

demo_1- installing Jenkins on AWS

103.59.74.40

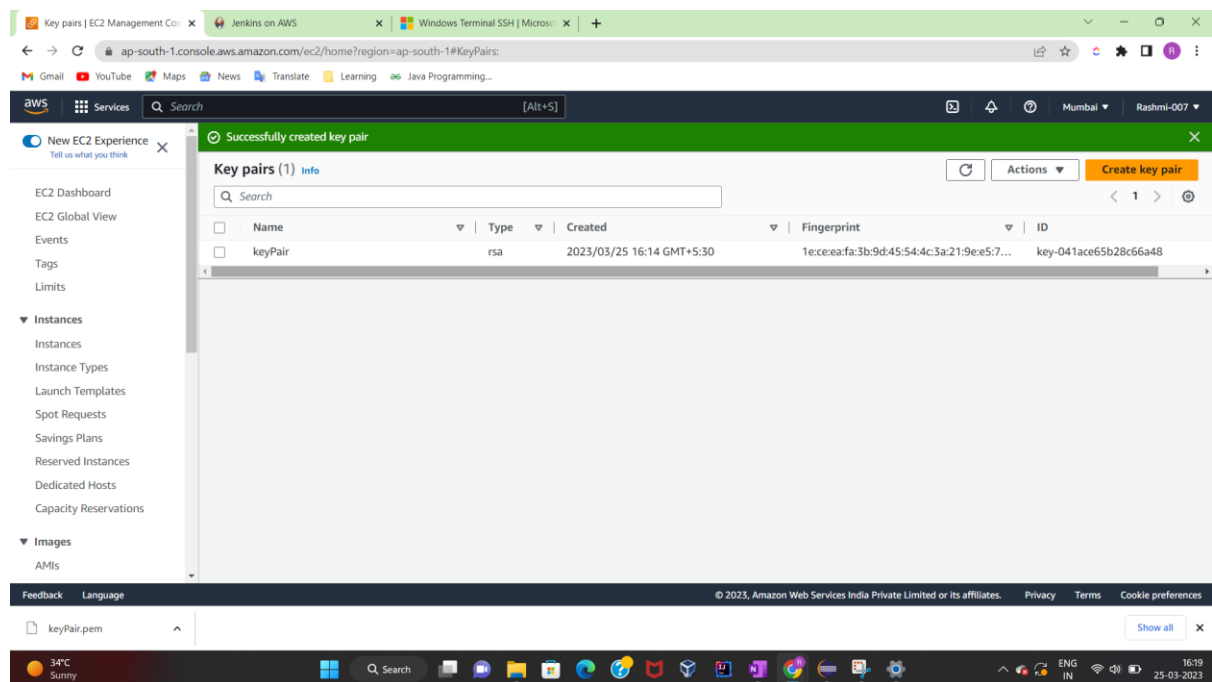
From <<http://checkip.amazonaws.com/>>

<https://www.jenkins.io/doc/tutorials/tutorial-for-installing-jenkins-on-AWS/#step1-security-group>

Creating a key pair

Creating a key pair helps ensure that the correct form of authentication is used when you install Jenkins.

From <<https://www.jenkins.io/doc/tutorials/tutorial-for-installing-jenkins-on-AWS/#creating-a-key-pair>>



Creating a security group

A security group acts as a firewall that controls the traffic allowed to reach one or more EC2 instances. When you launch an instance, you can assign it one or more security groups. You add rules that control the traffic allowed to reach the instances in each security group. You can modify a security group's rules any time, and the new rules take effect immediately.

For this tutorial, you will create a security group and add the following rules:

- Allow inbound HTTP access from anywhere.
- Allow inbound SSH traffic from your computer's public IP address so you can connect to your instance.

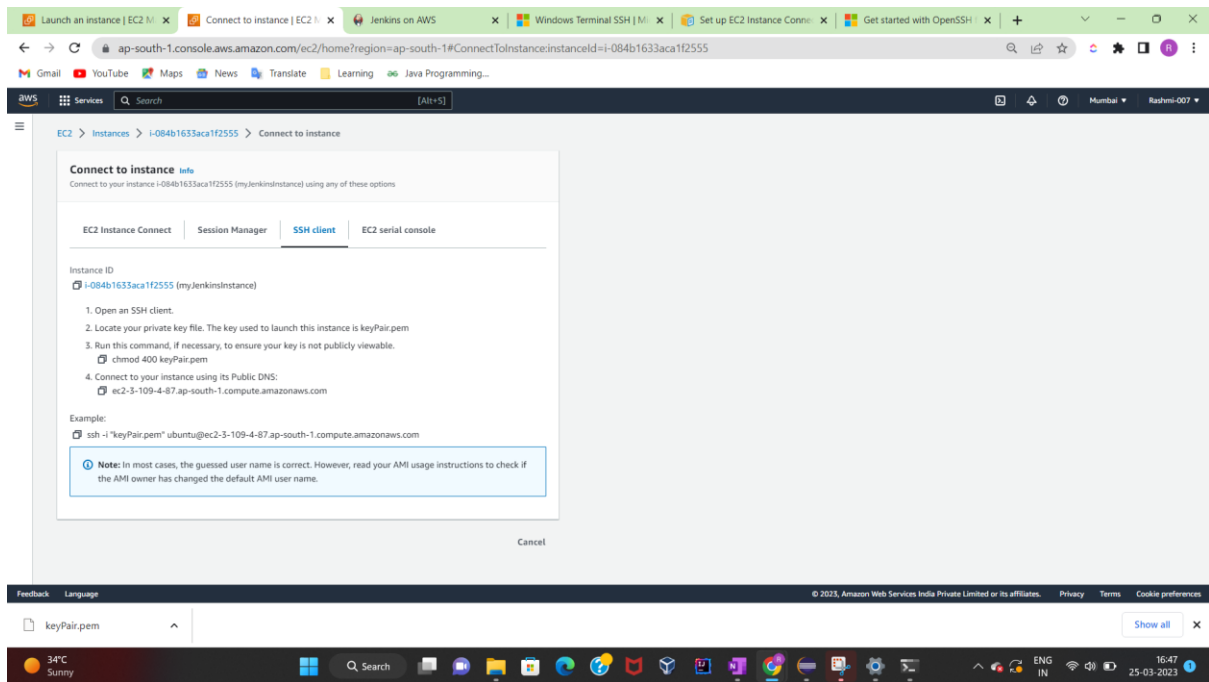
From <<https://www.jenkins.io/doc/tutorials/tutorial-for-installing-jenkins-on-AWS/#creating-a-key-pair>>

The screenshot shows the AWS Management Console interface. The top navigation bar includes the AWS logo, a search bar, and user information. The left sidebar contains navigation links for various AWS services. The main content area displays the 'Instance summary for i-084b1633aca1f2555 (myJenkinsInstance)'. The instance is in a 'Pending' state. The summary includes details such as the Instance ID, Public IPv4 address (3.109.4.87), Private IPv4 addresses (172.31.34.163), Hostname type, IP name, Answer private resource DNS name, Auto-assigned IP address, IAM Role, VPC ID, Subnet ID, and Elastic IP addresses. Below the summary, there are tabs for 'Details', 'Security', 'Networking', 'Storage', 'Status checks', 'Monitoring', and 'Tags'. The 'Details' tab is selected, showing further information about the instance's platform, AMI, and launch time.

3.109.4.87

172.31.34.163

From <<https://ap-south-1.console.aws.amazon.com/ec2/home?region=ap-south-1#InstanceDetails:instanceId=i-084b1633aca1f2555>>



Follow task 2 ubuntu

<https://docs.aws.amazon.com/AWSEC2/latest/UserGuide/ec2-instance-connect-set-up.html#ec2-instance-connect-install>

```
ec2-instance-connect is already the newest version (1.1.14-0ubuntu1.1).
0 upgraded, 0 newly installed, 0 to remove and 5 not upgraded.
root@ip-172-31-34-163:~# ls
snap
root@ip-172-31-34-163:~# cd /usr/share/ec2-instance-connect/
root@ip-172-31-34-163:/usr/share/ec2-instance-connect#
root@ip-172-31-34-163:/usr/share/ec2-instance-connect# ls
eic_curl_authorized_keys  eic_harvest_hostkeys  eic_parse_authorized_keys  eic_run_authorized_keys
root@ip-172-31-34-163:/usr/share/ec2-instance-connect#
```

3. Install the Instance Connect package on your instance.

For Ubuntu, use the **sudo apt-get** command.

```
ubuntu:~$ sudo apt-get install ec2-instance-connect
```

You should see three new scripts in the `/usr/share/ec2-instance-connect/` folder:

```
eic_curl_authorized_keys
eic_parse_authorized_keys
eic_run_authorized_keys
```

```
root@ip-172-31-34-163: /usr/
```

```
[Service]
ExecStart=
ExecStart=/usr/sbin/sshd -D -o "AuthorizedKeysCommand /usr/share/ec2-instance-connect/eic_run_authorized_keys %u %f" -o "AuthorizedKeysCommandUser ec2-ins
tance-connect" $SSH_OPTS
/lib/systemd/system/ssh.service.d/ec2-instance-connect.conf (END)
```

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25-03-2023

Installing jenkins

<https://www.jenkins.io/doc/book/installing/linux/>

Install Java

```
$ sudo apt update
```

```
$ sudo apt install openjdk-11-jre
```

```
$ java -version
```

```
No user sessions are running outdated binaries.
```

```
No VM guests are running outdated hypervisor (qemu) binaries on this host.
```

```
root@ip-172-31-34-163:~# java -version
```

```
openjdk version "11.0.18" 2023-01-17
```

```
OpenJDK Runtime Environment (build 11.0.18+10-post-Ubuntu-0ubuntu122.04)
```

```
OpenJDK 64-Bit Server VM (build 11.0.18+10-post-Ubuntu-0ubuntu122.04, mixed mode, sharing)
```

```
root@ip-172-31-34-163:~#
```

Install Java & Jenkins Using Script

```
sudo wget https://raw.githubusercontent.com/lerndevops/labs/master/scripts/installJenkins.sh -P /tmp
sudo chmod 755 /tmp/installJenkins.sh
sudo bash /tmp/installJenkins.sh
```

<https://github.com/lerndevops/labs/tree/master/jenkins/Install>

```

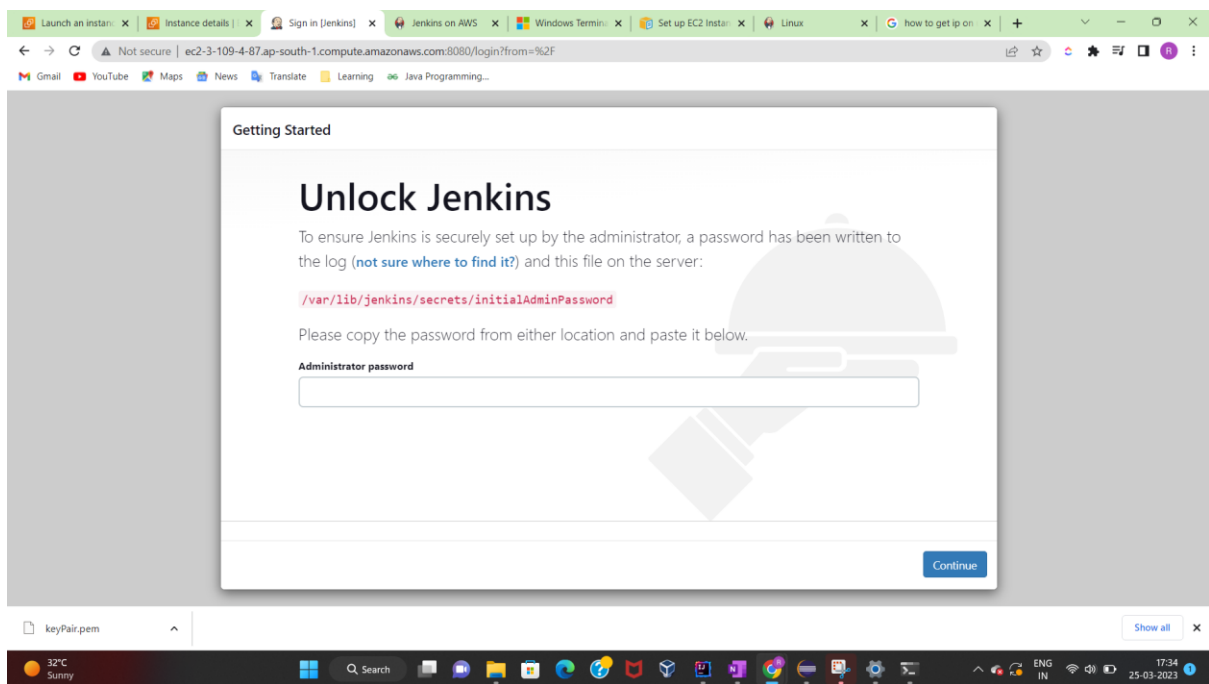
ubuntu@ip-172-31-34-163:~$ sudo su -
root@ip-172-31-34-163:~# java -version
openjdk version "11.0.18" 2023-01-17
OpenJDK Runtime Environment (build 11.0.18+10-post-Ubuntu-0ubuntu122.04)
OpenJDK 64-Bit Server VM (build 11.0.18+10-post-Ubuntu-0ubuntu122.04, mixed mode, sharing)
root@ip-172-31-34-163:~# 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 Sat 2023-03-25 11:33:31 UTC; 7min ago
     Main PID: 12975 (java)
       Tasks: 36 (limit: 1143)
      Memory: 387.0M
         CPU: 43.560s
    CGroup: /system.slice/jenkins.service
            └─12975 /usr/bin/java -Djava.awt.headless=true -jar /usr/share/java/jenkins.war --webroot=/var/cache/jenkins/war --httpPort=8880

Mar 25 11:32:56 ip-172-31-34-163 jenkins[12975]: d392a2336e274c19b1ab96266f4e6a7c
Mar 25 11:32:56 ip-172-31-34-163 jenkins[12975]: This may also be found at: /var/lib/jenkins/secrets/initialAdminPassword
Mar 25 11:32:56 ip-172-31-34-163 jenkins[12975]: *****
Mar 25 11:32:56 ip-172-31-34-163 jenkins[12975]: *****
Mar 25 11:32:56 ip-172-31-34-163 jenkins[12975]: *****
Mar 25 11:33:31 ip-172-31-34-163 jenkins[12975]: 2023-03-25 11:33:31.506+0000 [id=28] INFO jenkins.InitReactorRunner$1#onAttained: Completed
Mar 25 11:33:31 ip-172-31-34-163 jenkins[12975]: 2023-03-25 11:33:31.529+0000 [id=22] INFO hudson.lifecycle.Lifecycle#onReady: Jenkins is full
Mar 25 11:33:31 ip-172-31-34-163 systemd[1]: Started Jenkins Continuous Integration Server.
Mar 25 11:33:32 ip-172-31-34-163 jenkins[12975]: 2023-03-25 11:33:32.420+0000 [id=44] INFO h.m.DownloadService$Downloadable#load: Obtained the
Mar 25 11:33:32 ip-172-31-34-163 jenkins[12975]: 2023-03-25 11:33:32.421+0000 [id=44] INFO hudson.util.Retrier#start: Performed the action ch
...skipping...
● jenkins.service - Jenkins Continuous Integration Server
   Loaded: loaded (/lib/systemd/system/jenkins.service; enabled; vendor preset: enabled)
   Active: active (running) since Sat 2023-03-25 11:33:31 UTC; 7min ago

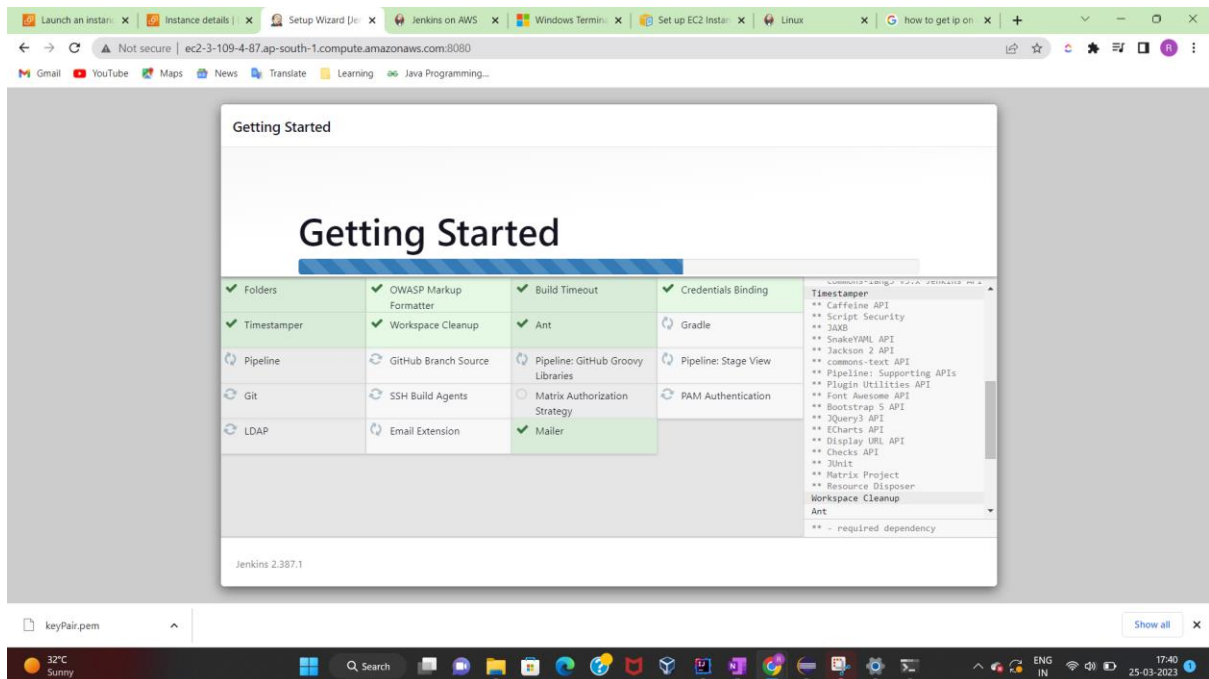
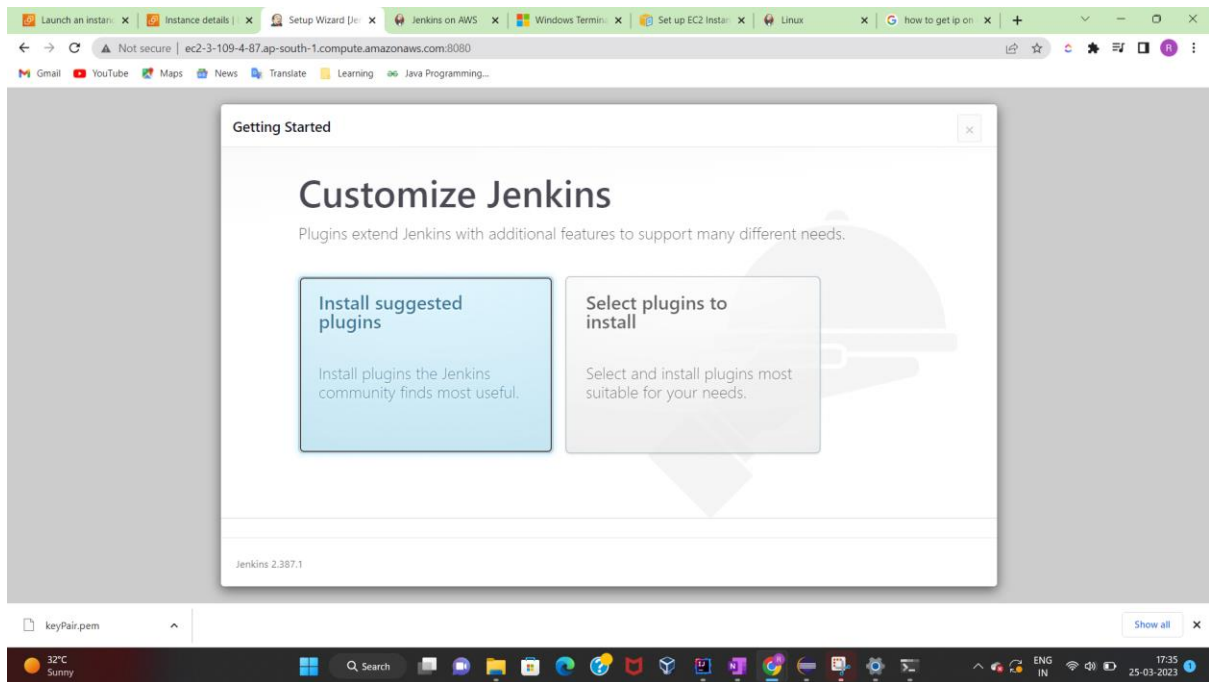
```

sudo systemctl restart jenkins # to restart
 sudo systemctl stop jenkins # to stop
 sudo systemctl start jenkins # to start
 sudo systemctl status jenkins # to check the status

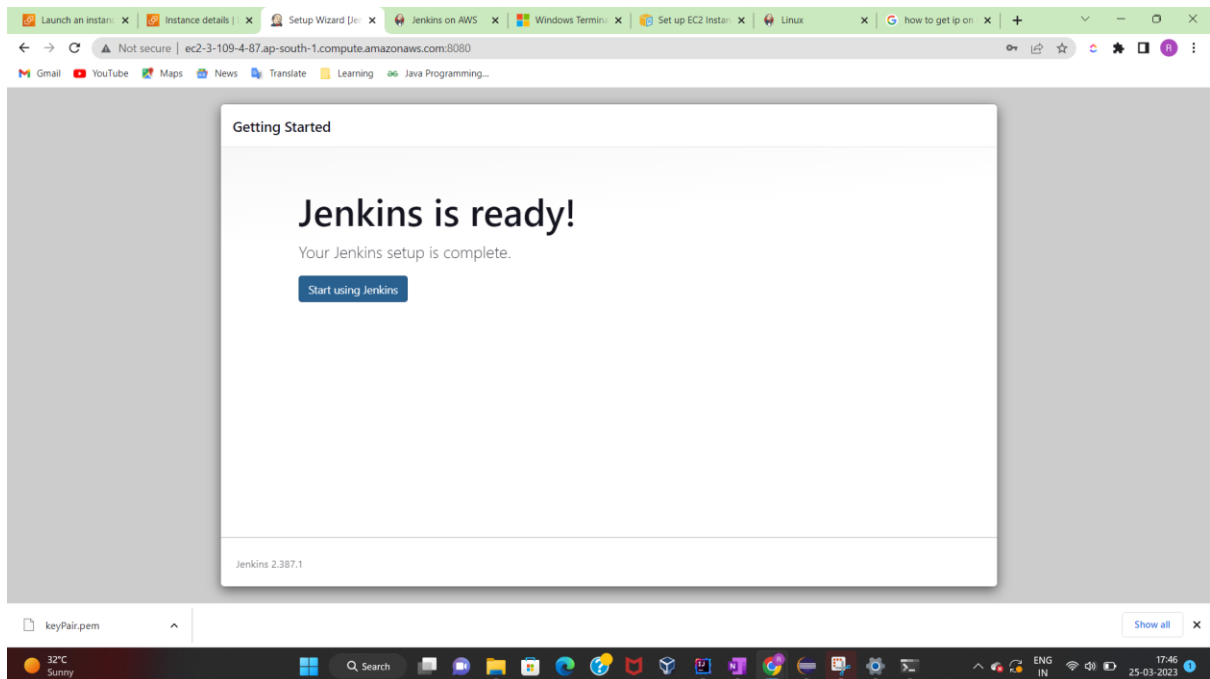
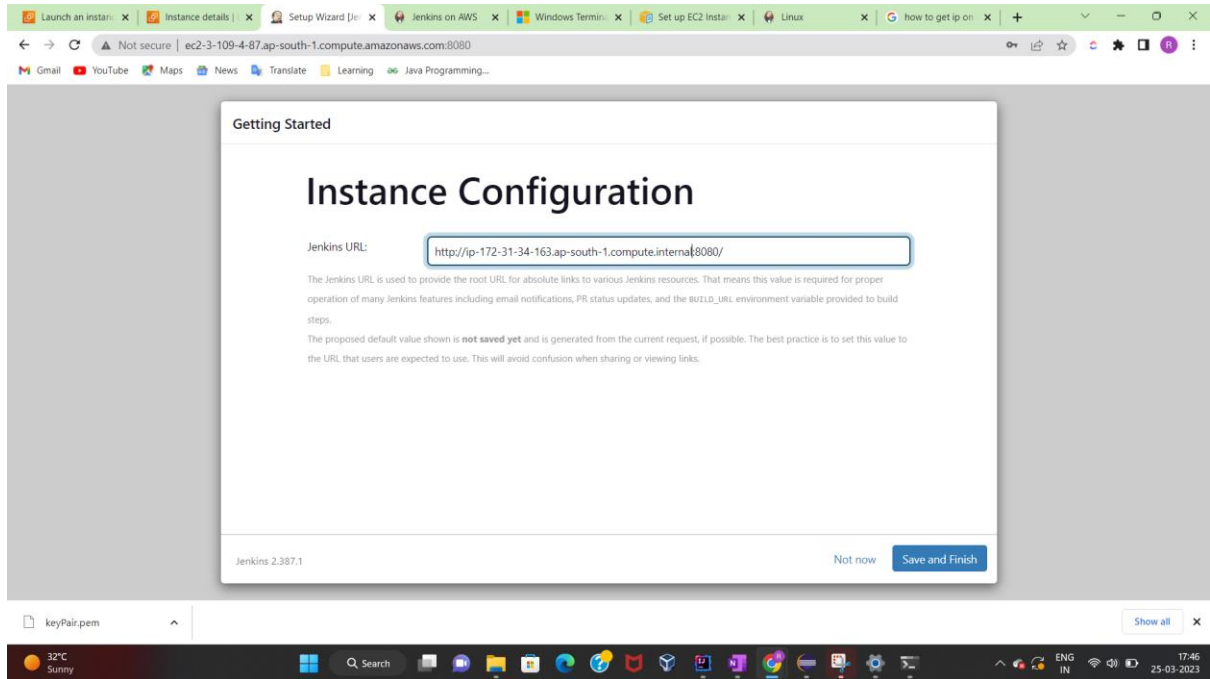
From <<https://github.com/lerndevops/labs/tree/master/jenkins/Install>>



initialAdminPassword - d392a2336e274c19b1ab96266f4e6a7c




Changed to private ip DNS







Launch an instan...Instance details | Dashboard (Jenki...Jenkins on AWSWindows Termin...Set up EC2 Insta...Linuxhow to get ip on...+ -

Not secure | ec2-3-109-4-87.ap-south-1.compute.amazonaws.com:8080

GmailYouTubeMapsNewsTranslateLearningJava Programming...


 **Jenkins**


Search (CTRL+K)


  **Rashmi Konapanavar**   **log out**


Dashboard >

+ New Item

 People

 Build History

 Manage Jenkins

 My Views

Build Queue

No builds in the queue.

Build Executor Status

1 Idle

2 Idle

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

Set up an agent

Configure a cloud


Learn more about distributed builds

ec2-3-109-4-87.ap-south-1.compute.amazonaws.com:8080/newJob

keyPair.pem

Show all

32°C Sunny



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