Creating a VPC Peering Connection

Step 1: Creating a VPC Peering Connection

1. In the **AWS Management Console**, on the **Services** menu, choose **VPC**.
2. In the left navigation pane, choose **Peering Connections**.
3. Choose **Create Peering Connection** and configure:
    - **Peering connection name tag:** Lab-Peer
    - **VPC (Requester):** *Lab VPC*
    - **VPC (Accepter):** *Shared VPC*
    - Choose **Create Peering Connection** then choose **OK**
4. Select **Lab-Peer**.
5. Choose **Actions** then select **Accept Request**, and choose **Yes, Accept** to accept the request.
6. In the pop-up box, choose **Close**.

Step 2: Configuring route tables

7. In the left navigation pane, choose **Route Tables**.
8. Select **Lab Public Route Table** (for *Lab VPC*).
9. In the **Routes** tab, choose **Edit routes** then configure these settings:
    - Choose **Add route**
    - **Destination:** 10.5.0.0/16 (The setting is the Classless Inter-Domain Route, or CIDR, block range of *Shared VPC*.)
    - **Target:** Select **Peering Connection**, and then from the list, select *Lab-Peer*.
    - Choose **Save routes** then choose **Close**.
10. You will now configure the reverse flow for traffic that comes from *Shared VPC* and goes to *Lab VPC*.
11. Select **Shared-VPC Route Table**. If the check boxes for any other route tables are selected, clear them.

This route table is for *Shared VPC*. You will now configure it to send traffic to the peering connection if the destination IP address falls in the range of *Lab VPC*.

12. In the **Routes** tab, choose **Edit routes** then configure these settings:
    - Choose **Add route**
    - **Destination:** 10.0.0.0/16 (This setting is the CIDR block range of *Lab VPC*.)
    - **Target:** Select *Peering Connection*, and then from the list, select *Lab-Peer*.
    - Choose**Save routes** then choose **Close**.
13. The route tables are now configured to send traffic via the peering connection when the traffic is destined for the other VPC.

Step 3: Testing the VPC peering connection.

14. On the **Services** menu, choose **EC2**.

15. In the left navigation pane, choose **Instances**.

16. Copy the **IPv4 Public IP** address that is shown in the **Description** tab.

17. Open a new web browser tab with that IP address.You should see the Inventory application and the following message: *"Please configure settings to connect to database"*

18. Choose **Settings** and configure:

- **Endpoint:** Paste the database endpoint.
- **Database:** inventory
- **Username:** admin
- **Password:** lab-password
- Choose **Save**

19. The application should now show data from the database. This step confirms that the VPC peering connection was established because *Shared VPC* does not have an internet gateway. The only way to access the database is through the VPC peering connection.