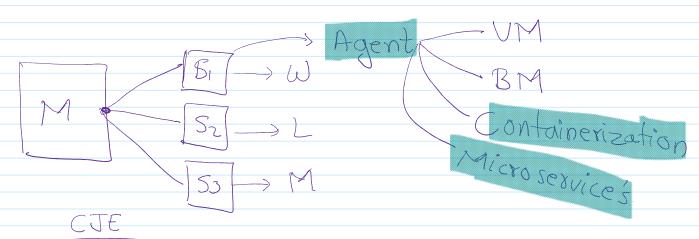
32.05Aug.Jenkins Best Practices & Integrations(JavaApp) Part1

5 August 2023 04:46 PM

· Jenkins Master Slave Architecture.

Performance Optimization

CI/CD/CD



CCJE = Certified
Cloud Bees
Jenkins
Engineer

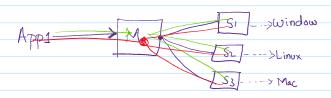
Challenges

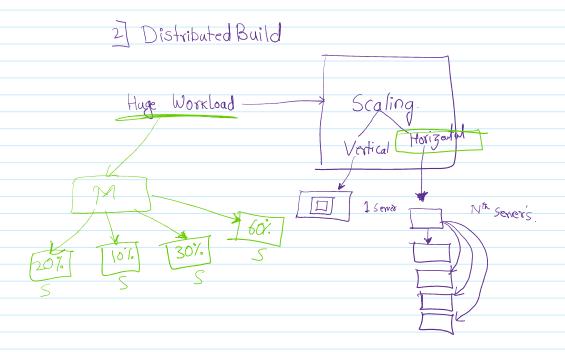
I Parallel Build & Distributed Build

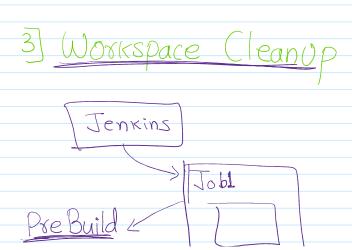
· Parallel Execution.

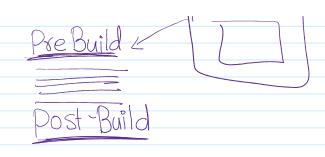
- Splitting the build Processes

Across multiple executors/agent's









4 Cachina Dependencies

· Cache Memory

5) Agent Scaling & Dynamic Provisioning

 $6EC2\rightarrow HA/FT$

· Docker -> K8s

67 Pipeline Optimization

- Remove Unnecessary. Step's

- Structure

· Conditional

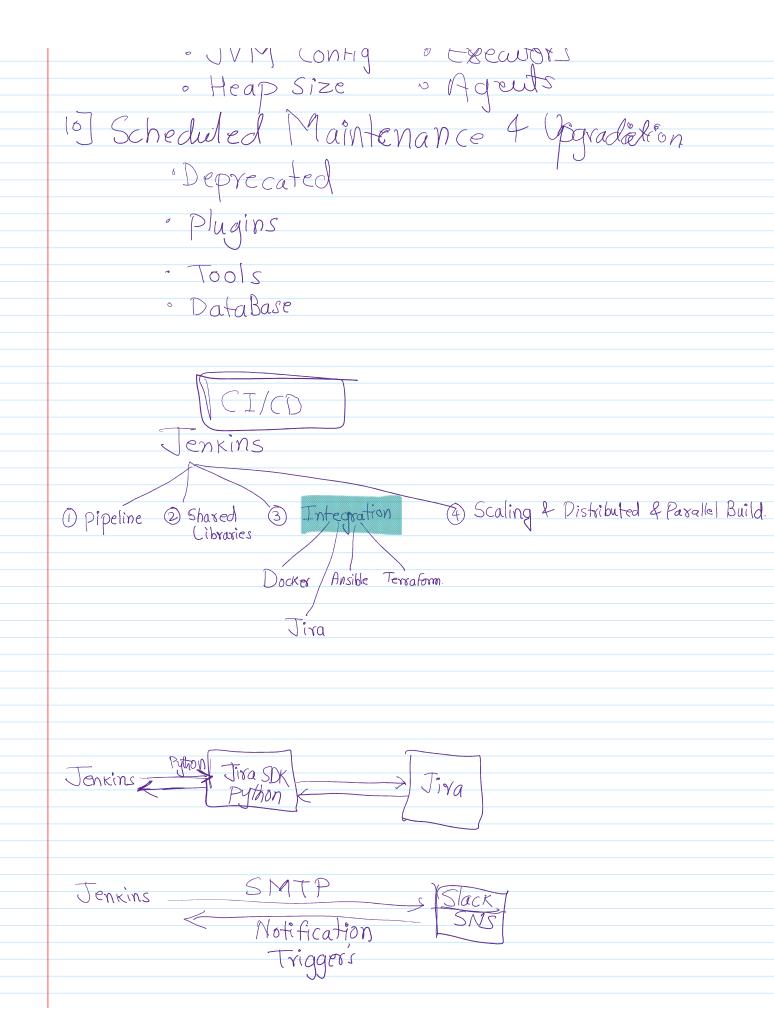
· Parallel Stages

7 Artifact Management

8] A word frequent things

Jenkins Master-Slave.

· JVM Config. · Executors · Head Size · Adents



- (Github Jenkins
- 2 Github -> Jenkins -> Java Console App.
- 3 Git -> Jen -> Java-> Mun.
- (A) Grit → Jen → Java → Mvn. → Junit.

 Test NG. → Selenium.
 - 1. VCS to CI Server
 - 1. Git hub Account, Repository
 - a. git clone https://github.com/NubeEra-Samples/Java-Welcome-HelloWorld.git
 - 2. Java(Installed, Configure Paths)
 - java -version
 openjdk version "17.0.7" 2023-04-18
 OpenJDK Runtime Environment OpenLogic-OpenJDK (build 17.0.7+7-adhoc..jdk17u)
 OpenJDK 64-Bit Server VM OpenLogic-OpenJDK (build 17.0.7+7-adhoc..jdk17u, mixed mode, sharing)
 - javac -version javac 17.0.7
 - 3. Jenkins
 - a. Install Jenkins(Single/Master-Slave)
 - i. Linux/Windows
 - b. Start Single/Multiple Servers(Master Slave Architecture)
 - Windows # java -jar jenkins.war --httpPort=8081
 - Unix(Linux/Mac) # systemctl restart jenkins
 - c. Configure Credentials

i. Type : Username & passwordii. Username : GitHub-User-Name

iii. Password/Token : Token

- d. Install Plugins
 - i. GitHub Integration
- e. Create Pipeline



