 libwebp7 amd64 1.3.2-0.4build3 [230 kB]
Get:9 http://ap-south-1.ec2.archive.ubuntu.com/ubuntu noble-updates/main amd64 libtiff6 amd64 4.5.1+git230720-4ubuntu2.4 [199 kB]
Get:10 http://ap-south-1.ec2.archive.ubuntu.com/ubuntu noble-updates/main amd64 libgdk-pixbuf-2.0-0 amd64 2.42.10+dfsg-3ubuntu3.2 [147 kB]
Get:11 http://ap-south-1.ec2.archive.ubuntu.com/ubuntu noble-updates/main amd64 gtk-update-icon-cache amd64 3.24.41-4ubuntu1.3 [51.9 kB]
Get:12 http://ap-south-1.ec2.archive.ubuntu.com/ubuntu noble/main amd64 hicolor-icon-theme all 0.17-2 [9776 B]
Get:13 http://ap-south-1.ec2.archive.ubuntu.com/ubuntu noble/main amd64 humanity-icon-theme all 0.6.16 [1282 kB]
Get:14 http://ap-south-1.ec2.archive.ubuntu.com/ubuntu noble/main amd64 ubuntu-mono all 24.04-0ubuntu1 [151 kB]
Get:15 http://ap-south-1.ec2.archive.ubuntu.com/ubuntu noble/main amd64 adwaita-icon-theme all 46.0-1 [723 kB]
Get:16 http://ap-south-1.ec2.archive.ubuntu.com/ubuntu noble/main amd64 alsa-topology-conf all 1.2.5.1-2 [15.5 kB]
Get:17 http://ap-south-1.ec2.archive.ubuntu.com/ubuntu noble-updates/main amd64 libasound2-data all 1.2.11-lubuntu0.1 [21.1 kB]
Get:18 http://ap-south-1.ec2.archive.ubuntu.com/ubuntu noble-updates/main amd64 libasound2t64 amd64 1.2.11-lubuntu0.1 [399 kB]
Get:19 http://ap-south-1.ec2.archive.ubuntu.com/ubuntu noble-updates/main amd64 alsa-ucm-conf all 1.2.10-1lubuntu5.7 [66.4 kB]
Get:20 http://ap-south-1.ec2.archive.ubuntu.com/ubuntu noble/main amd64 at-spi2-common all 2.52.0-1build1 [8674 B]
```

i-0c38d9a64b2b7fa6a (masterjenkins)

PublicIPs: 13.234.34.128 PrivateIPs: 172.31.36.28

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```
ubuntu@ip-172-31-36-28:~$ java --version
openjdk 21.0.8 2025-07-15
OpenJDK Runtime Environment (build 21.0.8+9-Ubuntu-0ubuntu124.04.1)
OpenJDK 64-Bit Server VM (build 21.0.8+9-Ubuntu-0ubuntu124.04.1, mixed mode, sharing)
ubuntu@ip-172-31-36-28:~$
```

i-0c38d9a64b2b7fa6a (masterjenkins)

PublicIPs: 13.234.34.128 PrivateIPs: 172.31.36.28

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>in slavejenkins

```
ubuntu@ip-172-31-39-111:~$ sudo apt update
Hit:1 http://ap-south-1.ec2.archive.ubuntu.com/ubuntu noble InRelease
Get:2 http://ap-south-1.ec2.archive.ubuntu.com/ubuntu noble-updates InRelease [126 kB]
Get:3 http://ap-south-1.ec2.archive.ubuntu.com/ubuntu noble-backports InRelease [126 kB]
Get:4 http://ap-south-1.ec2.archive.ubuntu.com/ubuntu noble/universe amd64 Packages [15.0 MB]
Get:5 http://security.ubuntu.com/ubuntu noble-security InRelease [126 kB]
Get:6 http://ap-south-1.ec2.archive.ubuntu.com/ubuntu noble/universe Translation-en [5962 kB]
Get:7 http://ap-south-1.ec2.archive.ubuntu.com/ubuntu noble/universe amd64 Components [3871 kB]
Get:8 http://ap-south-1.ec2.archive.ubuntu.com/ubuntu noble/universe Metadata [301 kB]
Get:9 http://ap-south-1.ec2.archive.ubuntu.com/ubuntu noble/multiverse amd64 Packages [269 kB]
Get:10 http://ap-south-1.ec2.archive.ubuntu.com/ubuntu noble/multiverse Translation-en [118 kB]
Get:11 http://ap-south-1.ec2.archive.ubuntu.com/ubuntu noble/multiverse amd64 Components [35.0 kB]
Get:12 http://ap-south-1.ec2.archive.ubuntu.com/ubuntu noble/multiverse amd64 c-n-f Metadata [8328 B]
Get:13 http://ap-south-1.ec2.archive.ubuntu.com/ubuntu noble-updates/main amd64 Packages [1490 kB]
Get:14 http://ap-south-1.ec2.archive.ubuntu.com/ubuntu noble-updates/main Translation-en [287 kB]
Get:15 http://ap-south-1.ec2.archive.ubuntu.com/ubuntu noble-updates/main amd64 Components [175 kB]
Get:16 http://ap-south-1.ec2.archive.ubuntu.com/ubuntu noble-updates/main amd64 c-n-f Metadata [15.3 kB]
Get:17 http://ap-south-1.ec2.archive.ubuntu.com/ubuntu noble-updates/universe amd64 Packages [1487 kB]
Get:18 http://ap-south-1.ec2.archive.ubuntu.com/ubuntu noble-updates/universe Translation-en [300 kB]
Get:19 http://ap-south-1.ec2.archive.ubuntu.com/ubuntu noble-updates/universe amd64 Components [377 kB]
Get:20 http://ap-south-1.ec2.archive.ubuntu.com/ubuntu noble-updates/universe amd64 c-n-f Metadata [31.1 kB]
```

i-06628851ba6cf8704 (slavejenkins)

PublicIPs: 13.201.120.76 PrivateIPs: 172.31.39.111

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```

ubuntu@ip-172-31-39-111:~$ sudo apt install fontconfig openjdk-21-jre
Reading package lists... Done
Building dependency tree... Done
Reading state information... Done
The following additional packages will be installed:
adwaita-icon-theme alsal-ucm-conf at-spi2-common at-spi2-core ca-certificates-java dconf-gsettings-backend
dconf-service fontconfig-config fonts-dejavu-core fonts-dejavu-extra fonts-dejavu-mono gsettings-desktop-schemas gtk-update-icon-cache
hicolor-icon-theme humanity-icon-theme java-common libasound2-data libasound2t64 libatk-bridge2.0-0t64 libatk-wrapper-java
libatk-wrapper-java-jni libatk1.0-0t64 libatspi2.0-0t64 libavahi-client3 libavahi-common-data libavahi-common3 libcairo-gobject2
libcairo2 libcolor2 libcupsp2t64 libdatriel libdconf1 libdeflate0 libdrm-amdgpu libdrm-intel libepoxy0 libfontconfig1 libgbml
libgdk-pixbuf2.0-0 libgdk-pixbuf2.0-bin libgdk-pixbuf2.0-common libgif7 libgl libgl-mesa-dri libglvnd0 libglx-mesa0 libglx0
libgraphite2-3 libgtk-3-0t64 libgtk-3-bin libgtk-3-common libharfbuzz0b libice6 libjbig0 libjpeg-turbo8 libjpeg8 liblcms2-1 liblerc4
liblvm20 libpango-1.0-0 libpango-1.0-0 libpangoft2-1.0-0 libpaciaccess0 libpcsc-lite libpixman-1-0 librsvg2-2 librsvg2-common
libsharpuyv0 libsm6 libthal-data libthal0 libtiff6 libvulkan1 libwayland-client0 libwayland-cursor0 libwayland-eegl libwayland-server0
libwp7 libxcb-xcb1 libxaw7 libxcb-dri3-0 libxcb-glx0 libxcb-present0 libxcb-randr0 libxcb-render0 libxcb-shape0 libxcb-shm0
libxcb-sync1 libxcb-xfixes0 libxcompositelibcursor1 libxdamage1 libxf86libxf86libxf86libxf86libxf86libxf86vme libxkbfile1 libxmu6 libxpm4
libxrander2 libxrender1 libxsfencelibxt6t64 libxtst6 libxv1 libxf86gal libxxf86vme mesa-libgallium mesa-vulkan-drivers
openjdk-21-jre-headless session-migration ubuntu-mono x11-common x11-utils
Suggested packages:
default-jre alsal-utils libasound2-plugins colord cups-common gvfs liblcms2-utils pscd librsvg2-bin libnss-mdns fonts-ipafont-gothic
fonts-ipafont-mincho fonts-wqy-microhei | fonts-wqy-zhenhei fonts-indic mesa-utils

i-06628851ba6cf8704 (slavejenkins)
PublicIPs: 13.201.120.76 PrivateIPs: 172.31.39.111

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ubuntu@ip-172-31-39-111:~$ After this operation, 568 MB of additional disk space will be used.
Do you want to continue? [Y/n] y
Get:1 http://ap-south-1.ec2.archive.ubuntu.com/ubuntu noble-updates/main amd64 libgd-pixbuf2.0-common all 2.42.10+dfsg-3ubuntu3.2 [8192 B]
Get:2 http://ap-south-1.ec2.archive.ubuntu.com/ubuntu noble/main amd64 libjpeg-turbo8 amd64 2.1.5-2ubuntu2 [150 kB]
Get:3 http://ap-south-1.ec2.archive.ubuntu.com/ubuntu noble/main amd64 libjpeg8 amd64 8c-2ubuntu11 [2148 B]
Get:4 http://ap-south-1.ec2.archive.ubuntu.com/ubuntu noble-updates/main amd64 libdeflate0 amd64 1.19-1build1.1 [43.9 kB]
Get:5 http://ap-south-1.ec2.archive.ubuntu.com/ubuntu noble/main amd64 libjbig0 amd64 2.1-6.ubuntu2 [29.7 kB]
Get:6 http://ap-south-1.ec2.archive.ubuntu.com/ubuntu noble/main amd64 liblrc4 amd64 4.0.0+ds-4ubuntu2 [179 kB]
Get:7 http://ap-south-1.ec2.archive.ubuntu.com/ubuntu noble/main amd64 libsharpuyv0 amd64 1.3.2-0.4build3 [15.8 kB]
Get:8 http://ap-south-1.ec2.archive.ubuntu.com/ubuntu noble/main amd64 libwebp7 amd64 1.3.2-0.4build3 [230 kB]
Get:9 http://ap-south-1.ec2.archive.ubuntu.com/ubuntu noble-updates/main amd64 libtiff6 amd64 4.5.1+git230720-4ubuntu2.4 [199 kB]
Get:10 http://ap-south-1.ec2.archive.ubuntu.com/ubuntu noble-updates/main amd64 libgd-pixbuf2.0-0 amd64 2.42.10+dfsg-3ubuntu3.2 [147 kB]
Get:11 http://ap-south-1.ec2.archive.ubuntu.com/ubuntu noble-updates/main amd64 gtk-update-icon-cache amd64 3.24.41-4ubuntu1.3 [51.9 kB]
Get:12 http://ap-south-1.ec2.archive.ubuntu.com/ubuntu noble/main amd64 hicolor-icon-theme all 0.17-2 [976 B]
Get:13 http://ap-south-1.ec2.archive.ubuntu.com/ubuntu noble/main amd64 humanity-icon-theme all 0.6.16 [1282 kB]
Get:14 http://ap-south-1.ec2.archive.ubuntu.com/ubuntu noble/main amd64 ubuntu-mono all 24.04-0ubuntu1 [151 kB]
Get:15 http://ap-south-1.ec2.archive.ubuntu.com/ubuntu noble/main amd64 adwaita-icon-theme all 46.0-1 [723 kB]
Get:16 http://ap-south-1.ec2.archive.ubuntu.com/ubuntu noble/main amd64 alsal-topology-conf all 1.2.5.1-2 [15.5 kB]
Get:17 http://ap-south-1.ec2.archive.ubuntu.com/ubuntu noble-updates/main amd64 libasound2-data all 1.2.11-lubuntu0.1 [21.1 kB]
Get:18 http://ap-south-1.ec2.archive.ubuntu.com/ubuntu noble-updates/main amd64 libasound2t64 amd64 1.2.11-lubuntu0.1 [399 kB]
Get:19 http://ap-south-1.ec2.archive.ubuntu.com/ubuntu noble-updates/main amd64 alsal-ucm-conf all 1.2.10-lubuntu5.7 [66.4 kB]

i-06628851ba6cf8704 (slavejenkins)
PublicIPs: 13.201.120.76 PrivateIPs: 172.31.39.111

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ubuntu@ip-172-31-39-111:~$ java --version
openjdk 21.0.8 2025-07-15
OpenJDK Runtime Environment (build 21.0.8+9-Ubuntu-0ubuntu124.04.1)
OpenJDK 64-Bit Server VM (build 21.0.8+9-Ubuntu-0ubuntu124.04.1, mixed mode, sharing)
ubuntu@ip-172-31-39-111:~$ 
```

>Install and config in Jenkins ..
>in masterjenkins.

```
openJDK 64-Bit Server VM (build 21.0.8+9-Ubuntu-Ubuntu124.04.1, mixed mode, sharing)
ubuntu@ip-172-31-36-28:~$ sudo wget -O /etc/apt/keyrings/jenkins-keyring.asc https://pkg.jenkins.io/debian-stable/jenkins.io-2023.key
--2025-10-07 16:08:29-- https://pkg.jenkins.io/debian-stable/jenkins.io-2023.key
Resolving pkg.jenkins.io (pkg.jenkins.io)... 151.101.210.133, 2a04:4e42:31::645
Connecting to pkg.jenkins.io (pkg.jenkins.io)|151.101.210.133|:443... connected.
HTTP request sent, awaiting response... 200 OK
Length: 3175 (3.1K) [application/pgp-keys]
Saving to: '/etc/apt/keyrings/jenkins-keyring.asc'

/etc/apt/keyrings/jenkins-keyring. 100%[=====] 3.10K --.-KB/s   in 0s

2025-10-07 16:08:30 (36.2 MB/s) - '/etc/apt/keyrings/jenkins-keyring.asc' saved [3175/3175]

ubuntu@ip-172-31-36-28:~$ i-0c38d9a64b2b7fa6a (masterjenkins)
PublicIPs: 13.234.34.128 PrivateIPs: 172.31.36.28
```

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```
ubuntu@ip-172-31-36-28:~$ 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
ubuntu@ip-172-31-36-28:~$ i-0c38d9a64b2b7fa6a (masterjenkins)
PublicIPs: 13.234.34.128 PrivateIPs: 172.31.36.28
```

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```
ubuntu@ip-172-31-36-28:~$ sudo apt-get update
Hit:1 http://ap-south-1.ec2.archive.ubuntu.com/ubuntu noble InRelease
Hit:2 http://ap-south-1.ec2.archive.ubuntu.com/ubuntu noble-updates InRelease
Hit:3 http://ap-south-1.ec2.archive.ubuntu.com/ubuntu noble-backports InRelease
Ign:4 https://pkg.jenkins.io/debian-stable binary/ InRelease
Get:5 https://pkg.jenkins.io/debian-stable binary/ Release [2044 B]
Get:6 https://pkg.jenkins.io/debian-stable binary/ Release.gpg [833 B]
Hit:7 http://security.ubuntu.com/ubuntu noble-security InRelease
Get:8 https://pkg.jenkins.io/debian-stable binary/ Packages [29.7 kB]
Fetched 32.6 kB in 1s (58.8 kB/s)
Reading package lists... Done
ubuntu@ip-172-31-36-28:~$ i-0c38d9a64b2b7fa6a (masterjenkins)
PublicIPs: 13.234.34.128 PrivateIPs: 172.31.36.28
```

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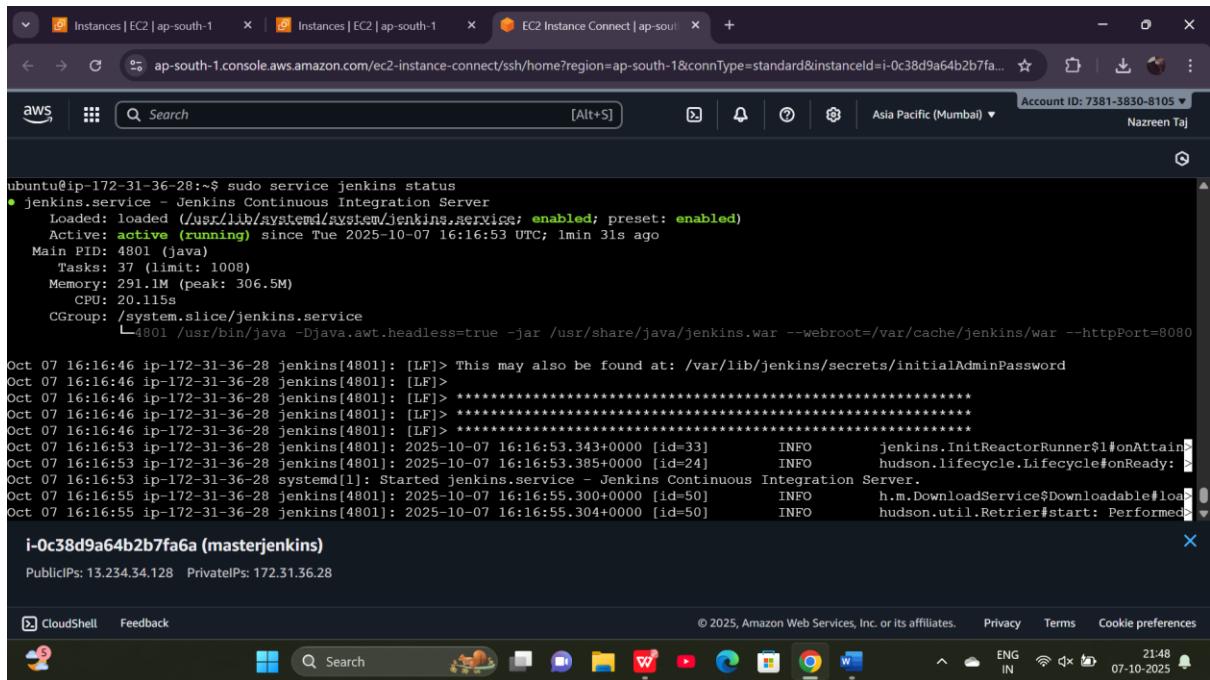
Installing Jenkins in masterjenkins.

```
ubuntu@ip-172-31-36-28:~$ sudo apt-get install jenkins
Reading package lists... Done
Building dependency tree... Done
Reading state information... Done
The following additional 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 41 not upgraded.
Need to get 87.3 MB of archives.
After this operation, 88.4 MB of additional disk space will be used.
Do you want to continue? [Y/n] y
Get:1 http://ap-south-1.ec2.archive.ubuntu.com/ubuntu noble-updates/main amd64 net-tools amd64 2.10-0.lubuntu4.4 [204 kB]
Get:2 https://pkg.jenkins.io/debian-stable binary/ jenkins 2.516.3 [87.1 MB]
Fetched 87.3 MB in 8s (11.2 MB/s)
Selecting previously unselected package net-tools.
(Reading database ... 86468 files and directories currently installed.)
Preparing to unpack .../net-tools_2.10-0.lubuntu4.4_amd64.deb ...
Unpacking net-tools (2.10-0.lubuntu4.4) ...
Selecting previously unselected package jenkins.
Preparing to unpack .../jenkins_2.516.3_all.deb ...
i-0c38d9a64b2b7fa6a (masterjenkins)
PublicIPs: 13.234.34.128 PrivateIPs: 172.31.36.28
```

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ENG IN 21:46 07-10-2025

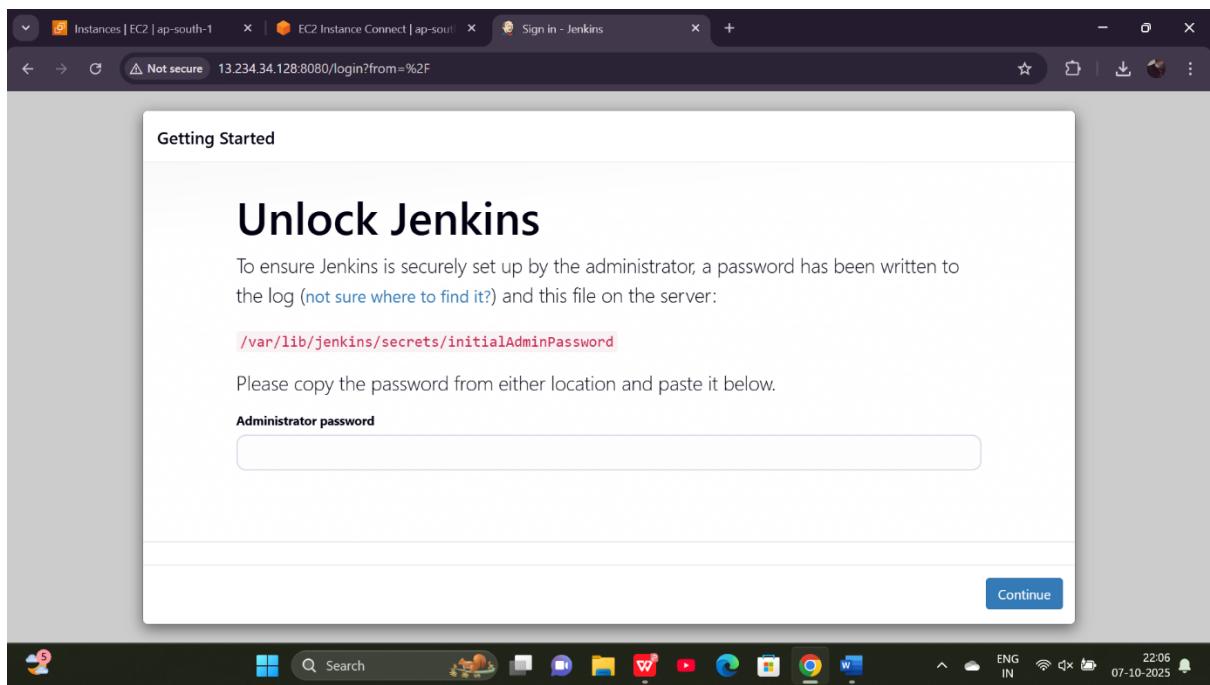


```
ubuntu@ip-172-31-36-28:~$ sudo service jenkins status
● jenkins.service - Jenkins Continuous Integration Server
  Loaded: loaded (/usr/lib/systemd/system/jenkins.service; enabled; preset: enabled)
  Active: active (running) since Tue 2025-10-07 16:16:53 UTC; 1min 31s ago
    Main PID: 4801 (java)
      Tasks: 37 (limit: 1008)
     Memory: 291.1M (peak: 306.5M)
        CPU: 20.115s
       CGroup: /system.slice/jenkins.service
               └─4801 /usr/bin/java -Djava.awt.headless=true -jar /usr/share/java/jenkins.war --webroot=/var/cache/jenkins/war --httpPort=8080

Oct 07 16:16:46 ip-172-31-36-28 jenkins[4801]: [LF]> This may also be found at: /var/lib/jenkins/secrets/initialAdminPassword
Oct 07 16:16:46 ip-172-31-36-28 jenkins[4801]: [LF]>
Oct 07 16:16:46 ip-172-31-36-28 jenkins[4801]: [LF]> ****
Oct 07 16:16:53 ip-172-31-36-28 jenkins[4801]: 2025-10-07 16:16:53.343+0000 [id=33] INFO jenkins.InitReactorRunner$1#onAttain
Oct 07 16:16:53 ip-172-31-36-28 jenkins[4801]: 2025-10-07 16:16:53.385+0000 [id=24] INFO hudson.lifecycle.Lifecycle#onReady:
Oct 07 16:16:53 ip-172-31-36-28 systemd[1]: Started jenkins.service - Jenkins Continuous Integration Server.
Oct 07 16:16:55 ip-172-31-36-28 jenkins[4801]: 2025-10-07 16:16:55.300+0000 [id=50] INFO h.m.DownloadService$Downloadable#load
Oct 07 16:16:55 ip-172-31-36-28 jenkins[4801]: 2025-10-07 16:16:55.304+0000 [id=50] INFO hudson.util.Retriger#start: Performed
```

i-0c38d9a64b2b7fa6a (masterjenkins)

PublicIPs: 13.234.34.128 PrivateIPs: 172.31.36.28



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

```
ubuntu@ip-172-31-36-28:~$ sudo cat /var/lib/jenkins/secrets/initialAdminPassword
3ia28a6105674d8f8340f8926f895723
```

The screenshot shows the Jenkins 'Getting Started' page. At the top, it says 'Unlock Jenkins'. Below that, it says: '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'. A text input field is provided for pasting the password, with placeholder text '.....'. A 'Continue' button is at the bottom right.

The screenshot shows the Jenkins 'Getting Started' page. It displays a grid of available Jenkins plugins. The columns are labeled 'Folders', 'Formatter', and 'Other'. The 'Folders' column includes Timestamper, Pipeline, Git, and Email Extension. The 'Formatter' column includes Workspace Cleanup, GitHub Branch Source, SSH Build Agents, and Mailer. The 'Other' column includes Ant, Pipeline: GitHub Groovy Libraries, Matrix Authorization Strategy, Dark Theme, and Gradle, Pipeline Graph View, LDAP, and Jenkins API. A tooltip for 'Jenkins API' lists dependencies: Ionicons API, Folders, OWASP Markup Formatter, ASM API, and JSON Path API. The Jenkins version '2.516.3' is shown at the bottom.

The screenshot shows the Jenkins Setup Wizard - Instance Configuration step. The title bar says "Setup Wizard - Jenkins". The main content area is titled "Instance Configuration". It displays the "Jenkins URL:" field with the value "http://13.234.34.128:8080/". Below the field is a descriptive text: "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." A note below states: "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." At the bottom right of the configuration window are two buttons: "Not now" and "Save and Finish". The status bar at the bottom indicates "Jenkins 2.516.3".

The screenshot shows the Jenkins Setup Wizard - Jenkins is ready! step. The title bar says "Setup Wizard - Jenkins". The main content area is titled "Jenkins is ready!". It displays the message "Your Jenkins setup is complete." and a blue "Start using Jenkins" button. At the bottom right of the configuration window are two buttons: "Not now" and "Save and Finish". The status bar at the bottom indicates "Jenkins 2.516.3".

The screenshot shows the Jenkins dashboard. At the top, there are three tabs: 'Instances | EC2 | ap-south-1', 'EC2 Instance Connect | ap-south-1', and 'Dashboard - Jenkins'. The 'Dashboard - Jenkins' tab is active. Below the tabs, the address bar shows 'Not secure 13.234.34.128:8080'. On the left sidebar, there are links for 'New Item', 'Build History', 'Build Queue' (which shows 'No builds in the queue.'), and 'Build Executor Status' (which shows '0/2'). The main content area has a heading 'Welcome to Jenkins!'. It says, '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, there's a button 'Create a job' and a link '+'. Underneath, there's a section titled 'Set up a distributed build' with links for 'Set up an agent', 'Configure a cloud', and 'Learn more about distributed builds'.

The screenshot shows the 'New Item' creation dialog. The title bar says 'New Item - Jenkins' and the address bar shows '13.234.34.128:8080/newJob'. The main form has a field 'Enter an item name' containing 'jendevop'. Below it, a section 'Select an item type' lists three options: 'Freestyle project' (selected), 'Pipeline', and 'Multi-configuration project'. Each option has a description and a small icon. At the bottom of the dialog is a blue 'OK' button. The taskbar at the bottom of the screen shows various application icons and the date '07-10-2025'.

Configure

General

Description

Plain text [Preview](#)

Discard old builds ?

GitHub project

This project is parameterized ?

Throttle builds ?

Save **Apply**

Enabled

This screenshot shows the 'General' configuration page for a Jenkins job named 'jendevop'. The 'Enabled' checkbox is checked. The 'Description' field is empty. There are four checkboxes at the bottom: 'Discard old builds', 'GitHub project', 'This project is parameterized', and 'Throttle builds'. At the bottom are 'Save' and 'Apply' buttons.

Configure

Source Code Management

Connect and manage your code repository to automatically pull the latest code for your builds.

None

Git ?

Triggers

Set up automated actions that start your build based on specific events, like code changes or scheduled times.

Trigger builds remotely (e.g., from scripts) ?

Build after other projects are built ?

Build periodically ?

GitHub hook trigger for GITScm polling ?

Poll SCM ?

Save **Apply**

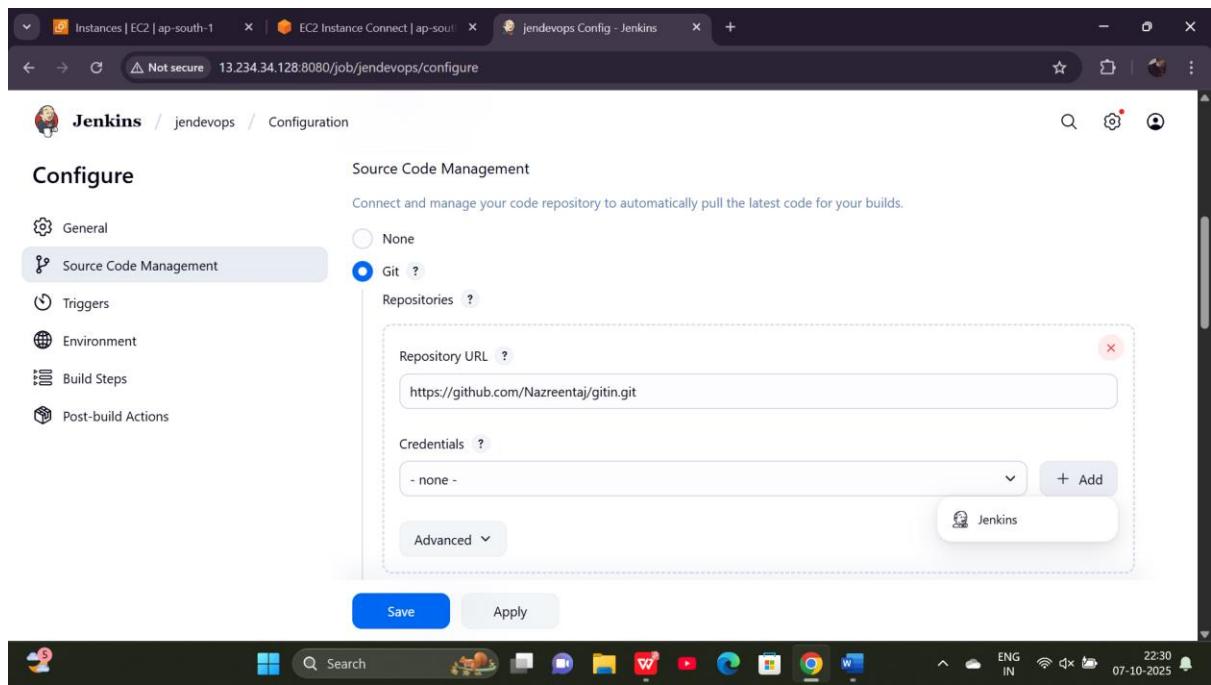
This screenshot shows the 'Source Code Management' configuration page for a Jenkins job named 'jendevops'. It shows the 'None' option selected. Below it, the 'Triggers' section is expanded, listing several triggers: 'Trigger builds remotely', 'Build after other projects are built', 'Build periodically', 'GitHub hook trigger for GITScm polling', and 'Poll SCM'. At the bottom are 'Save' and 'Apply' buttons.

The screenshot shows the Jenkins configuration interface for a job named "jendevops". The left sidebar lists "General", "Source Code Management", "Triggers", "Environment", "Build Steps", and "Post-build Actions". The "Source Code Management" tab is selected. The main content area is titled "Source Code Management" and contains instructions: "Connect and manage your code repository to automatically pull the latest code for your builds." Below this, there are two radio button options: "None" and "Git". The "Git" option is selected. A "Repositories" section follows, containing a "Repository URL" input field which is empty and has a red error message: "Please enter Git repository.". There is also a "Credentials" dropdown menu set to "- none -" and a "+ Add" button. At the bottom are "Save" and "Apply" buttons.

This screenshot shows the same Jenkins configuration page as the previous one, but with the "Repository URL" field filled with the value "https://github.com/Nazreentaj/gitin.git". The rest of the interface remains the same, including the error message "Please enter Git repository." and the "Save" and "Apply" buttons at the bottom.

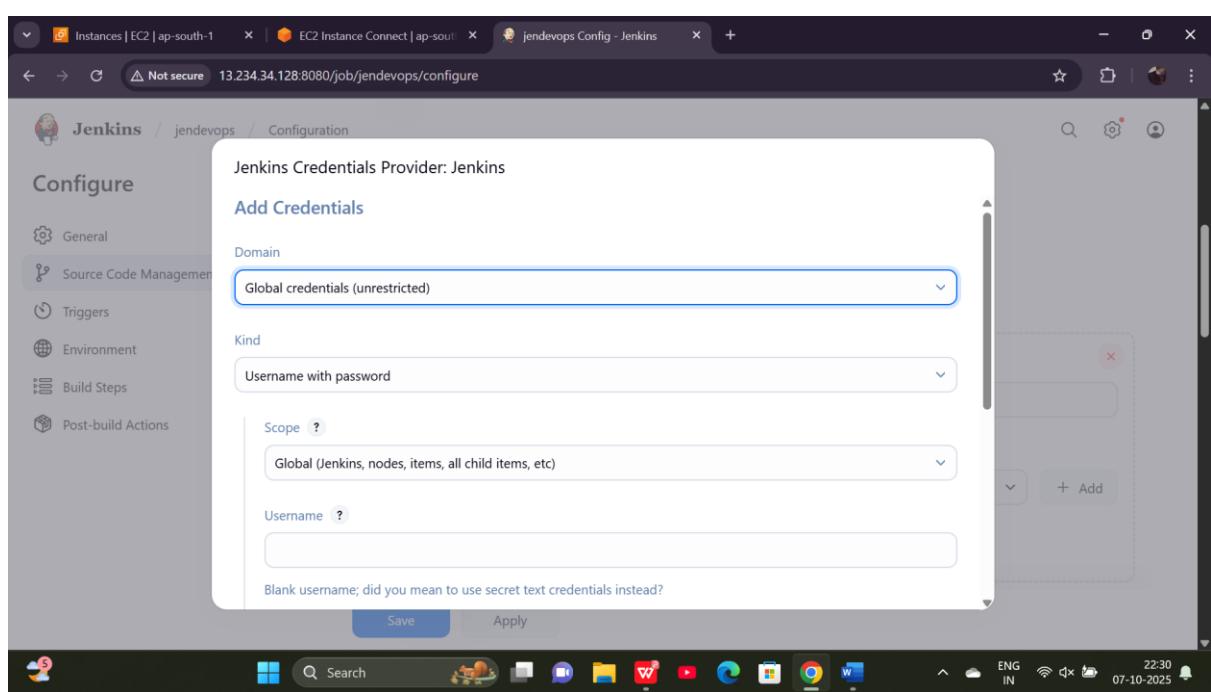
Screenshot of Jenkins Configuration - Source Code Management

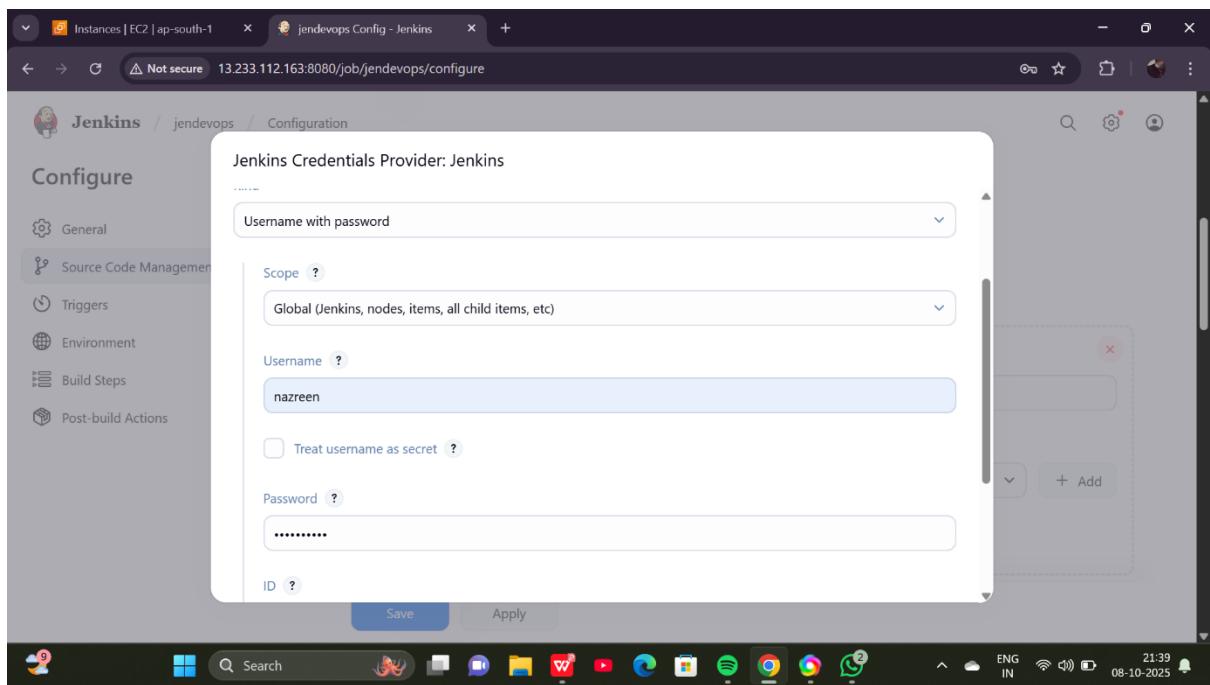
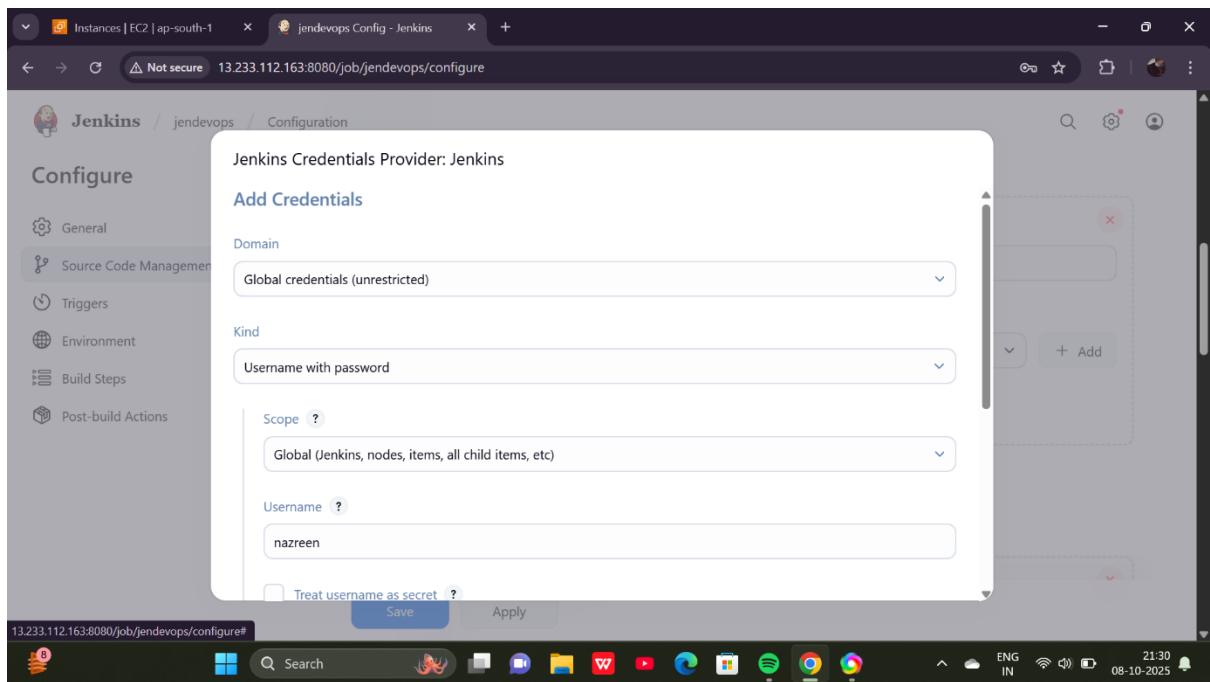
The screenshot shows the Jenkins configuration interface for a job named "jendevops". The left sidebar lists "General", "Source Code Management", "Triggers", "Environment", "Build Steps", and "Post-build Actions". The "Source Code Management" section is selected, showing "Git" as the provider. Under "Git", the "Repository URL" is set to "https://github.com/Nazreentaj/gitin.git". The "Credentials" dropdown is set to "- none -". A "Jenkins" credential entry is visible in the list. At the bottom are "Save" and "Apply" buttons.



Screenshot of Jenkins Configuration - Jenkins Credentials Provider: Jenkins

The screenshot shows the Jenkins configuration interface for a job named "jendevops". The left sidebar lists "General", "Source Code Management", "Triggers", "Environment", "Build Steps", and "Post-build Actions". The "Source Code Management" section is selected, showing "Jenkins Credentials Provider: Jenkins". The "Add Credentials" form is open, showing "Global credentials (unrestricted)" selected in the "Domain" dropdown. The "Kind" dropdown is set to "Username with password". The "Scope" dropdown is set to "Global (Jenkins, nodes, items, all child items, etc)". The "Username" field is empty. A note at the bottom says "Blank username; did you mean to use secret text credentials instead?". At the bottom are "Save" and "Apply" buttons.





The screenshot shows the Jenkins configuration interface for a job named "jendevops". The left sidebar lists "General", "Source Code Management", "Triggers", "Environment", "Build Steps", and "Post-build Actions". The "Source Code Management" tab is selected, showing a "Git" configuration. The "Repository URL" is set to "https://github.com/Nazreentaj/gitin.git" and the "Credentials" dropdown contains "nazreen/*****". A red notification bar at the bottom left says "Credentials creation failed". At the bottom are "Save" and "Apply" buttons.

The screenshot shows the Jenkins configuration interface for "Branches to build". The left sidebar is identical to the previous screen. The main panel shows a "Branch Specifier" field containing "/master" and a "Repository browser" dropdown set to "(Auto)". At the bottom are "Save" and "Apply" buttons.

The screenshot shows the Jenkins configuration interface for a job named "jendevops". The left sidebar lists "General", "Source Code Management", "Triggers", "Environment", "Build Steps" (which is selected and highlighted in grey), and "Post-build Actions". The main content area is titled "Configure" and "Build Steps". It includes a sub-header "Automate your build process with ordered tasks like code compilation, testing, and deployment." and a "Add build step" dropdown menu. The "Execute shell" option is selected and highlighted in grey. Other options in the dropdown include "Execute Windows batch command", "Invoke Ant", "Invoke Gradle script", "Invoke top-level Maven targets", "Run with timeout", and "Set build status to 'pending' on GitHub commit". The bottom right corner of the screen shows the Jenkins version "Jenkins 2.516.3".

This screenshot continues from the previous one, showing the "Execute shell" build step configuration. The "Command" field is empty, indicated by a single vertical bar character. Below the command field are "Advanced" and "Save" buttons. The rest of the interface and system tray are identical to the first screenshot.

The screenshot shows the Jenkins configuration interface for a job named "jendevops". On the left sidebar, under "Build Steps", the "Execute shell" step is selected, showing the command:

```
javac Welcome.java  
java Welcome
```

Below the command input field are "Save" and "Apply" buttons.

The screenshot shows the Jenkins status page for the "jendevops" job. The left sidebar includes options like "Status", "Changes", "Workspace", "Build Now", "Configure", "Delete Project", "Rename", and "Credentials". The main area displays the "Permalinks" section and a "Builds" section which states "No builds".

The screenshot shows the Jenkins interface for the 'jendevops' job. The top navigation bar includes tabs for 'Instances | EC2 | ap-south-1', 'jendevops - Jenkins', 'can u say what to do how my s...', and 'Nazreentaj/gitin'. The main content area displays the 'Status' tab for the 'jendevops' job. A prominent green banner at the top indicates a 'Build scheduled'. Below this, there are several action buttons: 'Changes', 'Workspace', 'Build Now', 'Configure', 'Delete Project', 'Rename', and 'Credentials'. On the right side, there's a 'Permalinks' section and a 'Add description' button. The bottom section shows a 'Builds' table with one entry: '#1 1 min ago'. The task bar at the bottom shows various application icons and the date/time as 08-10-2025.

This screenshot shows the same Jenkins interface for the 'jendevops' job, but now it displays a failed build. A red 'X' icon is present next to the job name 'jendevops'. The 'Builds' table shows four entries, all of which are marked with a red 'X' and labeled 'Last failed build (#3), 14 sec ago'. The task bar at the bottom shows the date/time as 08-10-2025.