Application/Website

- 2-Tier Application
- 3-Tier Application

3-Tier Application

- Frontend/PresentationLayer
- Backend/Bussiness Layer
- Database/for storing data

PC Physical Computer

Virtual Machine

- Code(react)
- Code(Phython)
- SQL/NOSQL

Management Group/Subcriptoin → Networkig → Compute

Monitoring/Logging ← Backup/Disaster Recovery ← Load Balancing servises ← Compute

Cost Optimization/FinOps

Management Group

Subcription

Resource Group

Virtual Nework

USA

IP Address

Range/Address Space

10.20.0.0

0-255 0-255 0-255 0-255

INDIA

10.25.45.89

0.255 0-255 0-255 0255

Virtual Network   10.*.*.*

Pubic IP

PrivateIP

0-255 0-255 0-255 0-255

JIO PUBLIC IP

192.168.*.*

HOME NETWORK

192.168.1.6

192.168.1.8

192.168.1.7

Azure Virtual Network

Subnet

Hybrid Architecture(Cloud+Onpremise)

Tower 1/Vnet

- Floor4/subnet — 401 402
- Floor3/subnet — 301 302
- Floor2/subnet — 201 202
- Floor1/subnet — 101 102

L I F T

Tower 2/Vnet

- Floor4/subnet — 401 402
- Floor3/subnet — 301 302
- Floor2/subnet — 201 202
- Floor1/subnet — 101 102

L I F T

Point to Site
Site to Site
Express Route

VPN Gatway

VPN Gatway

Onpremise Datacentre

Vnet Peering(Same region)/Global Vnet Peering(Diffrent Region)

Vertual Machine can communicate directly within a virtual network if there is not network security involved

One virtual mahine is vnet1 can not communicate with a virtual machine vnet2