

JENKINS

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1.Create one instance in aws

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
Jenkinserver [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

▼ Summary

Number of instances [Info](#)
1

Software image (AMI)
Amazon Linux 2023 AMI 2023.3.2...[read more](#)
ami-02ec49345a878486

Virtual server type (instance type)
t2.micro

Firewall (security group)
New security group

Storage (volumes)
1 volume(s) - 8 GiB

[Cancel](#) [Launch instance](#)

2.Select ubuntu

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-04f5097681773b989 (64-bit (x86)) / ami-0b71cd1a5da0c93ec (64-bit (Arm))
Virtualization: hvm ENA enabled: true Root device type: ebs

Description
Canonical, Ubuntu, 22.04 LTS, amd64 jammy image build on 2023-12-07

Architecture **AMI ID**
64-bit (x86) ami-04f5097681773b989 [Verified provider](#)

▼ Summary

Number of instances [Info](#)
1

Software image (AMI)
Canonical, Ubuntu, 22.04 LTS, ...[read more](#)
ami-04f5097681773b989

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[Cancel](#) [Launch instance](#)

3.Create key pair

On-Demand RHEL base pricing: 0.0746 USD per Hour
[Additional costs apply for AMIs with pre-installed software](#)

▼ 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*
Jenkinskey [Create new key pair](#)

▼ Network settings [Info](#) [Edit](#)

Network [Info](#)
vpc-00a56e232c5266b5f

Subnet [Info](#)
No preference (Default subnet in any availability zone)

▼ Summary

Number of instances [Info](#)
1

Software image (AMI)
Canonical, Ubuntu, 22.04 LTS, ...[read more](#)
ami-04f5097681773b989

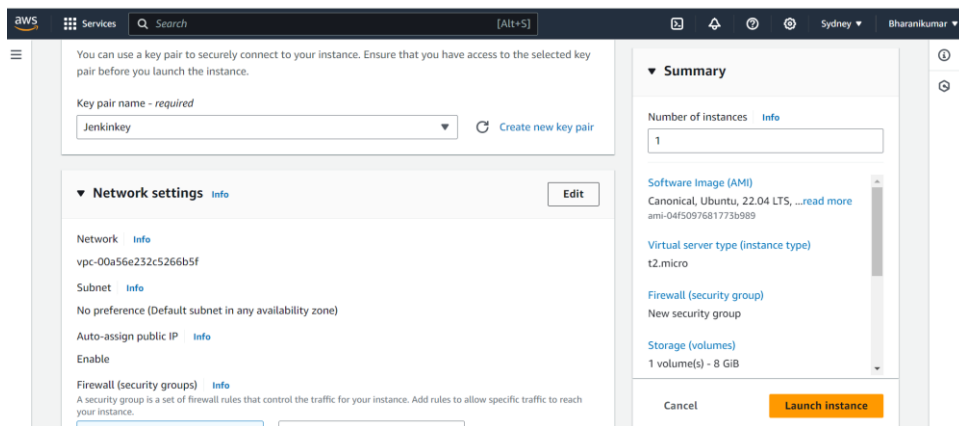
Virtual server type (instance type)
t2.micro

Firewall (security group)
New security group

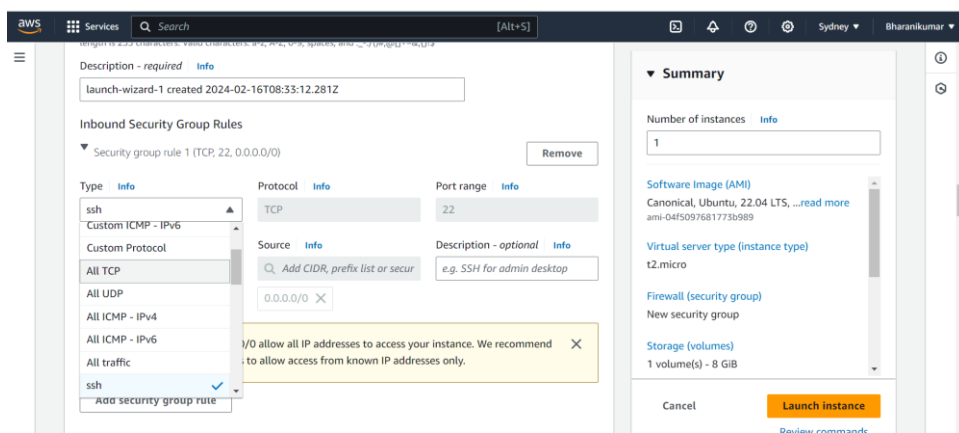
Storage (volumes)
1 volume(s) - 8 GiB

[Cancel](#) [Launch instance](#)

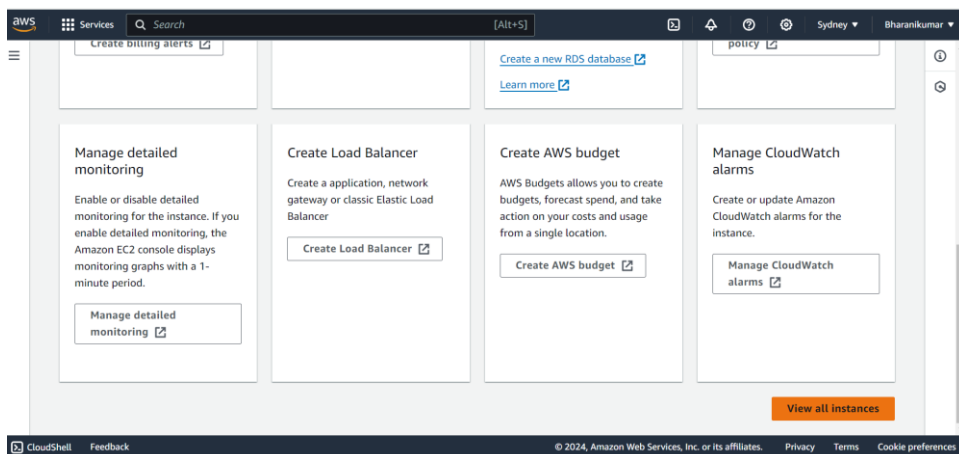
4.Go to network setting and click edit



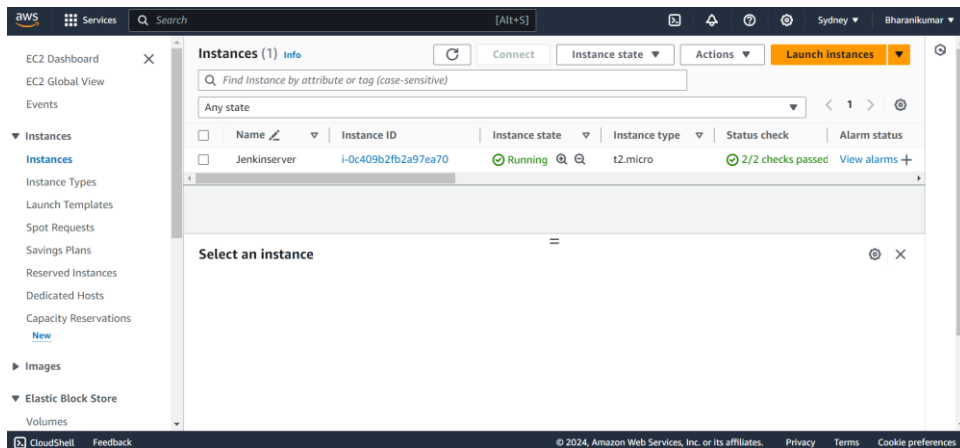
5.Change SSH to All TCP then Launch instance



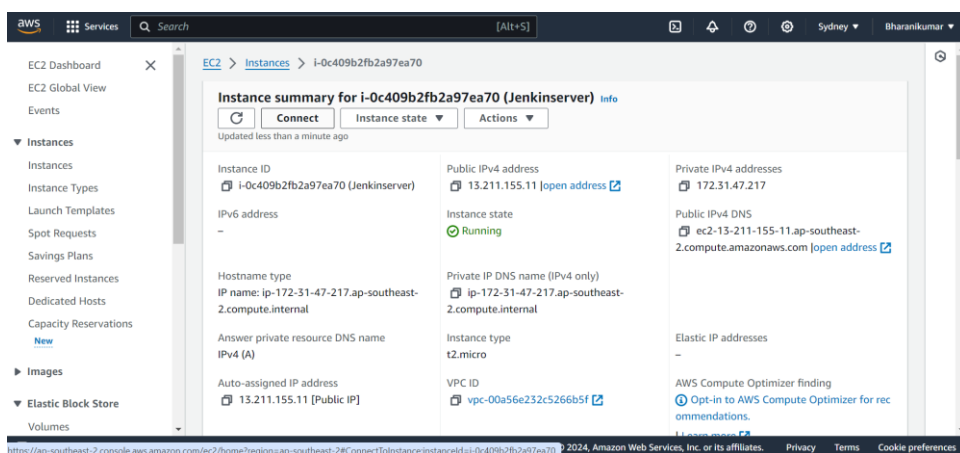
6.Select to view all instances



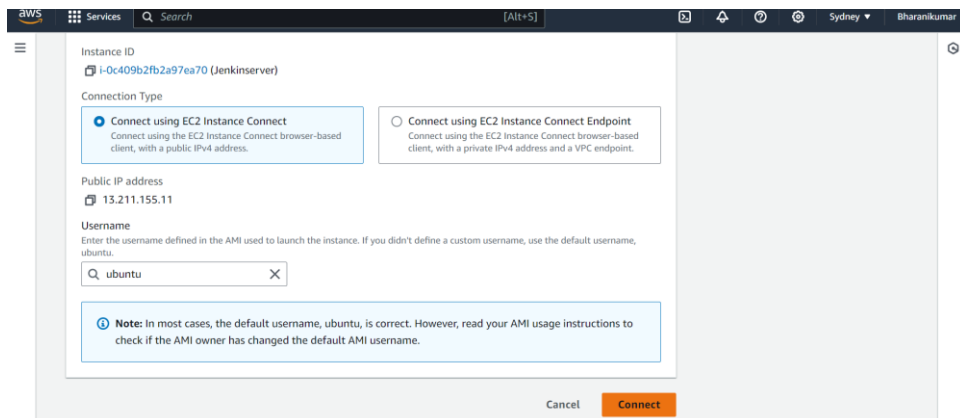
7.Now instance is running successful



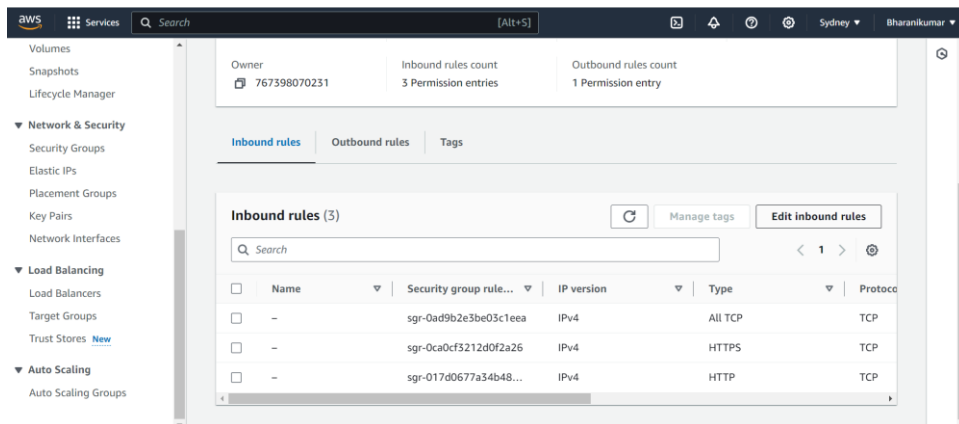
8. Select instance ID and select connect



9. Select connect



10. Go to security groups > inbound rules > edit inbound rules > Add HTTPS & HTTP



11. then go to shell and type commands:

- First you have to install java
- `sudo apt update`
`sudo apt install fontconfig openjdk-17-jre`
`java -version`
- `sudo wget -O /etc/yum.repos.d/jenkins.repo \`
`https://pkg.jenkins.io/redhat-stable/jenkins.repo`
- `sudo rpm --import https://pkg.jenkins.io/redhat-stable/jenkins.io-2023.key`
- `sudo dnf upgrade`
- `sudo dnf install fontconfig java-17-openjdk`
- `sudo dnf install jenkins`
- `sudo systemctl daemon-reload`
- After that

Start Jenkins

You can enable the Jenkins service to start at boot with the command:

```
sudo systemctl enable jenkins
```

You can start the Jenkins service with the command:

```
sudo systemctl start jenkins
```

12. type the above commands

```
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-172-31-47-217:~$
```

i-0c409b2fb2a97ea70 (Jenkinsserver)

PublicIPs: 13.211.155.11 PrivateIPs: 172.31.47.217

```
ubuntu@ip-172-31-47-217:~$ sudo apt update
Hit:1 http://ap-southeast-2.ec2.archive.ubuntu.com/ubuntu jammy InRelease
Set:2 http://ap-southeast-2.ec2.archive.ubuntu.com/ubuntu jammy-updates InRelease [119 kB]
Set:3 http://ap-southeast-2.ec2.archive.ubuntu.com/ubuntu jammy-backports InRelease [109 kB]
Set:4 http://ap-southeast-2.ec2.archive.ubuntu.com/ubuntu jammy/universe amd64 Packages [14.1 MB]
Set:5 http://security.ubuntu.com/ubuntu jammy-security InRelease [110 kB]
Set:6 http://ap-southeast-2.ec2.archive.ubuntu.com/ubuntu jammy/universe Translation-en [5652 kB]
Set:7 http://ap-southeast-2.ec2.archive.ubuntu.com/ubuntu jammy/universe amd64 c-n-f Metadata [286 kB]
Set:8 http://ap-southeast-2.ec2.archive.ubuntu.com/ubuntu jammy/multiverse amd64 Packages [217 kB]
Set:9 http://ap-southeast-2.ec2.archive.ubuntu.com/ubuntu jammy/multiverse Translation-en [112 kB]
Set:10 http://ap-southeast-2.ec2.archive.ubuntu.com/ubuntu jammy/multiverse amd64 c-n-f Metadata [8372 B]
Set:11 http://ap-southeast-2.ec2.archive.ubuntu.com/ubuntu jammy-updates/main amd64 Packages [1377 kB]
Set:12 http://ap-southeast-2.ec2.archive.ubuntu.com/ubuntu jammy-updates/main Translation-en [273 kB]
Set:13 http://ap-southeast-2.ec2.archive.ubuntu.com/ubuntu jammy-updates/restricted amd64 Packages [1431 kB]
Set:14 http://ap-southeast-2.ec2.archive.ubuntu.com/ubuntu jammy-updates/restricted Translation-en [235 kB]
Set:15 http://ap-southeast-2.ec2.archive.ubuntu.com/ubuntu jammy-updates/universe amd64 Packages [1049 kB]
Set:16 http://ap-southeast-2.ec2.archive.ubuntu.com/ubuntu jammy-updates/universe Translation-en [237 kB]
Set:17 http://ap-southeast-2.ec2.archive.ubuntu.com/ubuntu jammy-updates/universe amd64 c-n-f Metadata [22.1 kB]
Set:18 http://ap-southeast-2.ec2.archive.ubuntu.com/ubuntu jammy-updates/multiverse amd64 Packages [42.1 kB]
Set:19 http://ap-southeast-2.ec2.archive.ubuntu.com/ubuntu jammy-updates/multiverse Translation-en [10.1 kB]

i-0c409b2fb2a97ea70 (Jenkinsserver)
```

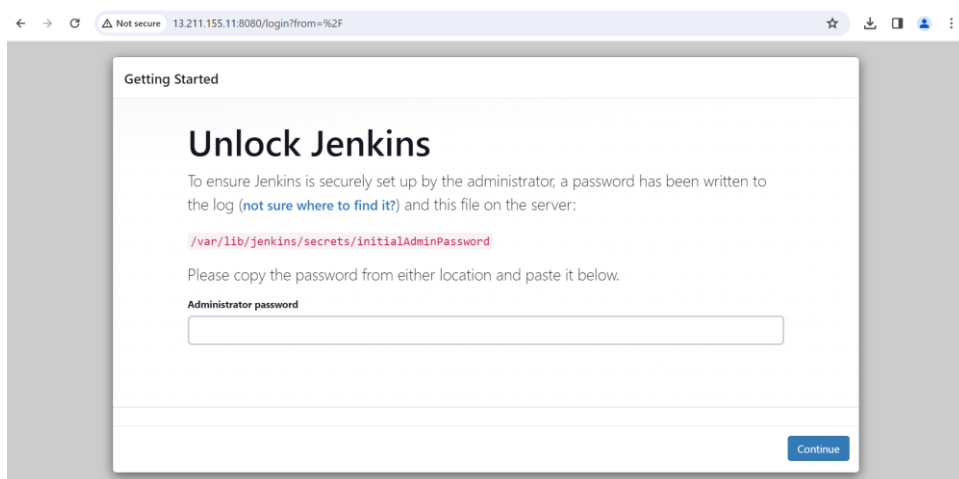
PublicIPs: 13.211.155.11 PrivateIPs: 172.31.47.217

13.Go to browser and copy instance id and paste it with 8080

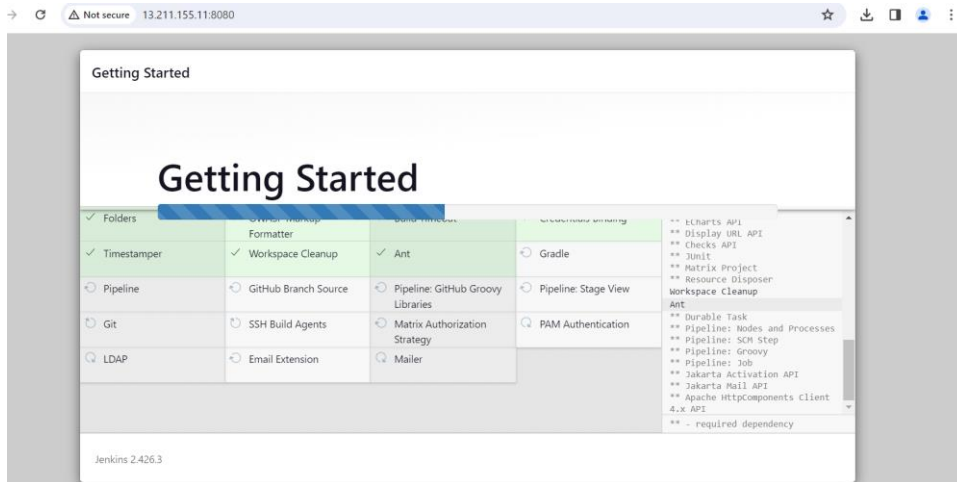
- Then type the command;
The command: `sudo cat /var/lib/jenkins/secrets/initialAdminPassword` will print the password at console.

```
Last login: Fri Feb 16 08:44:20 2024 from 13.239.158.3
ubuntu@ip-172-31-47-217:~$ sudo cat /var/lib/jenkins/secrets/initialAdminPassword
c761c2e0cc6145629feaf872e3d37dd7
```

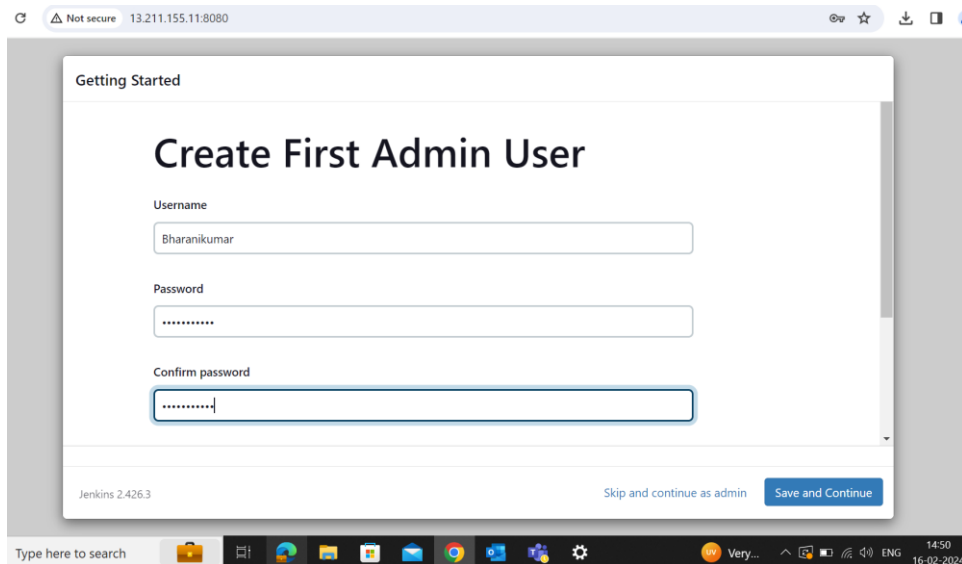
- `ubuntu@ip-172-31-47-217:~$`
- Then enter password and select continue



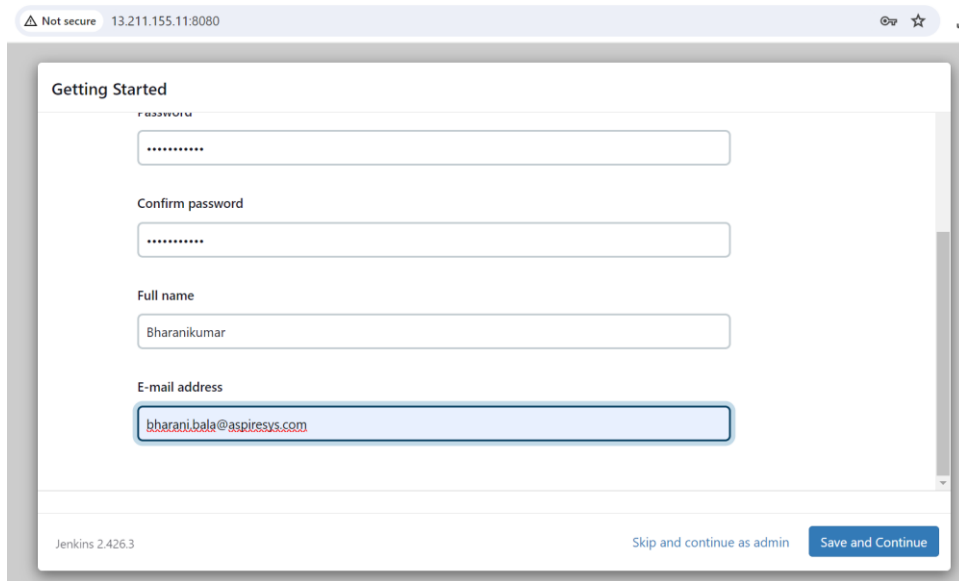
14.Install suggestion plugins:



15.Create user name and password > save and continue

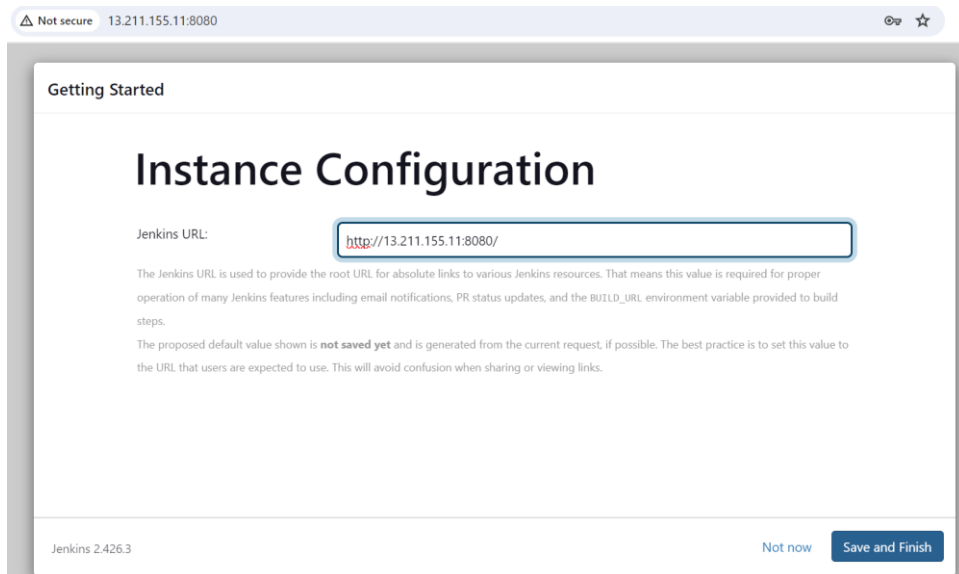


16.select save and continue



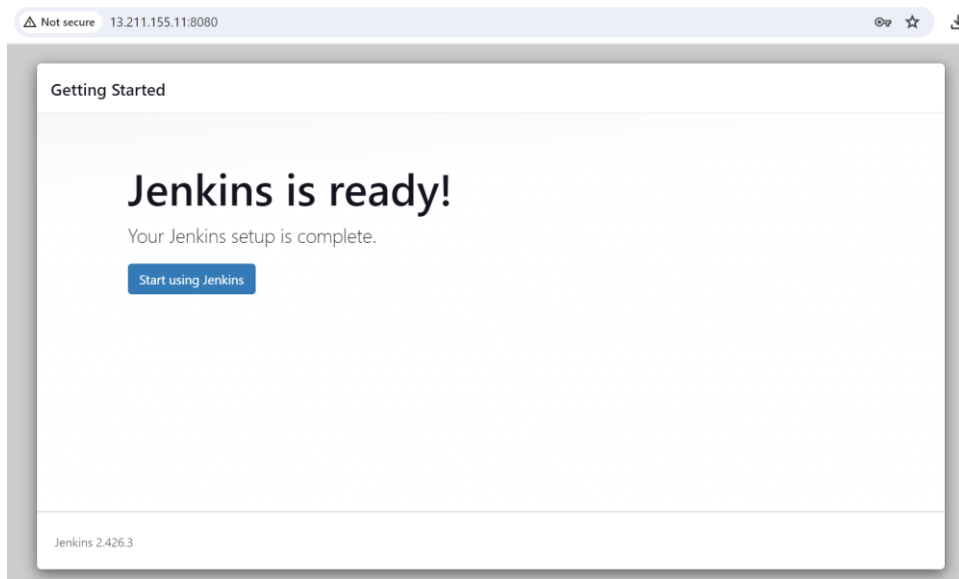
A screenshot of the Jenkins 'Getting Started' configuration page. The browser address bar shows '13.211.155.11:8080'. The page has a title 'Getting Started'. It contains four input fields: a password field (masked with dots), a 'Confirm password' field (also masked), a 'Full name' field containing 'Bharanikumar', and an 'E-mail address' field containing 'bharani.bala@aspiresys.com'. At the bottom, there is a 'Jenkins 2.426.3' label, a link 'Skip and continue as admin', and a blue 'Save and Continue' button.

17. Select > save and finish



A screenshot of the Jenkins 'Instance Configuration' page. The browser address bar shows '13.211.155.11:8080'. The page has a title 'Getting Started' and a main heading 'Instance Configuration'. It features a 'Jenkins URL:' label followed by an input field containing 'http://13.211.155.11:8080/'. Below this, there is explanatory text about the Jenkins URL. At the bottom, there is a 'Jenkins 2.426.3' label, a 'Not now' link, and a blue 'Save and Finish' button.

18. Jenkins is ready > Start using Jenkins



19.This is the jenkins page

