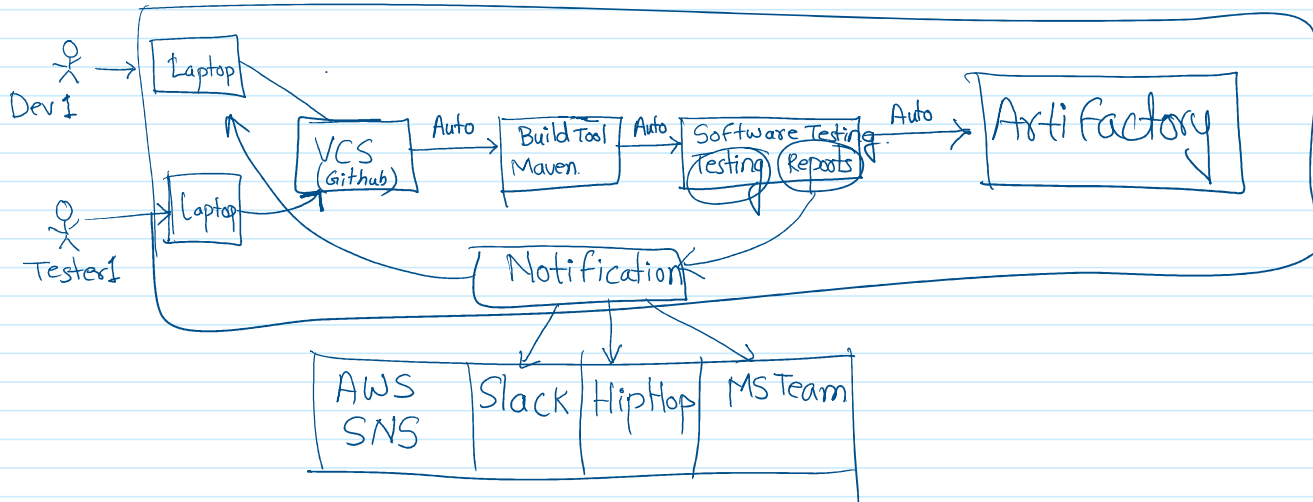


\*\*\*

## CI/CD:-

### Contineaus. Integration



$$CI = CV + CB + CT$$

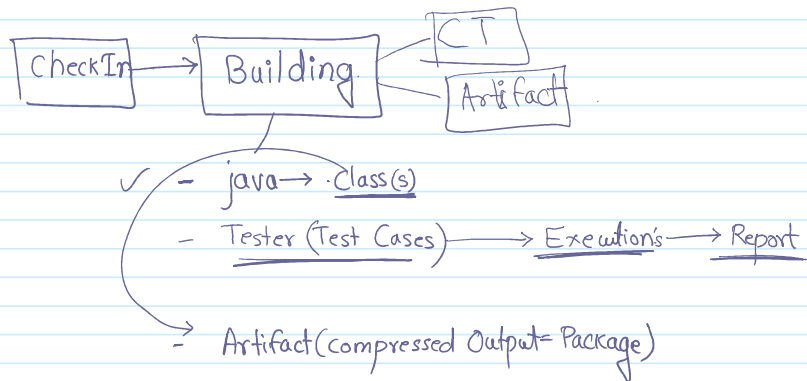
$$CV = \text{Dev} \rightarrow \text{VCS}$$

Contineus Building = An Automated build on every check-In.



### C. Testing

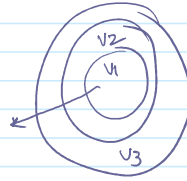
$$CV + CB + CT$$



### CI

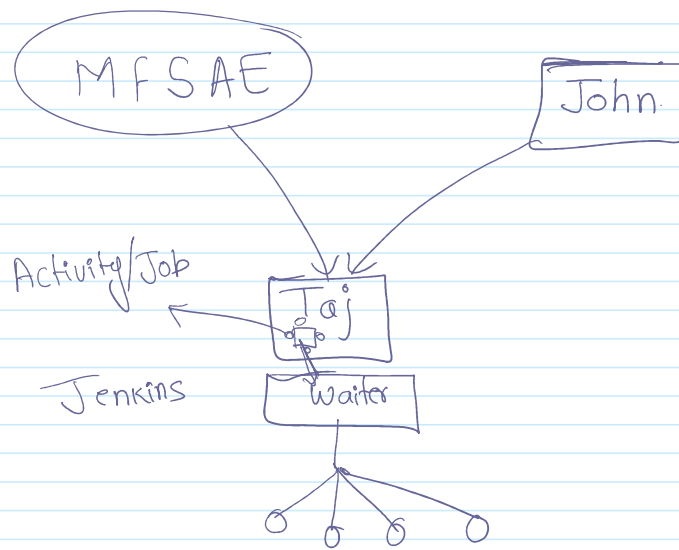
CI

◦ Automated build & Execution of Unit test.



```
java -jar jenkins.war --httpPort=8080
```

1. Order Server Instance Type: t2.micro Operating System: Ubuntu 22.04	Done
2. Connect Server	Done
3. Change Host Name \$ sudo su \$ hostname CI-Server	Done
4. Update Linux Repo \$ apt update	Done
5. Install (JDK+JRE) \$ apt install openjdk-17-jdk openjdk-17-jre	Done
6. Checking Version \$ java -version \$ javac -version	Done
7. Update Key \$ curl -fsSL <a href="https://pkg.jenkins.io/debian-stable/jenkins.io-2023.key">https://pkg.jenkins.io/debian-stable/jenkins.io-2023.key</a>   sudo tee \ /usr/share/keyrings/jenkins-keyring.asc > /dev/null	Done
8. Update GPG \$ echo deb [signed-by=/usr/share/keyrings/jenkins-keyring.asc] \ <a href="https://pkg.jenkins.io/debian-stable/binary/">https://pkg.jenkins.io/debian-stable/binary/</a>   sudo tee \ /etc/apt/sources.list.d/jenkins.list > /dev/null	Done
9. Update Linux System Repository \$ apt update	Done
10. Install Jenkins \$ apt install jenkins	Done
11. Check Jenkins \$22 \$ systemctl status jenkins	Done
12. Read Admin First time Temporary Password using <a href="http://IP:8080">http://IP:8080</a> \$ cat /var/lib/jenkins/secrets/initialAdminPassword	Done
13. Click on : Install Suggested Plugins	Done
1. Create First Admin User UserName: admin Password: admin	Done



CloudBees

