

Jenkins Implementation

Name: Jayprasanth S

Ace ID: ACE11697

1. I create aws instance to demo run of Jenkins

The screenshot shows the AWS Management Console interface for launching an EC2 instance. The breadcrumb navigation indicates the path: EC2 > Instances > Launch an instance. The main heading is 'Launch an instance' with an 'Info' link. Below this, a brief description of Amazon EC2 is provided. The 'Name and tags' section has a text input field for the instance name, currently showing 'e.g. My Web Server', and a link to 'Add additional tags'. The 'Application and OS Images (Amazon Machine Image)' section includes a description of an AMI and a search/browse button. The 'Summary' panel on the right lists the configuration: 'Number of instances' (1), 'Software Image (AMI)' (Amazon Linux 2023.3.2...), 'Virtual server type (instance type)' (t2.micro), 'Firewall (security group)' (New security group), and 'Storage (volumes)' (1 volume(s) - 8 GiB). At the bottom of the summary panel are 'Cancel' and 'Launch instance' buttons, along with a 'Review commands' link.

2. Give name of our instance

This screenshot shows the same AWS 'Launch an instance' page, but with the instance name 'JenkinsDemo' entered in the 'Name' field. The 'Software Image (AMI)' has been changed to 'Canonical, Ubuntu, 22.04 LTS, ...'. The other configuration details in the summary panel remain the same: 1 instance, t2.micro type, new security group, and 1 volume of 8 GiB. The 'Launch instance' button is still present at the bottom of the summary panel.

3. Choose which OS we want like ubuntu

The screenshot shows the AWS Management Console interface for selecting an Amazon Machine Image (AMI). The 'Application and OS Images (Amazon Machine Image)' section is active, displaying a search bar and a 'Quick Start' section with various OS options. 'Ubuntu' is highlighted. The 'Summary' panel on the right provides a overview of the selected configuration: 1 instance, Canonical Ubuntu 22.04 LTS AMI (ami-03f4878755434977f), t2.micro instance type, new security group, and 1 volume of 8 GiB. The 'Launch instance' button is prominently displayed.

4. Choose which architecture we want and instance type

This screenshot displays the detailed configuration for the selected AMI. The 'Amazon Machine Image (AMI)' section shows the Ubuntu Server 22.04 LTS (HVM), SSD Volume Type with AMI ID ami-03f4878755434977f. The 'Architecture' is set to '64-bit (x86)'. The 'Instance type' section shows 't2.micro' as the selected instance type. The 'Summary' panel on the right confirms the configuration: 1 instance, Canonical Ubuntu 22.04 LTS AMI, t2.micro instance type, new security group, and 1 volume of 8 GiB. The 'Launch instance' button is visible at the bottom right.

5. Create key pair

The screenshot shows the AWS 'Create key pair' dialog box. The 'Key pair name' field is empty. The 'Key pair type' section has two options: 'RSA' (selected) and 'ED25519'. The 'Private key file format' section has two options: '.pem' (selected) and '.ppk'. The 'Create key pair' button is highlighted in orange.

Create key pair

Key pair name
Key pairs allow you to connect to your instance securely.
Enter key pair name
The name can include up to 255 ASCII characters. It can't include leading or trailing spaces.

Key pair type

☒ RSA
RSA encrypted private and public key pair

☐ ED25519
ED25519 encrypted private and public key pair

Private key file format

☒ .pem
For use with OpenSSH

☐ .ppk
For use with PuTTY

Cancel Create key pair

6. Choose RSA and .ppk

The screenshot shows the AWS 'Create key pair' dialog box with the 'Key pair name' field filled with 'jenkins'. The 'Key pair type' is 'RSA' and the 'Private key file format' is '.ppk'. A warning message is displayed at the bottom: 'When prompted, store the private key in a secure and accessible location on your computer. You will need it later to connect to your instance. Learn more'. The 'Create key pair' button is highlighted in orange.

Create key pair

Key pair name
Key pairs allow you to connect to your instance securely.
jenkins
The name can include up to 255 ASCII characters. It can't include leading or trailing spaces.

Key pair type

☒ RSA
RSA encrypted private and public key pair

☐ ED25519
ED25519 encrypted private and public key pair

Private key file format

☐ .pem
For use with OpenSSH

☒ .ppk
For use with PuTTY

⚠ When prompted, store the private key in a secure and accessible location on your computer. You will need it later to connect to your instance. [Learn more](#)

Cancel Create key pair

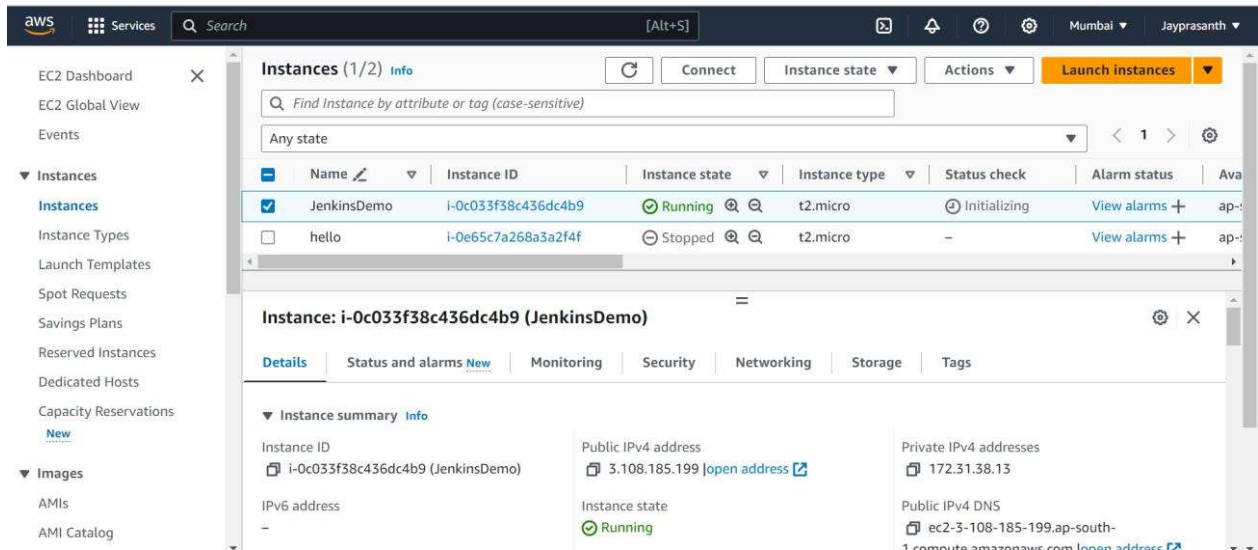
7. Edit network, to give all TCP

The screenshot shows the 'Network settings' page of the AWS 'Launch instance' wizard. The 'VPC' dropdown is set to 'vpc-0be070192bce98c04 (default)'. The 'Subnet' dropdown is set to 'No preference'. The 'Auto-assign public IP' dropdown is set to 'Enable'. Under 'Firewall (security groups)', the 'Create security group' radio button is selected. The 'Security group name' field contains 'launch-wizard-5'. A summary panel on the right shows 'Number of instances' as 1, 'Software Image (AMI)' as 'Canonical, Ubuntu, 22.04 LTS', 'Virtual server type (instance type)' as 't2.micro', and 'Firewall (security group)' as 'New security group'. At the bottom right, there are 'Cancel' and 'Launch instance' buttons.

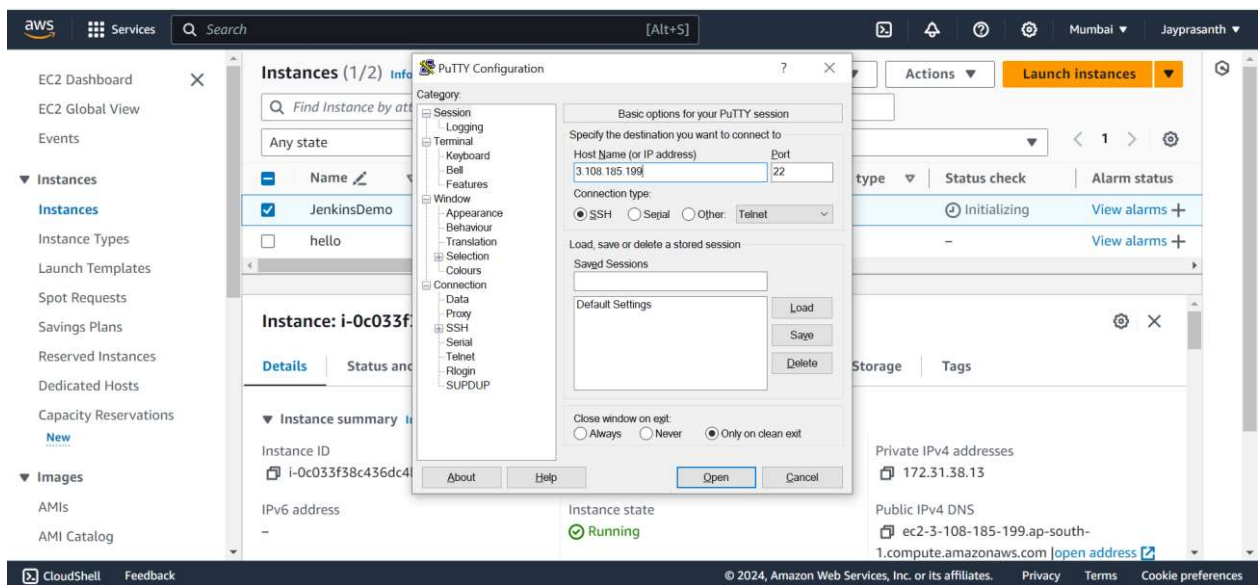
8. It successfully launched.

The screenshot shows the 'Success' page of the AWS 'Launch instance' wizard. A green banner at the top says 'Success' and 'Successfully initiated launch of instance (i-0c033f38c436dc4b9)'. Below this, the 'Launch log' section shows four steps: 'Initializing requests', 'Creating security groups', 'Creating security group rules', and 'Launch initiation', all marked as 'Succeeded'. At the bottom, the 'Next Steps' section has a search bar with the placeholder text 'What would you like to do next with this instance, for example "create alarm" or "create backup"'. A pagination bar at the bottom right shows a sequence of numbers from 1 to 6, with 1 being the active page.

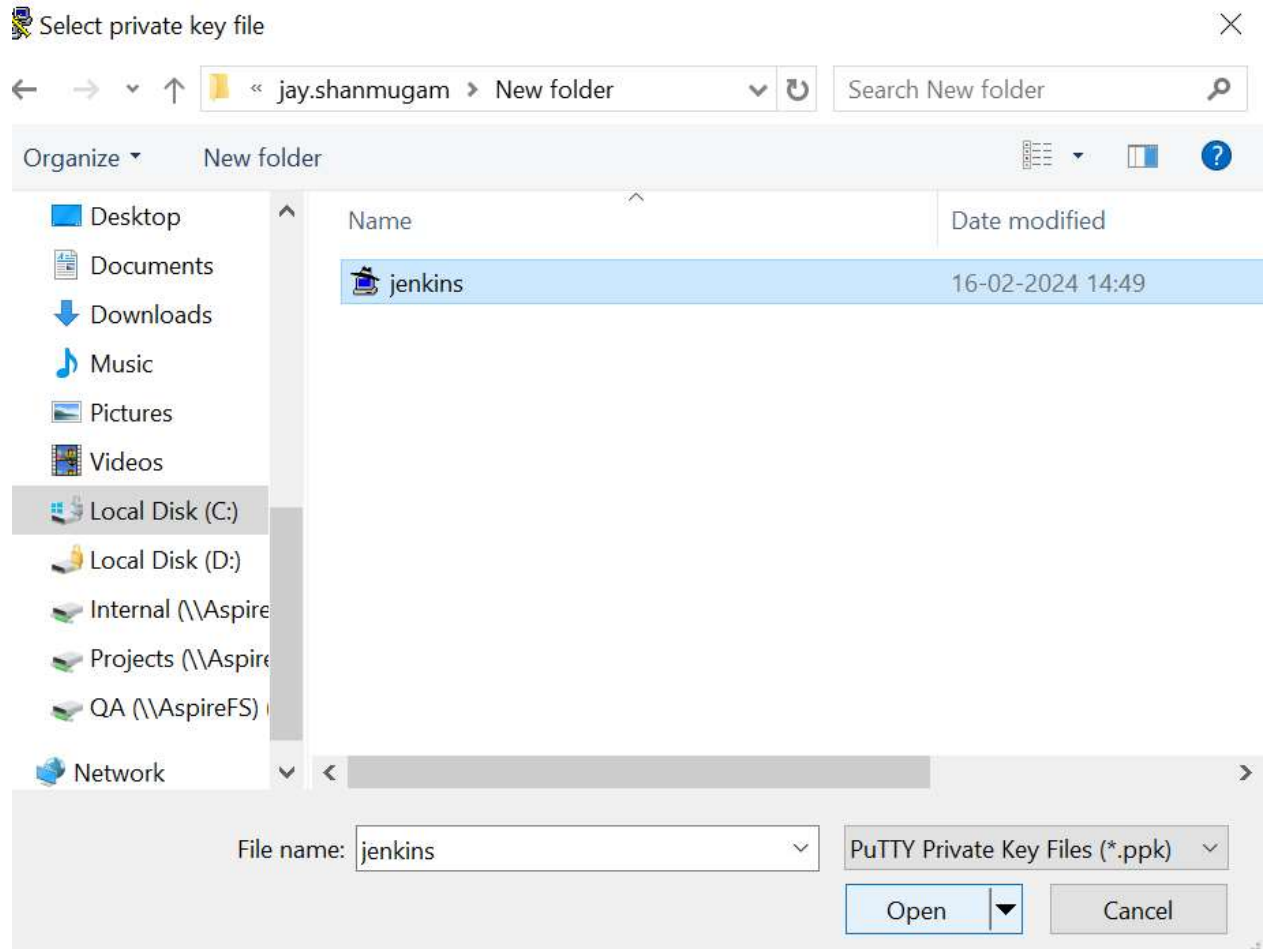
9. Select the instance and click connect for aws console

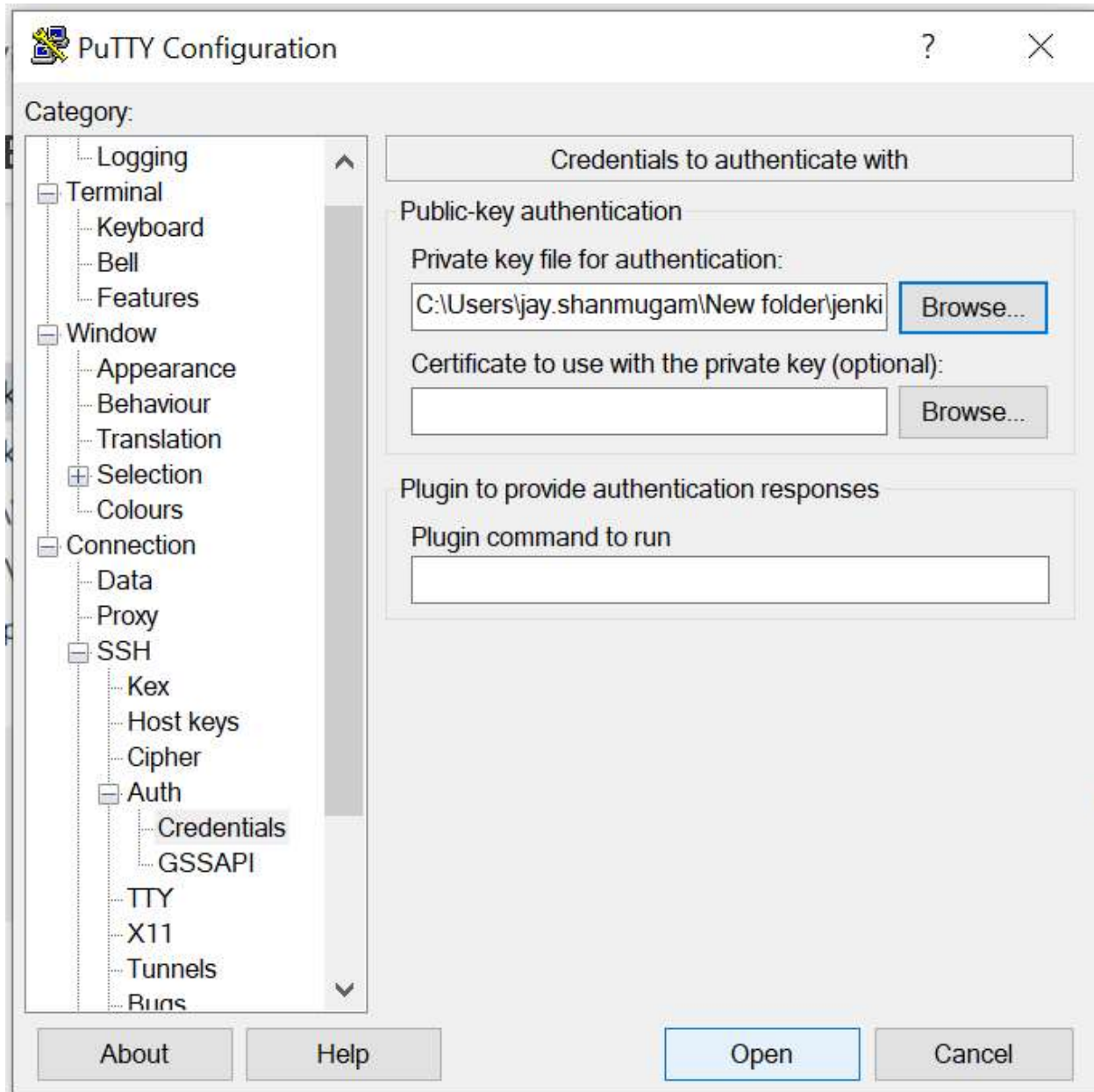


10. Open putty, and paste the public ip of instance.

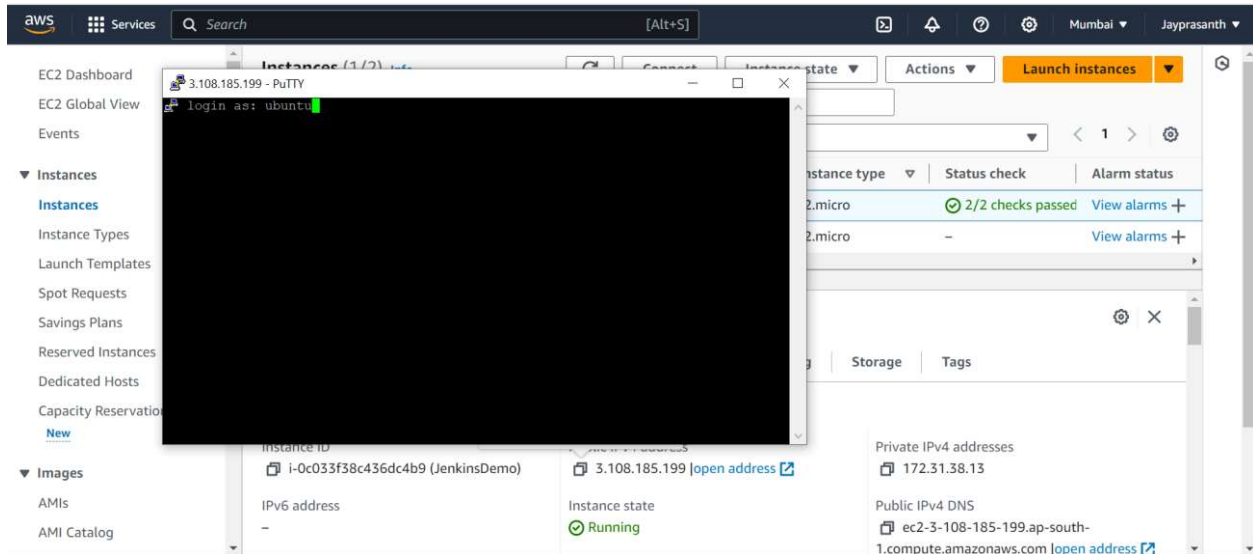


11. Choose key pair to connect

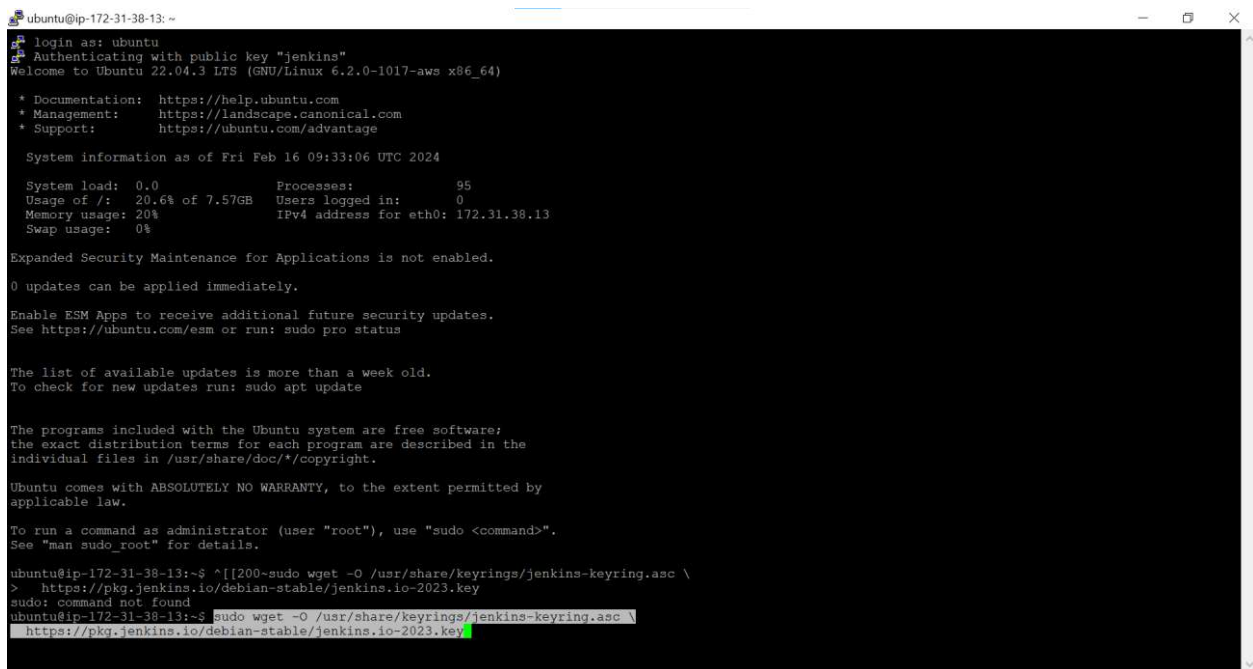




13. Give ubuntu as login



14. `sudo wget -O /usr/share/keyrings/jenkins-keyring.asc \`
`https://pkg.jenkins.io/debian-stable/jenkins.io-2023.key`



15.


```

See "man sudo_root" for details.
ubuntu@ip-172-31-38-13:~$ ^[[200-sudo wget -O /usr/share/keyrings/jenkins-keyring.asc \
> https://pkg.jenkins.io/debian-stable/jenkins.io-2023.key
sudo: command not found
ubuntu@ip-172-31-38-13:~$ sudo wget -O /usr/share/keyrings/jenkins-keyring.asc \
https://pkg.jenkins.io/debian-stable/jenkins.io-2023.key
--2024-02-16 09:35:22-- https://pkg.jenkins.io/debian-stable/jenkins.io-2023.key
Resolving pkg.jenkins.io (pkg.jenkins.io)... 151.101.154.133, 2a04:4e42:24::645
Connecting to pkg.jenkins.io (pkg.jenkins.io)[151.101.154.133]:443... connected.
HTTP request sent, awaiting response... 200 OK
Length: 3175 (3.1K) [application/pgp-keys]
Saving to: '/usr/share/keyrings/jenkins-keyring.asc'

/usr/share/keyrings/jenkins-keyring.asc 100%[=====>] 3.10K --.-KB/s in 0s

2024-02-16 09:35:22 (40.7 MB/s) - '/usr/share/keyrings/jenkins-keyring.asc' saved [3175/3175]

ubuntu@ip-172-31-38-13:~$

```

16. `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`

```

ubuntu@ip-172-31-38-13:~$ 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

```

17. `sudo apt-get update`

```

ubuntu@ip-172-31-38-13:~$ sudo apt-get update
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-172-31-38-13:~$ ^[[200-sudo wget -O /usr/share/keyrings/jenkins-keyring.asc \
> https://pkg.jenkins.io/debian-stable/jenkins.io-2023.key
sudo: command not found
ubuntu@ip-172-31-38-13:~$ sudo wget -O /usr/share/keyrings/jenkins-keyring.asc \
https://pkg.jenkins.io/debian-stable/jenkins.io-2023.key
--2024-02-16 09:35:22-- https://pkg.jenkins.io/debian-stable/jenkins.io-2023.key
Resolving pkg.jenkins.io (pkg.jenkins.io)... 151.101.154.133, 2a04:4e42:24::645
Connecting to pkg.jenkins.io (pkg.jenkins.io)[151.101.154.133]:443... connected.
HTTP request sent, awaiting response... 200 OK
Length: 3175 (3.1K) [application/pgp-keys]
Saving to: '/usr/share/keyrings/jenkins-keyring.asc'

/usr/share/keyrings/jenkins-keyring.asc 100%[=====>] 3.10K --.-KB/s in 0s

2024-02-16 09:35:22 (40.7 MB/s) - '/usr/share/keyrings/jenkins-keyring.asc' saved [3175/3175]

ubuntu@ip-172-31-38-13:~$ 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
ubuntu@ip-172-31-38-13:~$ sudo apt-get update

```

18. `sudo apt update`

```
ubuntu@ip-172-31-38-13:~$ sudo apt update
Get:2 http://ap-south-1.ec2.archive.ubuntu.com/ubuntu jammy-updates InRelease [119 kB]
Get:3 http://ap-south-1.ec2.archive.ubuntu.com/ubuntu jammy-backports InRelease [109 kB]
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]
Get:7 http://security.ubuntu.com/ubuntu jammy-security InRelease [110 kB]
Get:8 http://ap-south-1.ec2.archive.ubuntu.com/ubuntu jammy/universe amd64 Packages [14.1 MB]
Get:9 http://ap-south-1.ec2.archive.ubuntu.com/ubuntu jammy/universe Translation-en [5652 kB]
Get:10 http://ap-south-1.ec2.archive.ubuntu.com/ubuntu jammy/universe amd64 c-n-f Metadata [286 kB]
Get:11 http://ap-south-1.ec2.archive.ubuntu.com/ubuntu jammy/multiverse amd64 Packages [217 kB]
Get:12 http://ap-south-1.ec2.archive.ubuntu.com/ubuntu jammy/multiverse Translation-en [112 kB]
Get:13 http://ap-south-1.ec2.archive.ubuntu.com/ubuntu jammy/multiverse amd64 c-n-f Metadata [8372 B]
Get:14 http://ap-south-1.ec2.archive.ubuntu.com/ubuntu jammy-updates/main amd64 Packages [1377 kB]
Get:15 http://ap-south-1.ec2.archive.ubuntu.com/ubuntu jammy-updates/main Translation-en [273 kB]
Get:16 http://ap-south-1.ec2.archive.ubuntu.com/ubuntu jammy-updates/restricted amd64 Packages [1431 kB]
Get:17 http://ap-south-1.ec2.archive.ubuntu.com/ubuntu jammy-updates/restricted Translation-en [235 kB]
Get:18 http://ap-south-1.ec2.archive.ubuntu.com/ubuntu jammy-updates/universe amd64 Packages [1049 kB]
Get:19 http://ap-south-1.ec2.archive.ubuntu.com/ubuntu jammy-updates/universe Translation-en [237 kB]
Get:20 http://ap-south-1.ec2.archive.ubuntu.com/ubuntu jammy-updates/universe amd64 c-n-f Metadata [22.1 kB]
Get:21 http://ap-south-1.ec2.archive.ubuntu.com/ubuntu jammy-updates/multiverse amd64 Packages [42.1 kB]
Get:22 http://ap-south-1.ec2.archive.ubuntu.com/ubuntu jammy-updates/multiverse Translation-en [10.1 kB]
Get:23 http://ap-south-1.ec2.archive.ubuntu.com/ubuntu jammy-updates/multiverse amd64 c-n-f Metadata [472 B]
Get:24 http://ap-south-1.ec2.archive.ubuntu.com/ubuntu jammy-backports/main amd64 Packages [41.7 kB]
Get:25 http://ap-south-1.ec2.archive.ubuntu.com/ubuntu jammy-backports/main Translation-en [10.5 kB]
Get:26 http://ap-south-1.ec2.archive.ubuntu.com/ubuntu jammy-backports/main amd64 c-n-f Metadata [388 B]
Get:27 http://ap-south-1.ec2.archive.ubuntu.com/ubuntu jammy-backports/restricted amd64 c-n-f Metadata [116 B]
Get:28 http://ap-south-1.ec2.archive.ubuntu.com/ubuntu jammy-backports/universe amd64 Packages [24.3 kB]
Get:29 http://ap-south-1.ec2.archive.ubuntu.com/ubuntu jammy-backports/universe Translation-en [16.5 kB]
Get:30 http://ap-south-1.ec2.archive.ubuntu.com/ubuntu jammy-backports/universe amd64 c-n-f Metadata [644 B]
Get:31 http://ap-south-1.ec2.archive.ubuntu.com/ubuntu jammy-backports/multiverse amd64 c-n-f Metadata [116 B]
Get:32 https://pkg.jenkins.io/debian-stable binary/ Packages [26.2 kB]
Get:33 http://security.ubuntu.com/ubuntu jammy-security/main amd64 Packages [1161 kB]
Get:34 http://security.ubuntu.com/ubuntu jammy-security/main Translation-en [213 kB]
Get:35 http://security.ubuntu.com/ubuntu jammy-security/restricted amd64 Packages [1401 kB]
Get:36 http://security.ubuntu.com/ubuntu jammy-security/restricted Translation-en [231 kB]
Get:37 http://security.ubuntu.com/ubuntu jammy-security/universe amd64 Packages [842 kB]
Get:38 http://security.ubuntu.com/ubuntu jammy-security/universe Translation-en [161 kB]
Get:39 http://security.ubuntu.com/ubuntu jammy-security/universe amd64 c-n-f Metadata [16.8 kB]
Get:40 http://security.ubuntu.com/ubuntu jammy-security/multiverse amd64 Packages [37.1 kB]
Get:41 http://security.ubuntu.com/ubuntu jammy-security/multiverse Translation-en [7476 B]
Get:42 http://security.ubuntu.com/ubuntu jammy-security/multiverse amd64 c-n-f Metadata [260 B]
Fetched 29.6 MB in 6s (4956 kB/s)
Reading package lists... Done
Start ubuntu@ip-172-31-38-13:~$ sudo apt update
```

19. `sudo apt install fontconfig openjdk-17-jre`

```
ubuntu@ip-172-31-38-13:~$ sudo apt update
Hit:1 http://ap-south-1.ec2.archive.ubuntu.com/ubuntu jammy InRelease
Hit:2 http://ap-south-1.ec2.archive.ubuntu.com/ubuntu jammy-updates InRelease
Hit:3 http://ap-south-1.ec2.archive.ubuntu.com/ubuntu jammy-backports InRelease
Ign:4 https://pkg.jenkins.io/debian-stable binary/ InRelease
Hit:5 https://pkg.jenkins.io/debian-stable binary/ Release
Hit:6 http://security.ubuntu.com/ubuntu jammy-security InRelease
Reading package lists... Done
Building dependency tree... Done
Reading state information... Done
74 packages can be upgraded. Run 'apt list --upgradable' to see them.
ubuntu@ip-172-31-38-13:~$ sudo apt install fontconfig openjdk-17-jre
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-core ca-certificates-java dconf-gsettings-backend dconf-service fontconfig-config
  fonts-dejavu-core fonts-dejavu-extra gsettings-desktop-schemas gtk-update-icon-cache hicolor-icon-theme humanity-icon-theme java-common libasound2
  libasound2-data libatk-bridge2.0-0 libatk-wrapper-java libatk-wrapper-java-jni libatk1.0-0 libatk1.0-data libatspi2.0-0 libavahi-client3
  libavahi-common-data libavahi-common3 libcairo-gobject2 libcairo2 libcups2 libdatrie1 libdconf1 libdeflate0 libdrm-amdgpu1 libdrm-intel1 libdrm-nouveau2
  libdrm-radeon1 libfontconfig1 libfontenc1 libgail-common libgail18 libgdk-pixbuf-2.0-0 libgdk-pixbuf2.0-bin libgdk-pixbuf2.0-common libgl1 libgl1
  libgl1-amd64 libgl1-mesa-dri libglapi-mesa libglvnd0 libglx-mesa0 libglx0 libgraphite2-3 libgtk2.0-0 libgtk2.0-bin libgtk2.0-common libharfbuzz0b
  libice6 libidn2 libjpeg-turbo8 libjpeg8 liblcms2-2 libllvm15 libpango-1.0-0 libpango-cairo-1.0-0 libpangoft2-1.0-0 libpciaccess0 libpcscite1
  libpixman-1-0 libsvg2-2 libsvg2-common libsensors-config libsensors5 libsm6 libthai-data libthai0 libtiff5 libwebp7 libx11-xcb1 libxaw7 libxcb-dri2-0
```

20. `java -version`

```
No VM guests are running outdated hypervisor (qemu) binaries on this host.
ubuntu@ip-172-31-38-13:~$ java -version
openjdk version "17.0.9" 2023-10-17
OpenJDK Runtime Environment (build 17.0.9+9-Ubuntu-122.04)
OpenJDK 64-Bit Server VM (build 17.0.9+9-Ubuntu-122.04, mixed mode, sharing)
ubuntu@ip-172-31-38-13:~$
```

21. `sudo apt-get install jenkins`

```
ubuntu@ip-172-31-38-13:~$ 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 74 not upgraded.
Need to get 89.2 MB of archives.
After this operation, 90.4 MB of additional disk space will be used.
Do you want to continue? [Y/n]
```

22. `sudo systemctl enable jenkins`

```
ubuntu@ip-172-31-38-13:~$ sudo systemctl enable jenkins
No VM guests are running outdated hypervisor (qemu) binaries on this host.
ubuntu@ip-172-31-38-13:~$ java -version
openjdk version "17.0.9" 2023-10-17
OpenJDK Runtime Environment (build 17.0.9+9-Ubuntu-122.04)
OpenJDK 64-Bit Server VM (build 17.0.9+9-Ubuntu-122.04, mixed mode, sharing)
ubuntu@ip-172-31-38-13:~$ 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 74 not upgraded.
Need to get 89.2 MB of archives.
After this operation, 90.4 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 jammy/main amd64 net-tools amd64 1.60+git20181103.0eebece-lubuntu5 [204 kB]
Get:2 https://pkg.jenkins.io/debian-stable binary/ jenkins 2.426.3 [89.0 MB]
Fetched 89.2 MB in 6s (16.2 MB/s)
Selecting previously unselected package net-tools.
(Reading database ... 80375 files and directories currently installed.)
Preparing to unpack .../net-tools_1.60+git20181103.0eebece-lubuntu5_amd64.deb ...
Unpacking net-tools (1.60+git20181103.0eebece-lubuntu5) ...
Selecting previously unselected package jenkins.
Preparing to unpack .../jenkins_2.426.3_all.deb ...
Unpacking jenkins (2.426.3) ...
Setting up net-tools (1.60+git20181103.0eebece-lubuntu5) ...
Setting up jenkins (2.426.3) ...
Created symlink /etc/systemd/system/multi-user.target.wants/jenkins.service → /lib/systemd/system/jenkins.service.
Processing triggers for man-db (2.10.2-1) ...
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-172-31-38-13:~$
```

23. `sudo systemctl start jenkins`

```
ubuntu@ip-172-31-38-13:~$ sudo systemctl enable jenkins
Synchronizing state of jenkins.service with SysV service script with /lib/systemd/systemd-sysv-install.
Executing: /lib/systemd/systemd-sysv-install enable jenkins
ubuntu@ip-172-31-38-13:~$
```

24. `sudo systemctl status jenkins`

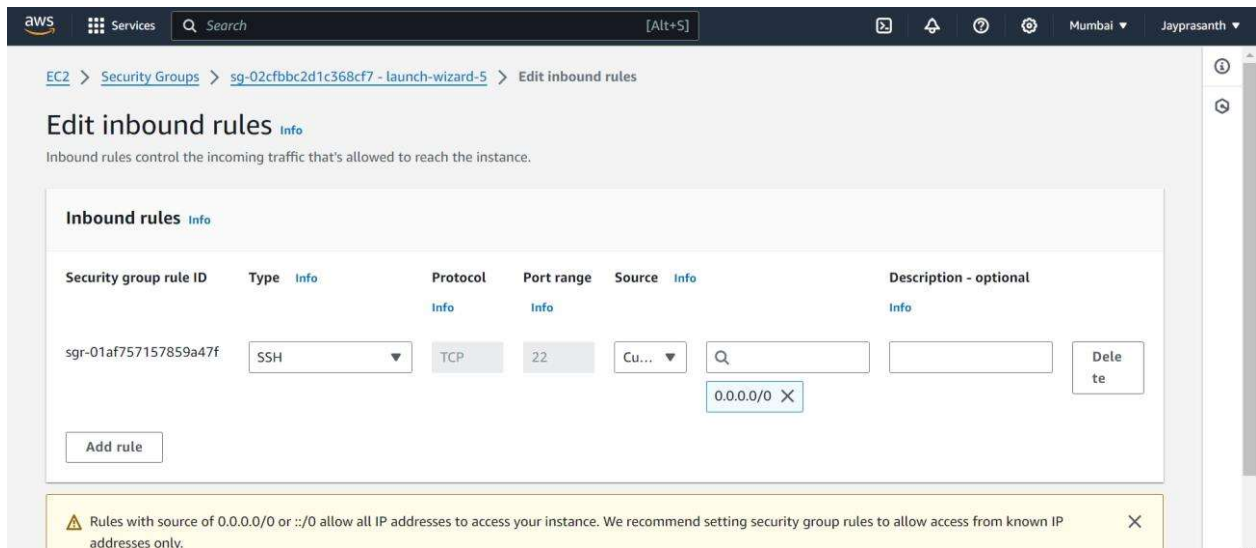
```
ubuntu@ip-172-31-38-13:~$ sudo systemctl start jenkins
ubuntu@ip-172-31-38-13:~$ sudo systemctl status jenkins
```

25. It installed successfully

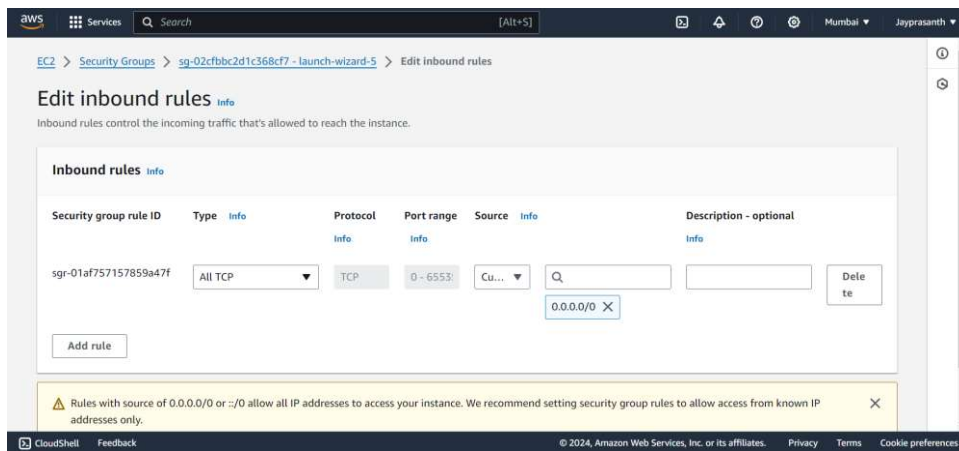
```
ubuntu@ip-172-31-38-13:~$ sudo systemctl status jenkins
● jenkins.service - Jenkins Continuous Integration Server
   Loaded: loaded (/lib/systemd/system/jenkins.service; enabled; vendor preset: enabled)
   Active: active (running) since Fri 2024-02-16 09:41:19 UTC; 1min 14s ago
     Main PID: 5117 (java)
       Tasks: 39 (limit: 1121)
      Memory: 304.6M
         CPU: 41.605s
    CGroup: /system.slice/jenkins.service
            └─5117 /usr/bin/java -Djava.awt.headless=true -jar /usr/share/java/jenkins.war --webroot=/var/cache/jenkins/war --httpPort=8080

Feb 16 09:40:45 ip-172-31-38-13 jenkins[5117]: 90d9ec907ba4e4cb2ad3a784143bf7b
Feb 16 09:40:45 ip-172-31-38-13 jenkins[5117]: This may also be found at: /var/lib/jenkins/secrets/initialAdminPassword
Feb 16 09:40:45 ip-172-31-38-13 jenkins[5117]: *****
Feb 16 09:40:45 ip-172-31-38-13 jenkins[5117]: *****
Feb 16 09:40:45 ip-172-31-38-13 jenkins[5117]: *****
Feb 16 09:40:45 ip-172-31-38-13 jenkins[5117]: *****
Feb 16 09:41:18 ip-172-31-38-13 jenkins[5117]: 2024-02-16 09:41:18.633+0000 [id=31] INFO jenkins.InitReactorRunner$1#onAttained: Completed initialization
Feb 16 09:41:18 ip-172-31-38-13 jenkins[5117]: 2024-02-16 09:41:18.655+0000 [id=24] INFO hudson.lifecycle.Lifecycle#onReady: Jenkins is fully initialized
Feb 16 09:41:18 ip-172-31-38-13 systemd[1]: Started Jenkins Continuous Integration Server.
Feb 16 09:41:19 ip-172-31-38-13 jenkins[5117]: 2024-02-16 09:41:19.583+0000 [id=47] INFO h.m.DownloadService$Downloadable#load: Obtained the metadata
Feb 16 09:41:19 ip-172-31-38-13 jenkins[5117]: 2024-02-16 09:41:19.584+0000 [id=47] INFO hudson.util.Retrier#start: Performed the action check
lines 20/20 (END)
```

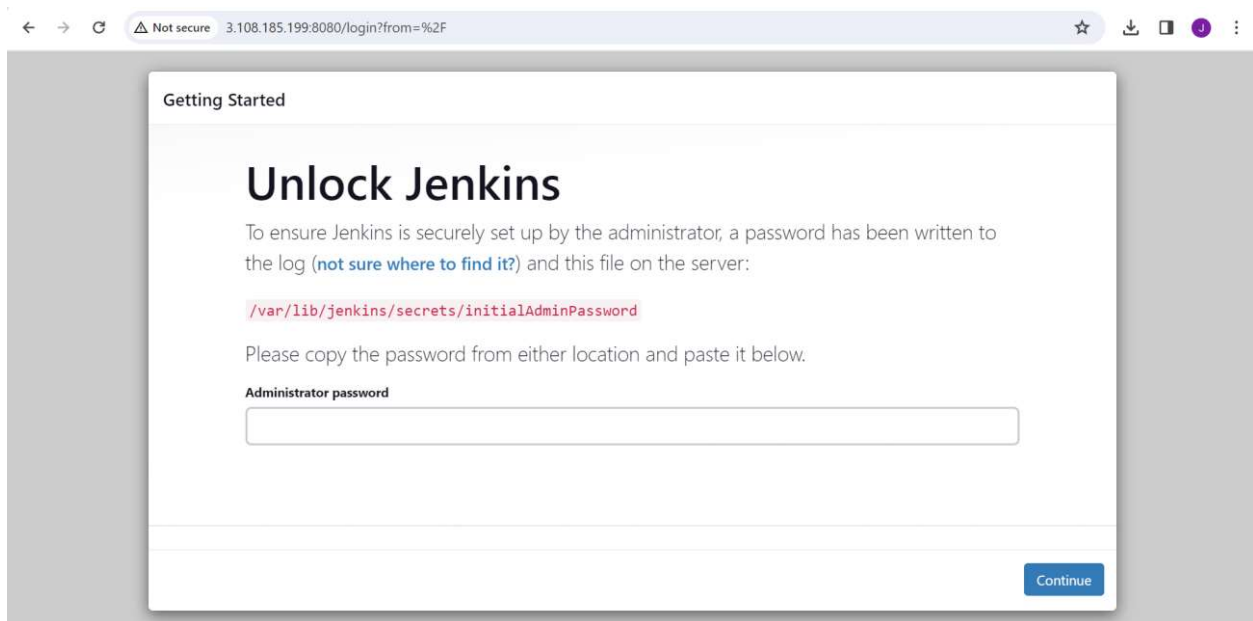
26.



27.



28. Run it in browser



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


```
ubuntu@ip-172-31-38-13:~$ sudo systemctl enable jenkins
Created symlink /etc/systemd/system/multi-user.target.wants/jenkins.service - /lib/systemd/system/jenkins.service.
Processing triggers for man-db (2.10.2-1) ...
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.

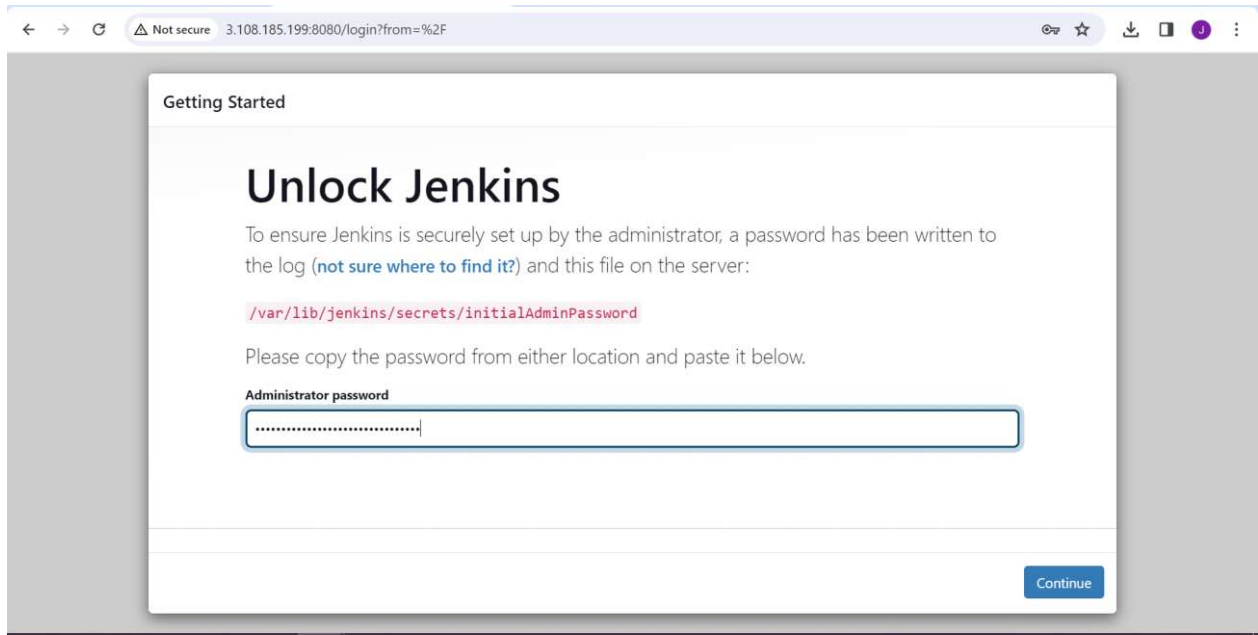
No VM guests are running outdated hypervisor (qemu) binaries on this host.
ubuntu@ip-172-31-38-13:~$ sudo systemctl enable jenkins
Synchronizing state of jenkins.service with SysV service script with /lib/systemd/systemd-sysv-install.
Executing: /lib/systemd/systemd-sysv-install enable jenkins
ubuntu@ip-172-31-38-13:~$ sudo systemctl start jenkins
ubuntu@ip-172-31-38-13:~$ sudo systemctl status jenkins
● jenkins.service - Jenkins Continuous Integration Server
   Loaded: loaded (/lib/systemd/system/jenkins.service; enabled; vendor preset: enabled)
   Active: active (running) since Fri 2024-02-16 09:41:18 UTC; 1min 14s ago
     Main PID: 5117 (java)
       Tasks: 39 (limit: 1121)
      Memory: 304.0M
         CPU: 41.60s
        CGroup: /system.slice/jenkins.service
               └─5117 /usr/bin/java -Djava.awt.headless=true -jar /usr/share/java/jenkins.war --webroot=/var/cache/jenkins/war --httpPort=8080

Feb 16 09:40:45 ip-172-31-38-13 jenkins[5117]: 90d9ec0987ba4e4cb2ad6a784143bf7b
Feb 16 09:40:45 ip-172-31-38-13 jenkins[5117]: This may also be found at: /var/lib/jenkins/secrets/initialAdminPassword
Feb 16 09:40:45 ip-172-31-38-13 jenkins[5117]: *****
Feb 16 09:40:45 ip-172-31-38-13 jenkins[5117]: *****
Feb 16 09:40:45 ip-172-31-38-13 jenkins[5117]: *****
Feb 16 09:41:18 ip-172-31-38-13 jenkins[5117]: 2024-02-16 09:41:18.633+0000 [id=31] INFO jenkins.InitReactorRunner$1#onAttained: Completed initialization
Feb 16 09:41:18 ip-172-31-38-13 jenkins[5117]: 2024-02-16 09:41:18.655+0000 [id=24] INFO hudson.lifecycle.Lifecycle#onReady: Jenkins is fully started
Feb 16 09:41:18 ip-172-31-38-13 systemd[1]: Started Jenkins Continuous Integration Server.
Feb 16 09:41:19 ip-172-31-38-13 jenkins[5117]: 2024-02-16 09:41:19.583+0000 [id=47] INFO h.s.DownloadService$Downloadable#load: Obtained the version
Feb 16 09:41:19 ip-172-31-38-13 jenkins[5117]: 2024-02-16 09:41:19.584+0000 [id=47] INFO hudson.util.Retrier#start: Performed the action check
lines 1-20/20 (END)
ubuntu@ip-172-31-38-13:~$ sudo ufw allow 8080
Rules updated
Rules reloaded
Rules updated (v6)
ubuntu@ip-172-31-38-13:~$ sudo cat /var/lib/jenkins/secrets/initialAdminPassword
90d9ec0987ba4e4cb2ad6a784143bf7b
ubuntu@ip-172-31-38-13:~$
```

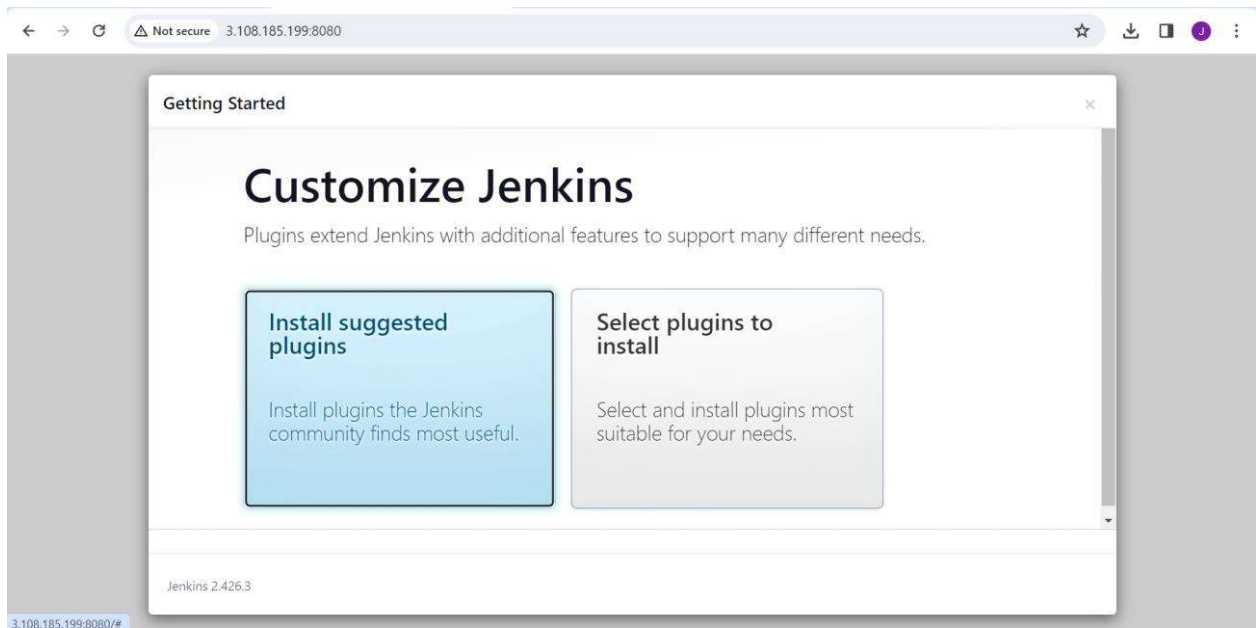
30.

```
ubuntu@ip-172-31-38-13:~$ sudo cat /var/lib/jenkins/secrets/initialAdminPassword
90d9ec0987ba4e4cb2ad6a784143bf7b
ubuntu@ip-172-31-38-13:~$
```

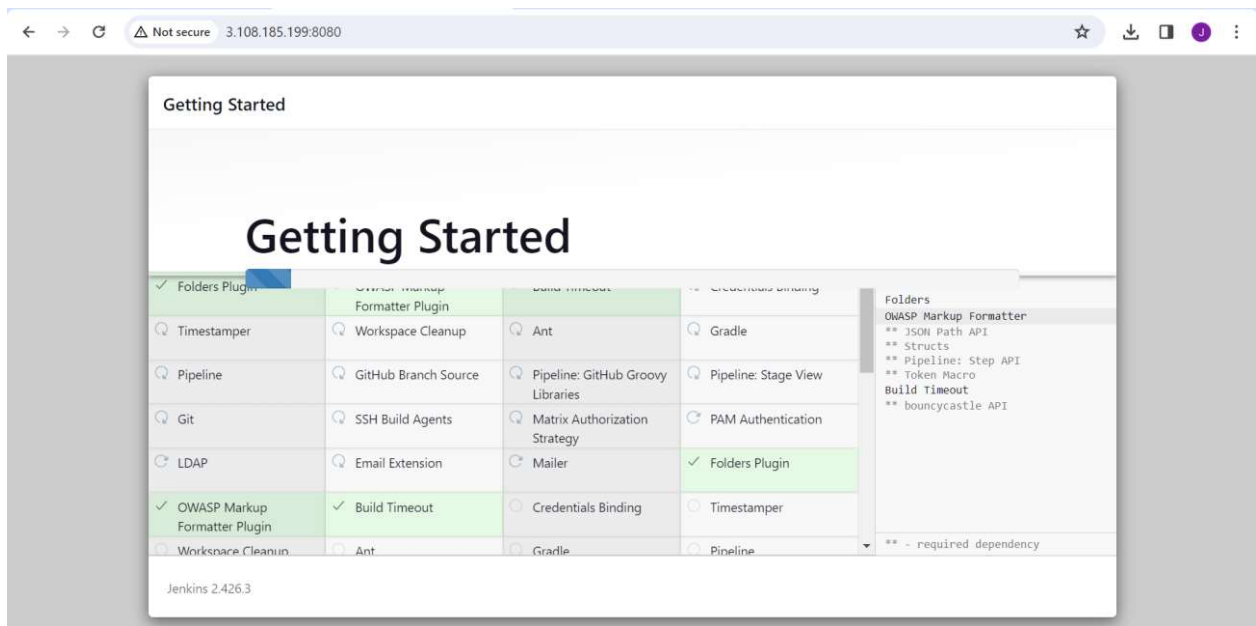
31.



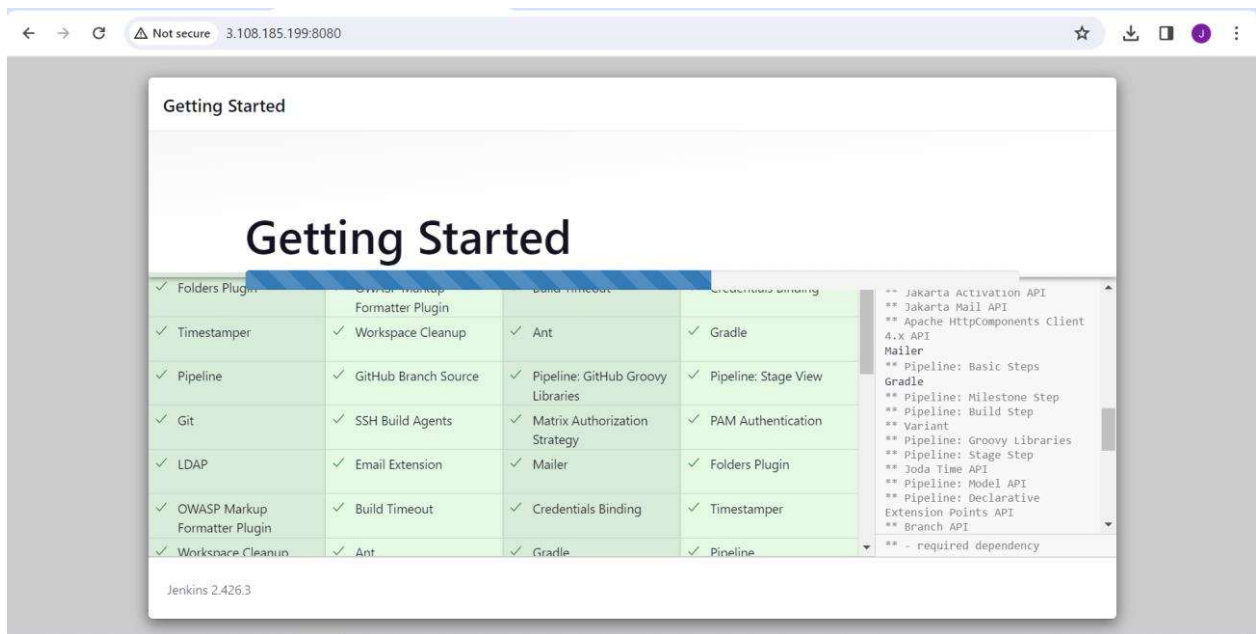
32. Select Install suggested plugins



33.



34. It installed



35. Give new admin user

The screenshot shows the Jenkins 'Create First Admin User' form. The form is titled 'Create First Admin User' and has four input fields: 'Username', 'Password', 'Confirm password', and 'Full name'. The 'Username' field contains the text 'jay'. The 'Password' and 'Confirm password' fields are masked with dots. At the bottom of the form, there are two buttons: 'Skip and continue as admin' and 'Save and Continue'. The Jenkins version 'Jenkins 2.426.3' is displayed at the bottom left of the form.

Username

jay

Password

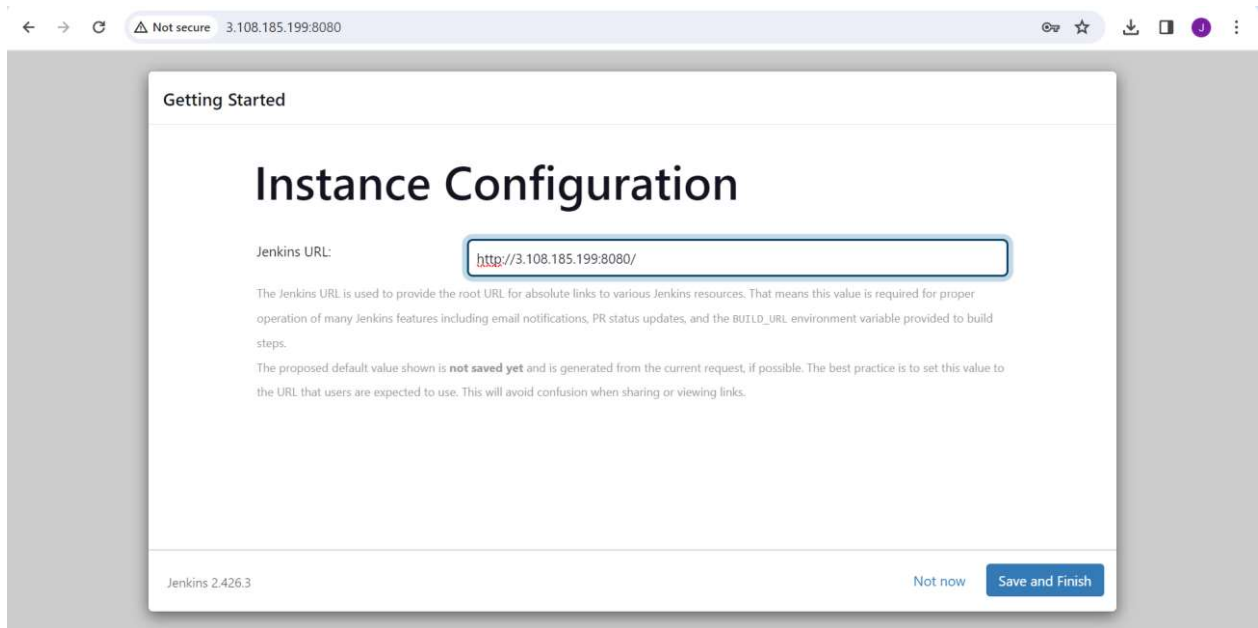
Confirm password

Full name

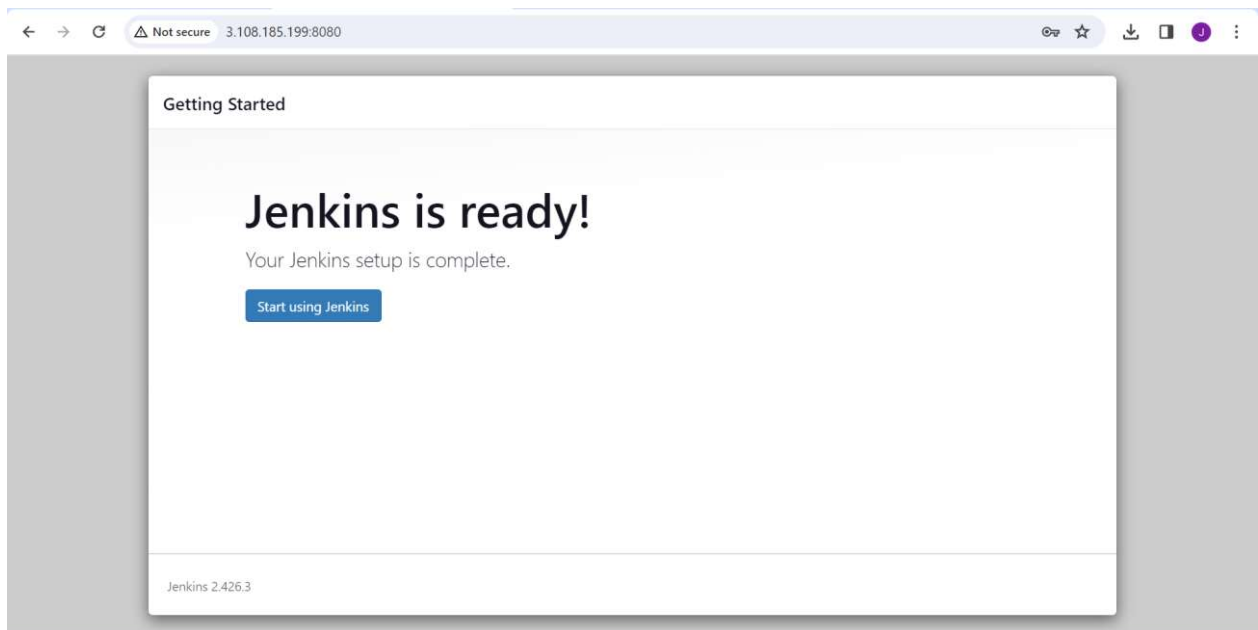
Jenkins 2.426.3

Skip and continue as admin Save and Continue

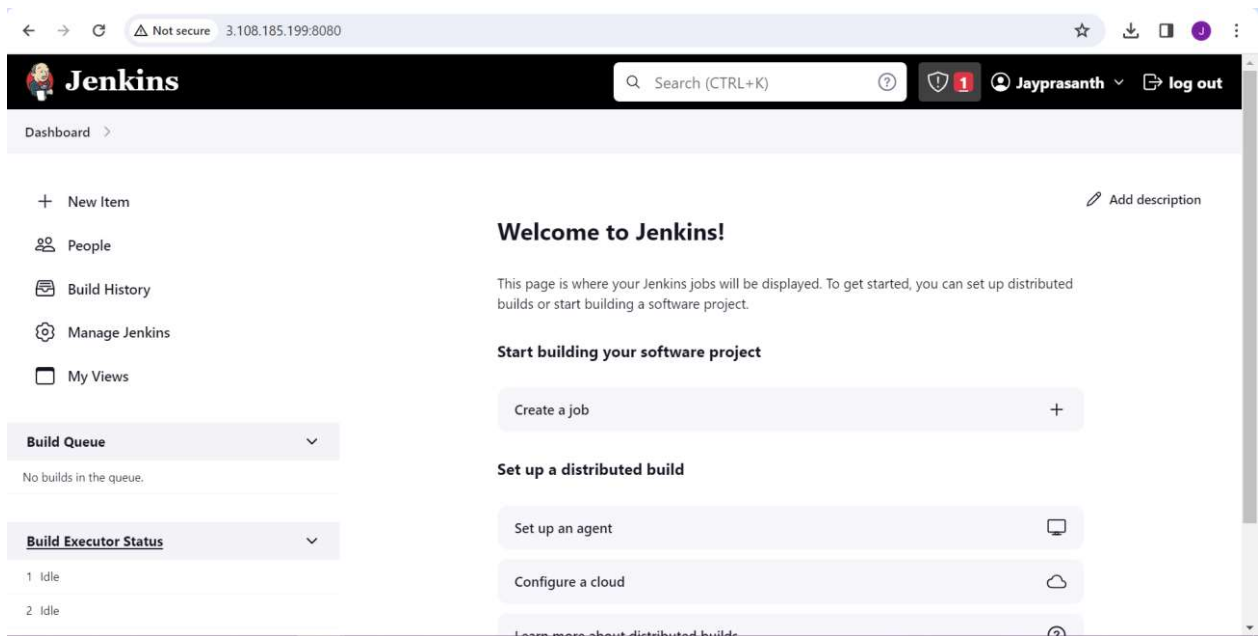
36. Save it



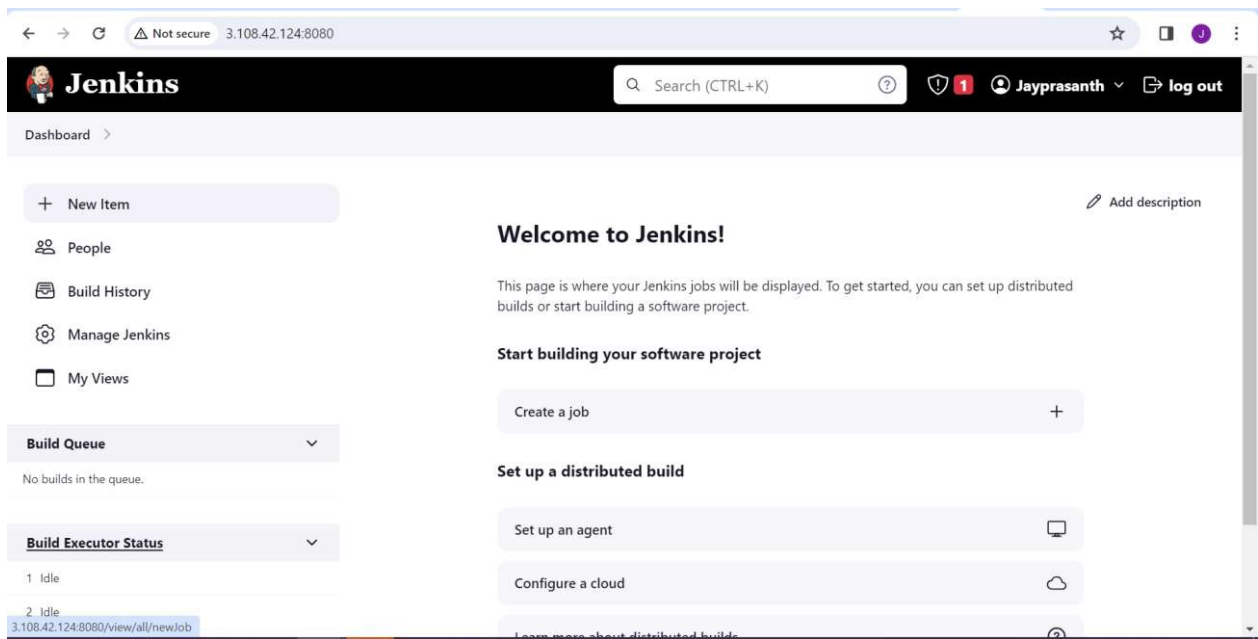
37.



38. Page of Jenkins



39.




40.

← → ↻ ⚠ Not secure 3.108.42.124:8080/view/all/newJob ☆ 🔒 J Jayprasanth ↕ log out


Dashboard > All >

Enter an item name


» This field cannot be empty, please enter a valid name

**Freestyle project**

This is the central feature of Jenkins. Jenkins will build your project, combining any SCM with any build system, and this can be even used for something other than software build.

**Pipeline**

Orchestrates long-running activities that can span multiple build agents. Suitable for building pipelines (formerly known as workflows) and/or organizing complex activities that do not easily fit in free-style job type.

**Multi-configuration project**

Orchestrates long-running activities that can span multiple build agents. Suitable for building pipelines (formerly known as workflows) and/or organizing complex activities that do not easily fit in free-style job type.

OK

41.


← → ↻ ⚠ Not secure 3.108.42.124:8080/view/all/newJob ☆ 🔒 J Jayprasanth ↕ log out

Dashboard > All >


Enter an item name

Demo


» Required field

**Freestyle project**

This is the central feature of Jenkins. Jenkins will build your project, combining any SCM with any build system, and this can be even used for something other than software build.

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Orchestrates long-running activities that can span multiple build agents. Suitable for building pipelines (formerly known as workflows) and/or organizing complex activities that do not easily fit in free-style job type.

OK

42.

← → ↻ ⚠ Not secure 3.108.42.124:8080/job/Demo/configure ☆ ⓘ J

Jenkins 🔍 Search (CTRL+K) ? 🛡 1 👤 Jayprasanth ↵ log out

Dashboard > Demo > Configuration

Configure

⚙ General

🔗 Source Code Management

🕒 Build Triggers

🌐 Build Environment

📋 Build Steps

🏠 Post-build Actions

General

Enabled ☒

Description

Plain text [Preview](#)

☐ Discard old builds ?

☐ GitHub project

☐ This project is parameterised ?

Save

Apply

43.

← → ↻ ⚠ Not secure 3.108.42.124:8080 ☆ ⓘ J

Jenkins 🔍 Search (CTRL+K) ? 🛡 1 👤 Jayprasanth ↵ log out

Dashboard >

+ New Item

👤 People

📁 Build History

⚙ Manage Jenkins

📋 My Views

All +

| S | W | Name ↓ | Last Success | Last Failure | Last Duration |
|-----|---|--------|--------------|--------------|---------------|
| ... | ☀ | Demo | N/A | N/A | N/A |

Icon: S M L Icon legend 📡 Atom feed for all 📡 Atom feed for failures 📡 Atom feed for just latest builds

Build Queue

No builds in the queue.

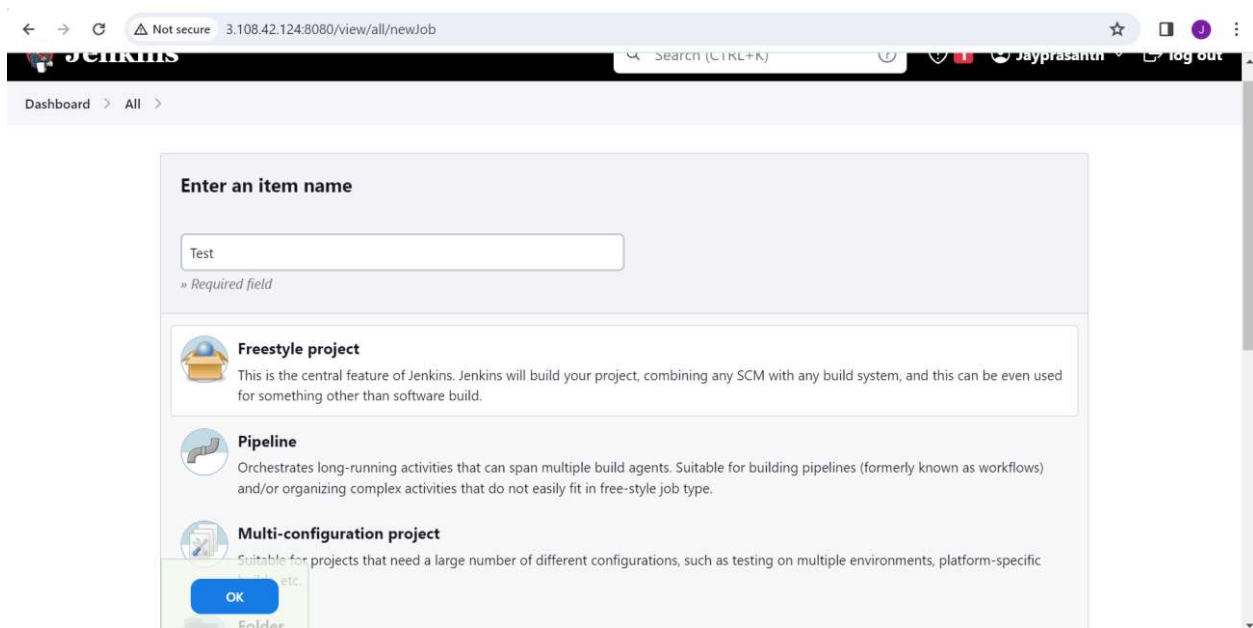
Build Executor Status

1 Idle

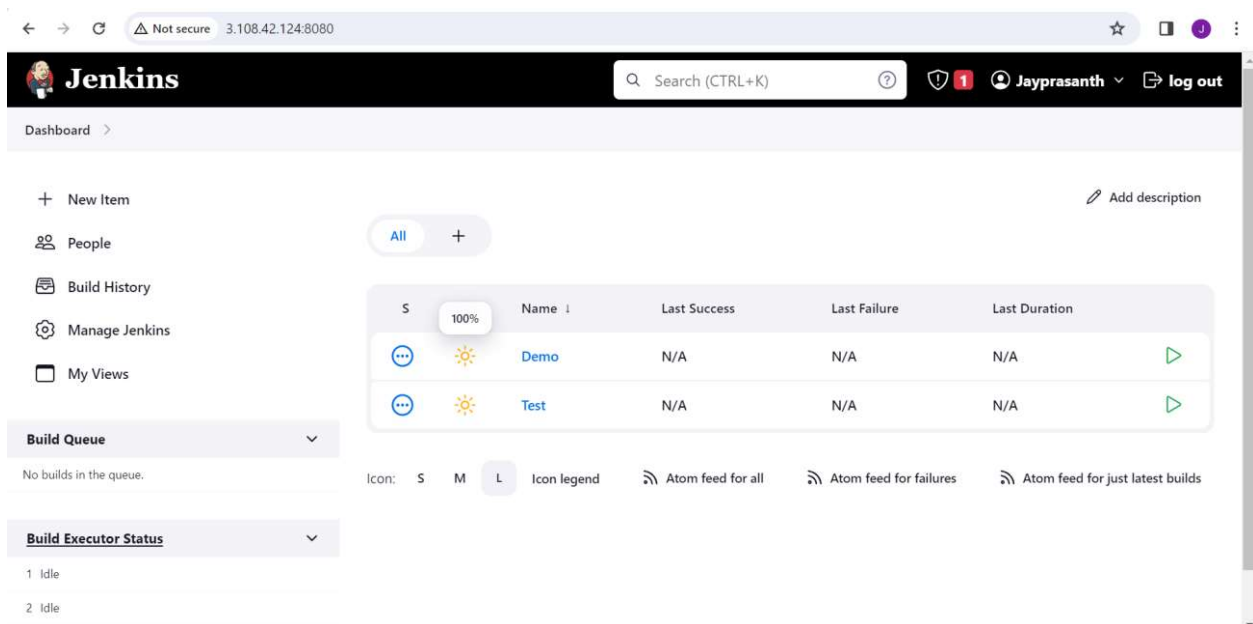
2 Idle

3.108.42.124:8080/view/all/builds

44.



45.



46.

← → ↻ ⚠ Not secure 3.108.42.124:8080/job/Demo/ ☆ 📱 👤 Jayprasanth 🔒 log out

Jenkins 🔍 Search (CTRL+K) ?

Dashboard > Demo >

Status

</> Changes

📁 Workspace

▶ Build Now

⚙️ Configure

🗑️ Delete Project

✎ Rename

Demo

✎ Add description

Disable Project

Permalinks

☀️ Build History trend ▾

No builds

3.108.42.124:8080/job/Demo/configure

⬆

47.

← → ↻ ⚠ Not secure 3.108.42.124:8080/job/Demo/configure ☆ 📱 👤 Jayprasanth 🔒 log out

Jenkins 🔍 Search (CTRL+K) ?

Dashboard > Demo > Configuration

Configure

⚙️ General

🔑 Source Code Management

🕒 Build Triggers

🌐 Build Environment

📋 Build Steps

🏠 Post-build Actions

General

Enabled ☒

Description

Plain text [Preview](#)

☐ Discard old builds ?

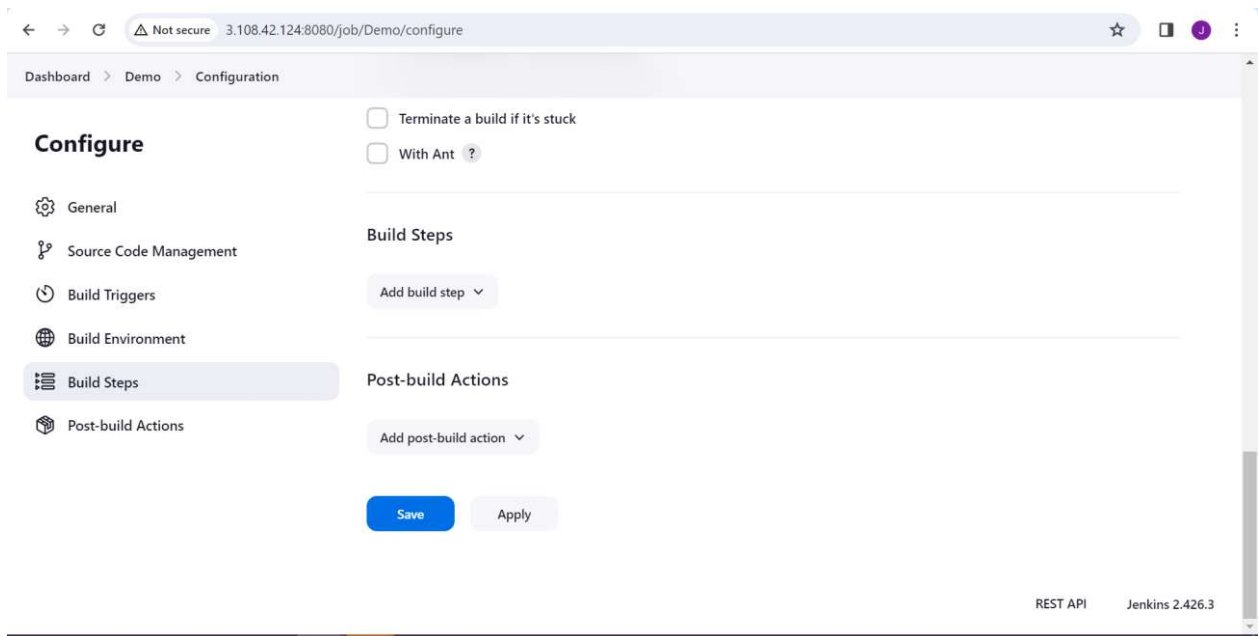
☐ GitHub project

☐ This project is parameterised ?

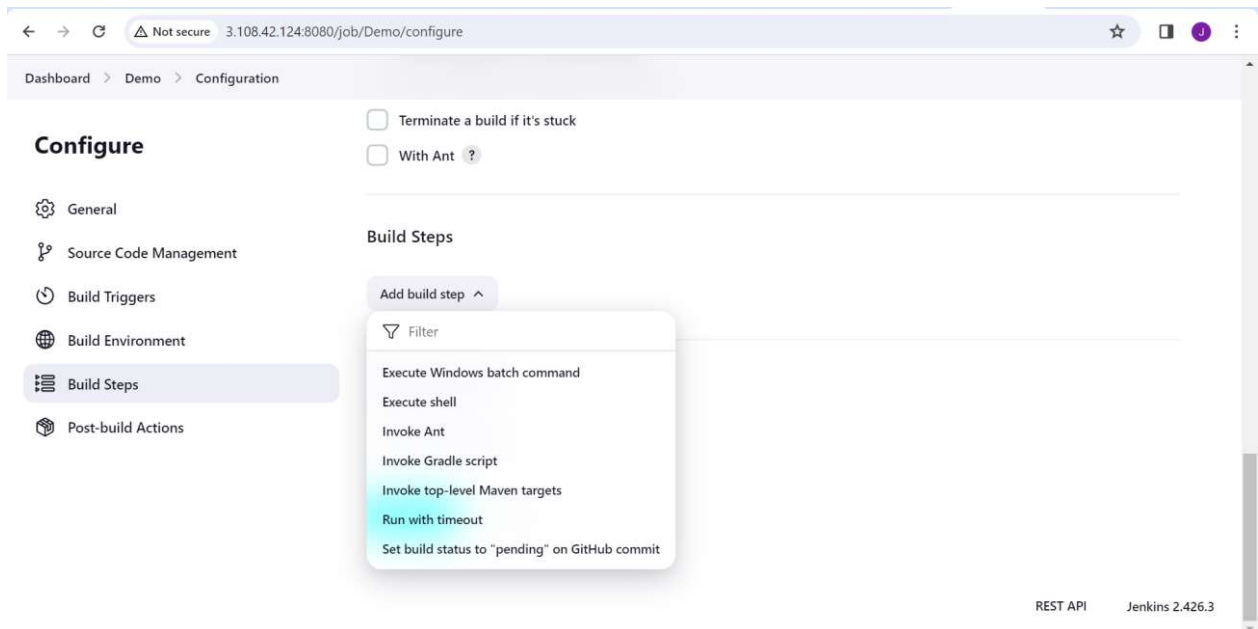
Save

Apply

48.



49.



50.

←

→

↻

⚠ Not secure 3.108.42.124:8080/job/Demo/configure

☆

📱

👤 J

⋮

Dashboard > Demo > Configuration

⚙️ General

🔗 Source Code Management

🕒 Build Triggers

🌐 Build Environment

📋 Build Steps

📦 Post-build Actions

Add build step

Post-build Actions

Add post-build action ^

Filter

Aggregate downstream test results

Archive the artifacts

Build other projects

Publish JUnit test result report

Record fingerprints of files to track usage

Git Publisher

E-mail Notification

Editable Email Notification

Set GitHub commit status (universal)

Set build status on GitHub commit [deprecated]

Delete workspace when build is done

REST API

Jenkins 2.426.3