

To deploy an application in Jenkins that is accessible from the outside world

1. Create an EC2 Instance

Name	Instance ID	Instance state	Instance type	Status check	Alarm status	Availability Zone	Public IPv4 DNS
vm_jenkin	i-055b26580eb37a716	Running	t2.micro	2/2 checks passed		ap-south-1a	ec2-15-206-169-224.ap...

2. Login to the instance via SSH

ssh -i (Pem file) ubuntu@publickeyIP

```
BEAD+sm555@US-3Y9NVP3 MINGW64 ~ (master)
$ ssh -i Practice.pem ubuntu@15.206.169.224
Welcome to Ubuntu 24.04.1 LTS (GNU/Linux 6.8.0-1016-aws x86_64)

 * Documentation:  https://help.ubuntu.com
 * Management:    https://landscape.canonical.com
 * Support:       https://ubuntu.com/pro

System information as of Thu Oct  3 07:33:20 UTC 2024

System load:  0.0          Processes:    104
Usage of /:   22.9% of 6.71GB   Users logged in:  0
Memory usage: 21%          IPv4 address for enx0: 172.31.45.220
Swap usage:   0%
```

To give the permission for files: `chmod 600 (filename)`

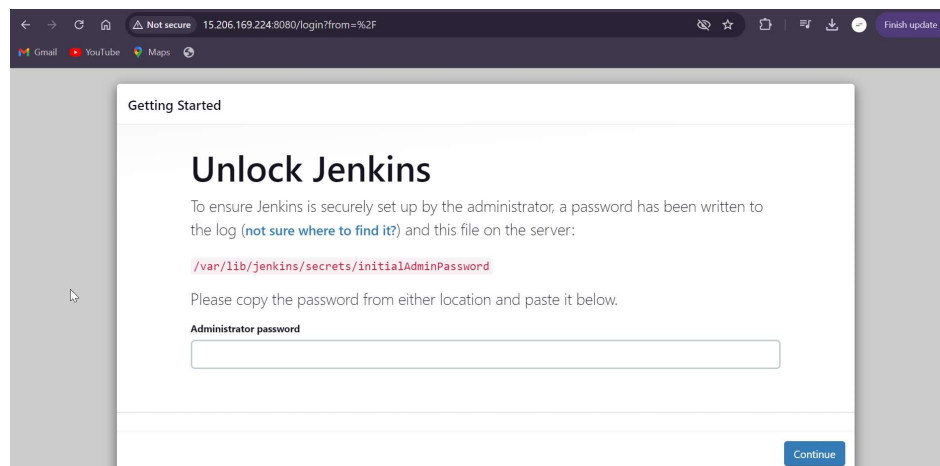
3. Install Jenkins: <https://www.jenkins.io/doc/book/installing/linux/>

4. Check whether the Jenkins application is running or not - `systemctl status Jenkins`

```
ubuntu@ip-172-31-45-220:~$ systemctl status jenkins
● jenkins.service - Jenkins Continuous Integration Server
   Loaded: loaded (/usr/lib/systemd/system/jenkins.service; enabled; preset: 
   Active: active (running) since Thu 2024-10-03 07:41:54 UTC; 18s ago
     Main PID: 3939 (java)
        Tasks: 44 (limit: 1130)
      Memory: 292.6M (peak: 368.8M)
         CPU: 17.537s
      CGroup: /system.slice/jenkins.service
              └─3939 /usr/bin/java -Djava.awt.headless=true -jar /usr/share/java
```

5. Access the Jenkins via internet.

<http://15.206.169.224:8080/>



Issue encountered:

When attempting to access Jenkins, I encountered an error because port 8080 was not allowed for accessing the application. We have now permitted the port in the instance's inbound rules.

Inbound rules (2)									
<input type="text" value="Search"/>									
<input type="checkbox"/>	Name	Security group rule...	IP version	Type	Protocol	Port range	Source	Description	
<input type="checkbox"/>	-	sgr-0dc466148cbc29453	IPv4	Custom TCP	TCP	8080	0.0.0.0/0	-	
<input type="checkbox"/>	-	sgr-0782bc6a67af0ca9b	IPv4	SSH	TCP	22	0.0.0.0/0	-	

Afterwards it's working fine