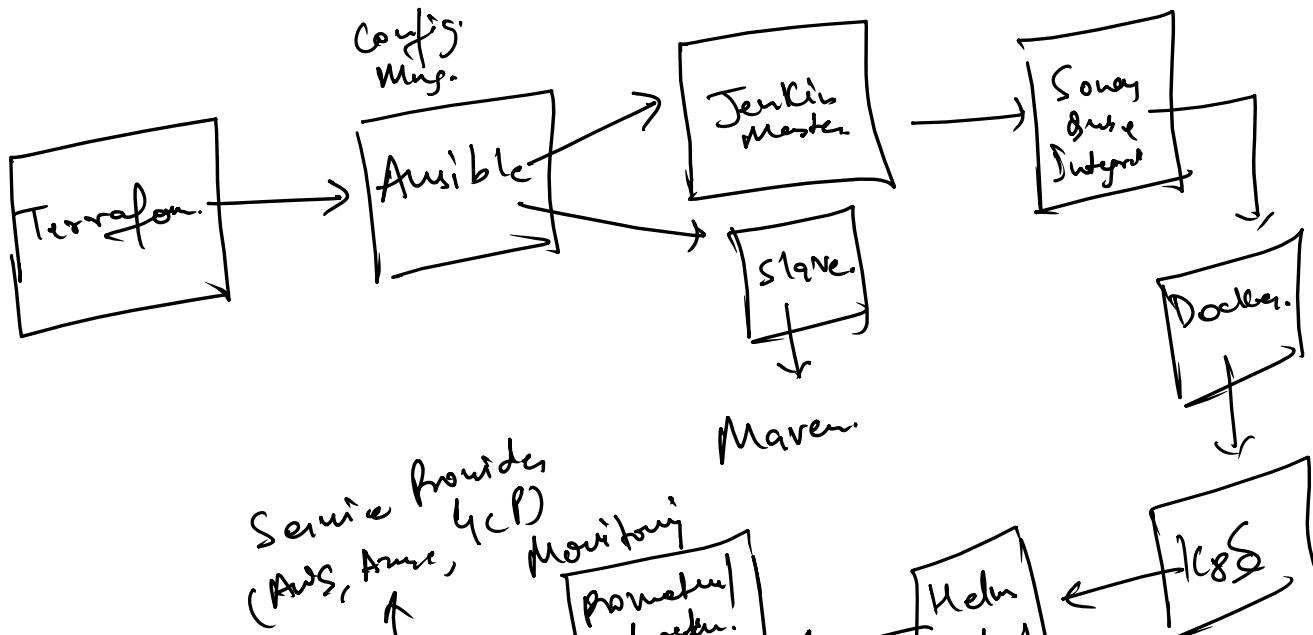
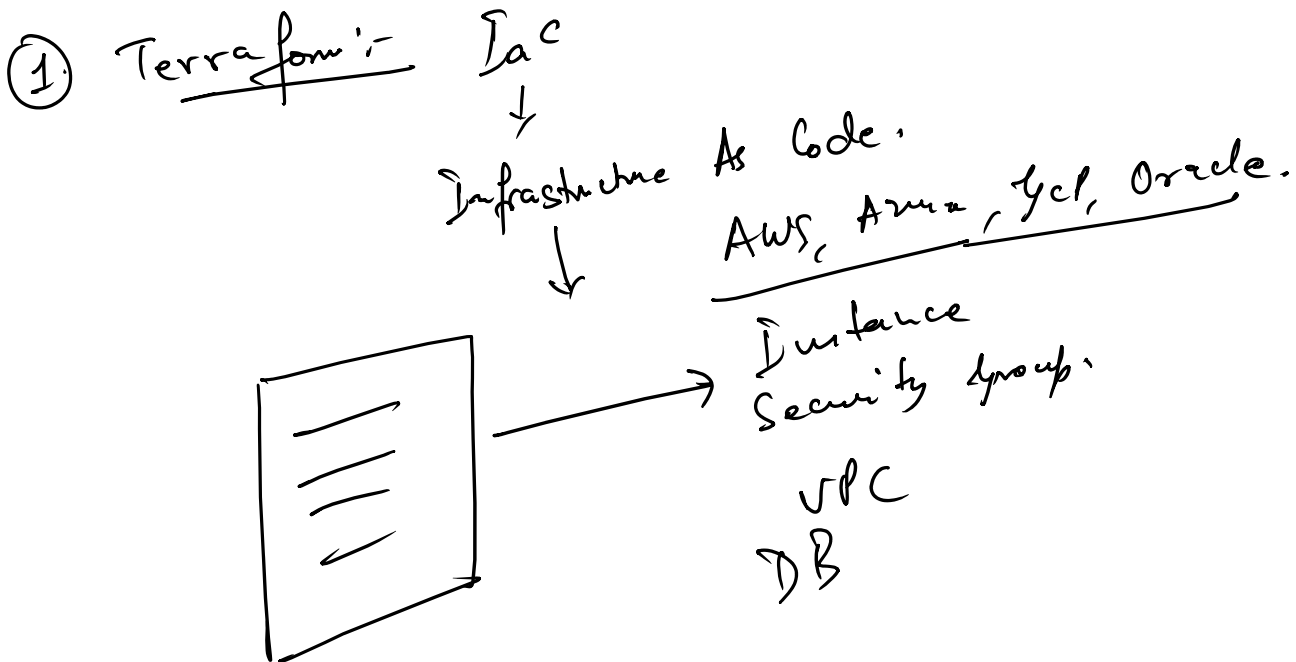
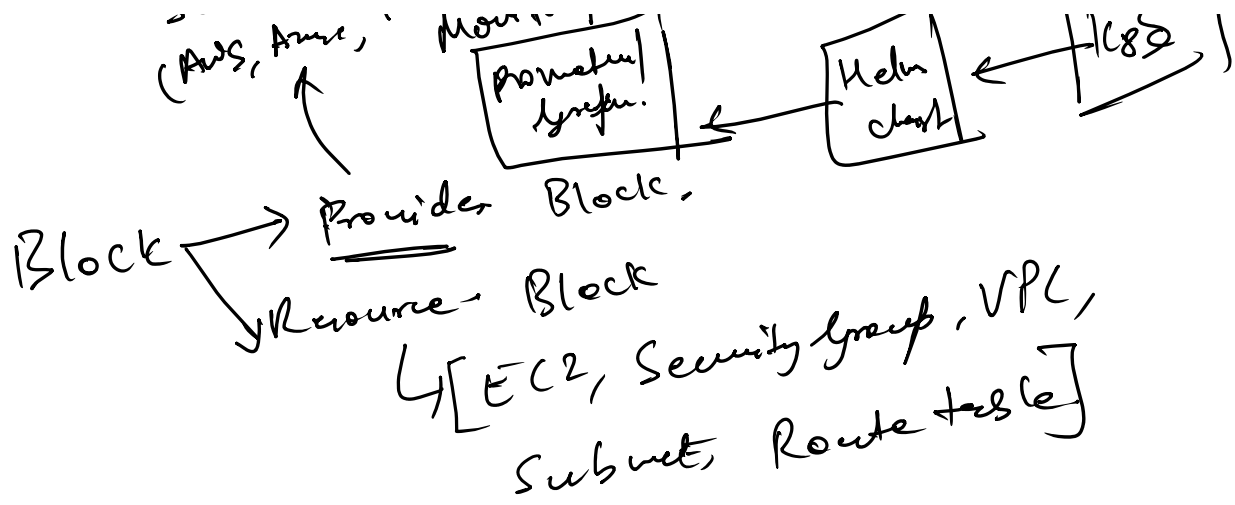


## Technology's

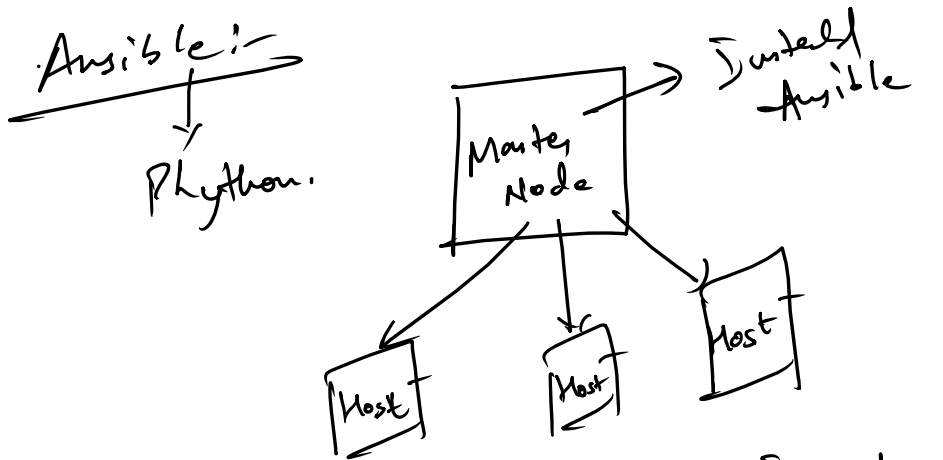
- ① Terraform - Infrastructure
- ② Ansible - Ansible
- ③ Jenkins - Master, Slave
- ④ Maven
- ⑤ SonarQube - (Security Scanning)
- ⑥ Docker - (Containers)
- ⑦ Kubernetes (K8S) - Orchestration
- ⑧ Helm chart - monitoring purpose
- ⑨ Prometheus & Grafana





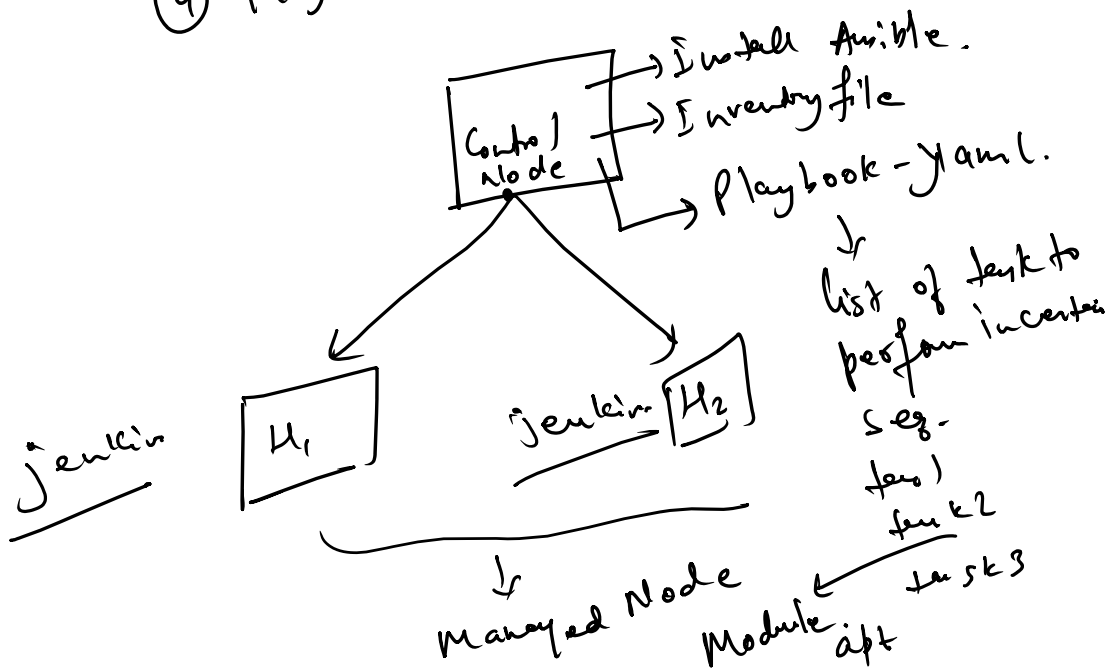
terraform init → Initialize terraform.  
 terraform validate → Validate syntax.  
 terraform plan → Preview  
 terraform apply → deploy change  
 terraform destroy → Delete the resource

aws cli →

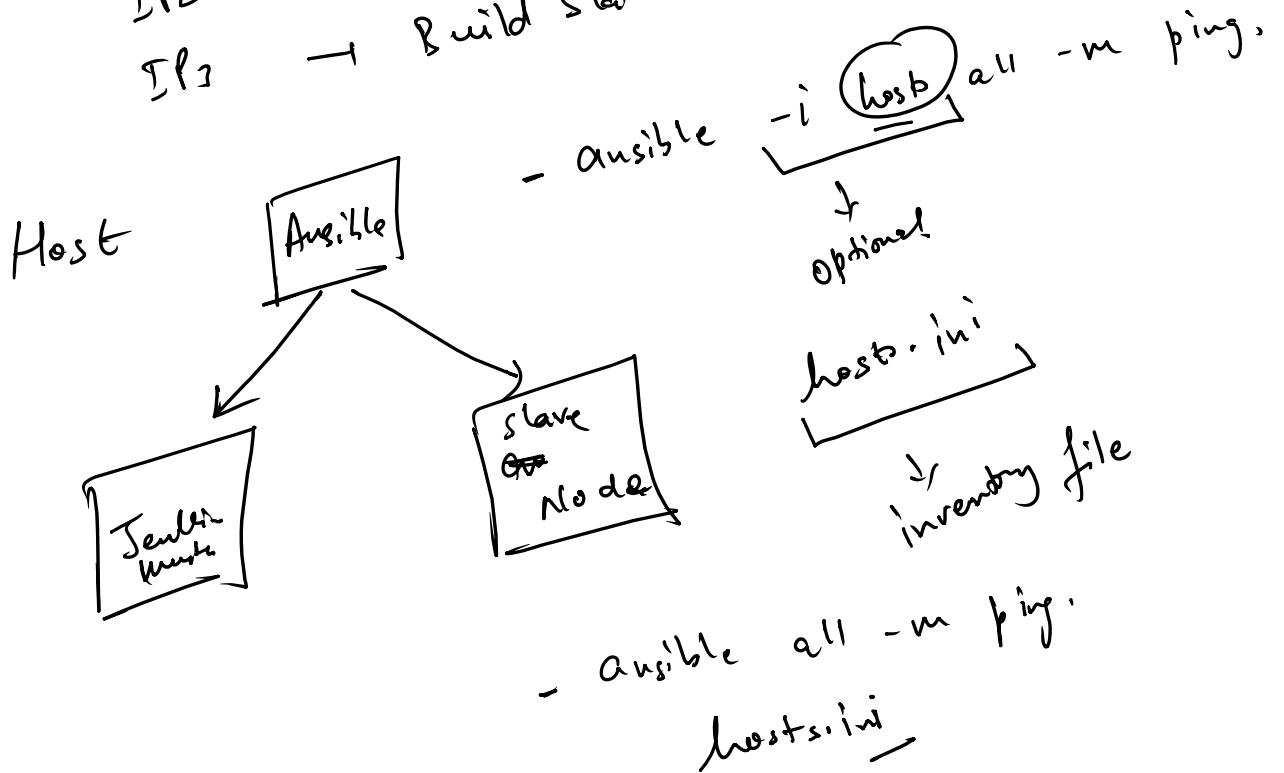


- (5) Inventory.
- ① Control Node.
  - ② Managed Node.
  - ③ Module.
- Playbook

③ module.  
④ playbook



IP1 → Control Node  
IP2 → Jenkins Master.  
IP3 → Build slave.



playbook.yaml  
host: ...

playbook 0

```

- host:
  Task1
  Task2
  Task3
  
```

Jenkins.

- ① Jenkins key.
- ② Java
- ③ Jenkins Repo
- ④ Install Jenkins
- ⑤ Start Jenkins
- ⑥ Enable at Boottime

```

- host:
  Task1
  Task2
  Task3
  
```

```

[jenkins-master]
ip:
  
```

```

[slave-node]
ip:
  
```

① Host.

② Jenkins-master-setup.yml.

```

- host: jenkins-master.
  
```

```

- tasks:
  
```

```

-
-
-
-
-
  
```

Ansible-playbook

```

- i: host
  
```

```

Jenkins-master-setup.
yml.
  
```