Class/Activity: **AWS Administration / VPC Peering Lab**

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**AWS Systems Manager Lab - Basic Operation**

**Synopsis:** Create two VPC’s with different CIDR ranges & a subnet in each. Peer them together. (Originally I was going to have you launch an EC2 instance in each and use the Network Reachability Analyzer to test connectivity between the two but alas that tool is NOT available in the AWS Academy lab environment!)

**Lab Environment:** You’ll need access to the Learner Lab Associate Services lab/class on the AWS Academy (see instructor) - Go into “Modules” and click on “Learner Lab - Associate Services” and then “Start Lab” - it WILL take a few minutes for it to initialize. The AWS link with the green “light” will take you to the console.

**Lab Instructions:**

1. Create VPCs
   1. Create two VPCs - one with CIDR range 192.168.0.0/16 (Name: VPC-A) and one with CIDR range 10.0.0.0/16 (Name: VPC-B)
   2. Build a single subnet in each: 192.168.0.0/24 (VPC-A-SUBNET) & 10.0.0.0/24 (VPC-B-SUBNET). No preference as to the availability zones.
   3. NO Internet Gateway (IGW) is required.
2. Peer the two VPCs together:
   1. Graphical user interface, application

      Description automatically generated
   2. Graphical user interface, text, application, email

      Description automatically generated
   3. Name the Peering Connection: VPCA-VPCB-Peer
   4. Select VPC-A as the “Select a local VPC to peer with”
   5. Select VPC-B as the “Acceptor” VPC
   6. After creating the peer you **MUST** then “Accept” it under the “Actions” menu that pops up.
   7. Text

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   8. When you get the above message after accepting the peer you know the peering connection is up and ready for you to modify the route tables to allow the VPCs to find one another!
   9. Modify both the VPC-A and VPC-B **main** route tables so that traffic for each VPC knows to use the peering connection:

VPC-A Main Route Table After Modification

Graphical user interface, text, application

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VPC-B Main Route Table After Modification

Graphical user interface, text, application, email

Description automatically generated

1. Screenshot your TWO route tables below after modification (VPC-A Main route table and VPC-B Main route table) showing your route to the other’s network via the peering connection (pcx-xxxxxxxxxxxxxx):

**Graphical user interface, application, Word

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**SCREENSHOT #2**

**Graphical user interface, application, Word

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1. Clean Up - Delete your peering connection and the two VPCs.