

Installation :-

1. Login to AWS Console and launch an instance of EC2

aws

Services

Search

[Alt+S]

Menu

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

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

Quick Start

▼ Summary

Number of instances [Info](#)

Software Image (AMI)

Canonical, Ubuntu, 22.04 LTS, ...[read more](#)

ami-0f8ca728008ff5af4

Virtual server type (instance type)

t2.micro

Firewall (security group)

New security group

Storage (volumes)

1 volume(s) - 8 GiB

Free tier

In your first year includes 750 hours of t2.micro (or t3.micro in the Regions in which t2.micro is unavailable) instance usage on free tier

×

Cancel

Launch instance

The console is now launched -

```
aws    Services Search [Alt+S] Mumbai ManavPahlwani
Building dependency tree... Done
Reading state information... Done
jenkins is already the newest version (2.375.3).
0 upgraded, 0 newly installed, 0 to remove and 5 not upgraded.
1 not fully installed or removed.
After this operation, 0 B of additional disk space will be used.
Do you want to continue? [Y/n] Y
Setting up jenkins (2.375.3) ...
Scanning processes...
Scanning candidates...
Scanning linux images...

Running kernel seems to be up-to-date.

Restarting services...
Service restarts being deferred:
  systemctl restart unattended-upgrades.service

No containers need to be restarted.

No user sessions are running outdated binaries.

No VM guests are running outdated hypervisor (qemu) binaries on this host.
ubuntu@ip-172-31-46-93:~$
```

i-Ofbced9ddf06244f8 (DevOps)

PublicIPs: 52.66.149.108 PrivateIPs: 172.31.46.93

Go to <https://pkg.jenkins.io/debian-stable/> and execute the commands to install jenkins

Jenkins Debian Packages

This is the Debian package repository of Jenkins to automate installation and upgrade. To use this repository, first add the key to your system:

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

Then add a Jenkins apt repository entry:

```
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
```

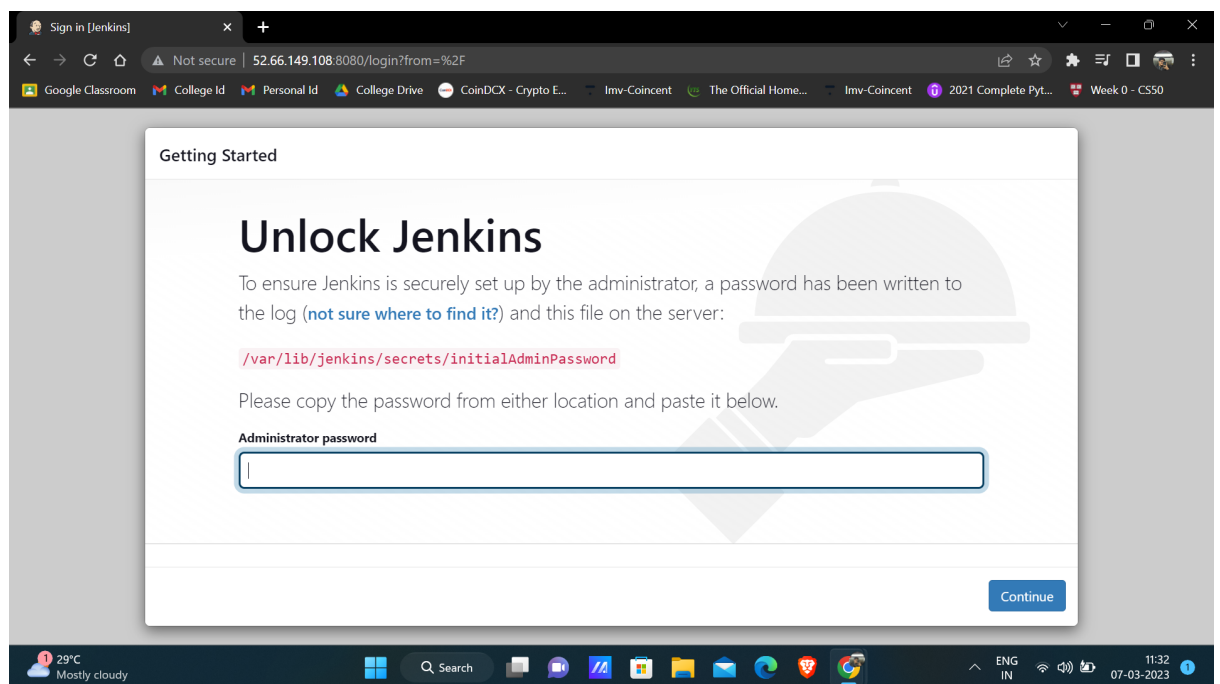
```

No VM guests are running outdated hypervisor (qemu) binaries on this host.
ubuntu@ip-172-31-46-93:~$ systemctl status jenkins
● jenkins.service - Jenkins Continuous Integration Server
   Loaded: loaded (/lib/systemd/system/jenkins.service; enabled; vendor preset: enabled)
   Active: active (running) since Tue 2023-03-07 05:50:43 UTC; 49s ago
     Main PID: 10464 (java)
        Tasks: 43 (limit: 1143)
      Memory: 333.4M
         CPU: 41.992s
    CGroup: /system.slice/jenkins.service
            └─10464 /usr/bin/java -Djava.awt.headless=true -jar /usr/share/java/jenkins.war --webroot=/var/cache/jenkins/war --httpPort=8080

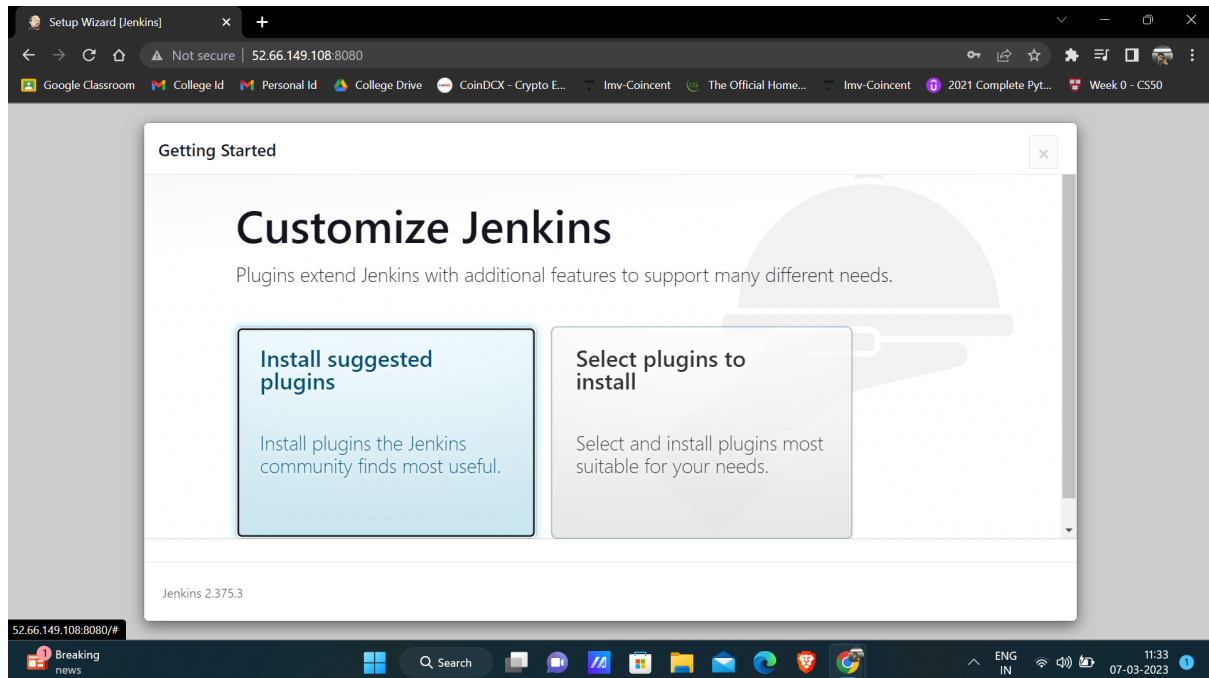
Mar 07 05:50:08 ip-172-31-46-93 jenkins[10464]: 69a6f290f3914edfaae86e05e3b78ee7
Mar 07 05:50:08 ip-172-31-46-93 jenkins[10464]: This may also be found at: /var/lib/jenkins/secrets/initialAdminPassword
Mar 07 05:50:08 ip-172-31-46-93 jenkins[10464]: *****
Mar 07 05:50:08 ip-172-31-46-93 jenkins[10464]: *****
Mar 07 05:50:08 ip-172-31-46-93 jenkins[10464]: *****
Mar 07 05:50:43 ip-172-31-46-93 jenkins[10464]: 2023-03-07 05:50:43.701+0000 [id=29] INFO jenkins.InitReactorRunner$1onAttained: Completed initialization
Mar 07 05:50:43 ip-172-31-46-93 jenkins[10464]: 2023-03-07 05:50:43.724+0000 [id=22] INFO hudson.lifecycle.Lifecycle$onReady: Jenkins is fully up and running
Mar 07 05:50:43 ip-172-31-46-93 systemd[1]: Started Jenkins Continuous Integration Server.
Mar 07 05:50:44 ip-172-31-46-93 jenkins[10464]: 2023-03-07 05:50:44.529+0000 [id=44] INFO h.m.DownloadService$Downloadable$load: Obtained the updated data file for hudson.tasks
Mar 07 05:50:44 ip-172-31-46-93 jenkins[10464]: 2023-03-07 05:50:44.531+0000 [id=44] INFO hudson.util.Retrier$start: Performed the action check updates server successfully at
lines 1-20/20 (END)

```

Get Administrator password using the command `sudo cat /var/lib/jenkins/secrets/initialAdminPassword`

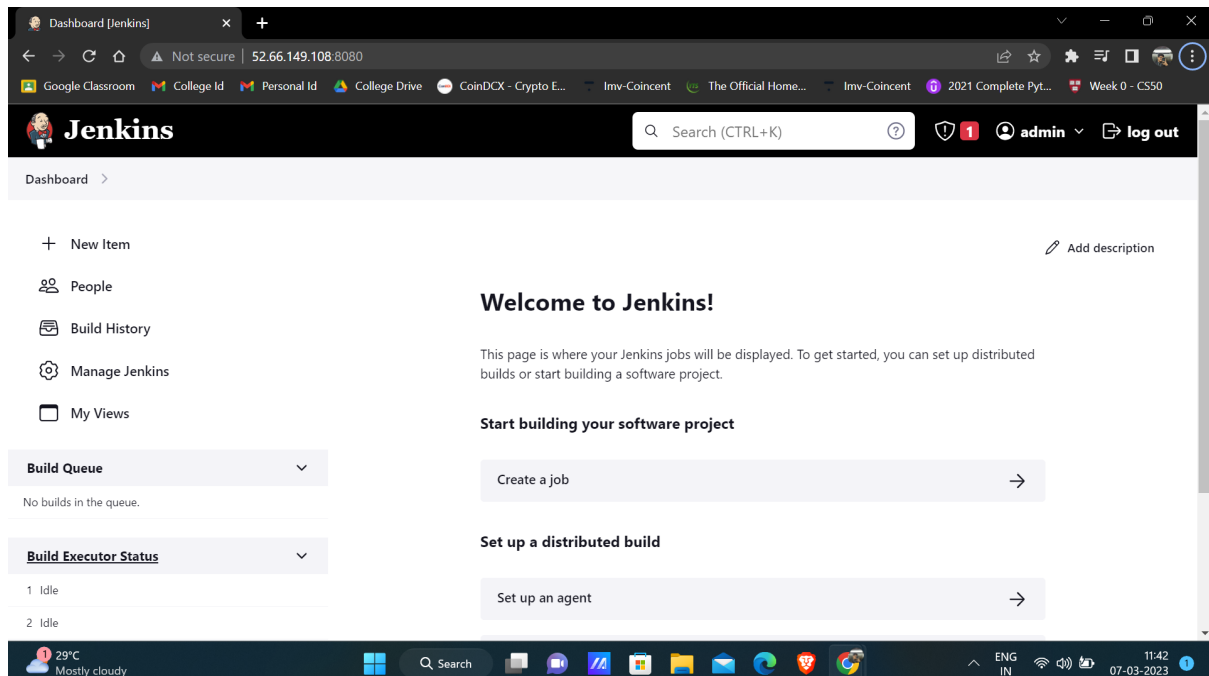


You will be redirected to the next page, click on Install suggested plugins and wait till all the installations finish



Jenkins is then ready to be used. You will be redirected to the Dashboard upon clicking “Start using Jenkins”

Click on create a job, enter the item name and select “freestyle project”



my-first-jenkins [Jenkins] x Hamilton122002/Basic-Data-Qu x +

Not secure | 52.66.149.108:8080/job/my-first-jenkins/

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Jenkins

Search (CTRL+K) ? 1 admin log out

Dashboard > my-first-jenkins >

Status

Changes

Workspace

Build Now

Configure

Delete Project

GitHub

Rename

Project my-first-jenkins

Add description

Disable Project

Permalinks

Build History trend

52.66.149.108:8080/job/my-first-jenkins/build?delay=0sec

29°C Mostly cloudy

ENG IN 11:46 07-03-2023

I've added a Github repository and a shell command to be executed on the build.
And Click on Console Output to see it.

my-first-jenkins #1 Console [Jen] x Hamilton122002/Basic-Data-Qu x +

Not secure | 52.66.149.108:8080/job/my-first-jenkins/lastBuild/console

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Jenkins

Search (CTRL+K) ? 1 admin log out

Dashboard > my-first-jenkins > #1

Status

Changes

Console Output

View as plain text

Edit Build Information

Delete build '#1'

✓ Console Output

Started by user admin
Running as SYSTEM
Building in workspace /var/lib/jenkins/workspace/my-first-jenkins
[my-first-jenkins] \$ /bin/sh -xe /tmp/jenkins16804713388735671322.sh
+ echo It is live
It is live
Finished: SUCCESS

REST API Jenkins 2.375.3

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