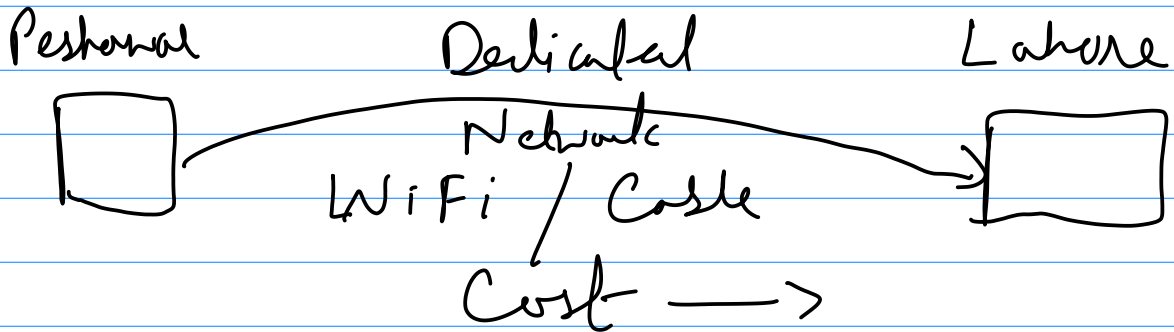


Week-4

## Virtual Private Cloud :-

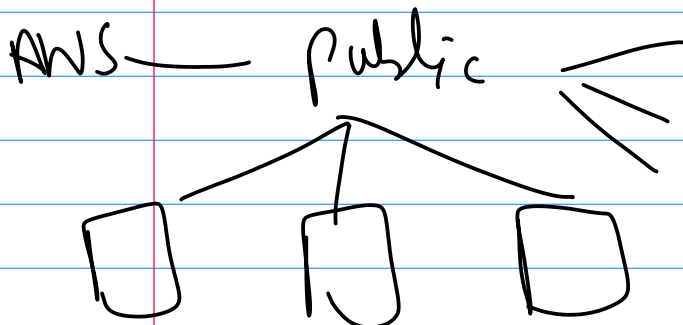
VPN → Virtual Private Network

①                      ②



Public Network (Internet)  
VPN  
Creation of Private Network  
Using public network  
VPN

## Virtual Private Cloud



We can not  
trust third party  
for this service

Cloud Provider

VPC →

②

Custom VPC

① Default

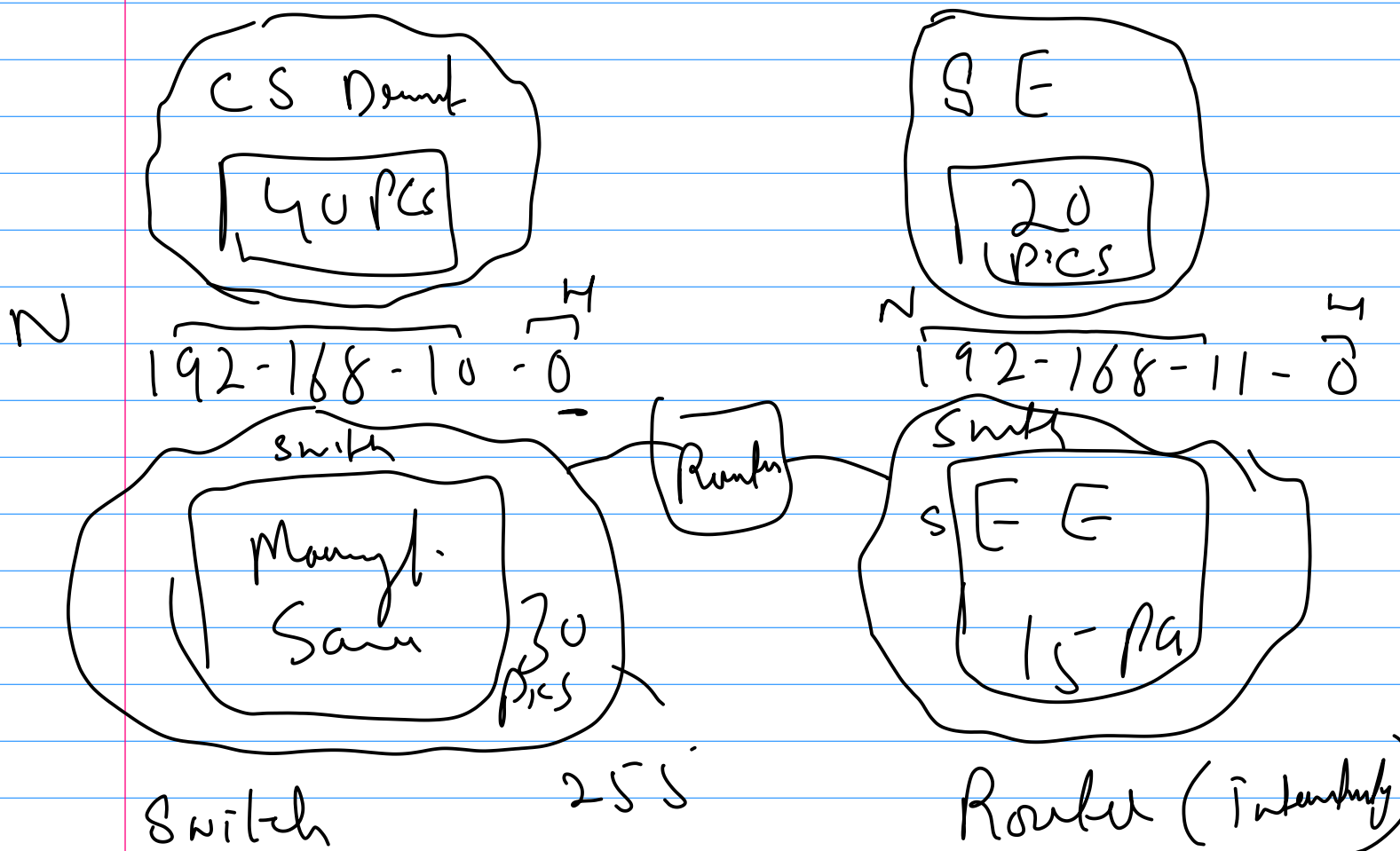
Security

concern

We can enforce constraints as per need

Subnetting :: ??

Network within a network





Subnet - 1

192 - 168 - 1 - 0 / 26

Subnet - 2

192 - 168 - 1 - 64 / 26

192 - 168 - 1 - 128 / 26

192 - 168 - 1 - 192 / 26

VPC

Public

Private

Construct

Construct

Region



Zones

North

Virginia

US

Chari

1 Region

5 VPC

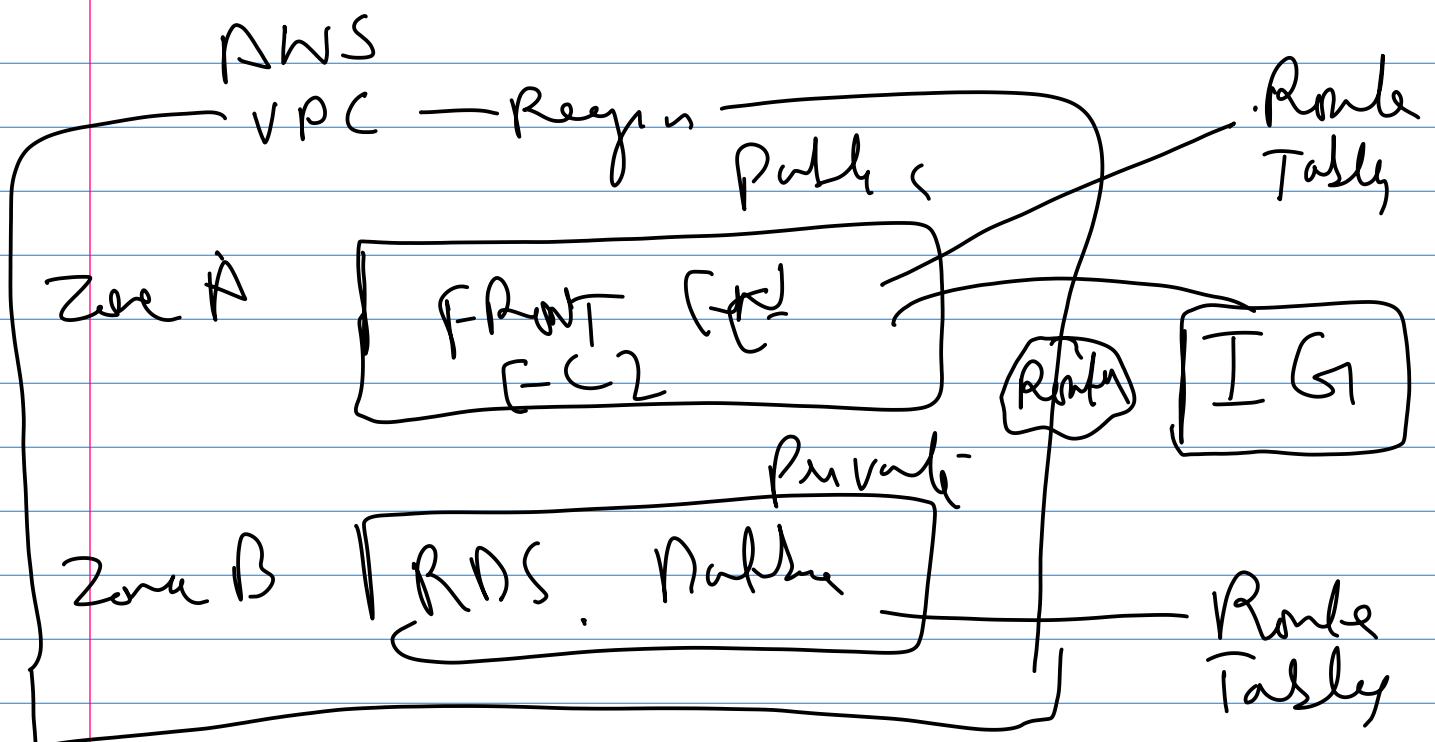
1 VPC

200

## VPC Components

- (1) Sub Net  $\begin{cases} \text{Public} \\ \text{Private} \end{cases}$
- (2) Internet Gateway
- (3) Security Groups
- (4) NACL  $\rightarrow$  Network Access Control List
- (5) NAT Gateway
- (6) Routes

VPC ———— Routes



NAT Gateway — Network Address  
Translation

Nat Gateway —> Public  
Private

NACL

Network Level  
| subnet -

Security Group

Operate  
Level

Allow only

Allow / Deny

VPC Peering

vpc

Public IP

vpc