

Jenkins Task

Task Description:

Launch jenkins and explore creating projects and users

➔ Step 1: On your EC2 Update packages and install Java

```
ubuntu@ip-172-31-46-0:~$ sudo apt install openjdk-17-jdk -y
Reading package lists... Done
Building dependency tree... Done
Reading state information... Done
The following additional packages will be installed:
  adwaita-icon-theme alsa-topology-conf alsa-ucm-conf at-spi2-common at-spi2-core ca-certificates-java dconf-gsettings-backend dconf-service fontconfig
  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 libcups2t64 libdatriel libdconf1 libdeflate0 libdrm-amdgpu1 libdrm-intel1 libfontconfig1
  libgail-common libgail18t64 libgdm1 libgdk-pixbuf-2.0-0 libgdk-pixbuf2.0-bin libgdk-pixbuf2.0-common libgif7 libgl1 libgl1-mesa-dri libglvnd0 libglx-mesa0 libglx0
  libgraphite2-3 libgtk2.0-0t64 libgtk2.0-bin libgtk2.0-common libharfbuzz0b libice-dev libice6 libjbig0 libjpeg-turbo8 libjpeg8 liblcms2-2 liblerc4 libllvm19
  libpango-1.0-0 libpangocairo-1.0-0 libpangoft2-1.0-0 libpciaccess0 libpcsc-lite libpixman-1-0 libpthread-stubs0-dev librsvg2-2 librsvg2-common libsharpyuv0 libsm-dev
  libsm6 libthai-data libthai0 libtiff6 libvulkan1 libwayland-client0 libwayland-server0 libwebp7 libx11-dev libx11-xcb1 libxau-dev libxaw7 libxcb-dri3-0 libxcb-glx0
  libxcb-present0 libxcb-randr0 libxcb-render0 libxcb-shape0 libxcb-shm0 libxcb-sync1 libxcb-xf86vm0 libxcb1-dev libxcomposite1 libxcursor1 libxdamage1 libxdmcp-dev
  libxfixes3 libxft2 libxi6 libxinerama1 libxkbfile1 libxmu6 libxpm4 libxrandr2 libxrender1 libxshmfence1 libxt-dev libxt6t64 libxtst6 libxv1 libxxf86dga1 libxxf86vm1
  mesa-libgallium mesa-vulkan-drivers openjdk-17-jdk-headless openjdk-17-jre openjdk-17-jre-headless session-migration ubuntu-mono x11-common x11-utils x11proto-dev
  xorg-sgml-doctools xtrans-dev
Suggested packages:
  default-jre alsa-utils libasound2-plugins cups-common gvfs libice-doc liblcms2-utils pcsd librsvg2-bin libsm-doc libx11-doc libxcb-doc libxt-doc openjdk-17-demo
  openjdk-17-source visualvm libnss-mdns fonts-ipafont-gothic fonts-ipafont-mincho fonts-wqy-microhei | fonts-wqy-zenhei fonts-indic mesa-utils
Recommended packages:
  luit
The following NEW packages will be installed:
```

➔ Step 2: Add Jenkins Repository Key

```
ubuntu@ip-172-31-46-0:~$ curl -fsSL https://pkg.jenkins.io/debian-stable/jenkins.io-2023.key | sudo tee \
  /usr/share/keyrings/jenkins-keyring.asc > /dev/null
```

➔ Step 3: Add Jenkins repo to sources

```
ubuntu@ip-172-31-46-0:~$ 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
```

➔ Step 4: Install Jenkins

```
ubuntu@ip-172-31-46-0:~$ sudo apt install jenkins -y
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 0 not upgraded.
Need to get 87.3 MB of archives.
After this operation, 88.4 MB of additional disk space will be used.
Get:1 http://ap-south-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 2.516.2 [87.1 MB]
Fetched 87.3 MB in 3s (33.9 MB/s)
Selecting previously unselected package net-tools.
(Reading database ... 118829 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_2.516.2_all.deb ...
Unpacking jenkins (2.516.2) ...
```

➔ Step 5: Start and enable Jenkins

```

ubuntu@ip-172-31-46-0:~$ sudo systemctl enable jenkins
Synchronizing state of jenkins.service with SysV service script with /usr/lib/systemd/systemd-sysv-install.
Executing: /usr/lib/systemd/systemd-sysv-install enable jenkins
ubuntu@ip-172-31-46-0:~$ sudo systemctl start jenkins
ubuntu@ip-172-31-46-0:~$ sudo systemctl status jenkins
● jenkins.service - Jenkins Continuous Integration Server
   Loaded: loaded (/usr/lib/systemd/system/jenkins.service; enabled; preset: enabled)
   Active: active (running) since Thu 2025-08-28 13:36:11 UTC; 45s ago
     Main PID: 8915 (java)
       Tasks: 42 (limit: 1121)
    Memory: 290.1M (peak: 299.2M)
       CPU: 18.151s
    CGroup: /system.slice/jenkins.service
            └─8915 /usr/bin/java -Djava.awt.headless=true -jar /usr/share/java/jenkins.war --webroot=/var/cache/jenkins/war --httpPort=8080

```


➔ Step 6: Get initial Jenkins password (keep it copied)




```

ubuntu@ip-172-31-46-0:~$ sudo cat /var/lib/jenkins/secrets/initialAdminPassword


```

➔ Step 7: Access the 8080 port from your EC2 security groups and open the page using that port. Paste the password and start creating users and jobs.


Jenkins

+ New Item

 Build History

Build Queue

No builds in the queue.

Build Executor Status

0/2

Welcome to Jenkins!

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.

Start building your software project


Create a job




Set up a distributed build

Set up an agent

Configure a cloud

Learn more about distributed builds




Jenkins
/ Manage Jenkins
/ Jenkins' own user database

+ Create User

Users 2

These users can log into Jenkins. This is a sub set of [this list](#), which also contains auto-created users who really just made some commits on some projects and have no direct Jenkins access.

User ID	Name
 Pranit162	Pranit Pisal
 Wanted162	Wanted wanted

Status

</>

Changes

📁

Workspace

▶

Build Now

⚙️

Configure

🗑️

Delete Project

✏️

Rename

Builds


⋮

🔗

New_Project

Shell commands

Permalinks

 Edit description