

65,536/256= 256 SUBNETS



Subnet-1

Subnet-2

Subnet-3

Subnet-256

10.0.1.0/24= 256 IPs 10.0.2.0/24= 256 IPs 10.0.3.0/24= 256 IPs

10.0.255.0/24= **256** IPs

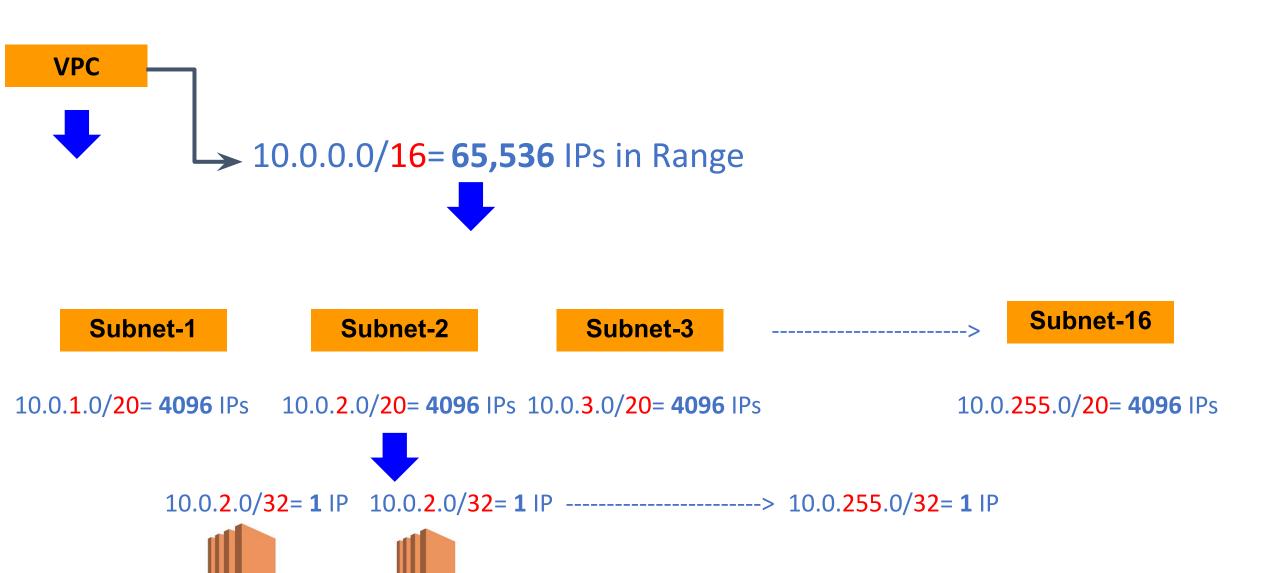


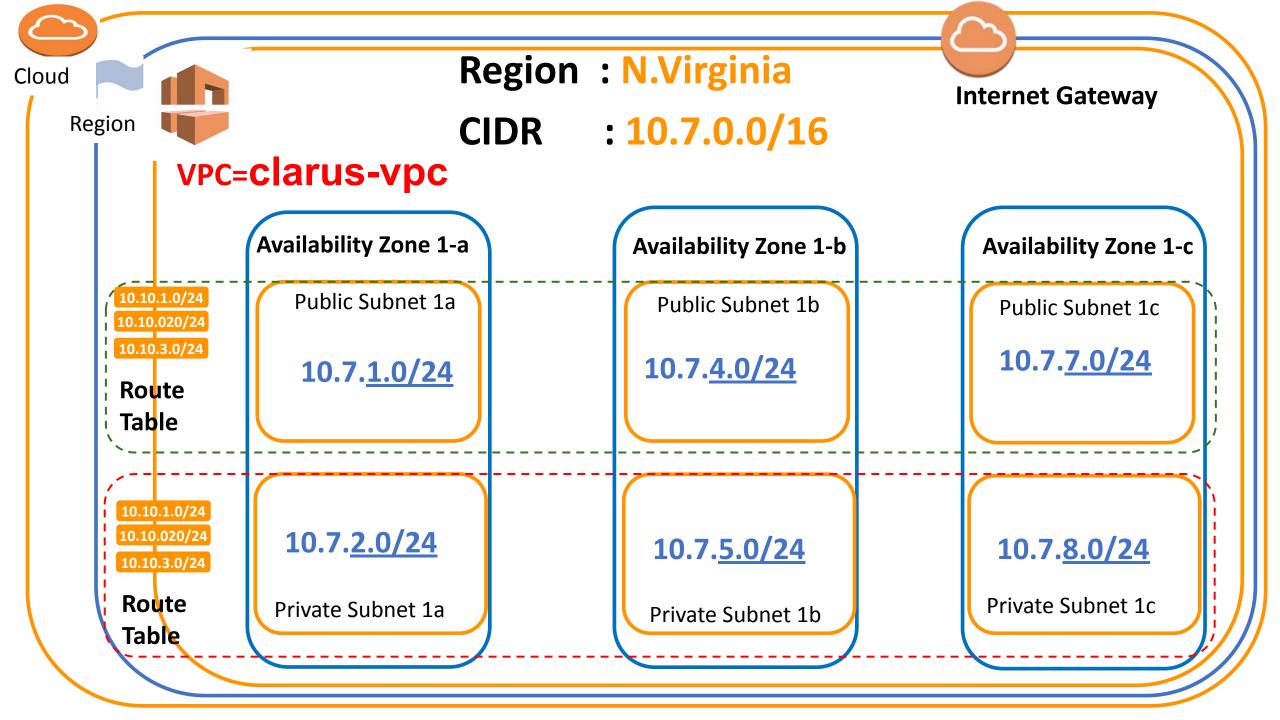
10.0.2.0/32= 1 IP 10.0.2.3/32= 1 IP -----> 10.0.255.0/32= 1 IP



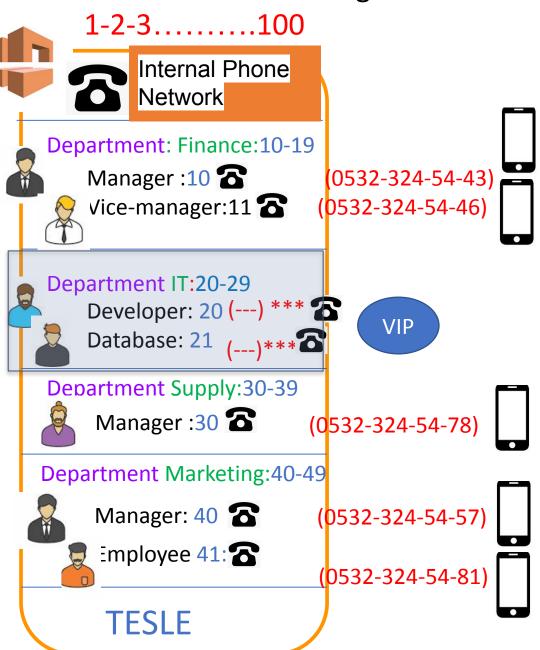


65,536/4096= 16 SUBNETS

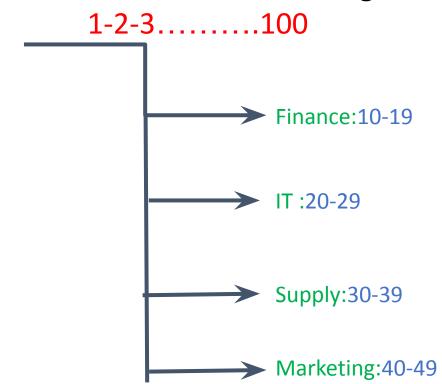




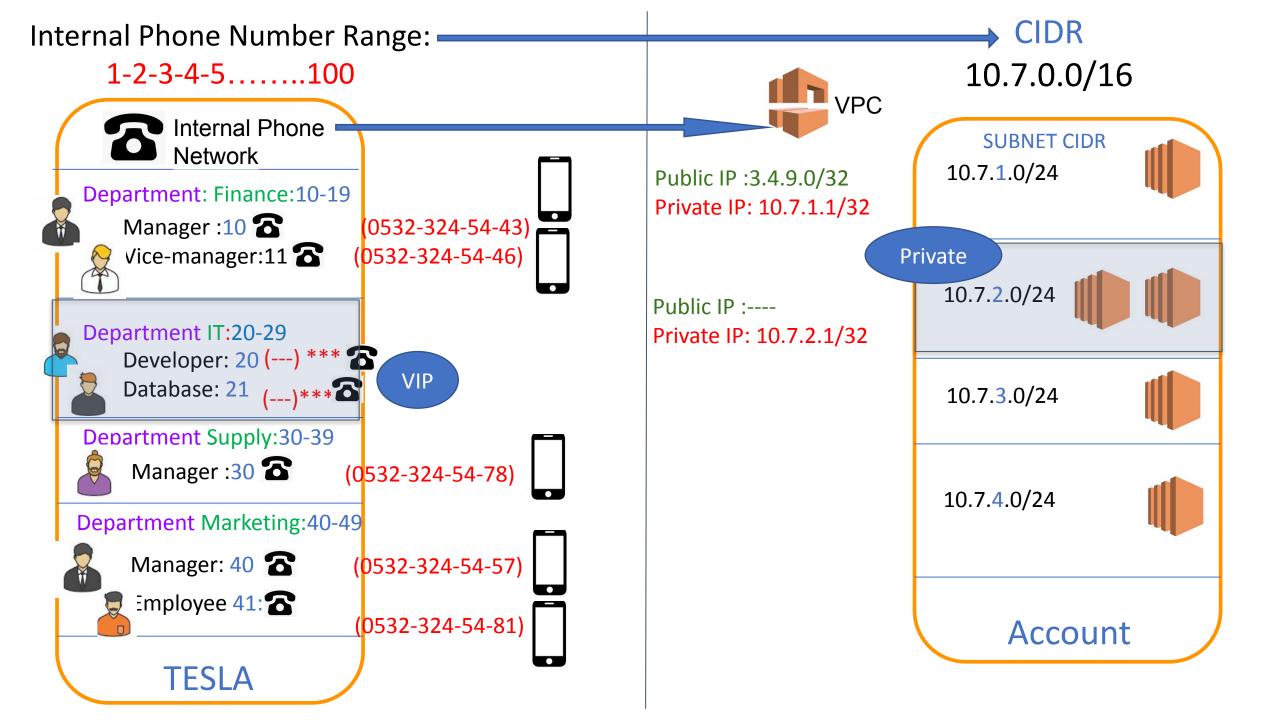
Internal Phone Number Range:



Internal Phone Number Range:



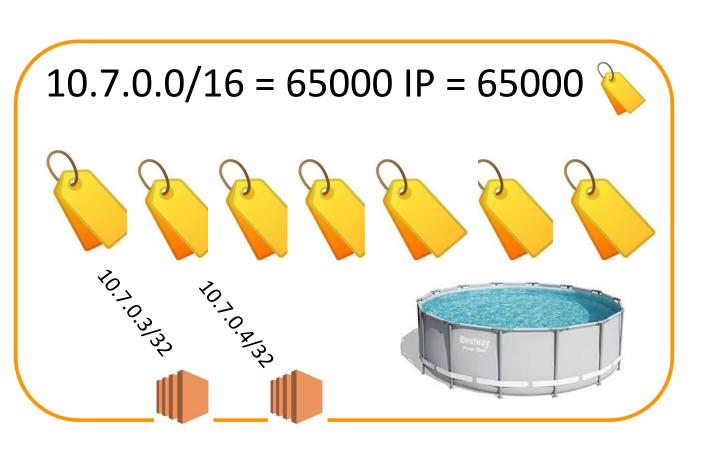


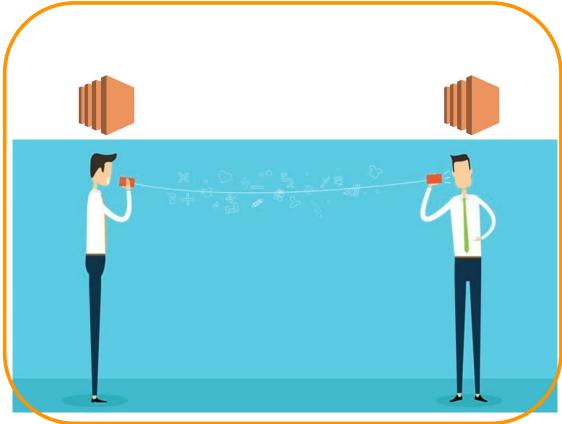


VPC CIDR Bock

Labeling

Internal Communication





How is it possible to use the same CIDR block for all of us?

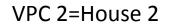
SSN:01-A-2345-4563



SSN:02-C-98756H64

VPC 1=House 1







VPC CIDR IP POOL

10.7.0.0/16 = 65000 IP

AWS PUBLIC IP POOL



VPC



10.7.1.0/32



10.7.2.0/32 175.0.0.1/32



Create VPC

Name tag: clarus-vpc

Create IGW

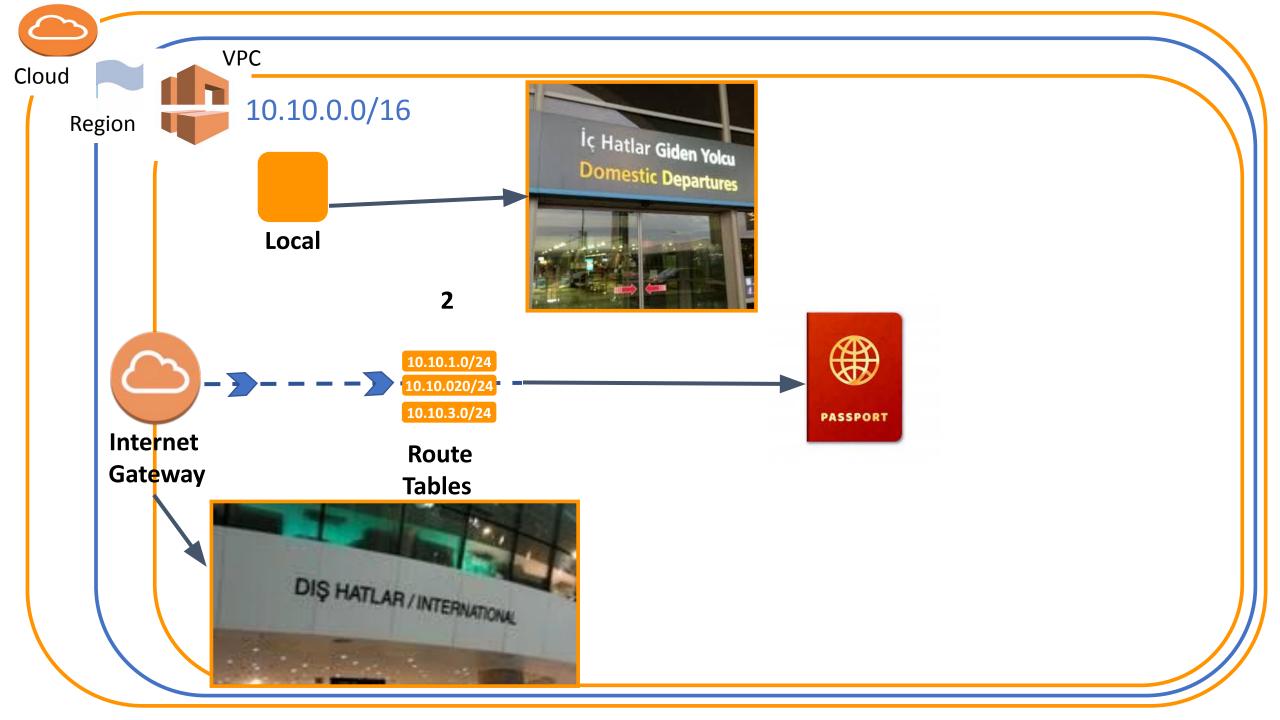
IPv4 CIDR block: 10.7.0.0/16

IGW Action Menu: Attach IGW to VPC

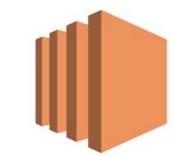
Set the VPC Route Table: 00000:/0 > IGW

VPC Action Menu: Edit DNS Hostname

Name Default Route Table: default-labypc



- Name tag: clarus-vpc-a
- IPv4 CIDR block: 10.7.0.0/16



us-east-1a

- public
- clarus-az1a-public-subnet
- us-east-1a

10.7.1.0/24 10.7.1.85

- private
- clarus-az1a-private-subnet
- us-east-1a

10.7.2.0/24

Spare...

us-east-1a 10.7.3.0/24

us-east-1b

- public
- clarus-az1b-public-subnet
- us-east-1b

10.7.4.0/24

- private
- clarus-az1b-private-subnet
- us-east-1b

10.7.5.0/24

Spare...

us-east-1b 10.7.6.0/24

us-east-1c

- public
- clarus-az1c-public-subnet
- us-east-1c

10.7.7.0/24

- private
- clarus-az1c-private-subnet
- us-east-1c

10.7.8.0/24

Spare...

us-east-1c 10.7.9.0/24 1- All Subnets are associated with Default Route Table Implicitly

Conclusion

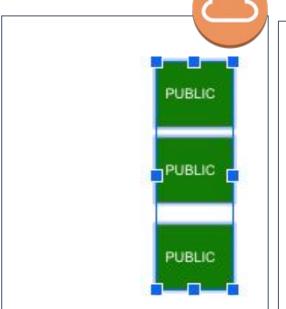
2- By default all subnets are
PUBLIC !!!!!! a.Local
b.0000/0 >>>>IGW

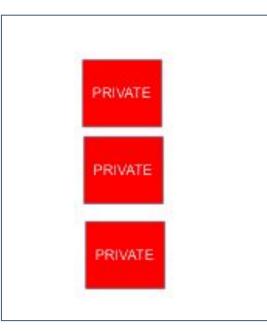
Current= 6 Public **Desired=** 3 Public **3 Private**

Option-1

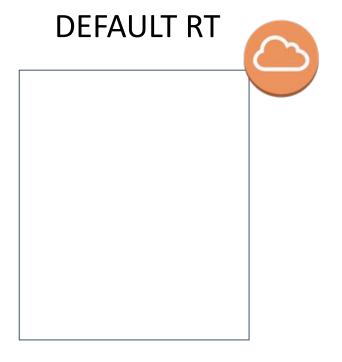
DEFAULT RT

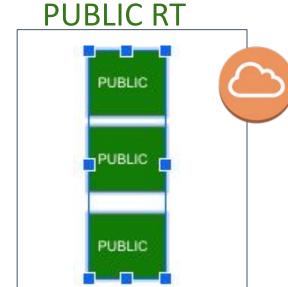
PRIVATE RT



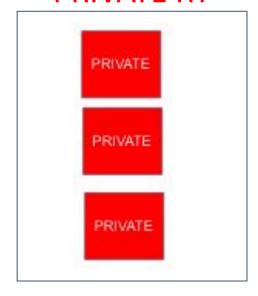


Option-2





PRIVATE RT



Public Route Table Steps

Create a new Route Table for Public Subnets

Associate 3 Public Subnetswith Public Route Table

Set Routes:

a.Local

b.0000/0 >>>IGW

Modify Auto-Assign IP
Settings-Subnet Action
Menu-Edit subnet settings

Default Route Table of VPC
3 Public Subnets
Internet Connectivity

Create 3 Public and 3 Private Subnets





Private Route Table Steps

a.Local

Create a new Route Table for Private Subnets

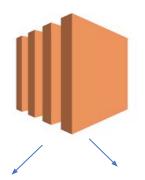


Associate 3 Private Subnetswith Private Route Table



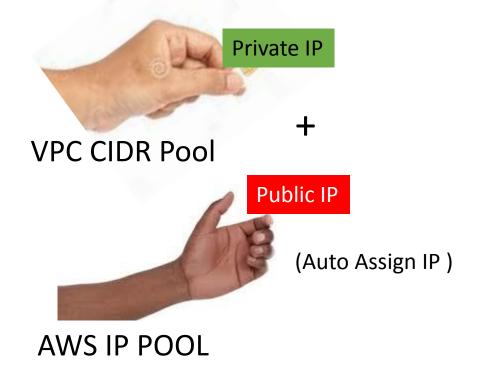
Route Table of Private
3 Private Subnets
Internet Connectivity

Launching an Instance



Create in Public Subnet

Create in Private Subnet







Route Tables





Private Subnets Internet Connectivity

Public Subnets
Internet Connectivity

