VPC - Virtual Private Cloud

\* Setting Private cloud

\* 4 step in EC2 - Network Settings

\* What is Region?

\* What is Availiability zone

IP Range

0-255 (256) Totally

IP Address Two Types

1. Public

2. Private

Ipv4

Organization

Public

Private IP

10.0.0.0 to 10.255.255.255

172.16.0.0 to 172.31.255.255

192.168.0.0 to 192.168.255.255

(i) VPC Creation > CIDR Block

Classless Inter-Domain Routing

Each number called has octile

8.8.8.8 = 32 bits

10.0.0.0 /30

/29

/28

10.0.0.0/24

10.0.0.0/16

(ii) Subnets

4 subnets

10.0.1.0/24 - 256

10.0.55.0/24 -256

10.0.6.0/24 -256

10.0.7.0/24 -256

(iii) one vpc > 3 subnets

10.0.1.0/24 , 10.0.2.0/24 , 10.0.3.0/24 > 3 servers

Internet Gateway - security

1:1 Ratio

One vpc one IGW is possible

Sign Board - Route Table

Each subnet to be connected with IGW

(iv) Subnet Types

Public--web

Private--database

NAT Gateway -Network Address Transfer

Public subnet network borrowing to private (ONLY INTERNET)