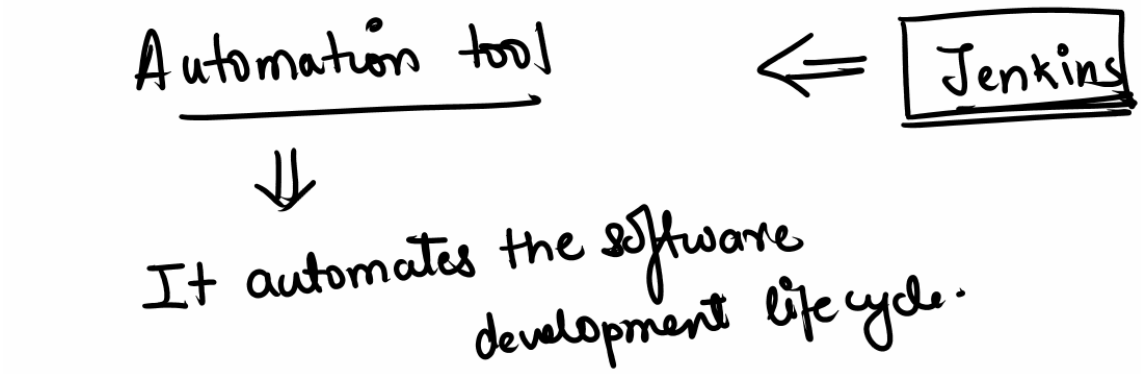
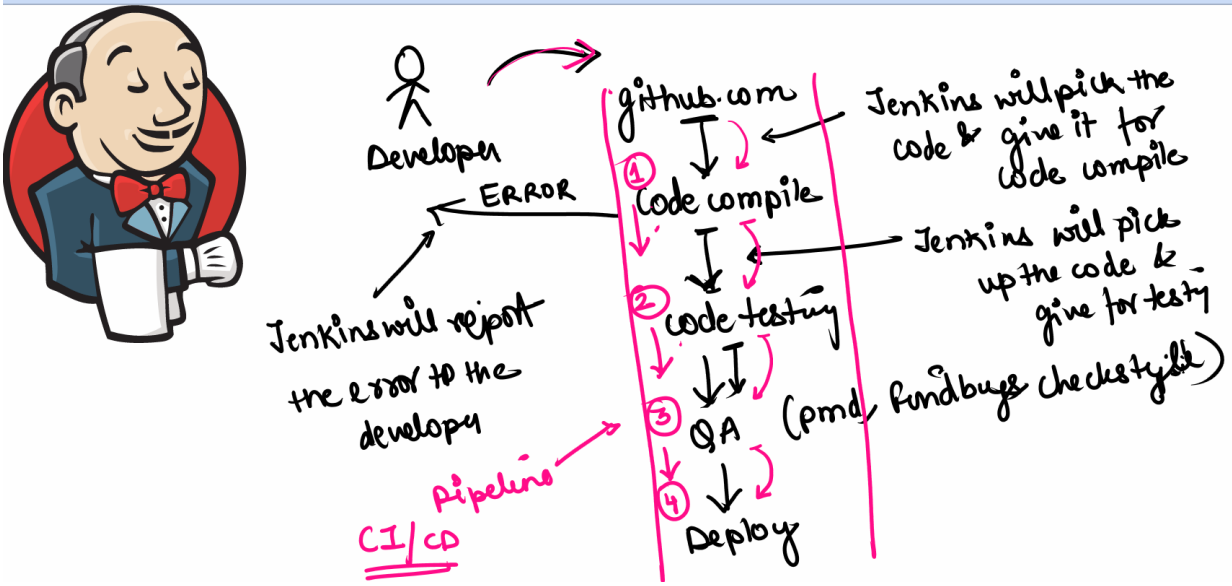
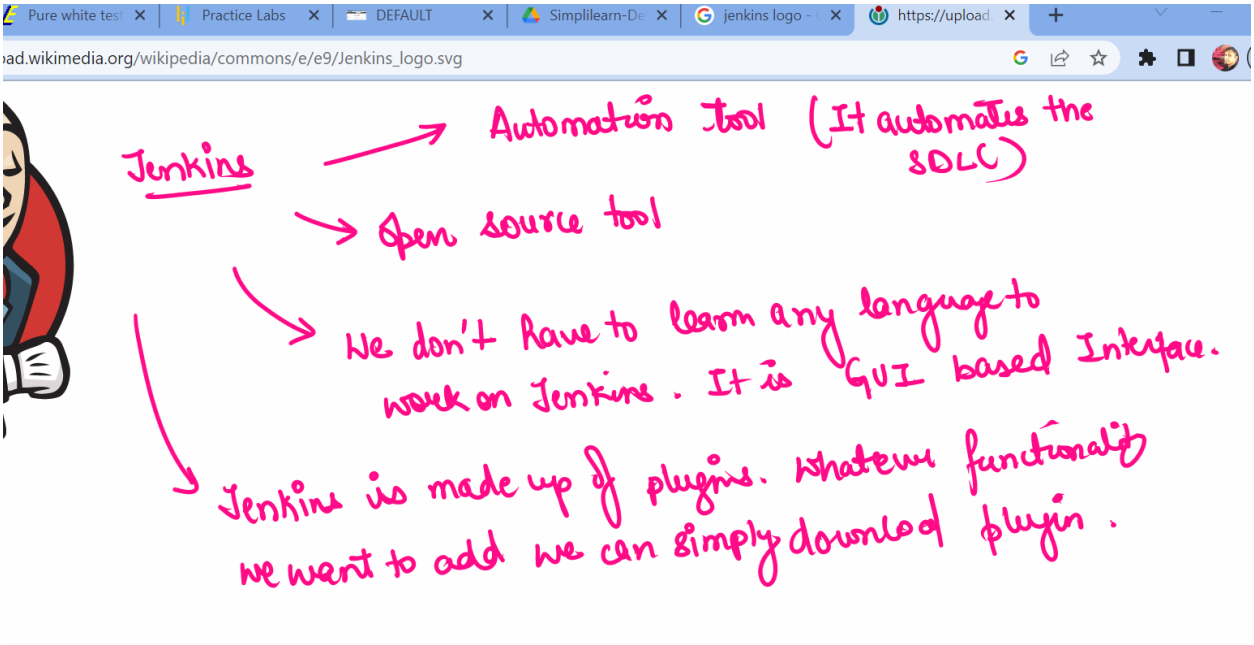
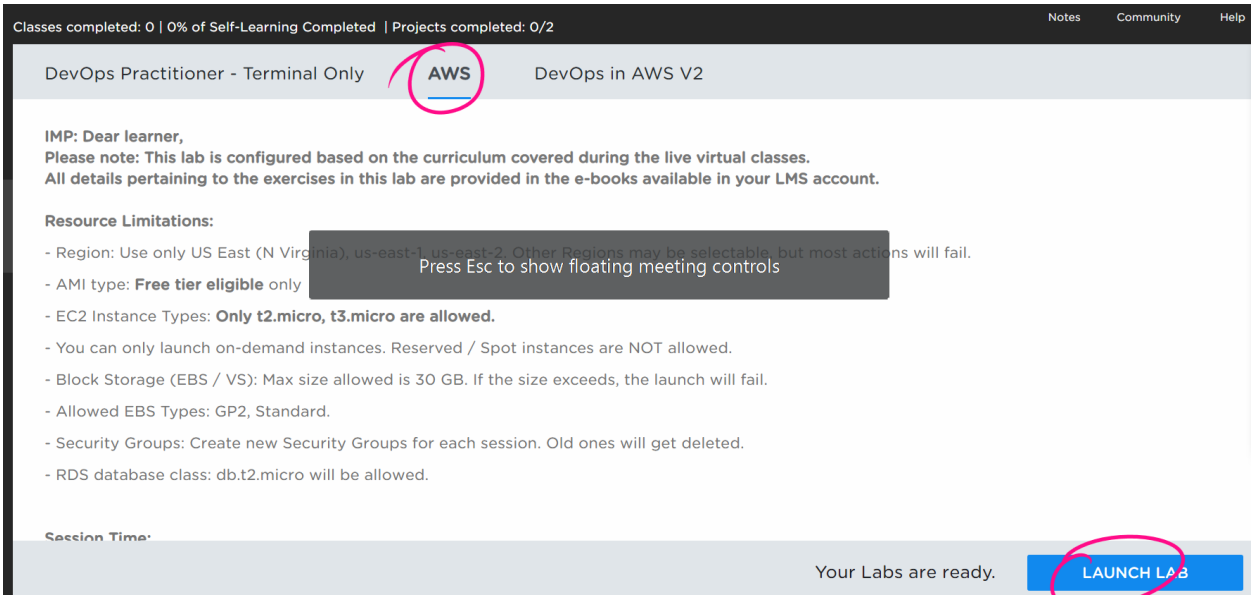
Jenkins

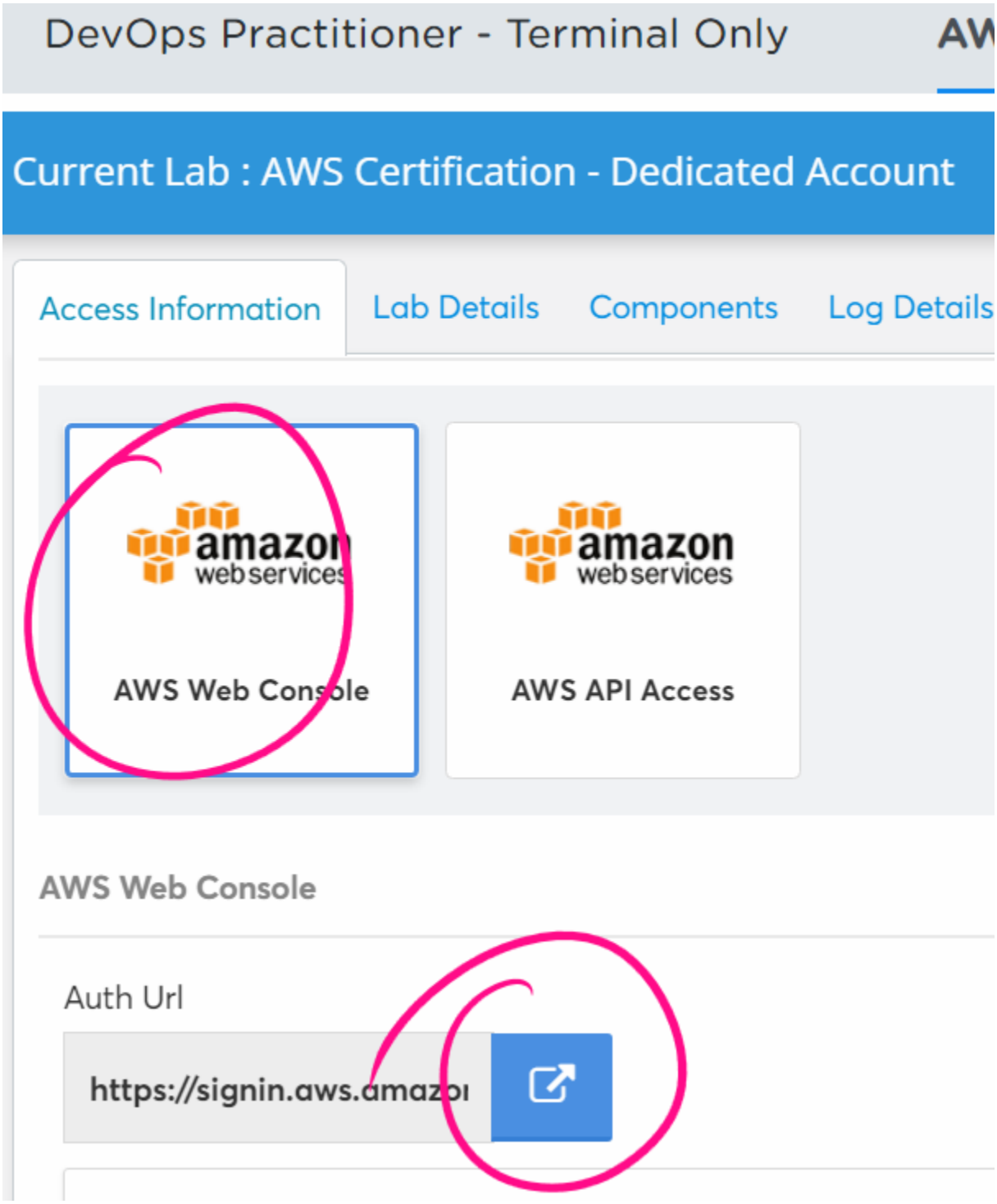

Automation tool
Jenkins
It automates the software development lifecycle.

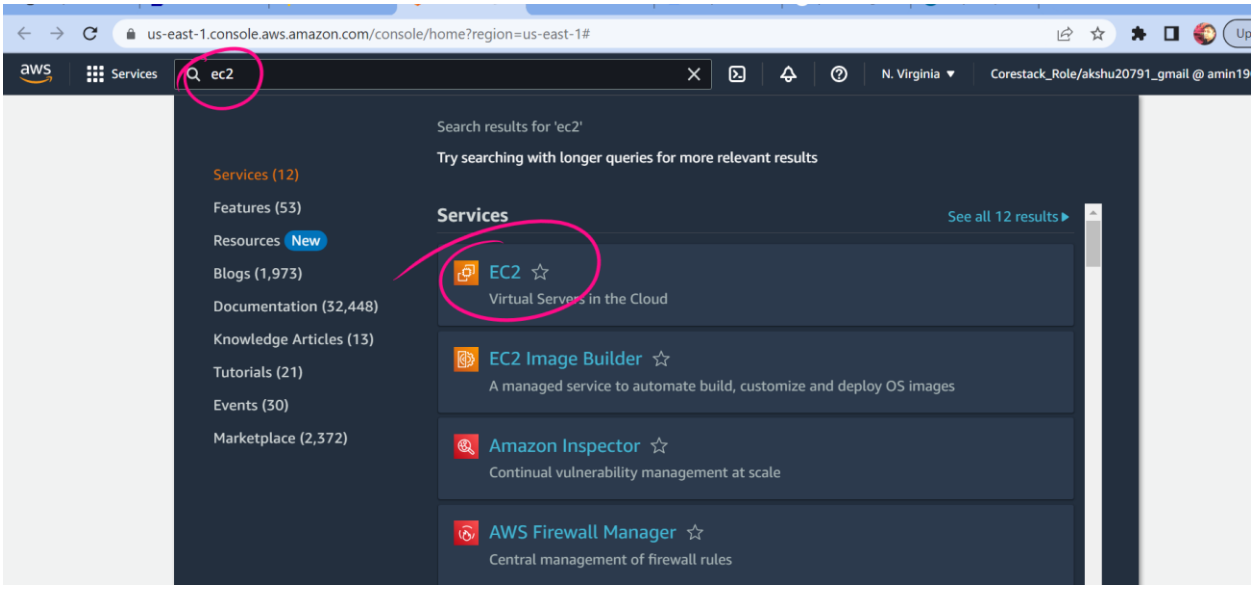

Developer
ERROR
Jenkins will report the error to the developer
github.com
Code compile
code testing
QA
Deploy
Jenkins will pick the code & give it for code compile
Jenkins will pick up the code & give for testing
(pmd, findbugs checkstyle)
pipeline
CI/CD

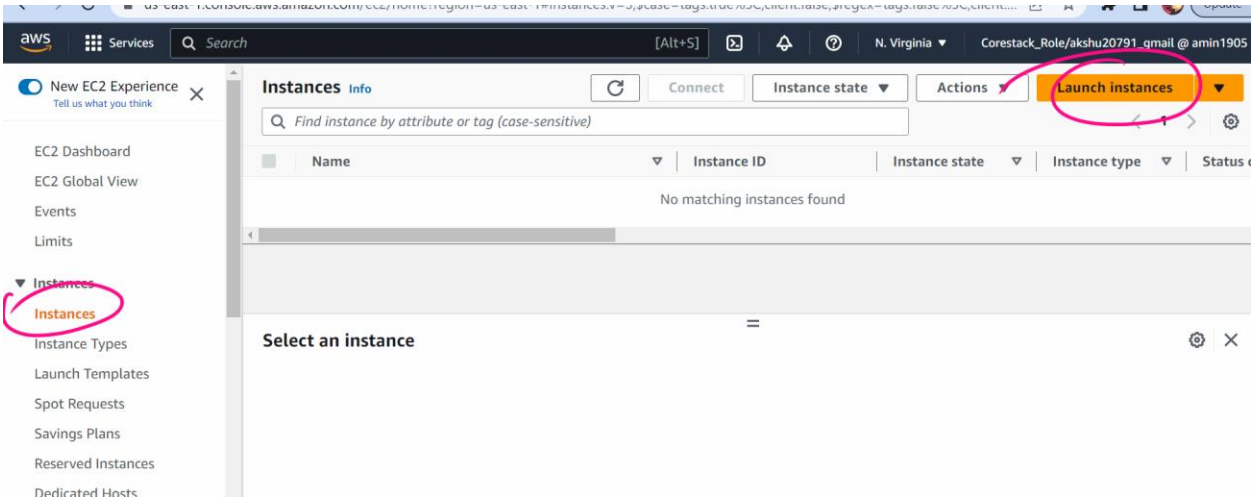




Click on launch lab


DevOps Practitioner - Terminal Only
AW
Current Lab : AWS Certification - Dedicated Account
Access Information
Lab Details
Components
Log Details
amazon web services
AWS Web Console
amazon web services
AWS API Access
AWS Web Console
Auth Url
https://signin.aws.amazo


us-east-1.console.aws.amazon.com/console/home?region=us-east-1#
aws
Services
ec2
N. Virginia
Corestack_Role/akshu20791_gmail @ amin19
Search results for 'ec2'
Try searching with longer queries for more relevant results
Services (12)
Features (53)
Resources New
Blogs (1,973)
Documentation (32,448)
Knowledge Articles (13)
Tutorials (21)
Events (30)
Marketplace (2,372)
Services
See all 12 results
EC2
Virtual Servers in the Cloud
EC2 Image Builder
A managed service to automate build, customize and deploy OS images
Amazon Inspector
Continual vulnerability management at scale
AWS Firewall Manager
Central management of firewall rules


aws
Services
Search
[Alt+S]
N. Virginia
Corestack_Role/akshu20791_gmail @ amin1905
New EC2 Experience
Tell us what you think
EC2 Dashboard
EC2 Global View
Events
Limits
Instances
Instances
Instance Types
Launch Templates
Spot Requests
Savings Plans
Reserved Instances
Dedicated Hosts
Instances Info
Connect
Instance state
Actions
Launch instances
Find instance by attribute or tag (case-sensitive)
Name
Instance ID
Instance state
Instance type
Status
No matching instances found
Select an instance

EC2 > Instances > Launch an instance

Launch an instance Info

Amazon EC2 allows you to create virtual machines, or instances, that run on the AWS Cloud. Quickly get started by following the simple steps below.

Name and tags Info

Name

jenkins-machine

Add additional tags

Application and OS Images (Amazon Machine Image) Info

An AMI is a template that contains the software configuration (operating system, application server, and applications) required to launch your instance. Search or Browse for AMIs if you don't see what you are looking for below

Summa

Number of in

1

Software Ima

Amazon Linu

ami-0715c189

Virtual server

t2.micro

Firewall (secu

New security

Storage (volu

Cancel

Recents | Quick Start

Amazon Linux | macOS | Ubuntu | Windows | Red Hat

Browse more AMIs

Including AMIs from AWS, Marketplace and the Community

Amazon Machine Image (AMI)

Ubuntu Server 22.04 LTS (HVM), SSD Volume Type — Free tier eligible

ami-053b0d53c279acc90 (64-bit (x86)) / ami-0a0c8eebcdd6dcbd0 (64-bit (Arm))

Virtualization: hvm ENA enabled: true Root device type: ebs

Description

Canonical, Ubuntu, 22.04 LTS, amd64 jammy image build on 2023-05-16

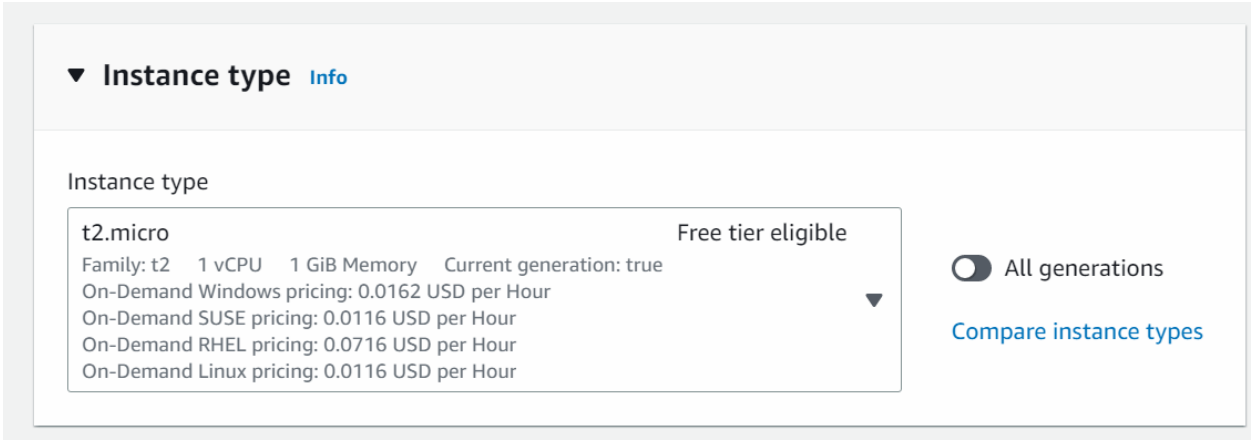
Architecture

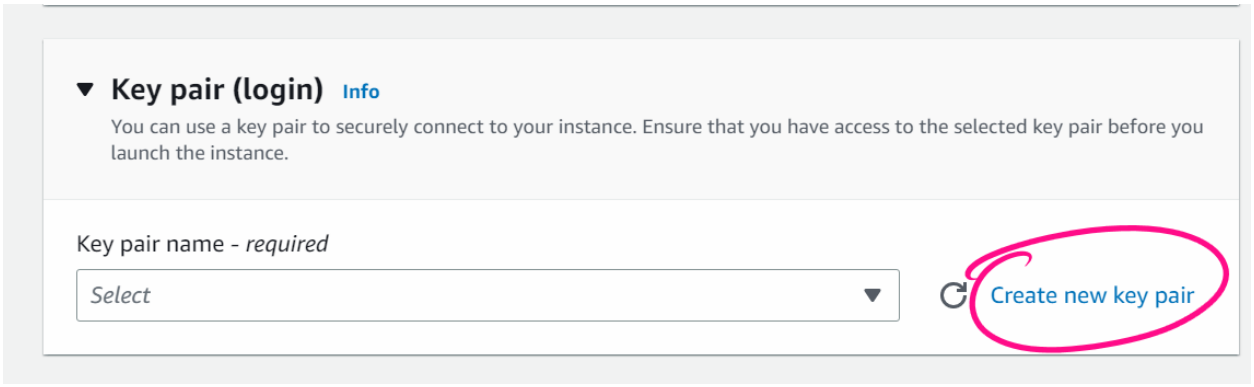
64-bit (x86)

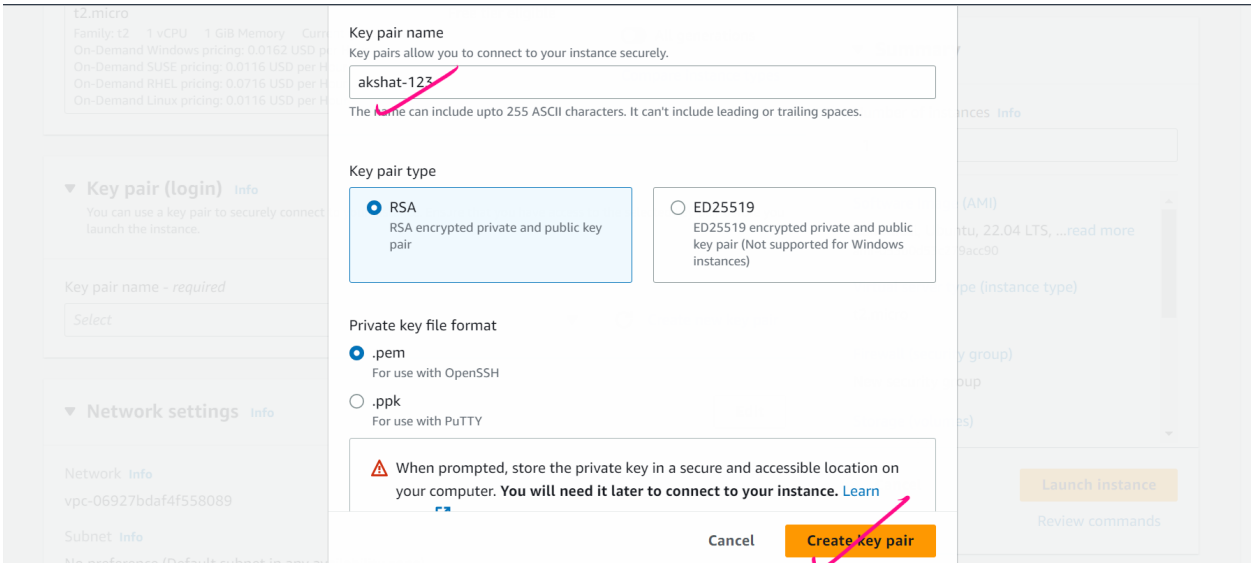
AMI ID

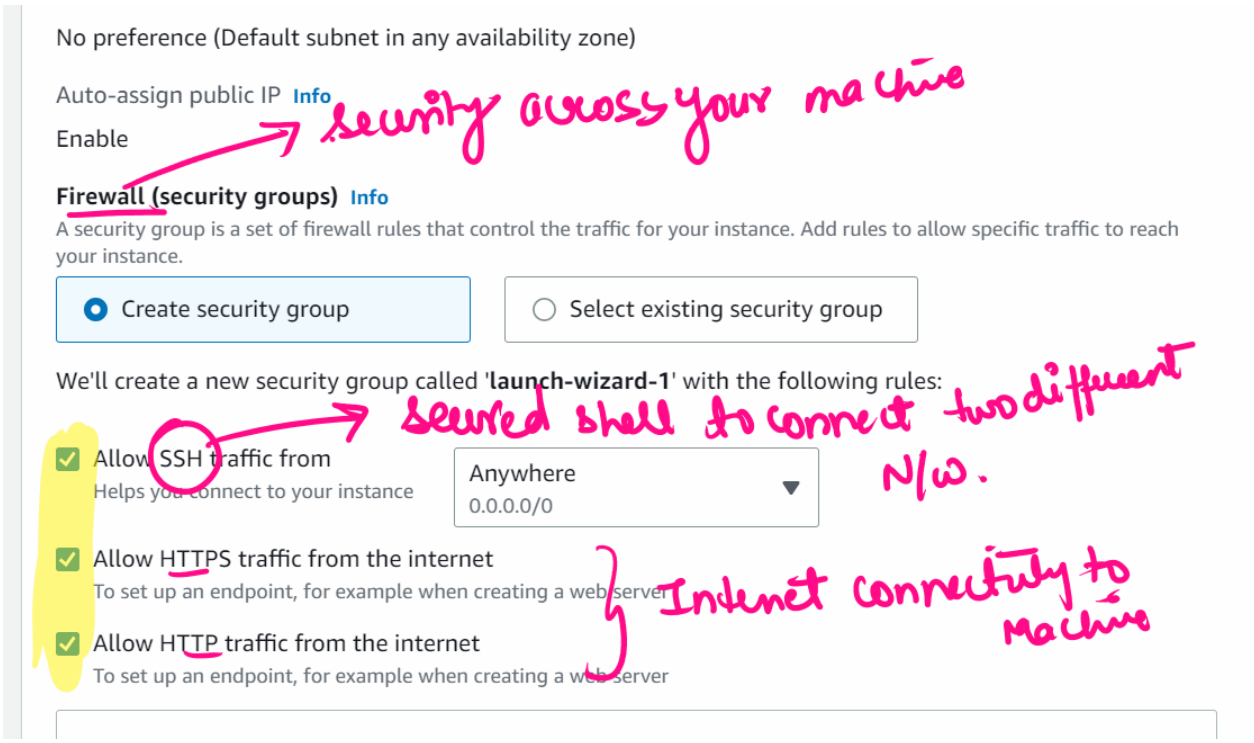
ami-053b0d53c279acc90

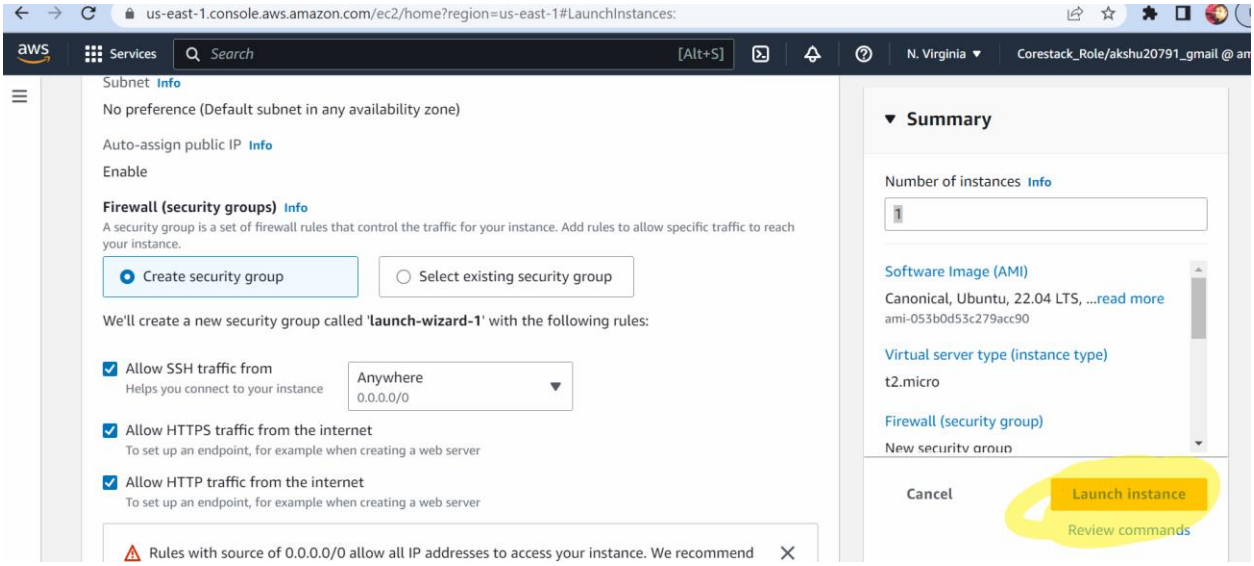
Verified provider


Instance type Info
Instance type
t2.micro
Free tier eligible
Family: t2 1 vCPU 1 GiB Memory Current generation: true
On-Demand Windows pricing: 0.0162 USD per Hour
On-Demand SUSE pricing: 0.0116 USD per Hour
On-Demand RHEL pricing: 0.0716 USD per Hour
On-Demand Linux pricing: 0.0116 USD per Hour
All generations
Compare instance types


Key pair (login) Info
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
Select
Create new key pair

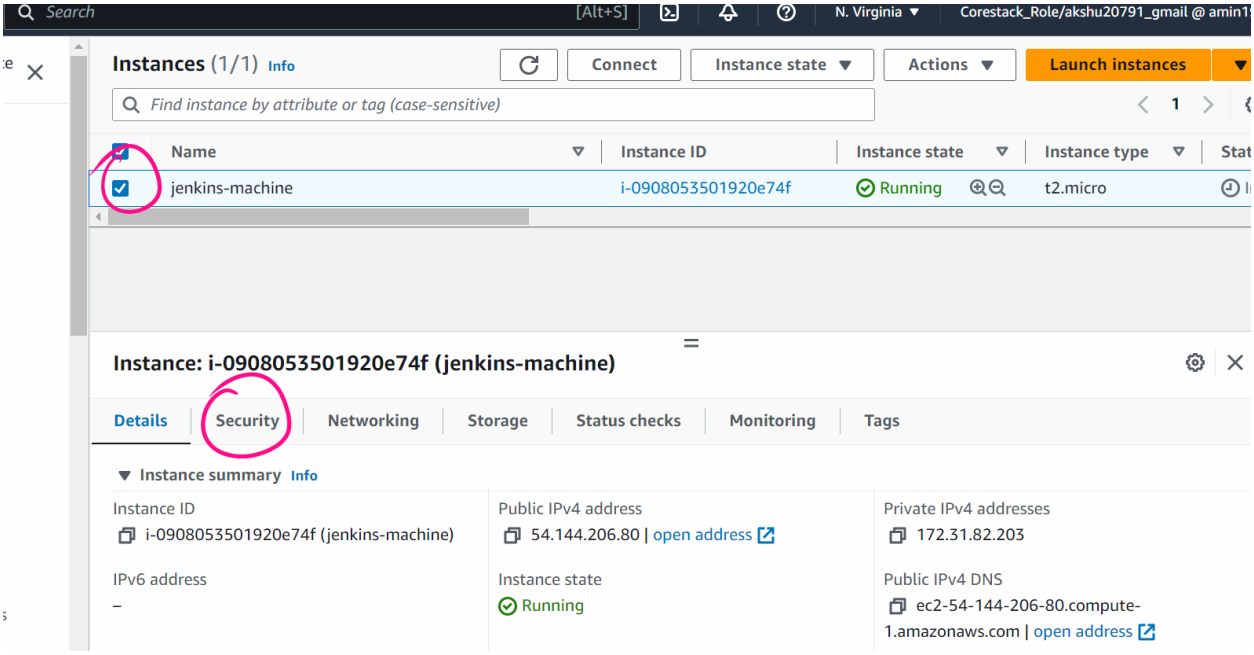

Key pair name
Key pairs allow you to connect to your instance securely.
akshat-123
The name can include upto 255 ASCII characters. It can't include leading or trailing spaces.
Key pair type
RSA
RSA encrypted private and public key pair
ED25519
ED25519 encrypted private and public key pair (Not supported for Windows instances)
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
Cancel
Create key pair

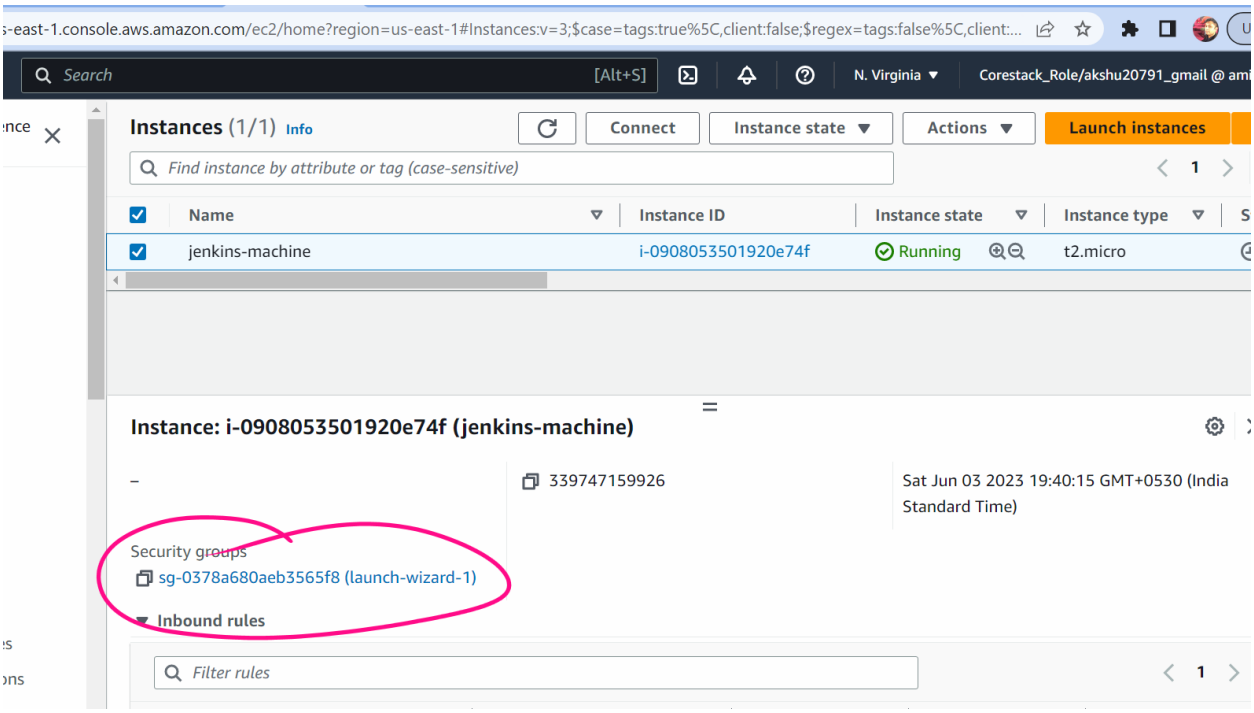


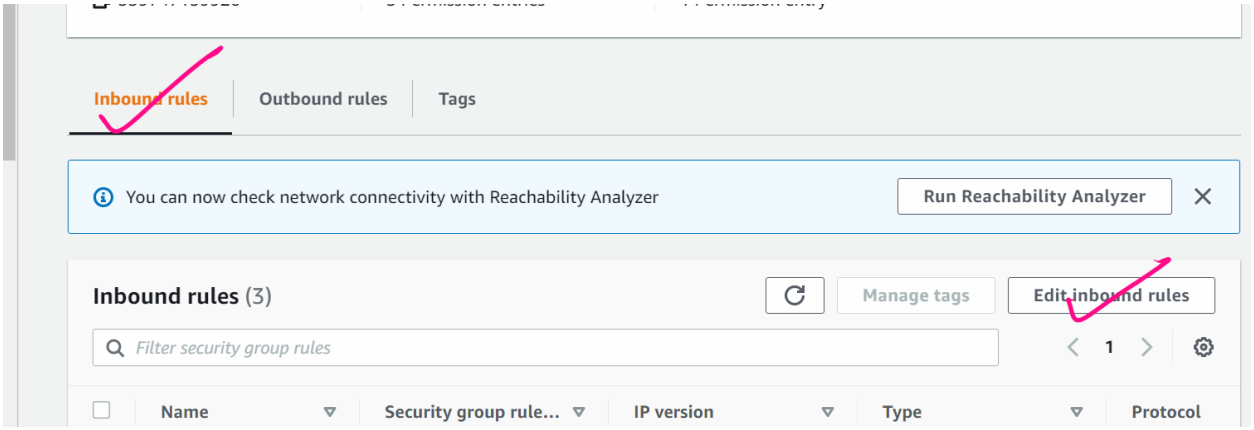


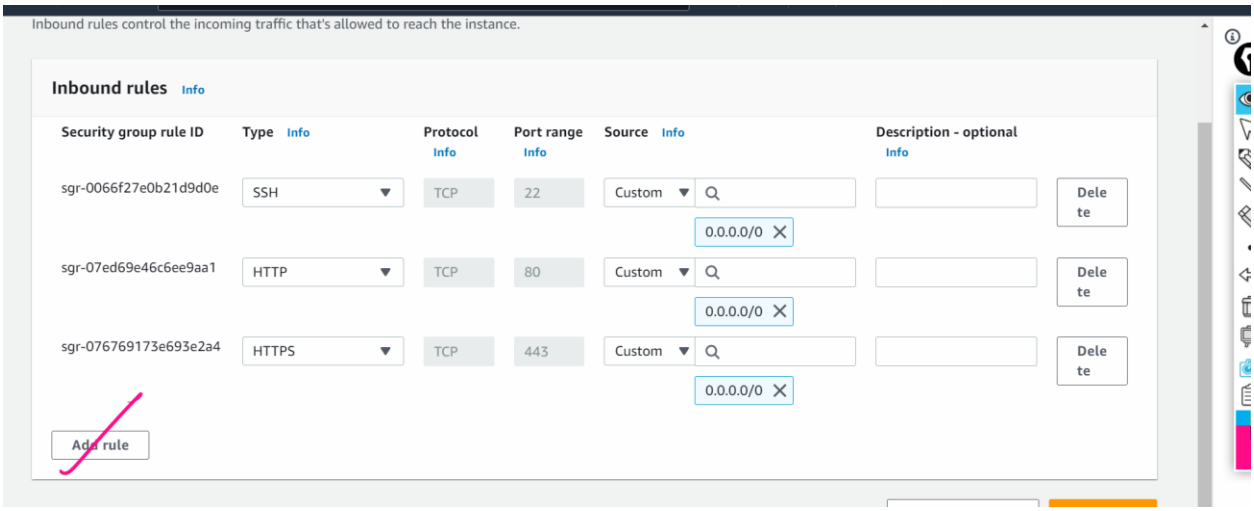
Launch instance

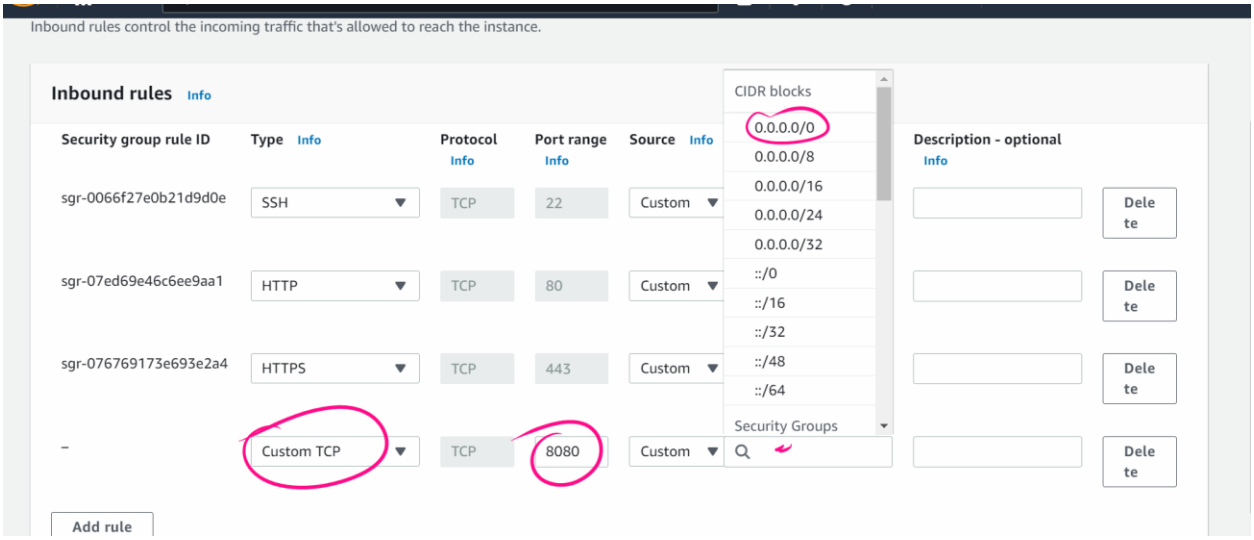
Jenkins work on port 8080 so we need to allow port 8080 in the machine

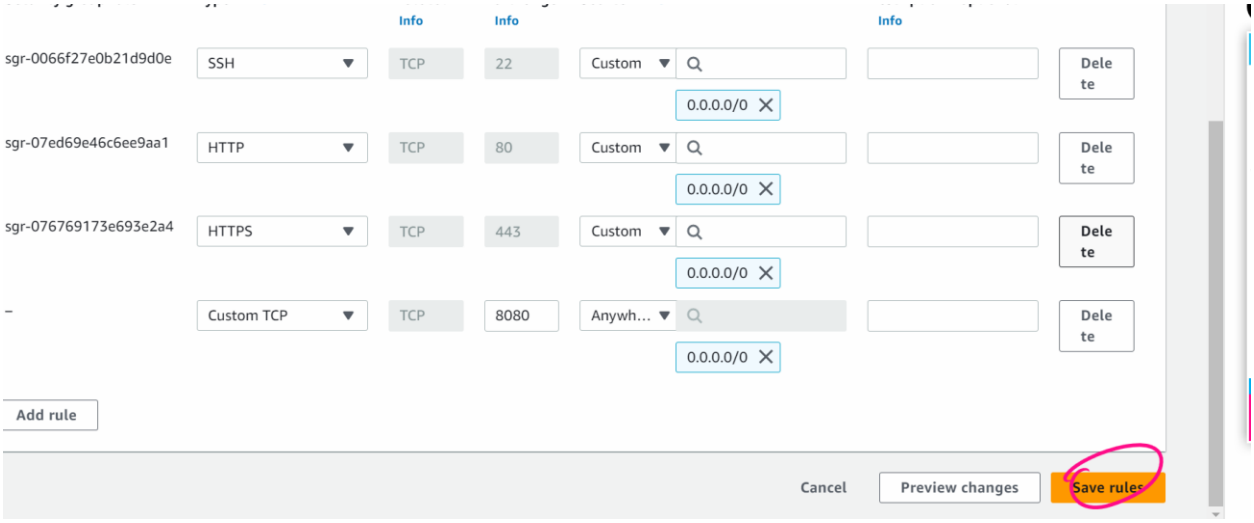





Inbound rules
Outbound rules
Tags
You can now check network connectivity with Reachability Analyzer
Run Reachability Analyzer
Inbound rules (3)
Manage tags
Edit inbound rules
Filter security group rules
1
Name
Security group rule...
IP version
Type
Protocol

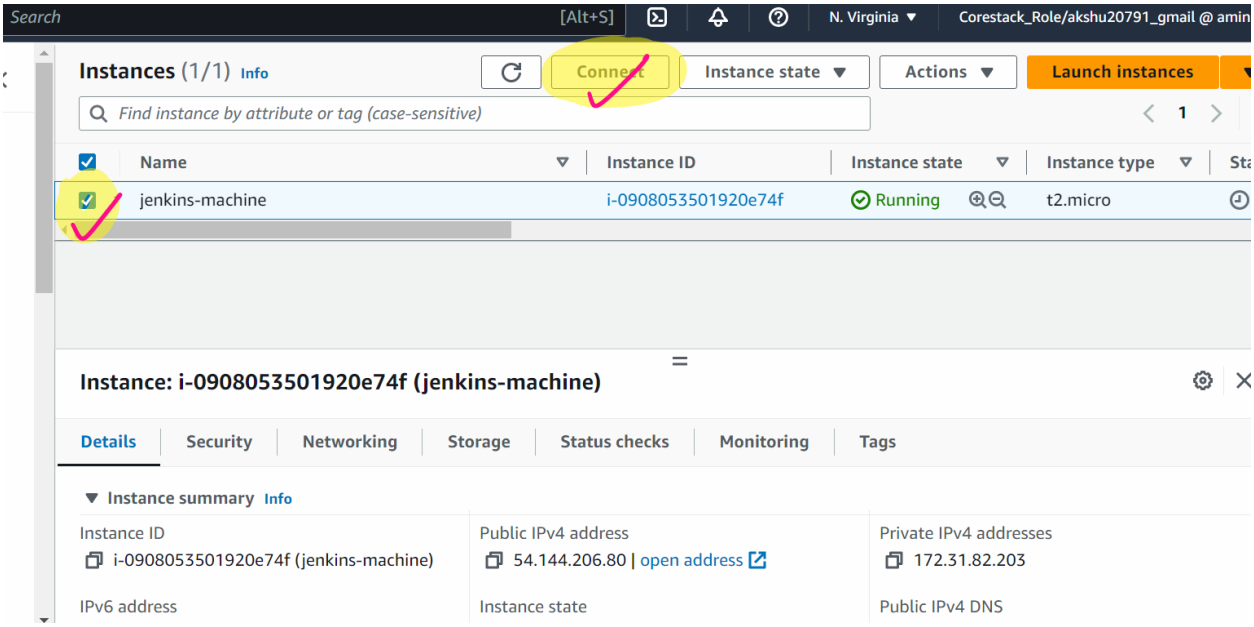

Inbound rules control the incoming traffic that's allowed to reach the instance.
Inbound rules Info
Security group rule ID
Type Info
Protocol Info
Port range Info
Source Info
Description - optional Info
sgr-0066f27e0b21d9d0e
SSH
TCP
22
Custom
0.0.0.0/0
Delete
sgr-07ed69e46c6ee9aa1
HTTP
TCP
80
Custom
0.0.0.0/0
Delete
sgr-076769173e693e2a4
HTTPS
TCP
443
Custom
0.0.0.0/0
Delete
Add rule

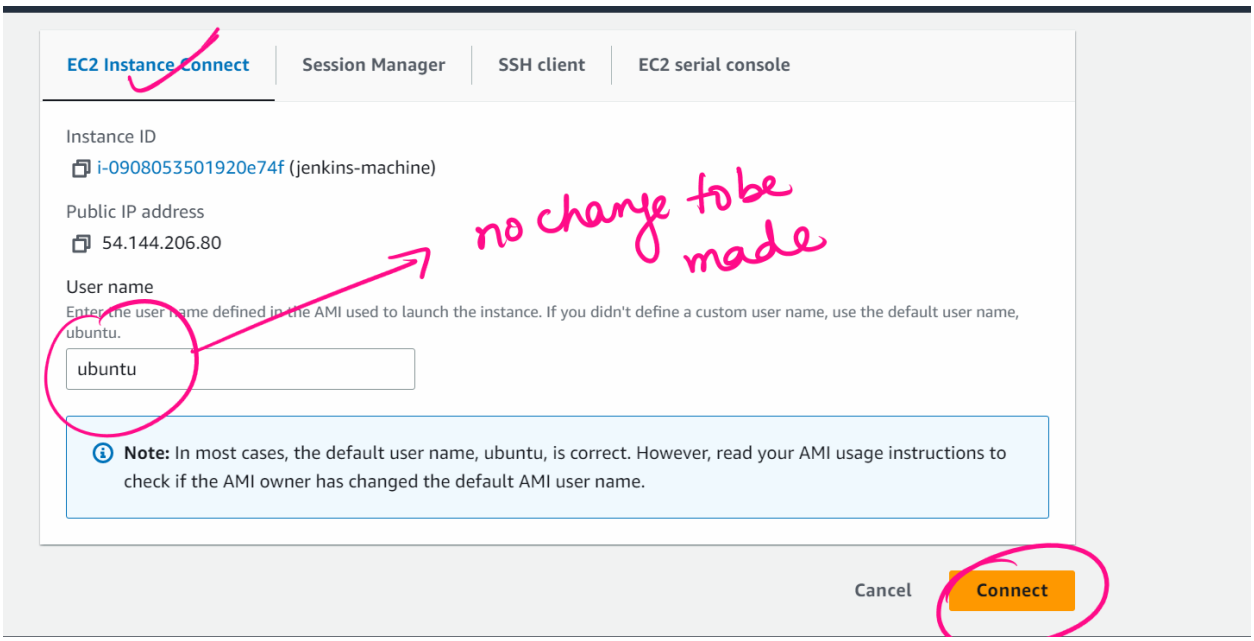

Inbound rules control the incoming traffic that's allowed to reach the instance.
Inbound rules Info
Security group rule ID
Type Info
Protocol Info
Port range Info
Source Info
Description - optional Info
sgr-0066f27e0b21d9d0e
SSH
TCP
22
Custom
sgr-07ed69e46c6ee9aa1
HTTP
TCP
80
Custom
sgr-076769173e693e2a4
HTTPS
TCP
443
Custom
-
Custom TCP
TCP
8080
Custom
Delete
Add rule
CIDR blocks
0.0.0.0/0
0.0.0.0/8
0.0.0.0/16
0.0.0.0/24
0.0.0.0/32
::/0
::/16
::/32
::/48
::/64
Security Groups

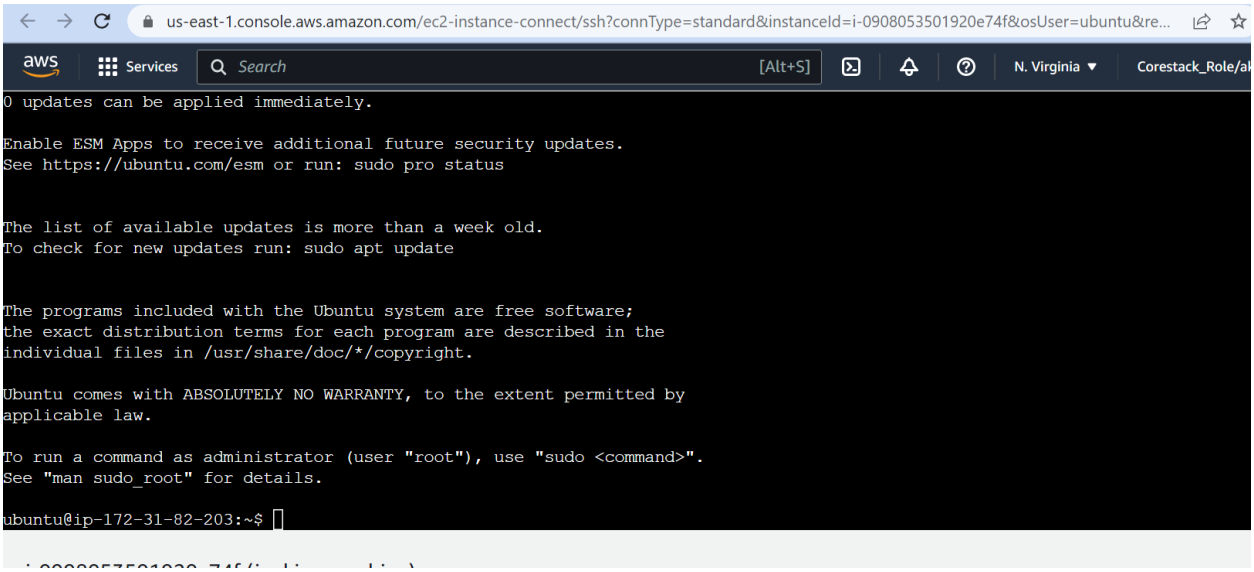


Click on instance on left side

Now lets connect to the machine







Login in the machine

sudo su

Command for installing Java

sudo apt-get update

sudo apt-get install default-jdk -y

apt-get install maven -y

Script for Jenkins installation

#Add Repository key to the system

```
curl -fsSL https://pkg.jenkins.io/debian-stable/jenkins.io-2023.key | sudo tee \
  /usr/share/keyrings/jenkins-keyring.asc > /dev/null


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
```

apt update -y

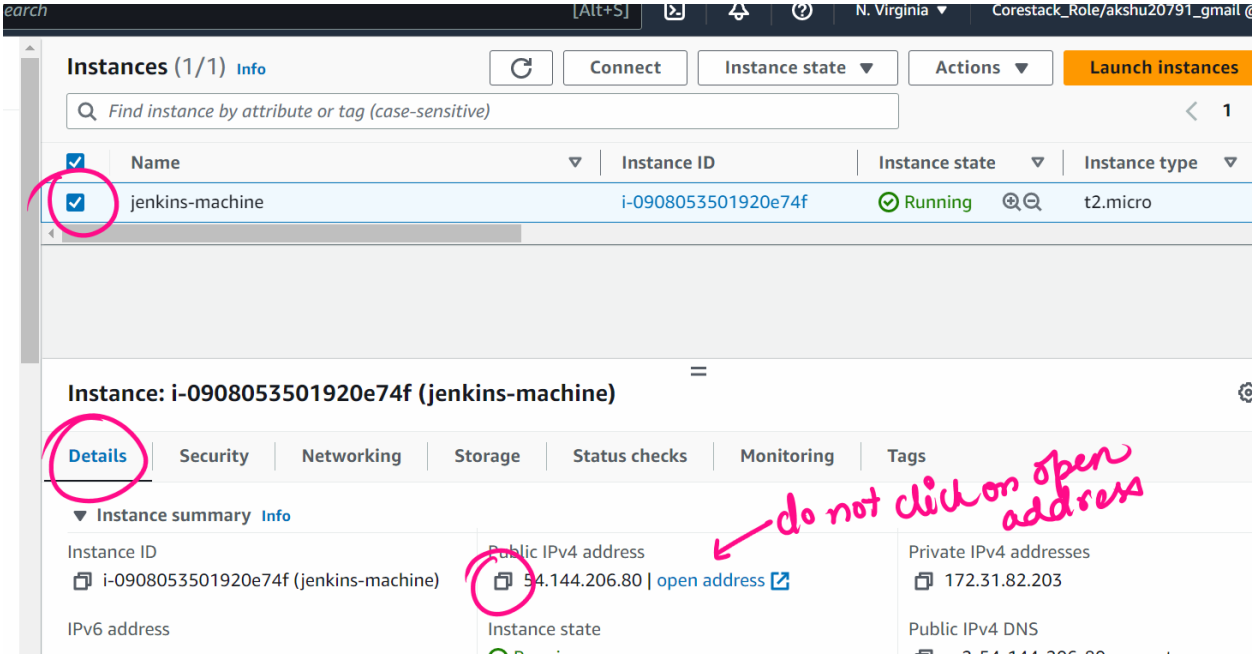
apt install git -y

Install Jenkins

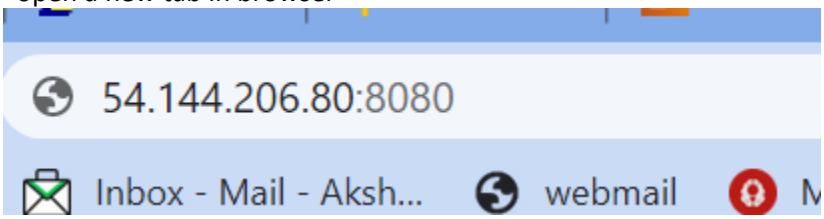
sudo apt-get install jenkins -y

service jenkins start

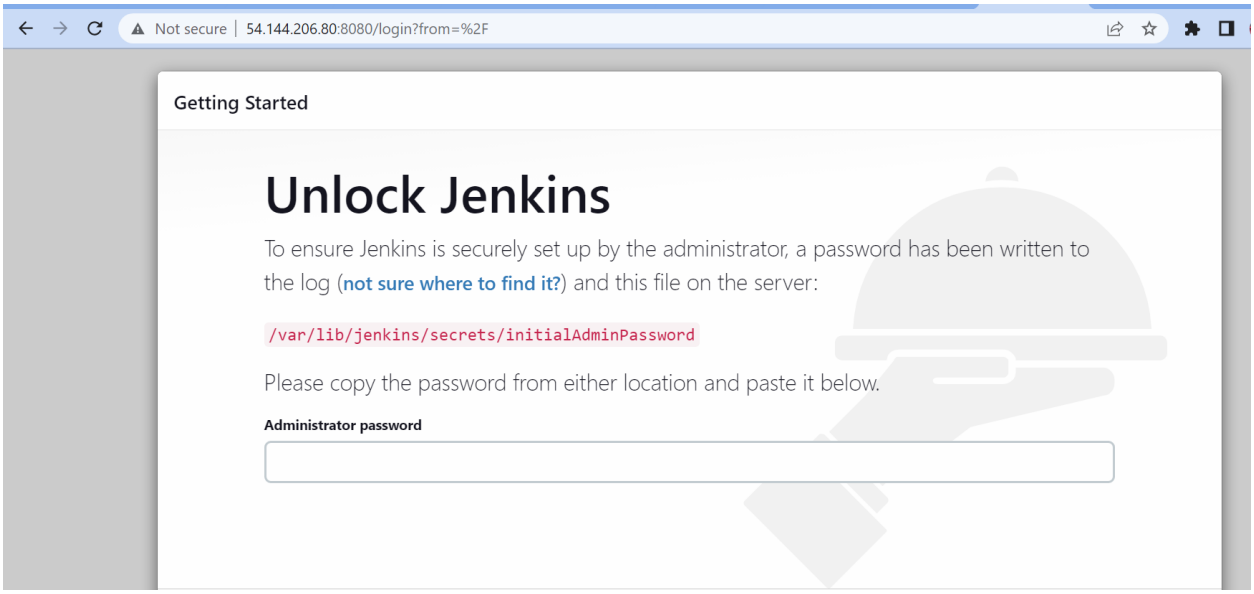
Go to aws dashboard ->ec2 -> instances



open a new tab in browser ->



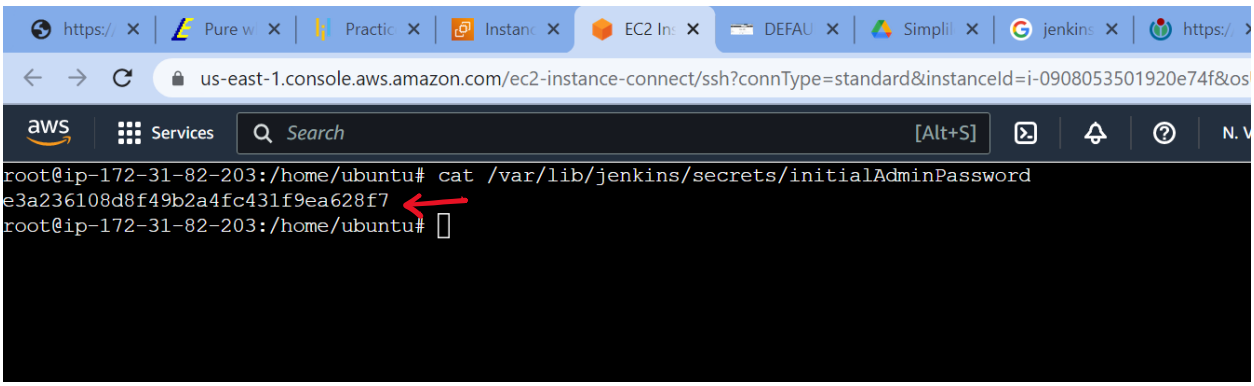
(do not put my ip address you can copy yours ip address)



To unlock Jenkins

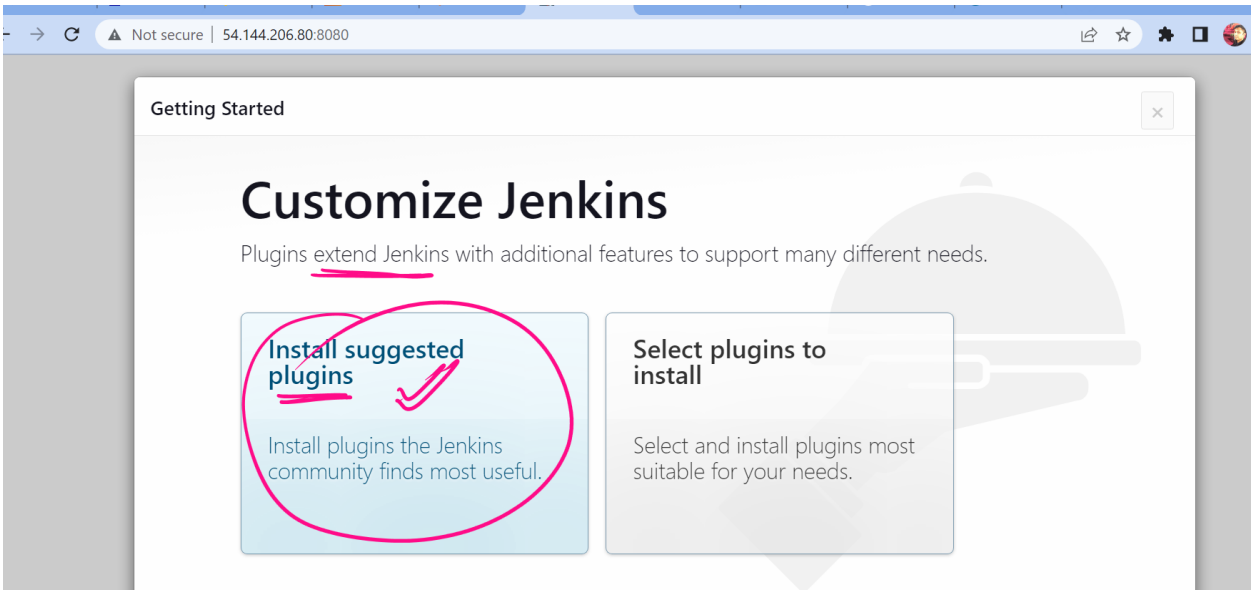
Go back to your machine

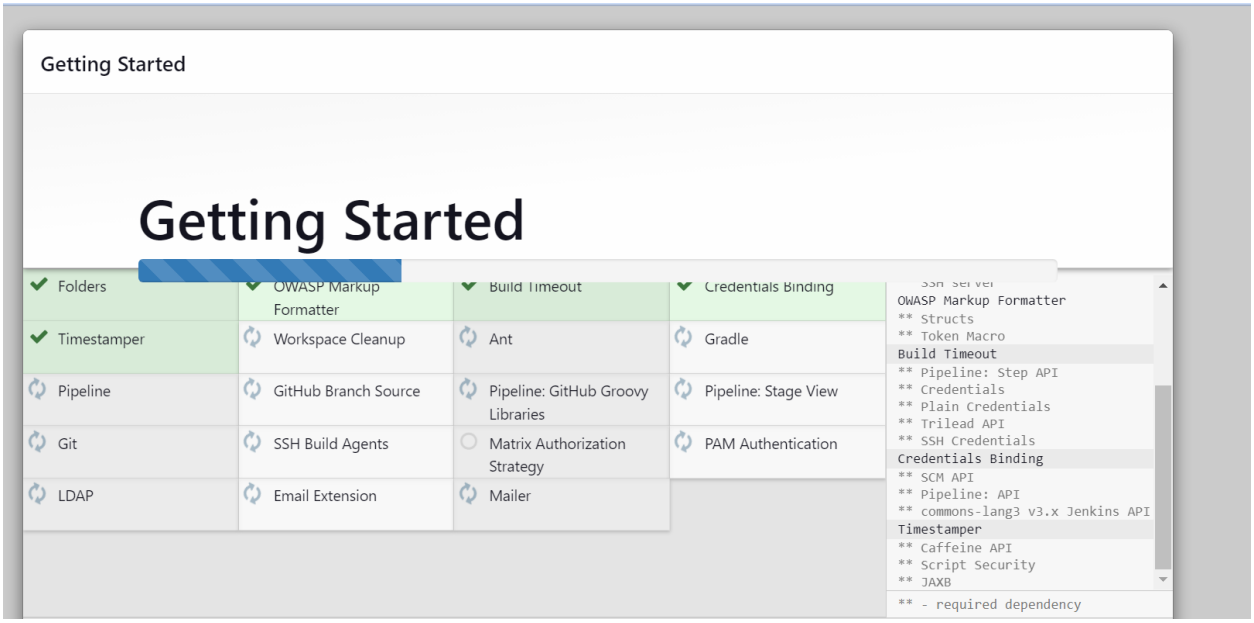
```
cat /var/lib/jenkins/secrets/initialAdminPassword
```



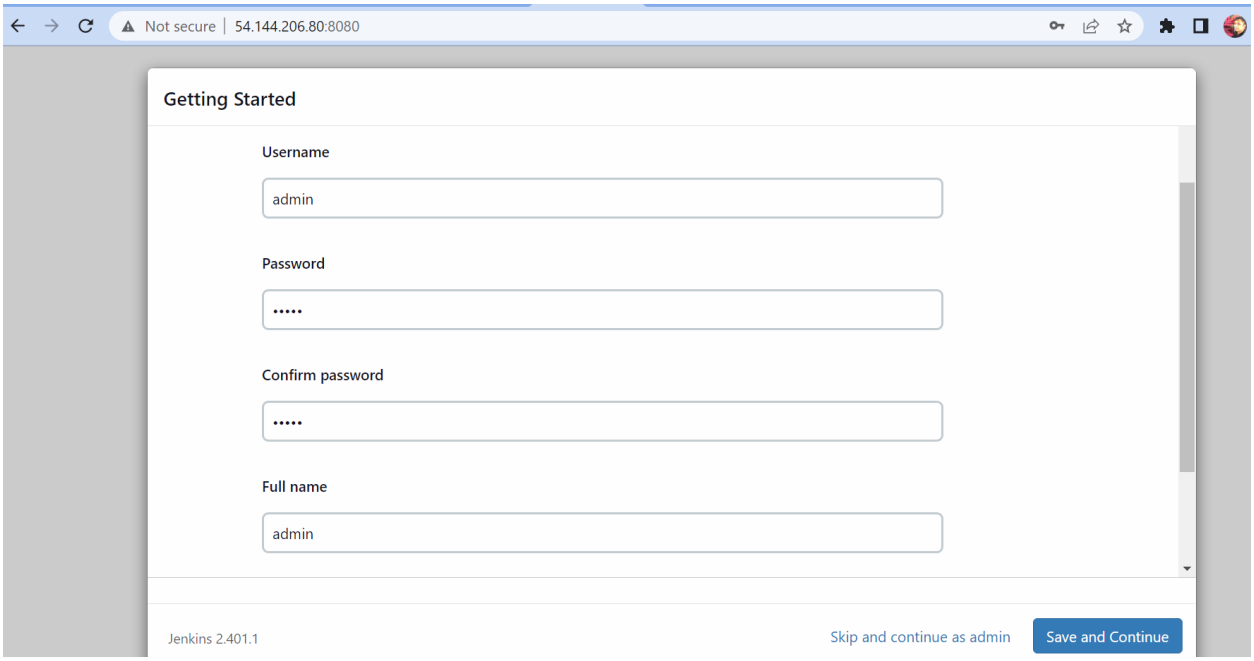
Copy the password and paste it in the Jenkins on browser

Click on next



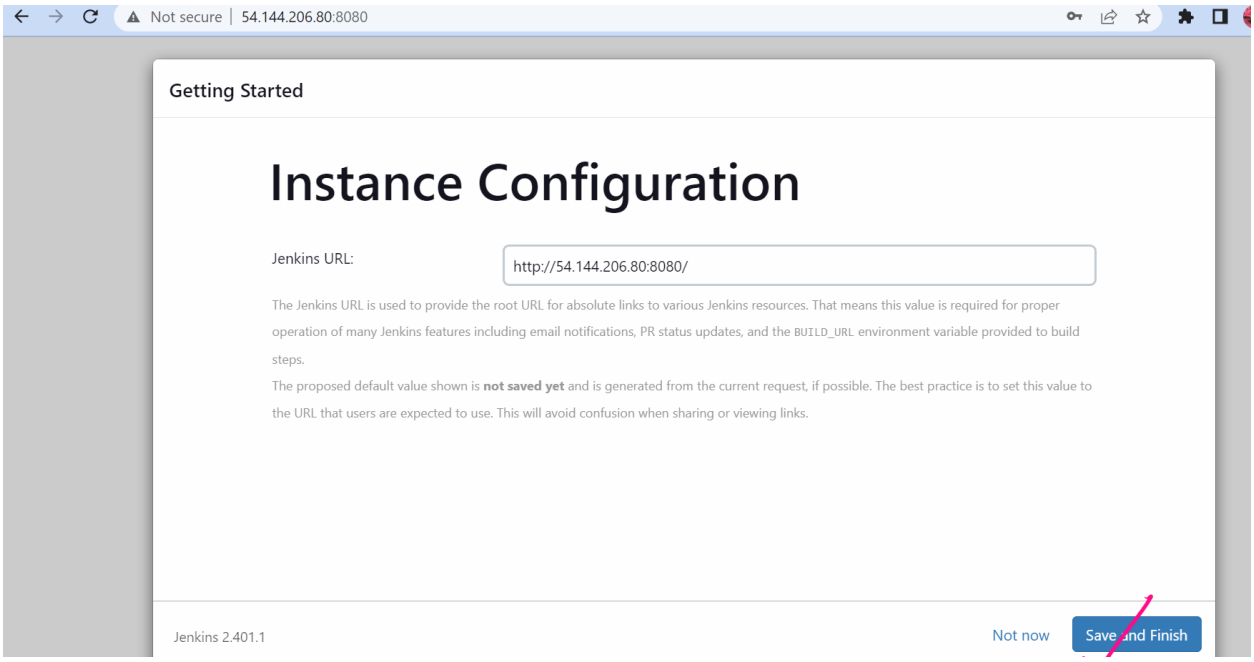


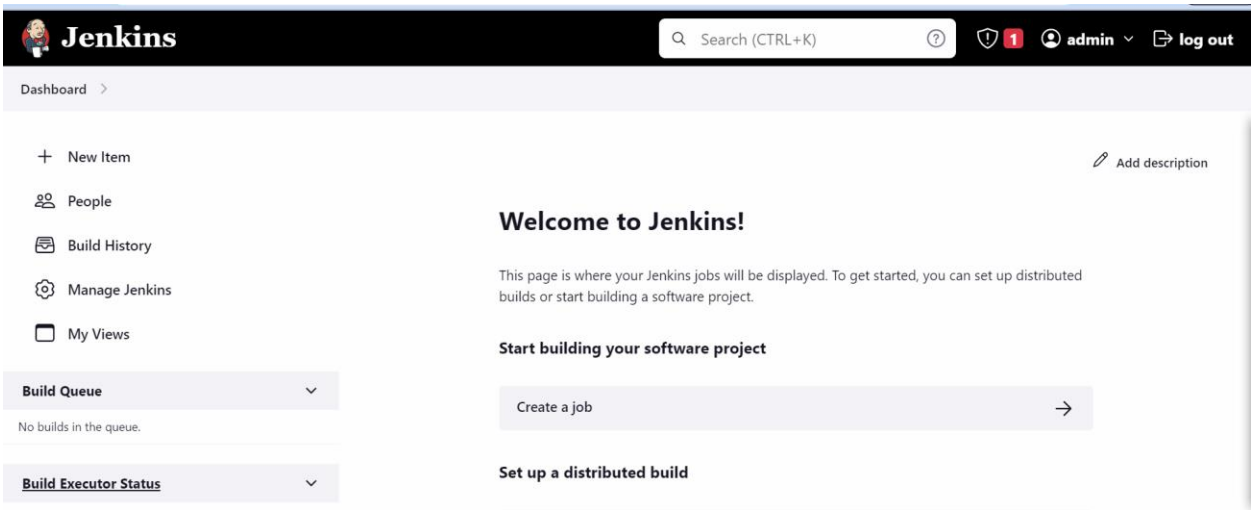
(this might take some time so we can even wait for it)



(do not forget this pass …admin admin))

Save


Not secure | 54.144.206.80:8080
Getting Started
Instance Configuration
Jenkins URL:
http://54.144.206.80:8080/
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.
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.
Jenkins 2.401.1
Not now
Save and Finish


Jenkins
Search (CTRL+K)
admin
log out
Dashboard
New Item
People
Build History
Manage Jenkins
My Views
Build Queue
No builds in the queue.
Build Executor Status
Add description
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