Connectivity

Virtual Private Cloud (VPC) Info

VPC that defines the virtual networking environment for this DB instance.

Default VPC (vpc-d8715da2)

Only VPCs with a corresponding DB subnet group are listed.

After a database is created, you can't change the VPC selection.

▼ Additional connectivity configuration

Subnet group Info

DB subnet group that defines which subnets and IP ranges the DB instance can use in the VPC you selected.

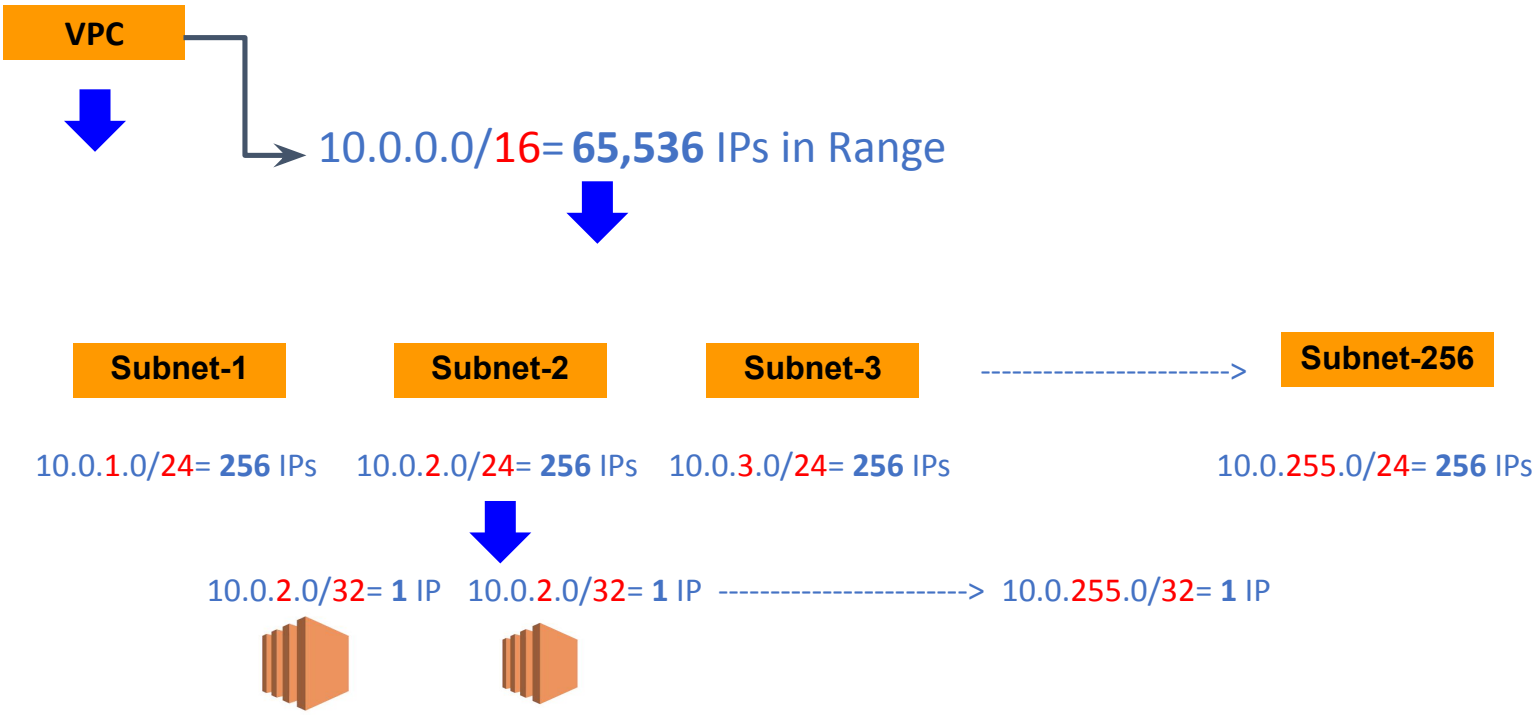
default

Publicly accessible Info

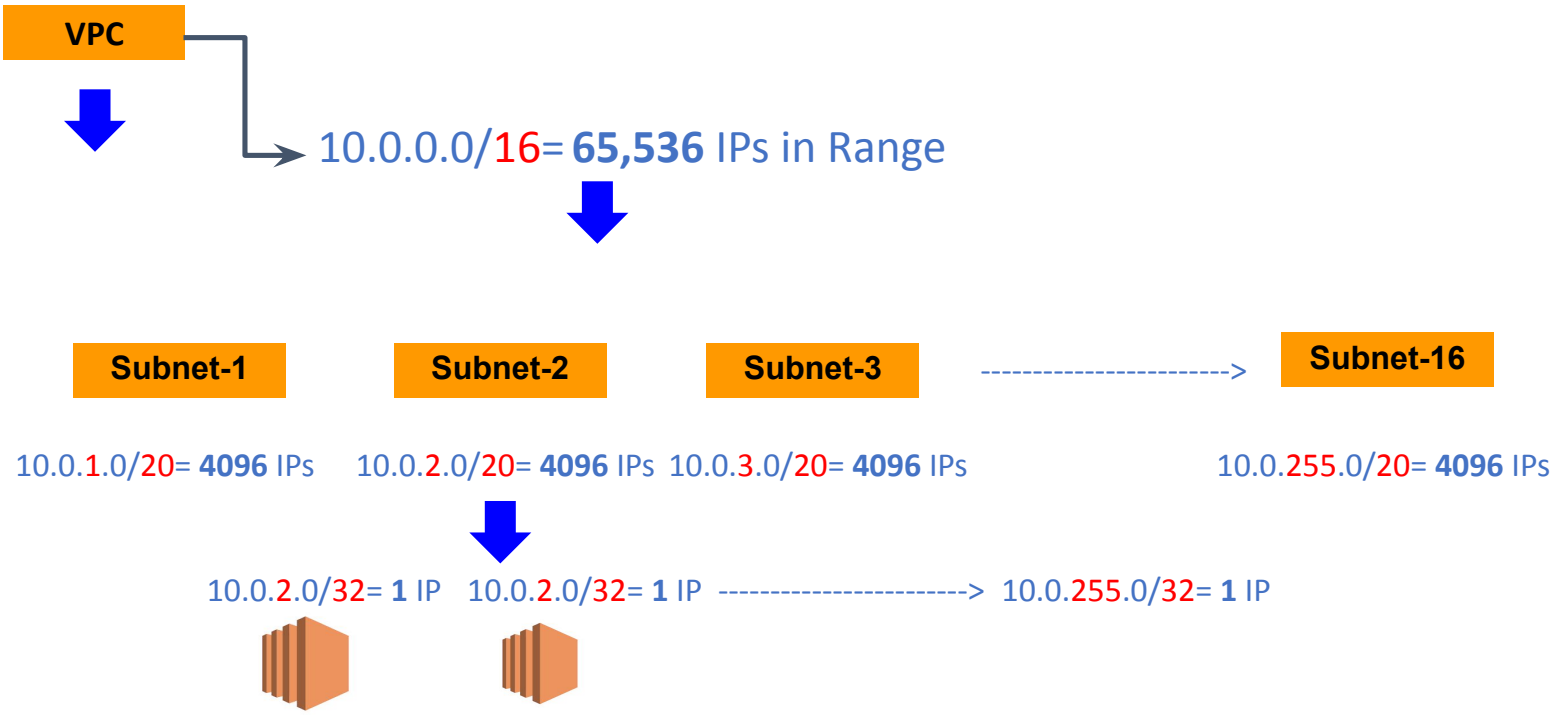
- (•) Yes
  Amazon EC2 instances and devices outside the VPC can connect to your database. Choose one or more VPC security groups that specify which EC2 instances and devices inside the VPC can connect to the database.
- ( ) No
  RDS will not assign a public IP address to the database. Only Amazon EC2 instances and devices inside the VPC can connect to your database.

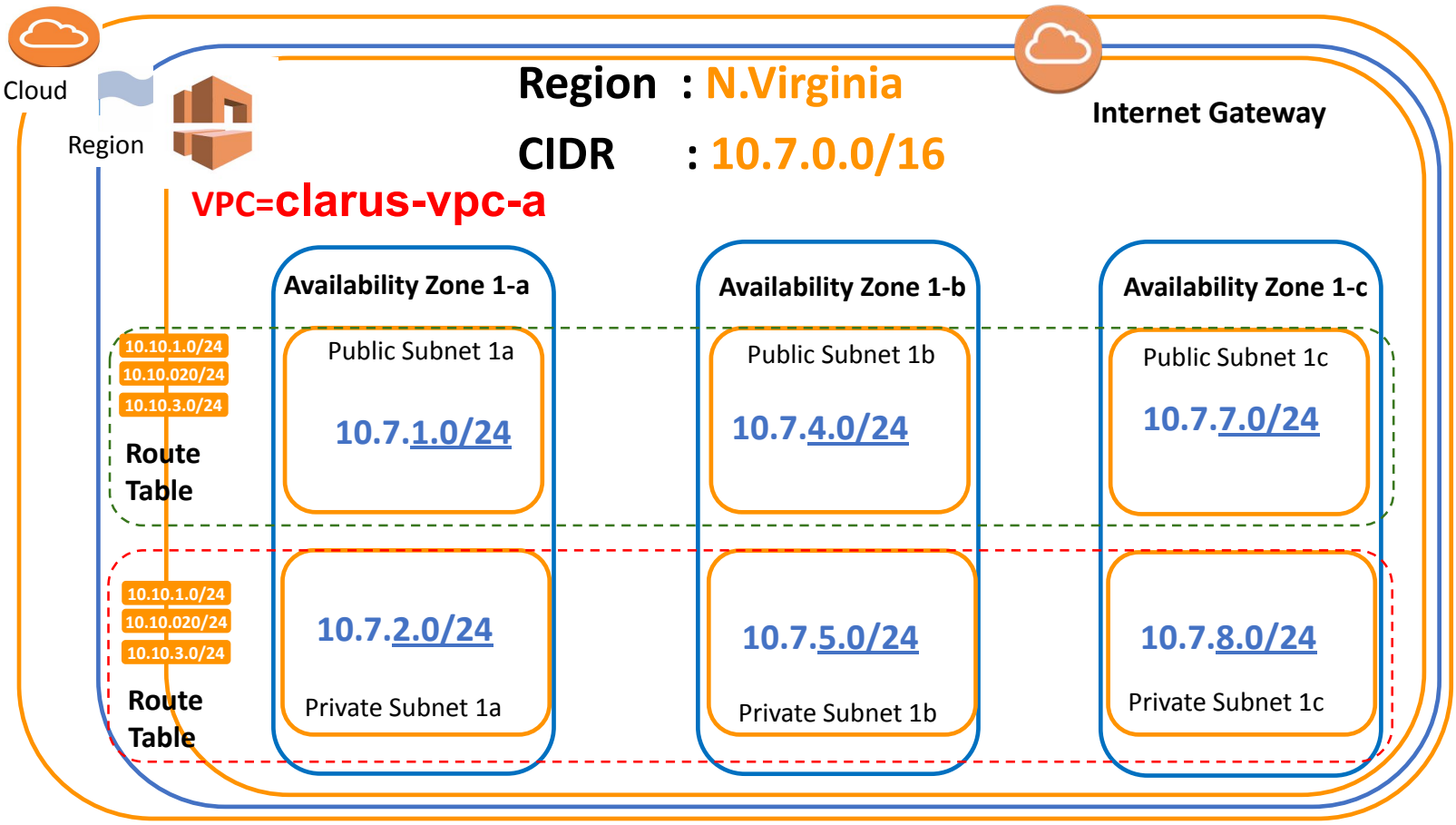
10.7.0.0/16 = 65000 IP

65,536/256= 256 SUBNETS



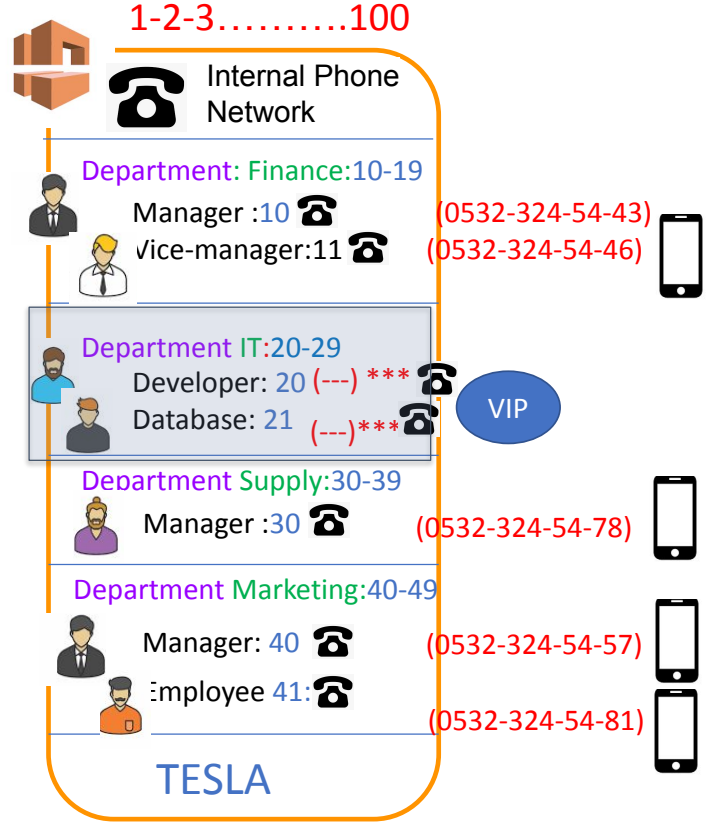
65,536/4096= 16 SUBNETS





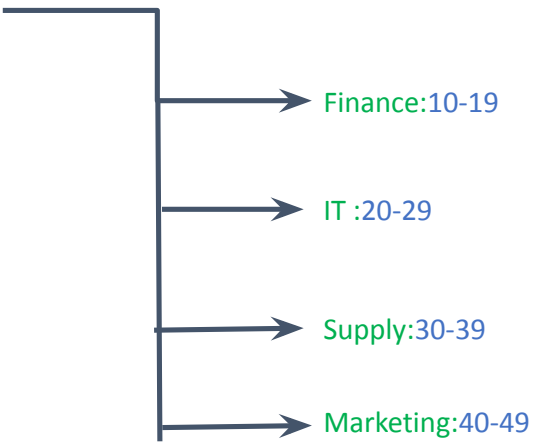
Internal Phone Number Range:

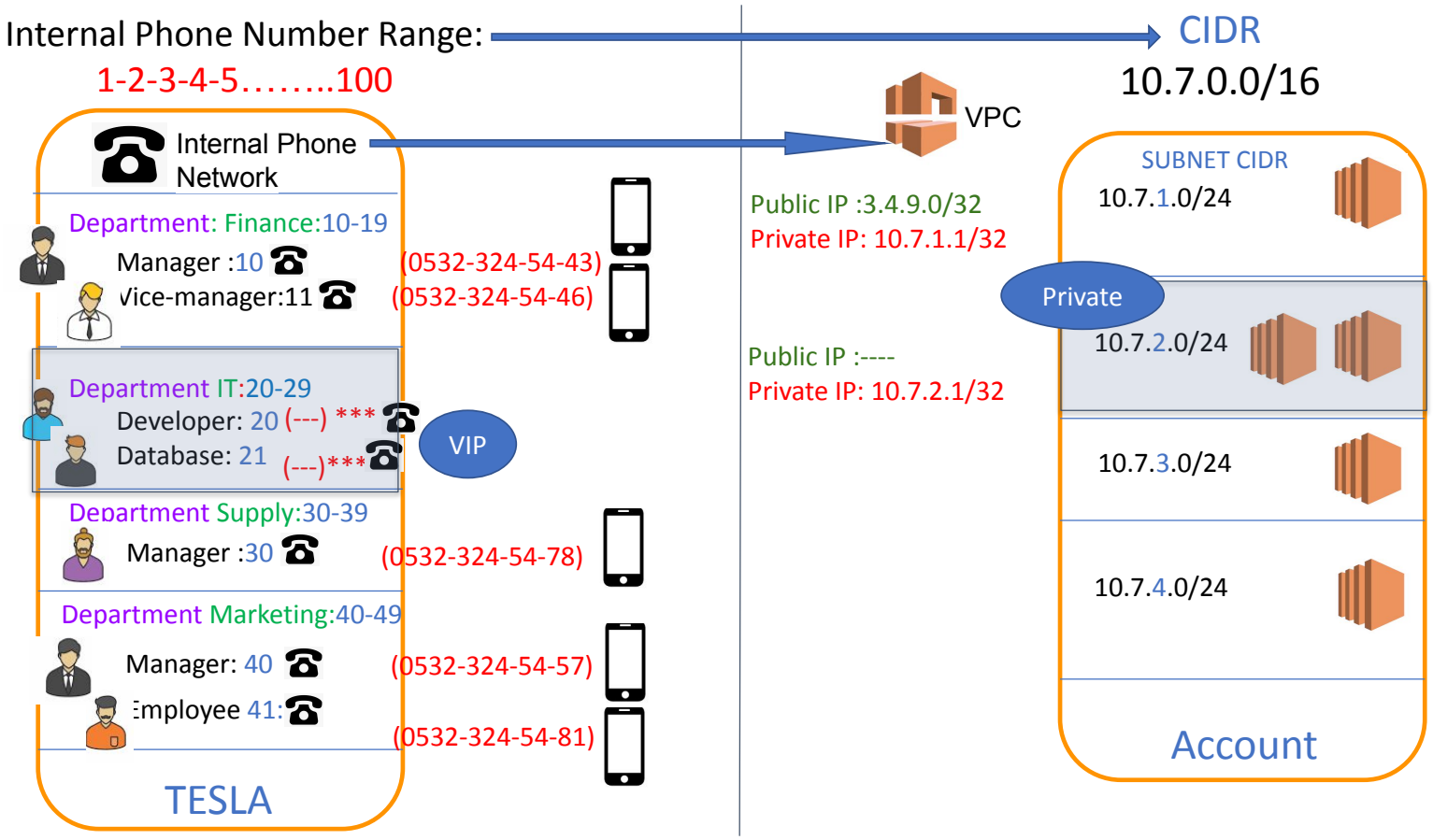
1-2-3.....100

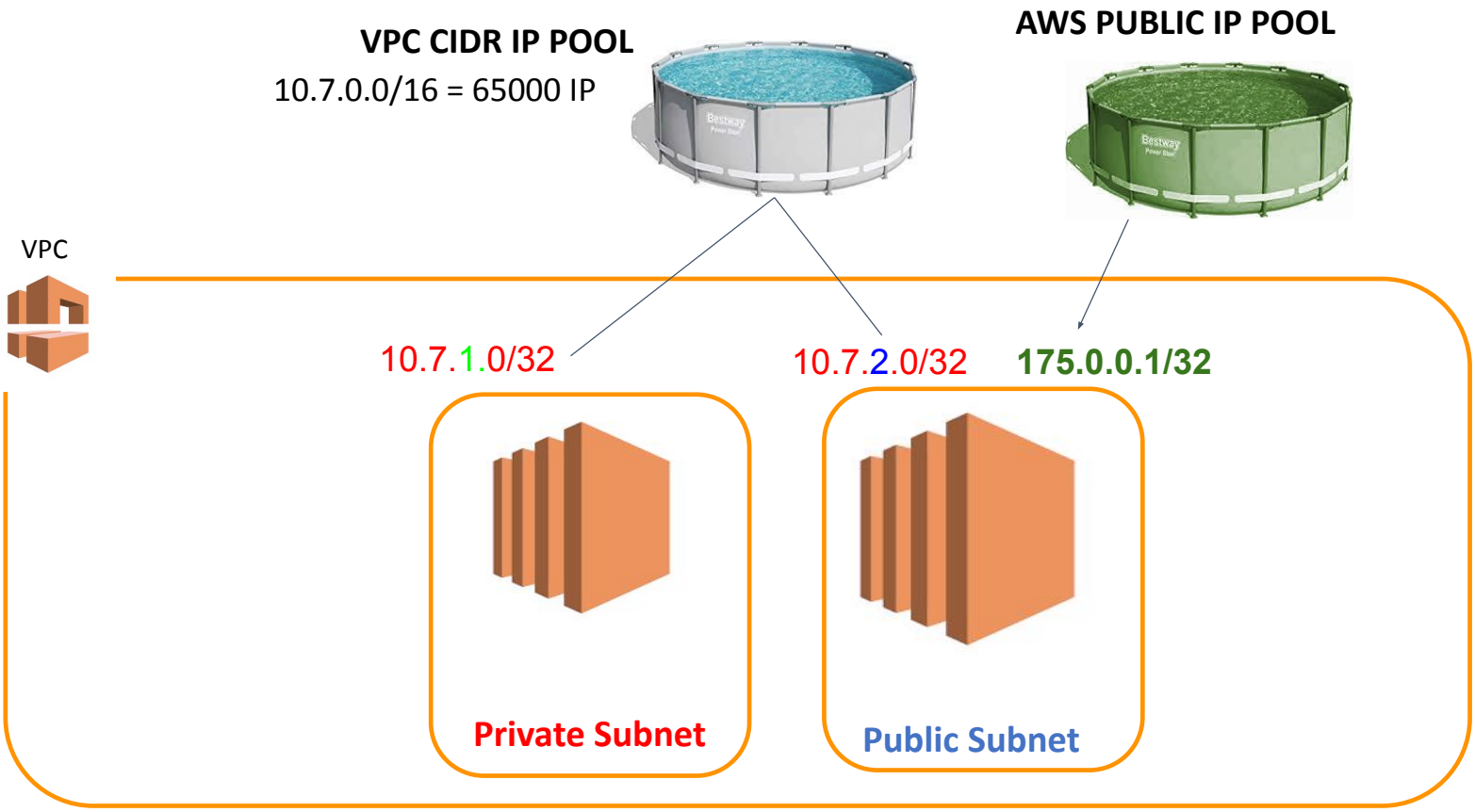


Internal Phone Number Range:

1-2-3.....100




Internal Phone Number Range:
1-2-3-4-5……..100
CIDR
10.7.0.0/16
Internal Phone Network
VPC
Department: Finance:10-19
Manager :10
Vice-manager:11
(0532-324-54-43)
(0532-324-54-46)
Public IP :3.4.9.0/32
Private IP: 10.7.1.1/32
SUBNET CIDR
10.7.1.0/24
Private
Department IT:20-29
Developer: 20 (---) ***
Database: 21 (---)***
VIP
Public IP :----
Private IP: 10.7.2.1/32
10.7.2.0/24
10.7.3.0/24
Department Supply:30-39
Manager :30
(0532-324-54-78)
10.7.4.0/24
Department Marketing:40-49
Manager: 40
(0532-324-54-57)
Employee 41:
(0532-324-54-81)
TESLA
Account


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
Private Subnet
Public Subnet

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 2=House 2

Create VPC

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

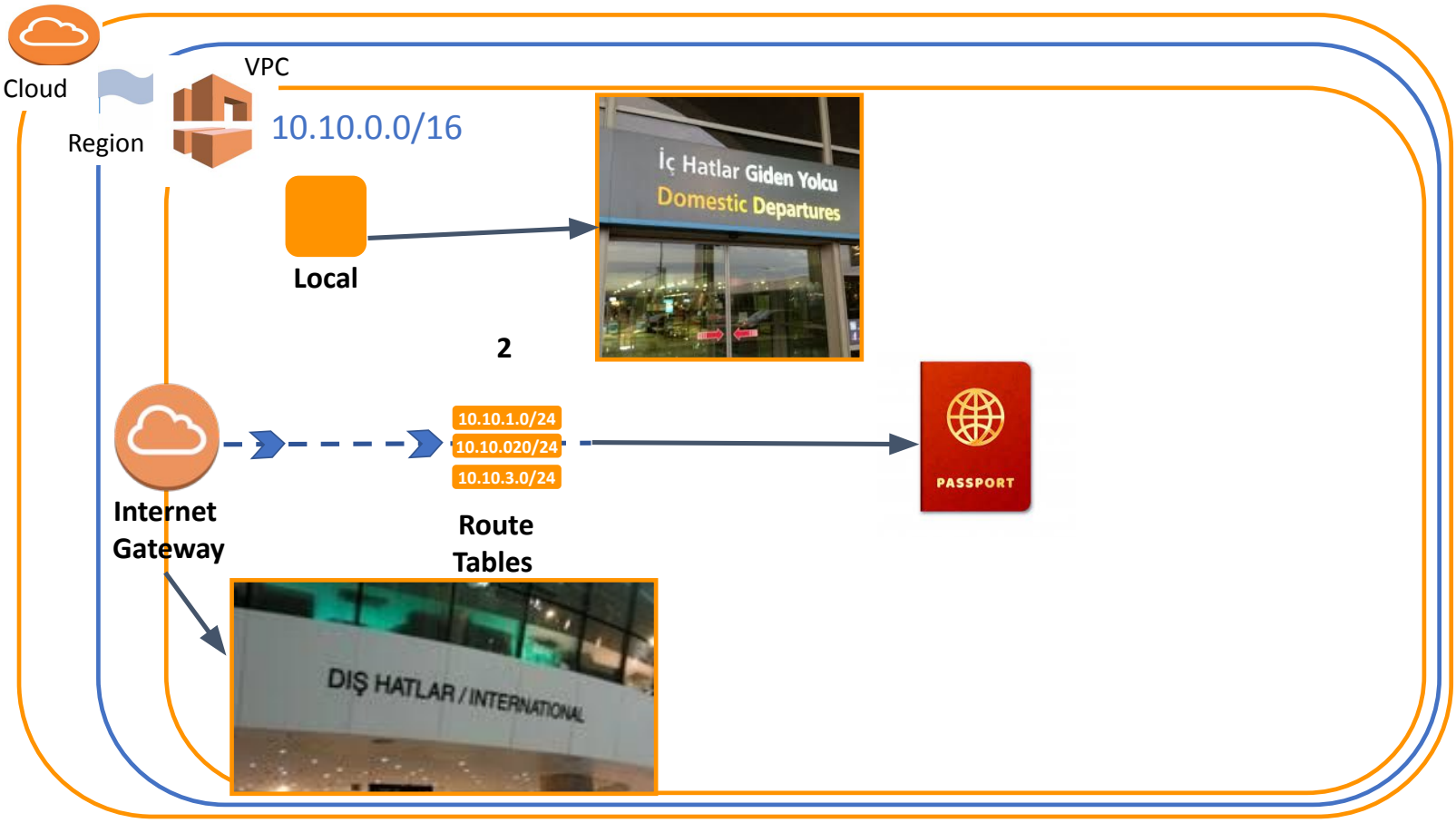
Create IGW

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**

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

Conclusion

Current= 6 Public
Desired= 3 Public 3 Private

Option-1

DEFAULT RT

PUBLIC
PUBLIC
PUBLIC

PRIVATE RT

PRIVATE
PRIVATE
PRIVATE

Option-2

DEFAULT RT

PUBLIC RT

PUBLIC
PUBLIC
PUBLIC

PRIVATE RT

PRIVATE
PRIVATE
PRIVATE

Create 3 Public and 3 Private Subnets

Public Route Table Steps

Create a new Route Table for Public Subnets

Associate 3 Public Subnets with Public Route Table

Set Routes: a.Local
b.0000/0 >>>>IGW

Modify Auto-Assign IP Settings-Subnet Action Menu

Default Route Table of VPC
3 Public Subnets
Internet Connectivity

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 Subnet

VPC CIDR Pool

\+

(Auto Assign IP)

AWS IP POOL

VPC CIDR Pool

Route Tables

Private Subnets
Internet Connectivity

Public Subnets
Internet Connectivity