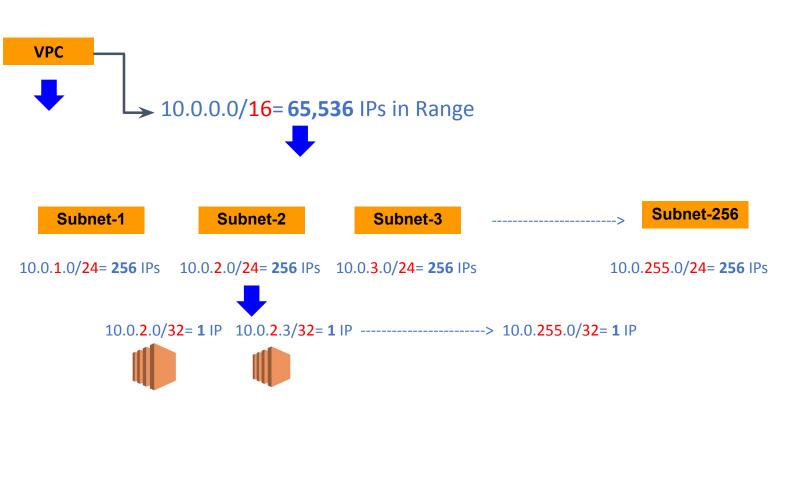
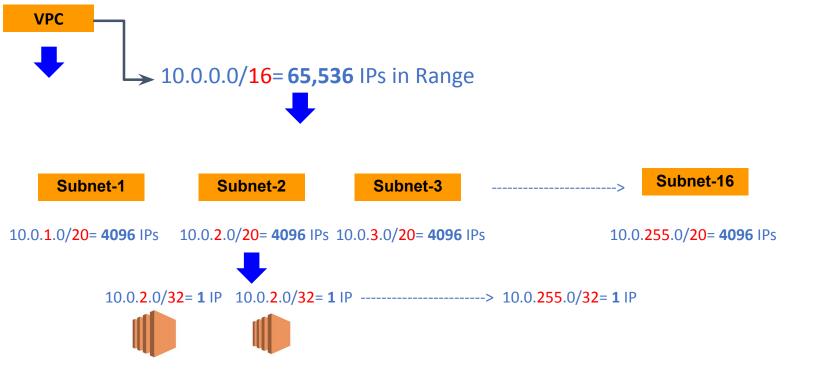
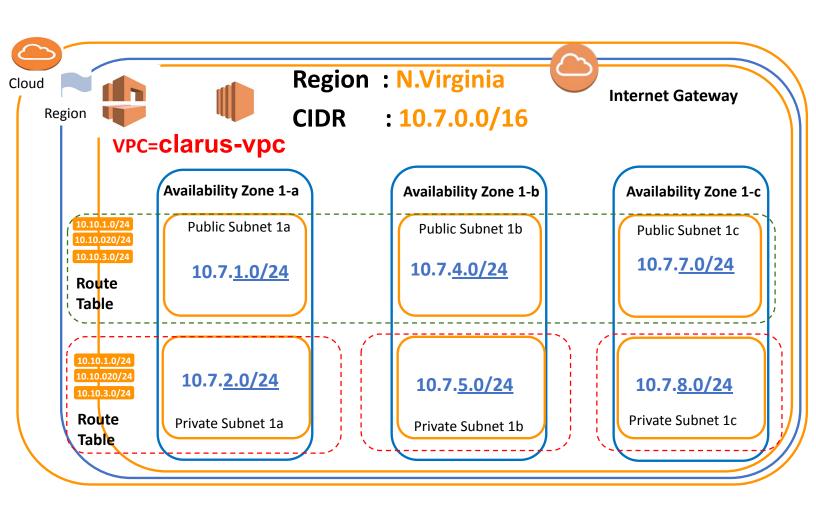


# 65,536/256= 256 SUBNETS

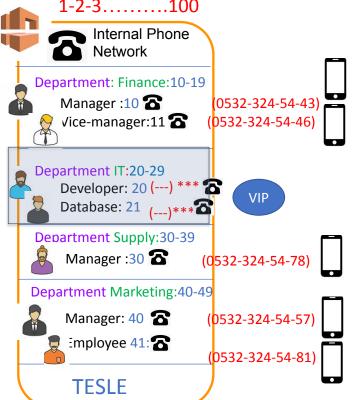


## 65,536/4096= 16 SUBNETS

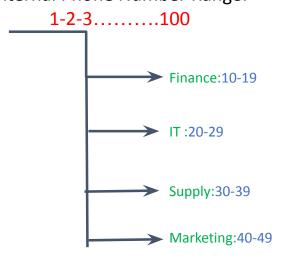




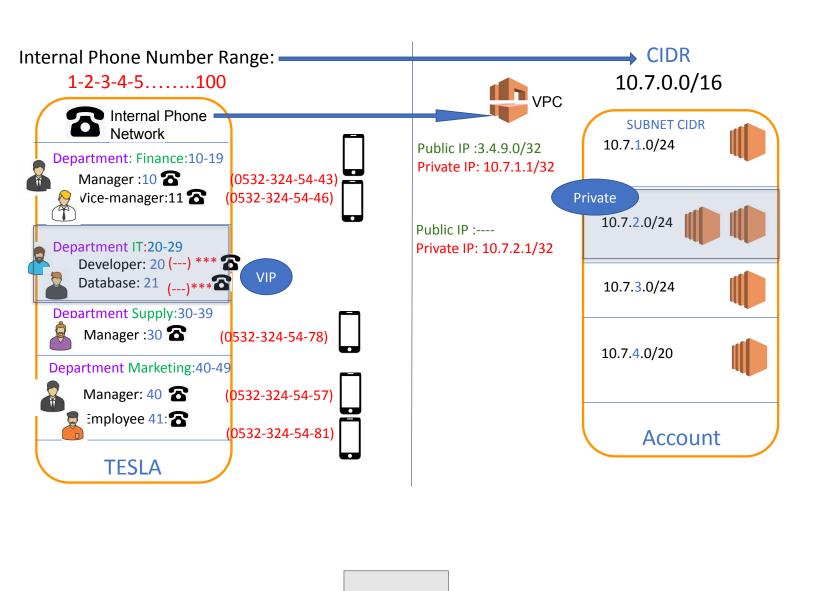


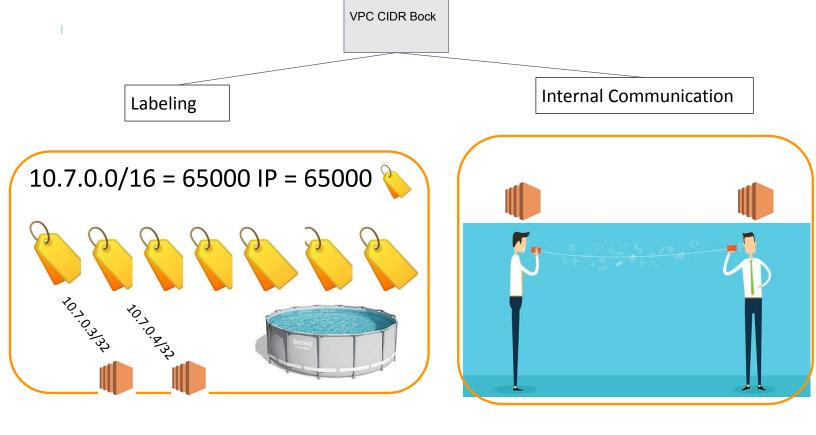


# Internal Phone Number Range:









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

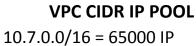
SSN:01-A-2345-4563

SSN:02-C-98756H64

VPC 1=House 1









### **AWS PUBLIC IP POOL**



VPC



10.7.1.0/32



**Private Subnet** 

10.7.2.0/32 175.0.0.1/32



**Public Subnet** 

**Create VPC** 

Name tag: clarus-vpc-a

IPv4 CIDR block: 10.7.0.0/16

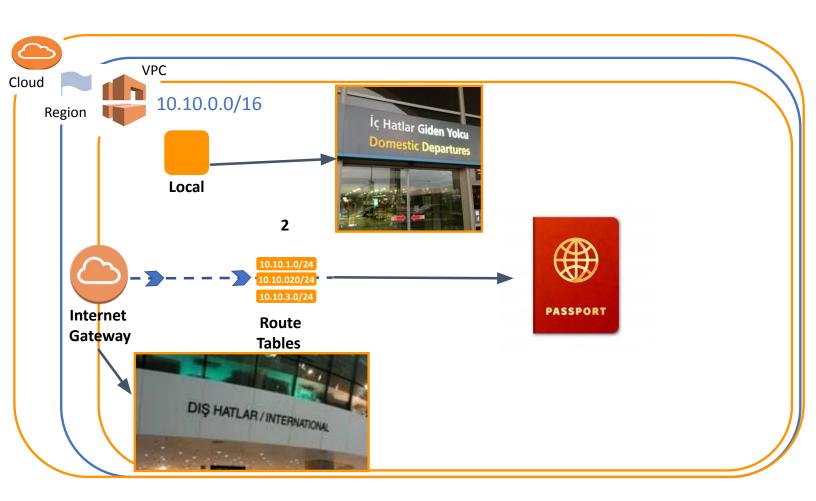
**Create IGW** 

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-labvpc



. 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

- 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

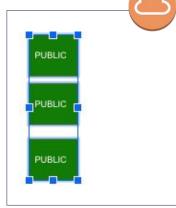
Conclusion

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

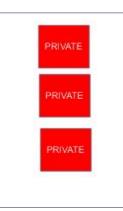
Current= 6 Public Desired = 3 Public 3 Private

# Option-1

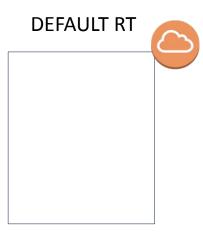
**DEFAULT RT** 

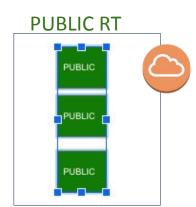


**PRIVATE RT** 

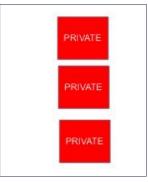


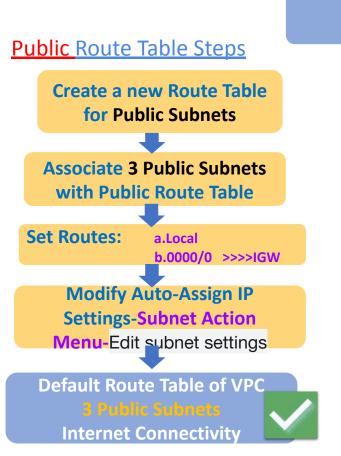
# Option-2





#### **PRIVATE RT**





**Create 3 Public and 3 Private Subnets** 

**Private Route Table Steps** 

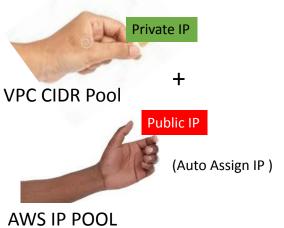
a.Local

**Create a new Route Table for Private Subnets** 

**Associate 3 Private Subnets** with Private Route Table

**Route Table of Private 3 Private Subnets Internet Connectivity** 

# Launching an Instance Create in Public Subnet Create in Private IP











**Public Subnets Internet Connectivity** 



