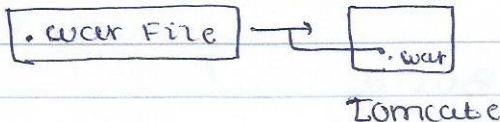


[day 5]

①4

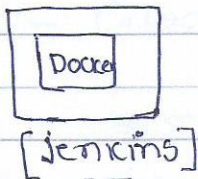
\* /usr/lib/jenkins (From Scripts)

> Service jenkins start



/usr/lib/jenkins/secrets/

initialAdminPassword.



\* Task  $\leftrightarrow$  Job (task that is nothing but a job)

Item  $\rightarrow$  job1

(Freestyle project)

- source code manage
- Build Trigger
- Build Environment

- Build - (what to do)
- Post-Action - what to do after job finish

## \* Build

↳ command touch html  
Site.

## \* Build Now (Run the job)

#1 (blue bar) → Output

#2 (o)

> 10-2 17mp

## \* manage jenkins (setting)

### \* get source code from git hub

↳ github.com/1.201Project

Copy data

↳ Freestyle Project

↳ Sourcecode

→ Repo. URL: <sup>git</sup> "\_\_\_"

③

Repo. URL : " — "

↳ Save → Build

Console output

> started by user admin

Cloning



Finish

workspace (where saves data)

> /var/lib/jenkins/workspace

[all the data of github] ← ↓ Copy data - jobs1

Workspace → jobs1 -  
(outcome) jobs2

/jenkins/jobs/jobs1 ← config.

config. ↙ ↘ config. xml.

copy — jobs and pass  
to work

Source code management  
> running jobs

Config job > Build Triggers

Build Triggers.

⑥ - Remote

(without login)

Auth: token1

↳ COPY URL ?

Jenkins - URL / job / copy data

build token = token1.

↳ Save the jobs.

↳ past the URL (admin  
admin)

\* Build after other Projects  
are built

- compile, unit-test,  
Code Review.

⑤

> job1 → copy data

Copy data → job1

upstream projects

- job1 >

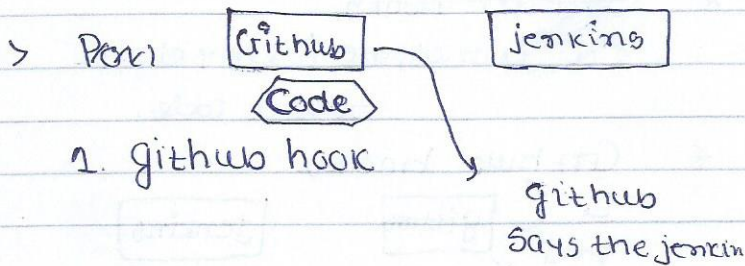
> Build Periodically

(cron tab) (scheduler)

\* \* \* \* \* (every minute)

2 \* \* \* \* (every 2 minutes)

> Github hook trigger



\* Poll SCM ← jenkins (tell the)  
needs to go continuous



① Poll scm check every change

②

Crithub hook (Not provided)

\* Poll scm

\* \* \* \* \* (every minute)

↳ check git URL.

#21 - job run after git change.

\* → entire source code get copy.

\* ~~Crithub~~ hooks.

cd workspace / - copy data / -

Source code.

\* Crithub hooks.

↳

proj.

github

jenkins



Setting → webhooks

⑦

Add web hooks.

↳ URL

↳ content type.

Payload URL

(jenkins URL)

---- /github-webhook)

↓

☐ pull Request

☐ push

☒ Activate.

⑧

Global tools. (

↳ Manage config.

↳ global tool config.



jenkins to know about

JDK → Add JDK

- install Automatically

```
> echo $java-home  
/user/lib/jvm/java-8
```

```
name myjava  
java-home: /.../
```

- During job creation, you can set java version

\* Maven

↳ Add Maven

```
echo $Maven-home  
/opt/apache-maven-3.6.3
```

\* → Compile + Build (maven, java)

\* Sonar } Configure system.  
JFrog }



⑨

> manage plugins

1. Available - PMD.

(Program mistake detector.)

2. Cobertura - Code Coverage Result

3. Build pipeline

4. Artifactory

5. SonarQube Scanner - Code Rev.

> Download plugin →

plugin Index

(Cobertura)

↙  
plugins repository.

pmd hpi

... Jenkins / plugins / copy ↗  
{Restart of a plugin}

## \* Pipelines

↳

\* maven - Build tool

(Config. Source code - package)

↳ project maven (comp.

↳ complete ... <sup>mang.</sup> tools)

↳ target - after compilation

## \* W-Life cycle

↳ validation

↳ compile

↳ test

↳ package

↳ install

↳ Deploy.

## \* compile (jobname)

↳ Freesty.

11

Build (what to do!,  
jenkins...)  
(compile)

↳ invoke top-level maven  
target

↳ maven version

Goals: compile.

✗