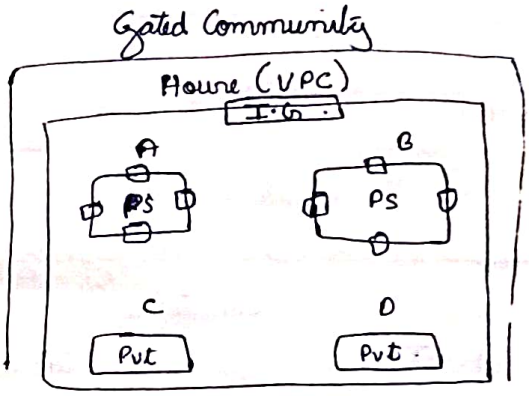
29/03/2025. SKill-Lab.

Terraform :- Infrastructure as code tool

commands :- tiraform init = Initialize
tiraform validate
tiraform Plan = Blueprint
Terraform apply
tiraform destroy = clear out.

Network Components
VPC - Virtual private cloud.
↳ Subnets
↳ A & B = Public Subnet. (with wndw)
↳ C & D = Private Subnet (without wndw).



Public Subnet : Direct Internet Access.

Internet gateway (IG) gives access to public Subnets groups only through VPC

NAT Gateway gives access to private Subnets (Network address translation).

= You access any service, too much ntwrk traffic, to guide the Internet gateway to go to particular location Route table / Address Book is used.

- EC2 → Instances : VPC id, Subnet id.

1) Tap VPC link + VPC link again] for network components.

2) Install tiraform (386)

Experiment No. : Date :

3) Terraform install
- while Extracting - Extract to program files (create a folder & store)
- Environment variables + path updation

3) AWS CLI install

4) login to AWS → IAM
• Access key creation [created by owner of IAM]

5) Create new folder + open in VS code.

6) Terra file creation ∵ <file name>.tf.
- aws configure
- credentials
• Terraform file used to store resources
⇒ <file name>.tf ⇒ aws provider
<main>.tf ⇒ aws ec2 resources docs (code)
⇒ aws & terraform init.

• Terraform validate
• terraform plan
• terraform apply • make sure ami id is same for the region

• aws vpc.
• aws subnet
• aws internet gateway

-apt update -y. } for ubuntu

Requirements for developing an application

→ Source Code
→ Dependencies.
→ Libraries
→ Application Config files
→ Required folders or files