Jenkins Task

Task Description:

Launch jenkins and explore creating projects and users

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

```
⇒ 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

Reading state information... 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-colient3

libavahi-common-data libavahi-common-data libavahi-common3 libcairo-gobject2 libcairo2 libcups2t64 libdatrie1 libdcom-lib libdeflate0 libdra-madpgul libdra-mitel1 libfontconfig1

libgail-common libgail18t64 libgbm1 libgdk-pixbuf-2.0-0 libgdk-pixbuf2.0-bin libgdk-pixbuf2.0-common libgif7 libgl1 libgl1-mesa-dri libglvnd0 libglx-mesa0 libgraphite2-3 libgtx2.0-bin libgtx2.0-bin libgtx2.0-bin libgtx2-bin-1-0-librayper-1-0-0 libpangoft2-1-0-0 libpangoft2-1-0-0 libpangoft2-1-0-0 libpangoft2-1-0-0 libpangort2-1-0-0 libpangort2-1-0-0 libpangort2-1-0-0 libpangort2-1-0-0 libpangort2-1-0-0 libpangort2-1-0-0 libpangort2-1-0-0 librayper-1-0-0 librayper-
         default-jre alsa-utils libasound2-plugins cups-common gvfs libice-doc liblcms2-utils pcscd 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-wgy-microhei | fonts-wgy-zenhei fonts-indic mesa-utils
                                              nded packages:
```

→ 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:
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

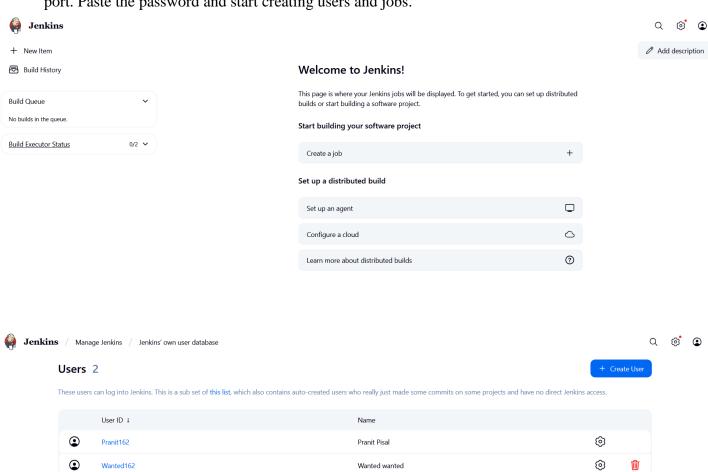
CGroup: /system.slice/jenkins.service

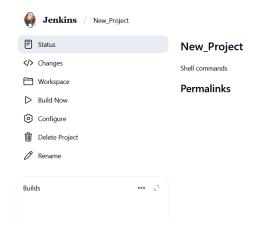
-8915 /usr/bin/java -Djava.awt.headless=true -jar /usr/share/java/jenkins.war --webroot=/var/cache/jenkins/war --httpPort=808
```

→ 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.





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Edit description