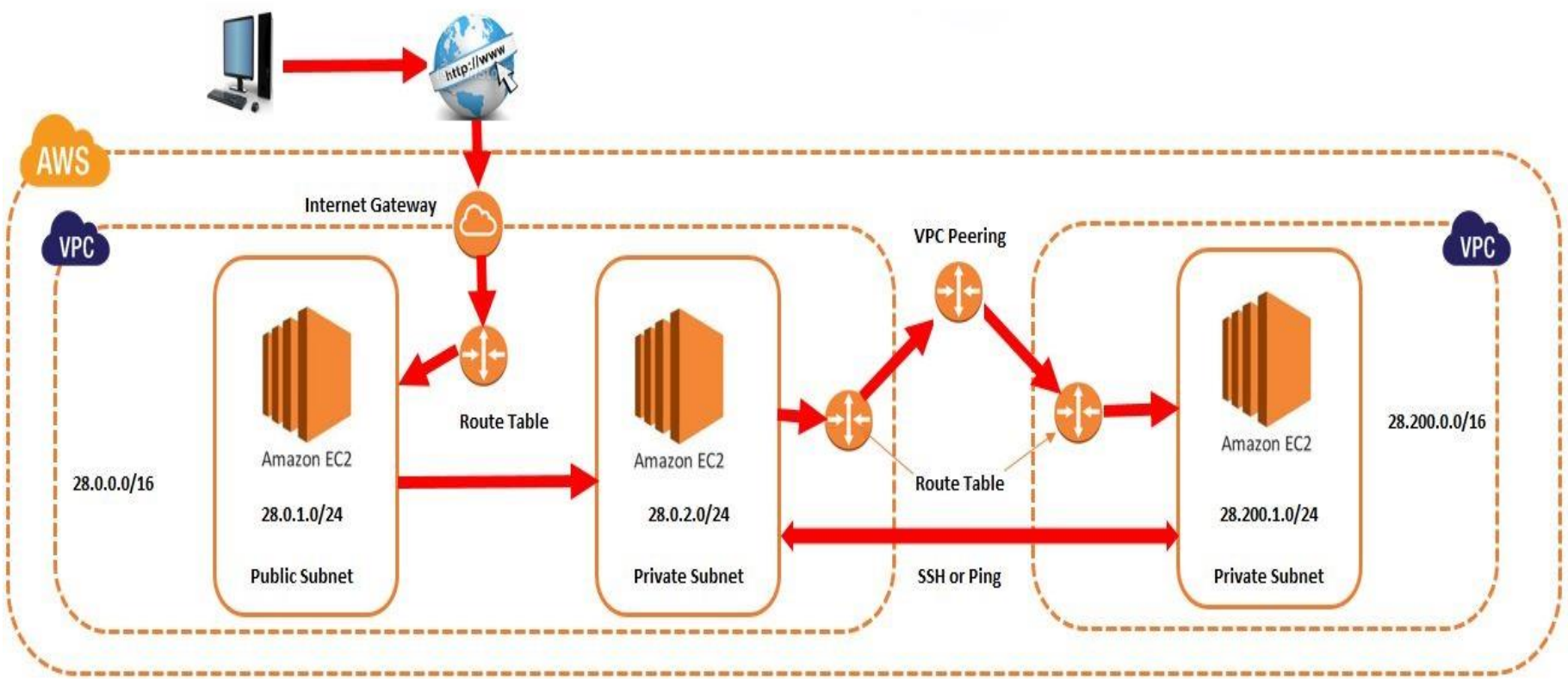
Amazon Web Services

Peering

ankitnarula1991@gmail.com

Peering

- A VPC peering connection is a networking connection between two VPCs that enables routing of traffic between them using private IP addresses. VPC peering connection can be established between our own VPCs, or with a VPC in another AWS account in a single different region.



Peering

- **Benefits of VPC Peering**

- Improve Security
- Save Money On Network Costs
- Get more flexibility for services that don’t need to connect to the Internet.

- **Limitations**

- We cannot perform peering if both VPC have same CIDR, but we can perform VPC if you have a different CIDR.
- We cannot edit the VPC peering connection once it is created.
- We cannot attach or detach VPC peering connection
- Once we accepted VPC peering request we can’t change or deny it later.
- We can have multiple peering connection for a VPC, but it should’ve different Peered VPC. For Example : VPC “A” can be peered with VPC “B” but if we want to connect VPC “A” with VPC “C” then we will need to make a new peering connection which will include VPC “A” and VPC “C”.

Peering

- **Create First VPC**
- Go to VPC Service
- Click on Create VPC
- Enter the name & enter the IPV4 CIDR Block
- **Create Internet Gateway**
- Click on Internet Gateway
- Enter the name

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- Click on create Internet gateway
- Attach Internet gateway to VPC
- **Create Public Subnet**
- Click on create subnet
- Select VPC
- Select Availability Zone
- Enter the Name & IPV4 Block
- Click on Create Subnet

Peering

- Assign Auto Assign Public IP
- **Create Private Subnet**
- Click on create subnet
- Select VPC
- Select Availability Zone
- Enter the name & IPV4 CIDR Block
- Click on Create Subnet

Peering

- **Create Route table**
- Click on create route table
- Enter the name
- Select the VPC
- Click on Create route table
- Attach Route table with Subnet
- Attach Internet Gateway with Route table

Peering

- Select the Target (Internet Gateway)
- Select the Destination (0.0.0.0/0)
- Create Linux EC2 Machines in Public Subnet
- Create Security Group
- Select type as SSH & Source as My IP
- Click on Launch Instances

Peering

- Create Linux EC2 Machine in Private Subnet
- Create Security Group
- Select Type as SSH
- Select Source as Custom
- Enter Port (Public Subnet IPV4)
- Launch the Instance

Peering

- Create Another VPC
- Click on Create VPC
- Enter VPC Name
- Enter IPV4
- Click on create VPC
- Create Private Subnet in Second VPC

Peering

- Launch Linux EC2 Instance in Second VPC
- Create Security Group
- Select Type as SSH
- Select Source as Custom
- Enter Port (First VPC Private Subnet IPV4)
- Select Type as All ICMP – IPV4
- Launch the Instance

Peering

- Connect Public Instance from First VPC

- Create pem file in the instance of Our Private Instance from first VPC

vim <pemfilename>.pem

- Open pem file in Notepad++

- Copy the complete code & paste the code in putty

- Change the permission of the file

chmod 400 <pemfilename>.pem

- Switch user

sudo su

- Connect Private Instance from first VPC

Peering

- Create Peering Connections
- Select Peering Connections
- Click on Create Peering Connections
- Enter the name
- Select the Requester (First VPC)
- Select the Accepter (Second VPC)
- Click on Create Peering Connections

Peering

- Accept the Request

- Click on Accept request
- Create Route table for first VPC
- Enter the Name
- Select the First VPC
- Attach Route table with Private Subnet

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- Attach VPC Peering Connection with route table

- Select target as peering connection
- Select destination (IPV4 of Private Subnet from Second VPC)
- **Create one more route table for Second VPC**
- Enter the name
- Select second VPC

Peering

- Click on Create route table
- Attach Private Subnet with route table
- Attach VPC Peering Connection with route table
- Select target as peering connection
- Select destination (IPV4 of Private Subnet from First VPC)
- Note down the Private IP of Second VPC Private Instance
- Now check the ping request

Ping <Private IP>

Peering

- Create Pem file

vim <pemfilename>.pem

- Change the permission of the file

chmod 400 <pemfilename>.pem

- Copy the SSH Command of second VPC private instance

- Paste the Command in Putty

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