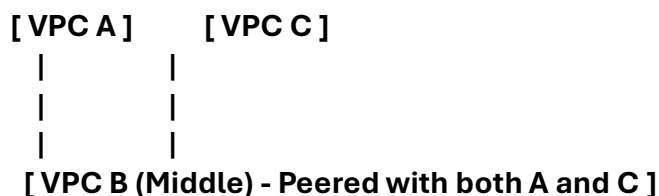




Interview Questions on VPC Peering

What is VPC Peering?

- Connects two VPCs so they can talk to each other privately.
- Data goes through AWS internal network (not the internet).
- Uses private IPs to connect resources (like EC2).
- It's **non-transitive**: A can talk to B, B to C, but A **can't** talk to C through B.



✓ A ↔ B ✓ ✓ B ↔ C ✓
✗ A ↔ C ✗ (Not allowed without direct peering)

Can We Peer Across Regions?

- **Yes**, you can peer VPCs in different AWS regions.
- Works like same-region peering, just a bit slower.
- Extra cost for cross-region data transfer.

Steps to Create VPC Peering

1. **Create Peering Request**
 - Go to VPC → Peering Connections → Create.
 - Select your VPC and the other VPC to connect to.
2. **Accept the Request**
 - Same account: Accept directly.
 - Different account: Other person logs in and accepts.
3. **Update Route Tables**
 - Add a route in both VPCs to allow traffic through the peering link.

4. Update Security Groups

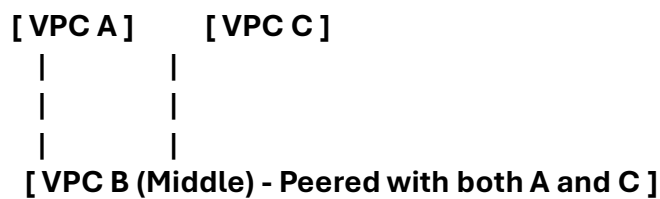
- Allow traffic from the other VPC's IP range.

5. Test

- Launch EC2 in both VPCs.
- Try pinging or connecting via private IPs.

What Does “Non-Transitive” Mean?

- Peering works **only between directly connected VPCs**.
 - Example: $A \leftrightarrow B$ and $B \leftrightarrow C$ — A **can't** talk to C through B.
 - You must create **$A \leftrightarrow C$** peering separately.
-



✓ $A \leftrightarrow B$ ✓ ✓ $B \leftrightarrow C$ ✓
✗ $A \leftrightarrow C$ ✗ (Not allowed without direct peering)

How to Connect Multiple VPCs

Option 1: Full Mesh (Many Peering Links)

- Connect every VPC to every other VPC.
- Gets complex as number of VPCs grows.

Option 2: Transit Gateway (Recommended)

- Acts like a central router.
- Supports communication between all connected VPCs.
- Easier to manage for large setups.

What are the Use Cases of VPC Peering

- Separate VPCs for web, app, and DB layers.
- Share services between different AWS accounts.
- Disaster recovery setup across regions.
- Connect microservices in different VPCs.

Q1. What is VPC Peering in AWS?

- A. A way to connect to the internet
- B. A way to connect EC2 to S3
- C. A private connection between two VPCs
- D. A way to create a VPN

✓ **Correct Answer: C**

Q2. Can two VPCs in different regions be peered?

- A. No
- B. Yes
- C. Only if they are in the same account
- D. Only with a VPN

 **Correct Answer: B**

Q3. In VPC Peering, can VPC A reach VPC C through VPC B?

- A. Yes
- B. No
- C. Only using NAT
- D. Only if EC2 has public IP

 **Correct Answer: B**

Q4. What do you need to update after creating a peering connection?

- A. IAM Roles
- B. Billing Settings
- C. Route Tables and Security Groups
- D. CloudWatch Logs

 **Correct Answer: C**