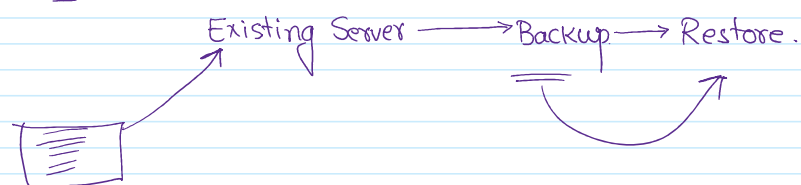


A1

1] AWS Services & Features

2] Benefits



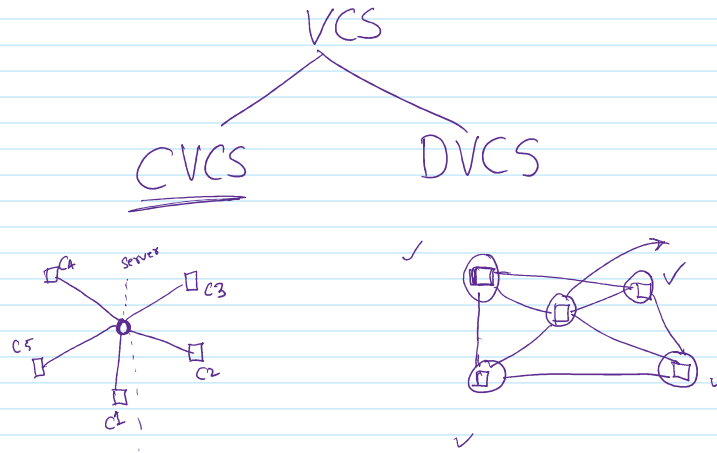
## CI/CD Tool Categories

- A] VCS Tool (Git) (Repo) → Code
- B] Build Tool (Maven)
- C] Testing Automation Tool (Selenium)
- D] Artifactory Managers (Repo) → Output
  - Nexus • Jfrog • SonarCube
- E] Configuration Management (Ansible)
- F] Container & Orchestration
  - Docker • K8S • Cloud C&O
- G] C. Deployment (Ansible, AWS Code deploy)
- H] IaC (Terraform)
- I] Monitoring & Logging (Prom. & Grafana)
- J] Collaboration
  - Agile • Jira

## VCS

- Organizing Proper Data. → GDrive
- Tracking changes → S3
- Multiple branching
- Collaborative with your team

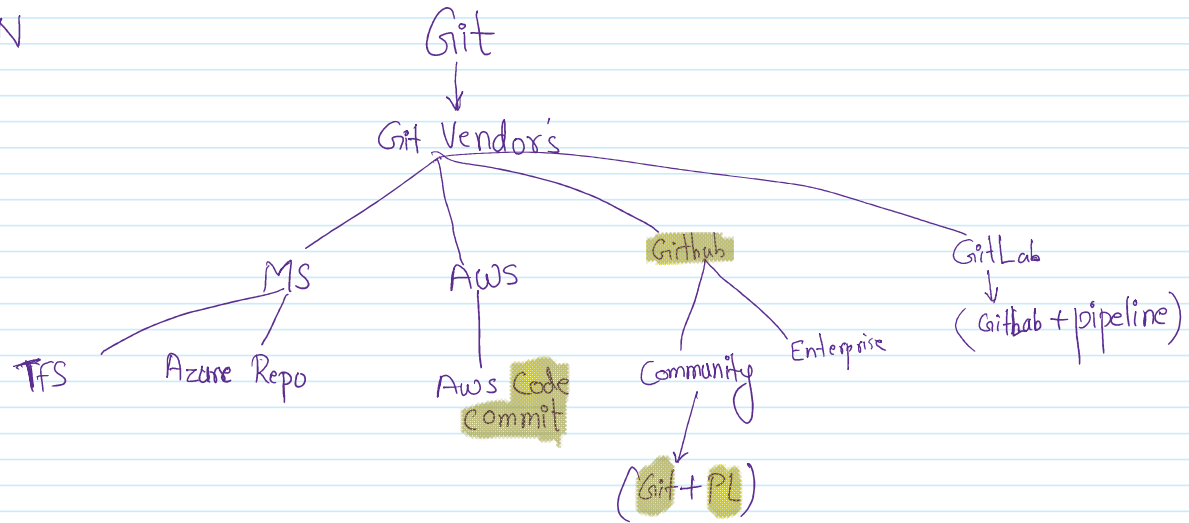
- Collaborative with your team



- Bottle neck Problem.

SVN

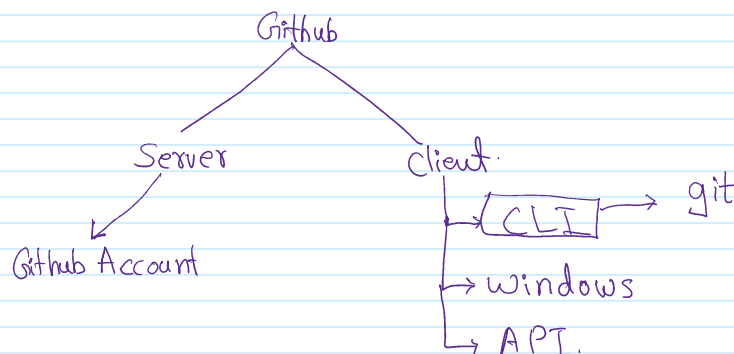
- Multiple copy of data.



### Github

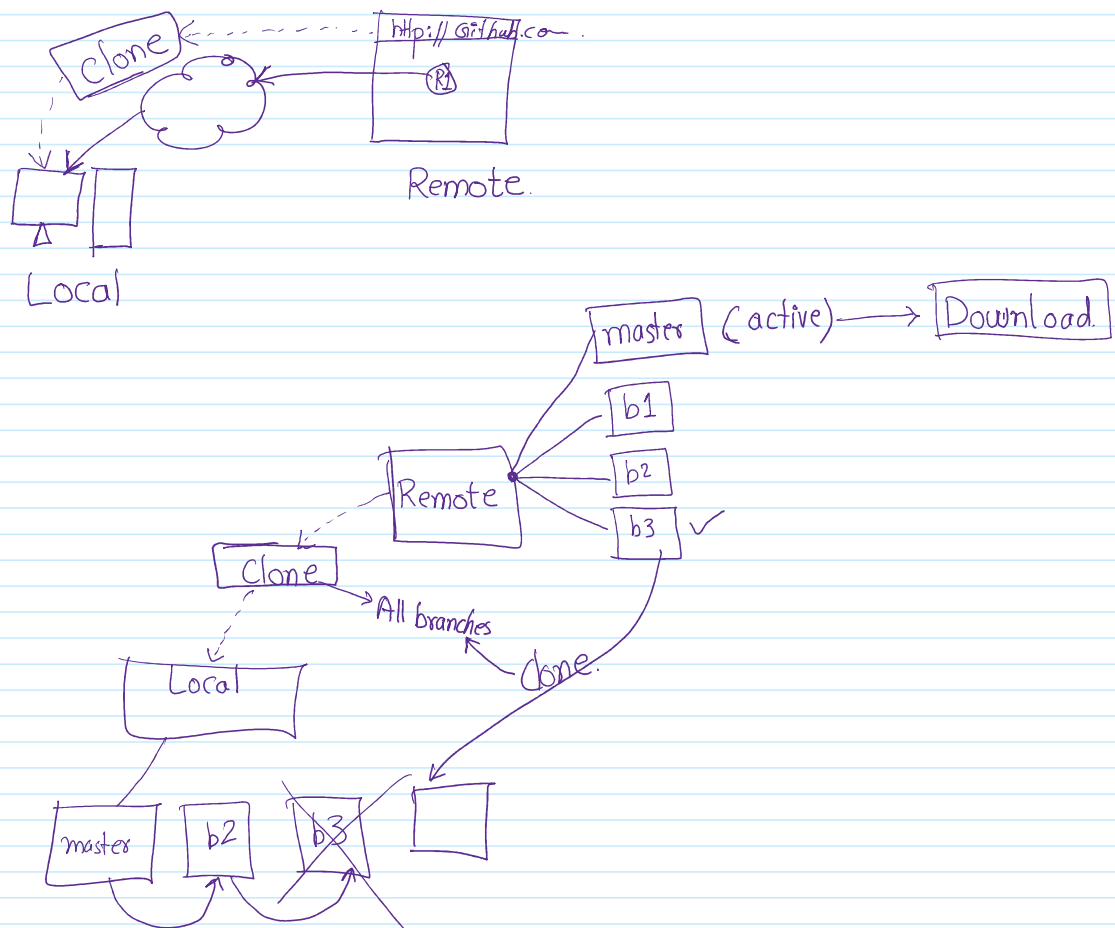
- Implementation of Git.
- World Leader in VCS
- Who

- Apple - Google - IBM  
 - MS - NASA - Bank of America.



<u>Git</u>	\$ git	Ansible	\$ ansible.
AWS	\$ aws	K8S	\$ kubectl
Docker	\$ docker.		

Clone Repo  $\Rightarrow$  git clone URL



#### One time Config. Commands

\$ git clone URL

\$ cd RepoName

\$ git status

\$ git config user.name

\$ git config user.email

#### Regular Git Commands

\$ git add . OR \$ git add pom.xml

\$ git commit -m "First Commit"

\$ git push -u origin main

#### Tasks

1. Check Git Installed or Not
  - a. Install Git:
    - i. Windows: Git SCM Software
    - ii. Linux: `sudo apt update && sudo apt install git -y`
  - b. Check `$ git --version`
2. Create Repository in Github.com
  - a. Name:
  - b. Type: Public
3. Clone Repository into your Linux
4. Update in files & Check Status
  - a. `$ cat > abc.txt`  
Welcome  
Ctrl+z
  - b. `$ git status`
5. Configure First time:
  - a. `$ git config user.name <GitHub-UserName>`
  - b. `$ git config user.email <GitHub-Email>`
6. Push changes to Github Remote Repository
  - a. `$ git add .`
  - b. `$ git commit -m "First Commit"`
  - c. `$ git push -u origin master`