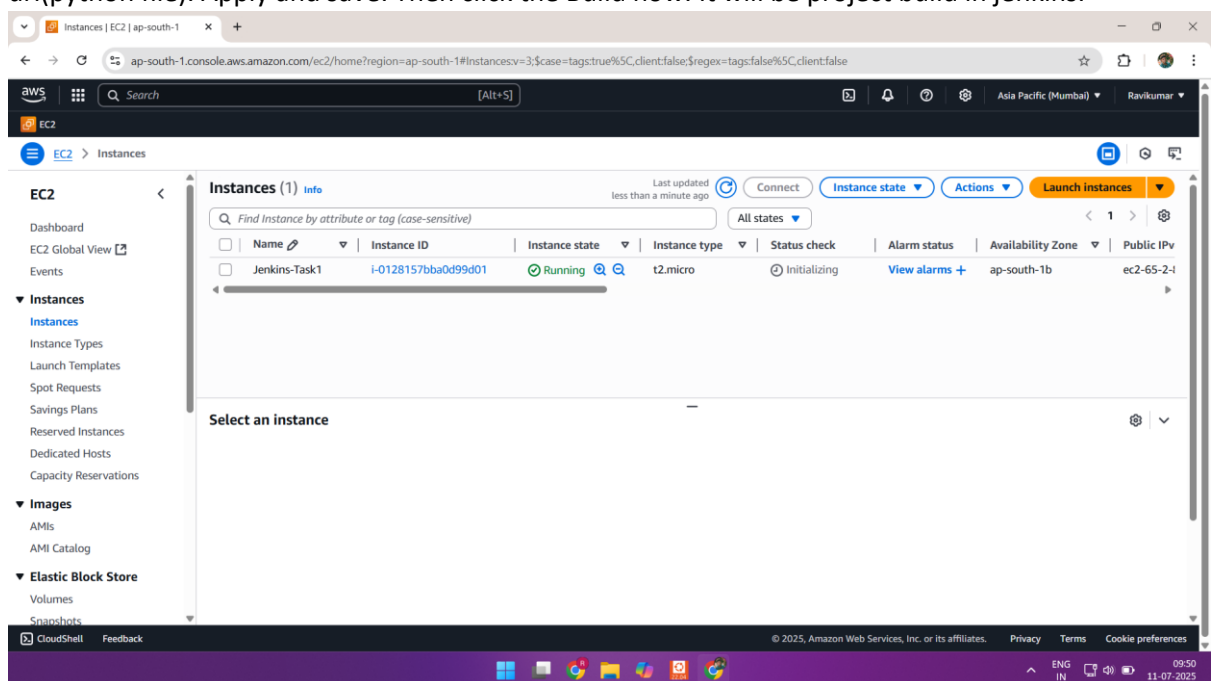


Launch jenkins and explore creating projects and users.

1. First I created EC2 instance in AWS console, after that I connect & install Jenkins using commands. Before install Jenkins java is prerequisite also install that because Jenkins developed by java.
2. Start and enable Jenkins, then setup the Jenkins using public ip with 8080 port, then initialize and register and create a user username, password, email. After that install suggested plugins, Jenkins dashboard will show.
3. To create another user manage Jenkins user create a new user and make new roles to install a role based strategy plugin in plugin. After that in security , make changes in role based strategy then in console manage and role. add a manage and roles. Make apply and save.
4. To create and build a project, I have a python file to push into the github repository after that, in Jenkins dashboard create new item, freestyle project into that attach a github url(python file). Apply and save. Then click the Build now. It will be project build in jenkins.



```
Instances | EC2 | ap-south-1 x EC2 Instance Connect | ap-south-1 x +
ap-south-1.console.aws.amazon.com/ec2-instance-connect/ssh/home?addressfamily=ipv4&connType=standard&instanceId=i-0128157bba0d99d01&osUser=ubuntu&region=ap-south-1&ssh...
AWS Search [Alt+S] Asia Pacific (Mumbai) Ravikumar
EC2

No containers need to be restarted.

User sessions running outdated binaries:
ubuntu @ session #1: sshd[1032]
ubuntu @ user manager service: systemd[1379]

No VM guests are running outdated hypervisor (qemu) binaries on this host.
ubuntu@ip-172-31-2-140:~$ java -version
openjdk version "17.0.15" 2025-04-15
OpenJDK Runtime Environment (build 17.0.15+6-Ubuntu-0ubuntu124.04)
OpenJDK 64-Bit Server VM (build 17.0.15+6-Ubuntu-0ubuntu124.04, mixed mode, sharing)
ubuntu@ip-172-31-2-140:~$ curl -fsSL https://pkg.jenkins.io/debian/jenkins.io-2023.key | sudo tee \
  /usr/share/keyrings/jenkins-keyring.asc > /dev/null
ubuntu@ip-172-31-2-140:~$ echo "deb [signed-by=/usr/share/keyrings/jenkins-keyring.asc] \
  https://pkg.jenkins.io/debian binary/" | sudo tee \
  /etc/apt/sources.list.d/jenkins.list > /dev/null
ubuntu@ip-172-31-2-140:~$ sudo apt 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 binary/ InRelease
Get:5 https://pkg.jenkins.io/debian binary/ Release [2044 B]
Get:6 https://pkg.jenkins.io/debian binary/ Release.gpg [833 B]
Hit:7 http://security.ubuntu.com/ubuntu noble-security InRelease
Get:8 https://pkg.jenkins.io/debian binary/ Packages [70.9 kB]
Fetched 73.8 kB in 1s (92.2 kB/s)
Reading package lists... 5%
```

### i-0128157bba0d99d01 (Jenkins-Task1)

PublicIPs: 65.2.83.38 PrivateIPs: 172.31.2.140

```
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09:54 11-07-2025
Instances | EC2 | ap-south-1 x EC2 Instance Connect | ap-south-1 x +
ap-south-1.console.aws.amazon.com/ec2-instance-connect/ssh/home?addressfamily=ipv4&connType=standard&instanceId=i-0128157bba0d99d01&osUser=ubuntu&region=ap-south-1&ssh...
AWS Search [Alt+S] Asia Pacific (Mumbai) Ravikumar
EC2

The currently running kernel version is not the expected kernel version 6.8.0-1031-aws.
Restarting the system to load the new kernel will not be handled automatically, so you should consider rebooting.
Restarting services...
Service restarts being deferred:
systemctl restart getty@tty1.service
systemctl restart networkd-dispatcher.service
systemctl restart serial-getty@ttyS0.service
systemctl restart systemd-logind.service
systemctl restart unattended-upgrades.service

No containers need to be restarted.

User sessions running outdated binaries:
ubuntu @ session #1: sshd[1032]
ubuntu @ user manager service: systemd[1379]

No VM guests are running outdated hypervisor (qemu) binaries on this host.
ubuntu@ip-172-31-2-140:~$ sudo systemctl start jenkins
Failed to enable unit: Unit file Jenkins.service does not exist.
ubuntu@ip-172-31-2-140:~$ sudo systemctl start jenkins
Failed to enable unit: Unit file Jenkins.service does not exist.
ubuntu@ip-172-31-2-140:~$
```

### i-0128157bba0d99d01 (Jenkins-Task1)

PublicIPs: 65.2.83.38 PrivateIPs: 172.31.2.140

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09:55 11-07-2025

SecurityGroup | EC2 | ap-south-1

EC2 Instance Connect | ap-south-1

Setup Wizard - Jenkins

← → ↻ ⚠ Not secure 65.2.83.38:8080

Getting Started

Create First Admin User

Username

ravimccullum

Password

\*\*\*\*\*

Confirm password

\*\*\*\*\*

Full name

Ravikumar R

E-mail address

ravikumar.r9339@gmail.com

Jenkins 2.518

Skip and continue as admin

Save and Continue

SecurityGroup | EC2 | ap-south-1

EC2 Instance Connect | ap-south-1

Users - Jenkins

← → ↻ ⚠ Not secure 65.2.83.38:8080/securityRealm/

Jenkins






Jenkins' own user database

ENG IN 10:02 11-07-2025

Users 2

+ Create User

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	
 ravimccullum	Ravikumar R	
 rvmc42	Ravikumar	 


Jenkins 2.518

ENG IN 10:03 11-07-2025

SecurityGroup | EC2 | ap-south-1 x EC2 Instance Connect | ap-south-1 x Available plugins - Plugins - Jenkins x

← → ↻ 65.2.83.38:8080/manage/pluginManager/available

⋮

 Jenkins

Manage Jenkins / Plugins

🔍

⚙️

👤

Plugins

📄 Updates

📦 Available plugins

🔗 Installed plugins

⚙️ Advanced settings

📊 Download progress

🔍 Role-based Authorization Strategy

📄 Install

🔄


Install	Name	Released	Health
<input checked="" type="checkbox"/>	<div>Role-based Authorization Strategy 785.v8d262d0f0607</div> <div><a href="#">Security</a> · <a href="#">Authentication and User Management</a></div> <div>Enables user authorization using a Role-Based strategy. Roles can be defined globally or for particular jobs or nodes selected by regular expressions.</div>	7 days 16 hr ago	100

REST API Jenkins 2.518

SecurityGroup | EC2 | ap-south-1 x EC2 Instance Connect | ap-south-1 x Security - Jenkins x

← → ↻ 65.2.83.38:8080/manage/configureSecurity/

⋮

 Jenkins

Manage Jenkins / Security

🔍

⚙️

👤

Security

Authentication

☐ Disable "Keep me signed in" ?

Security Realm

Jenkins' own user database

☐ Allow users to sign up ?

Authorization

Role-Based Strategy

Markup Formatter

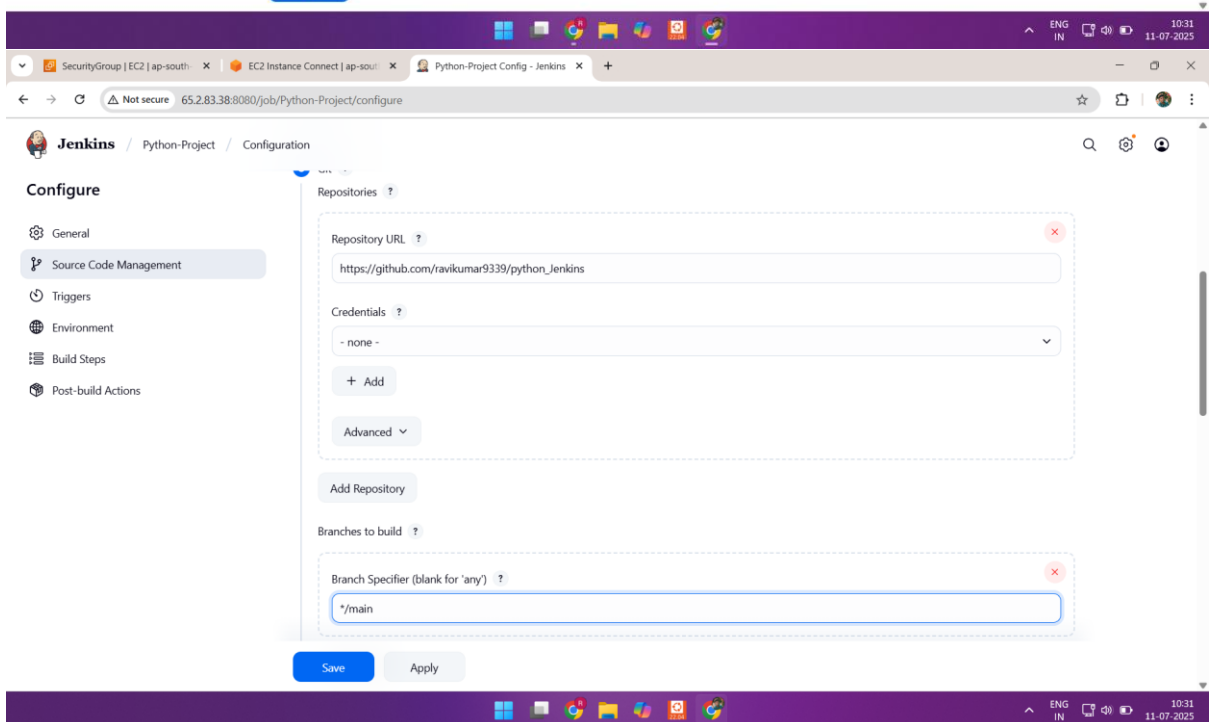
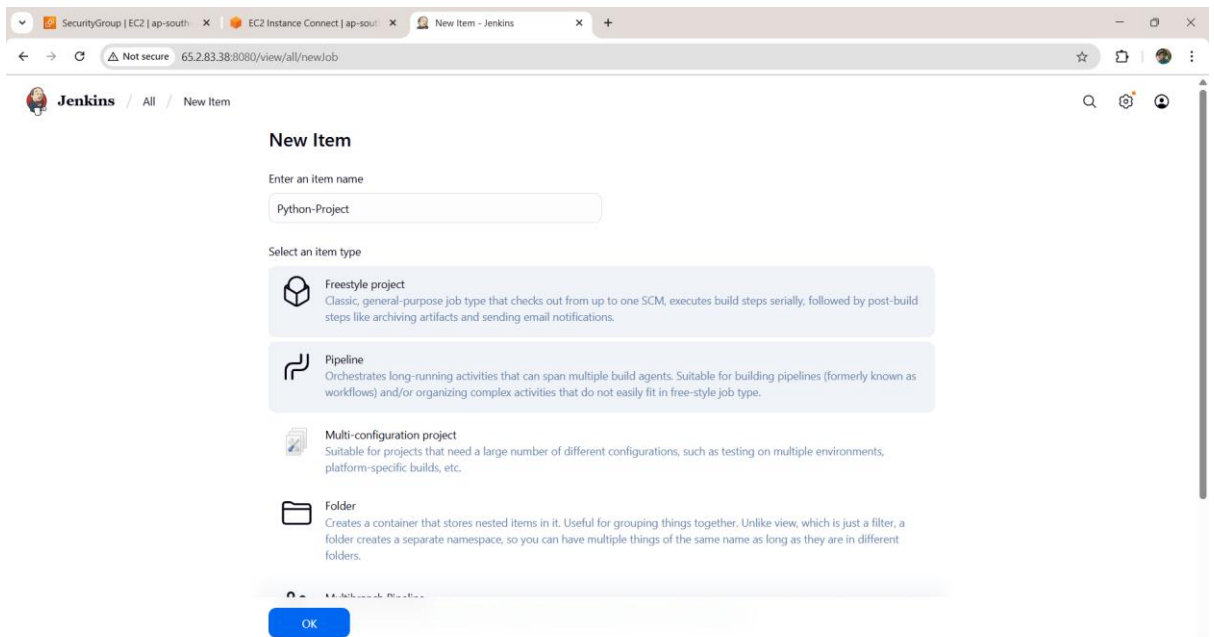
Markup Formatter ?

Plain text

Save

Apply






SecurityGroup | EC2 | ap-south-1

EC2 Instance Connect | ap-south-1

Python-Project - Jenkins

← → ↻ 🔒 Not secure 65.2.83.38:8080/job/Python-Project/

⋮

 Jenkins

Python-Project

Status

</> Changes

Workspace

▶ Build Now

⚙️ Configure

🗑️ Delete Project

✎️ Rename

Builds

\*\*\* 🔗

Today

🟢 #1 5:01 AM ▼

Python-Project

Permalinks

🔍


⚙️

👤

Add description

REST API

Jenkins 2.518



ENG IN

🔊 🔌 🔋

10:32 11-07-2025