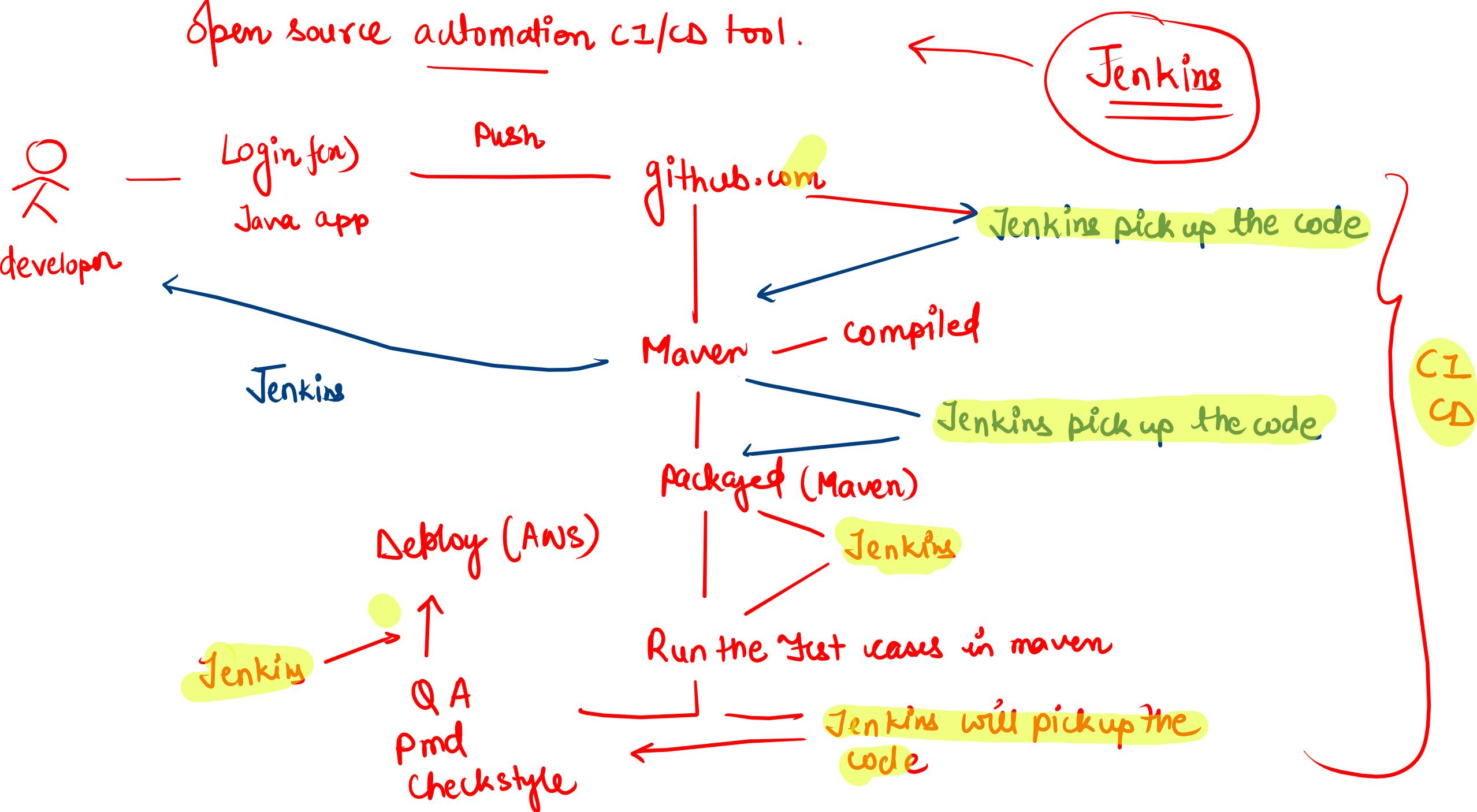
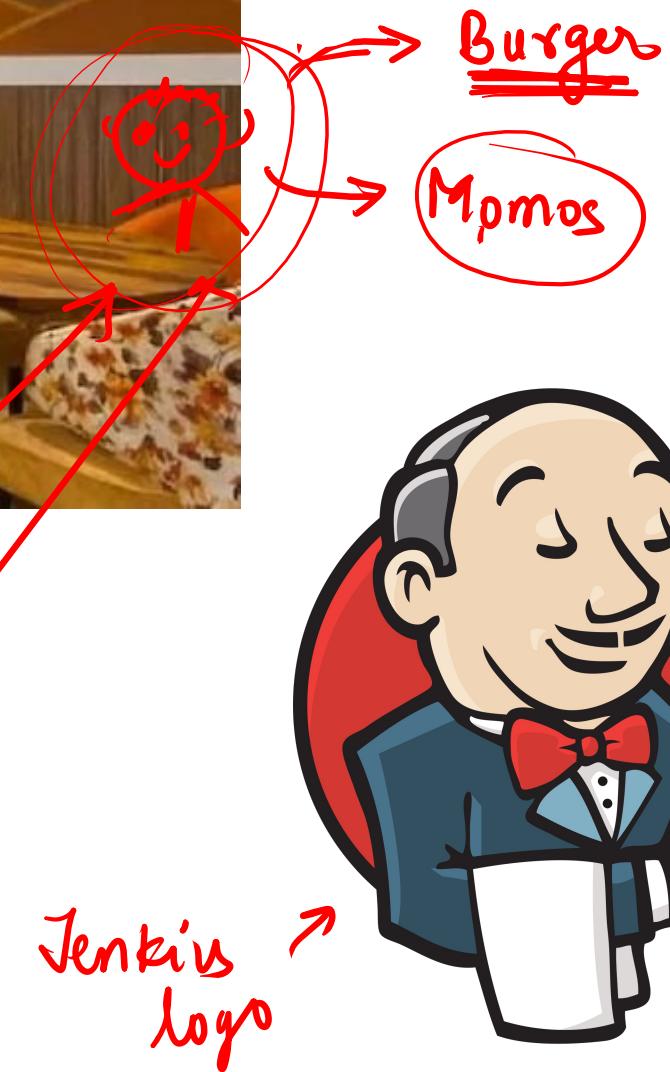


Open source automation CI/CD tool.



like a waiter
which automates
your tasks in
restaurant.

Jenkins automates your
tasks in a Restaurant



Jenkins

Open source CI/CD tool

with Jenkins we can automate

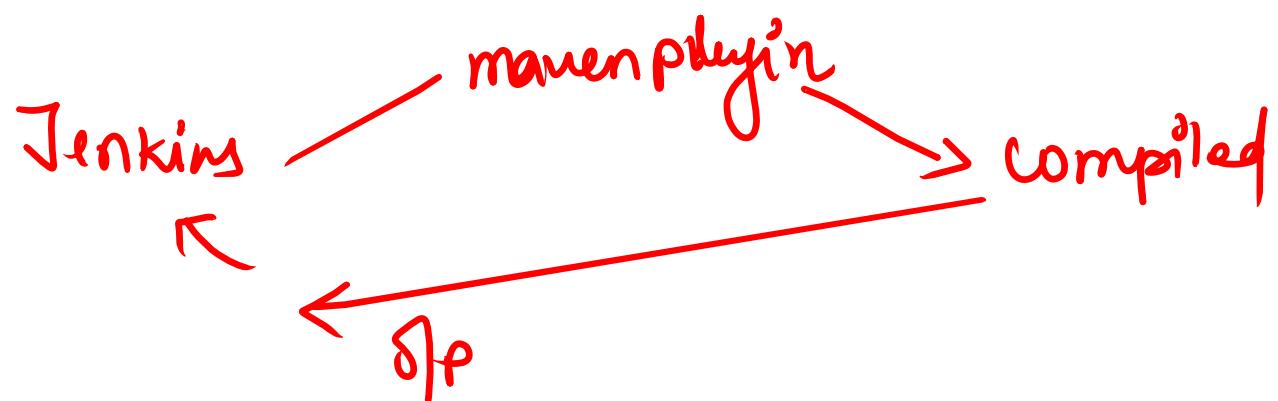
developed by cloudbees .

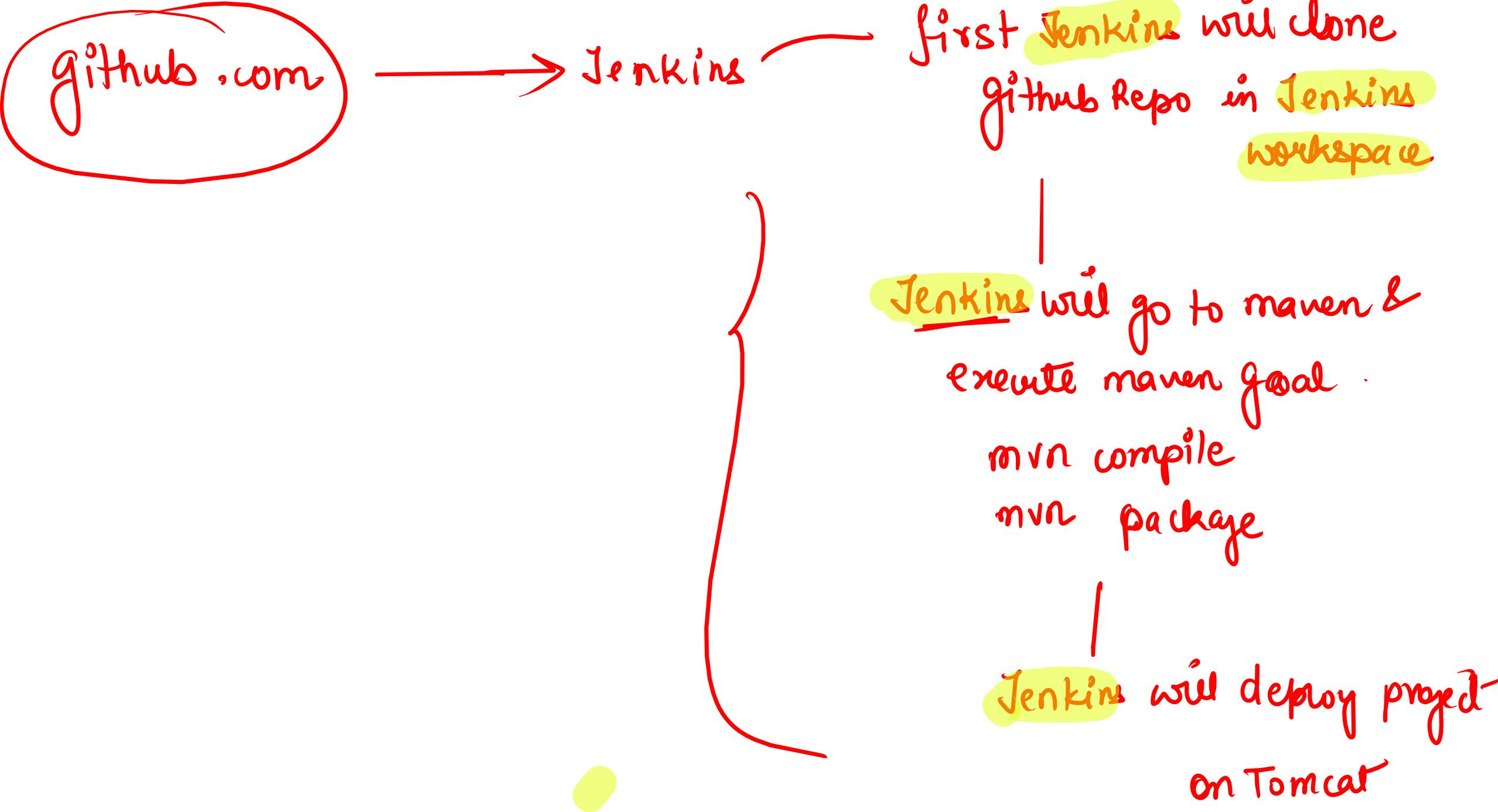
Compile → package → test → QA

CI

↓
Delivery
CD

Jenkins can integrate with multiple tools and get the task done





Installation of Jenkins

dependency
jdk 11 (discontinued)
jdk 17
jdk 21

Launch Ubuntu CC2 machine

sudo su

wget https://raw.githubusercontent.com/akshu20791/Deployment-script/refs/heads/main/jenkins.sh

ls

you will see jenkins.sh

chmod 700 jenkins.sh

./jenkins.sh

jenkins default port

All

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Listen

The default port for Jenkins is 8080. This is the standard port for web applications, and Jenkins uses it to listen for incoming connections.

Instances (1/1) [Info](#)

Last updated 4 minutes ago [Connect](#)

Name [Edit](#)

jenkins-machine [Instance ID](#) i-018731f442c1ba110 [Review](#)

[Find Instance by attribute or tag \(case-sensitive\)](#)

i-018731f442c1ba110 (jenkins-machine)

[Details](#) [Status and alarms](#) [Monitoring](#) [Security](#) [Ne](#)

Instance summary [Info](#)

Public IPv4 address copied

Public IPv4 address [Edit](#)

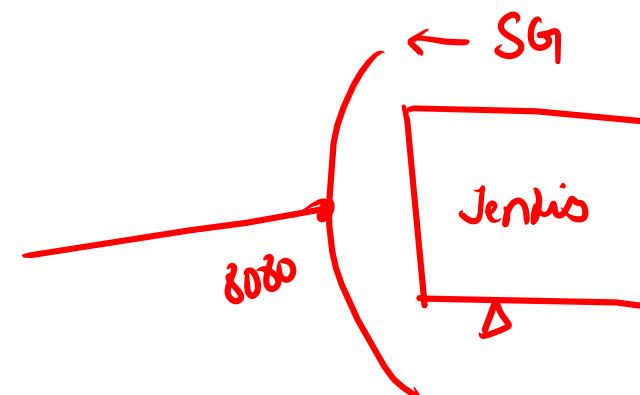
18.144.46.71 | [open address](#)

Instance ID
i-018731f442c1ba110

Publicip: 8080

→ X <http://18.144.46.71:8080/>

It will not open



Allow traffic coming from port 8080

Find Instance by attribute or tag (case-sensitive)		
Name	Instance ID	Instance state
<input checked="" type="checkbox"/> jenkins-machine	i-018731f442c1ba110	<input checked="" type="checkbox"/> Running Edit

Edit Inbound Rule

i-018731f442c1ba110 (jenkins-machine)
Details Status and alarms Monitoring Security Networking

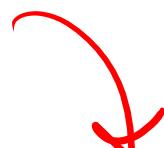
▼ Security details

IAM Role

Owner ID
 842675971959

Security groups

sg-0742ed47395aad7c7 (launch-wizard-2)



Security group rule ID	Type	Protocol	Port range	Source	Description - optional
sgr-042e61efb8902f1cb	SSH	TCP	22	Cu... Edit	Delete
-	Custom TCP	TCP	8080	A... Edit	Delete

[Add rule](#)

⚠ Rules with source of 0.0.0.0/0 or ::/0 allow all IP addresses to access your instance. We recommend setting security group rules to allow access from known IP addresses only.

[Cancel](#) [Preview changes](#) [Save rules](#)

Getting Started

Unlock Jenkins

To ensure Jenkins is securely set up by the administrator, a password has been written to the log ([not sure where to find it?](#)) and this file on the server:

/var/lib/jenkins/secrets/initialAdminPassword

Please copy the password from either location and paste it below.

Administrator password

cat

password file

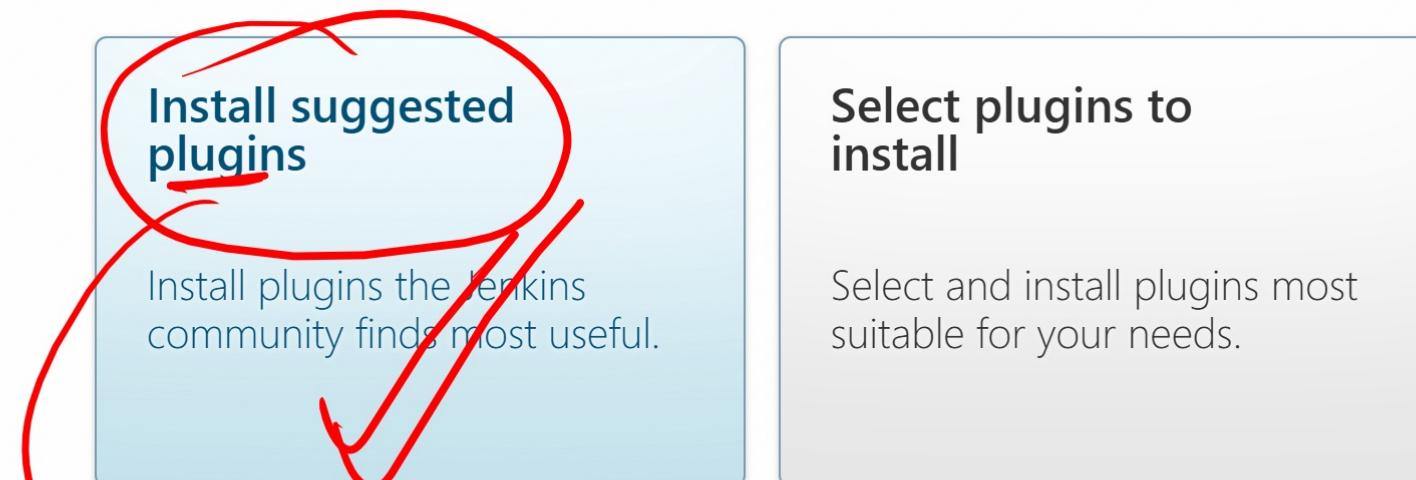
```
root@ip-172-31-21-121:/home/ubuntu# cat /var/lib/jenkins/secrets/initialAdminPassword
e5fe374463c642cb8ea74a91eb1b58f3
root@ip-172-31-21-121:/home/ubuntu#
```

copy the password & ~~save~~^{put} it in Jenkins GUI

Getting Started

Customize Jenkins

Plugins extend Jenkins with additional features to support many different needs.



plugins Increase functionality of Jenkins

Getting Started

Username

Password

Confirm password

Full name

E-mail address

Save & continue