

Advance AWS

AWS Project- 1 (Day -7)

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Teacher:

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Course:

Advance AWS Cloud Computing with DevOps
Fundamentals

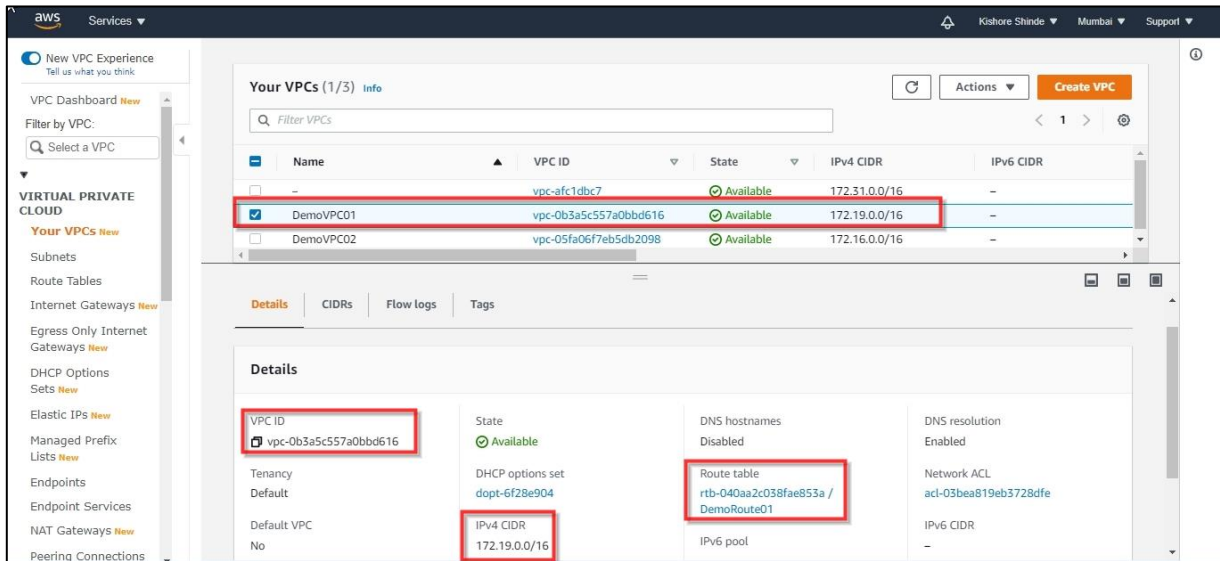
Institute:

Lets Upgrade

Project 01: VPC Peering

SS1 : VPC List

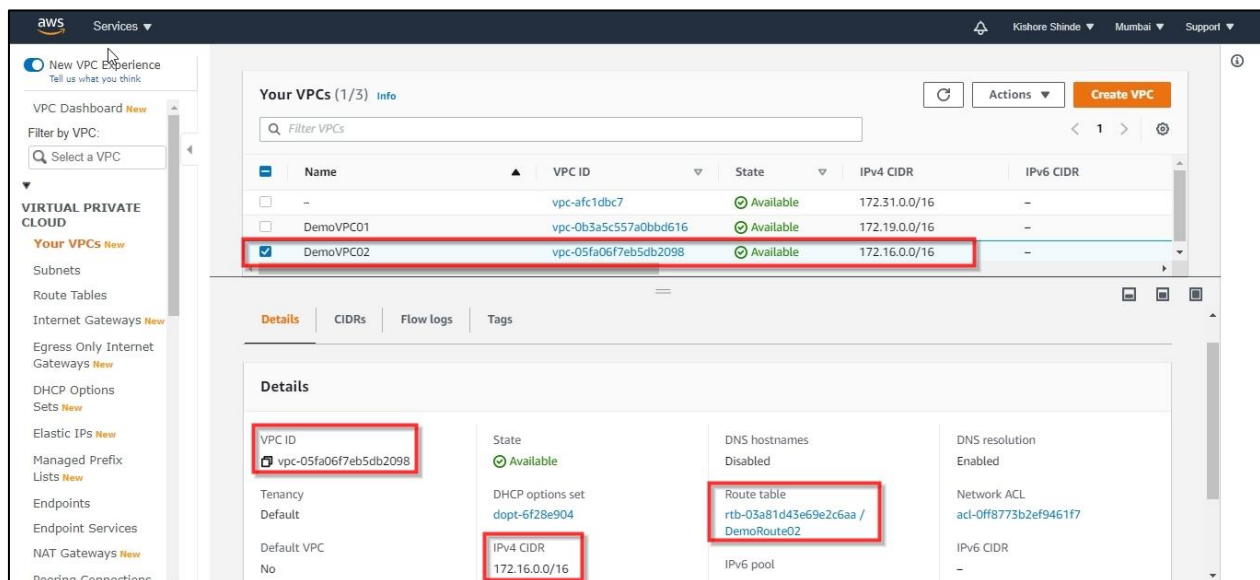
- DemoVPC01



VPC Details:

S. No.	Name	VPC ID	IPv4 CIDR
1.	DemoVPC01	vpc-0b3a5c557a0bbd616	172.19.0.0/16

- DemoVPC02



VPC Details:

S. No.	Name	VPC ID	IPv4 CIDR
1.	DemoVPC02	vpc-05fa06f7eb5db2098	172.16.0.0/16

SS2 : Internet Gateway(IGW) List

- MyIGW01

The screenshot shows the AWS Management Console interface. On the left, the 'VIRTUAL PRIVATE CLOUD' sidebar is visible. The main content area displays 'Internet gateways (1/3)'. A table lists three gateways: MYIGW02, MyIGW01, and an unnamed gateway. MyIGW01 is selected and highlighted with a red box. Below the table, the 'Details' tab for MyIGW01 is shown, with its ID, state (Attached), VPC ID, and Owner highlighted by red boxes.

Name	Internet gateway ID	State	VPC ID	Owner
MYIGW02	igw-034df898743f0eb76	Attached	vpc-05fa06f7eb5db2098 DemoVPC02	391321345174
MyIGW01	igw-0e6790c025d2f6852	Attached	vpc-0b3a5c557a0bbd616 DemoVPC01	391321345174
-	igw-b319addb	Attached	vpc-afc1dbc7	391321345174

Internet gateway ID	State	VPC ID	Owner
igw-0e6790c025d2f6852	Attached	vpc-0b3a5c557a0bbd616 DemoVPC01	391321345174

Internet Gateway Details:

S. No.	Name	Internet Gateway ID	VPC ID
1.	MyIGW01	igw-0e6790c025d2f6852	vpc-0b3a5c557a0bbd616

- MYIGW02

The screenshot shows the AWS Management Console interface. On the left, the 'VIRTUAL PRIVATE CLOUD' sidebar is visible. The main content area displays 'Internet gateways (1/3)'. A table lists three gateways: MYIGW02, MyIGW01, and an unnamed gateway. MYIGW02 is selected and highlighted with a red box. Below the table, the 'Details' tab for MYIGW02 is shown, with its ID, state (Attached), VPC ID, and Owner highlighted by red boxes.

Name	Internet gateway ID	State	VPC ID	Owner
MYIGW02	igw-034df898743f0eb76	Attached	vpc-05fa06f7eb5db2098 DemoVPC02	391321345174
MyIGW01	igw-0e6790c025d2f6852	Attached	vpc-0b3a5c557a0bbd616 DemoVPC01	391321345174
-	igw-b319addb	Attached	vpc-afc1dbc7	391321345174

Internet gateway ID	State	VPC ID	Owner
igw-034df898743f0eb76	Attached	vpc-05fa06f7eb5db2098 DemoVPC02	391321345174

Internet Gateway Details:

S. No.	Name	Internet Gateway ID	VPC ID
1.	MyIGW02	igw-034df898743f0eb76	vpc-05fa06f7eb5db2098

SS3 : Edit Route List

- DemoRoute01

The screenshot shows the AWS VPC console interface. On the left, the 'VIRTUAL PRIVATE CLOUD' sidebar is visible with various services listed. The main area displays a table of route tables. 'DemoRoute01' is selected and highlighted with a red box. Below the table, the 'Routes' tab is active, showing a table of routes for 'Route Table: rtb-040aa2c038fae853a'. This table is also highlighted with a red box. The routes are:

Destination	Target	Status	Propagated
172.19.0.0/16	local	active	No
0.0.0.0/0	igw-0e6790c025d2f6852	active	No

Route Details:

S. No.	Destination	Target	VPC ID
1.	172.19.0.0/16	local	vpc-0b3a5c557a0bbd616
2.	0.0.0.0/0	igw-0e6790c025d2f6852	vpc-0b3a5c557a0bbd616

- DemoRoute02

The screenshot shows the AWS VPC console interface. On the left, the 'VIRTUAL PRIVATE CLOUD' sidebar is visible. The main area displays a table of route tables. 'DemoRoute02' is selected and highlighted with a red box. Below the table, the 'Routes' tab is active, showing a table of routes for 'Route Table: rtb-03a81d43e69e2c6aa'. This table is also highlighted with a red box. The routes are:

Destination	Target	Status	Propagated
172.16.0.0/16	local	active	No
0.0.0.0/0	igw-034df898743f0eb76	active	No

Route Details:

S. No.	Destination	Target	VPC ID
1.	172.16.0.0/16	local	vpc-05fa06f7eb5db2098
2.	0.0.0.0/0	igw-034df898743f0eb76	vpc-05fa06f7eb5db2098

SS4 : Subnet List

- DemoSubnet01

The screenshot shows the AWS VPC console interface. On the left, the 'Subnets' link is selected under the 'VIRTUAL PRIVATE CLOUD' section. The main area displays a list of subnets. 'DemoSubnet01' is highlighted with a red box. Below the list, the details for 'subnet-0087bedc41095a43e' are shown. The 'Description' tab is active, displaying various attributes. Red boxes highlight the 'Subnet ID', 'VPC', 'State', 'IPv4 CIDR', and 'IPv6 CIDR' fields.

Name	Subnet ID	State	VPC	IPv4 CIDR	Available IPv4	IPv6 CIDR	Availability Zone
DemoSubnet01	subnet-0087bedc41095a43e	available	vpc-0b3a5c557a0bbd616	172.19.19.0/24	250	-	ap-southeast-1
DemoSubnet02	subnet-0641718cebcb1cb58	available	vpc-05fa06f7eb5db2098	172.16.16.0/24	250	-	ap-southeast-1
	subnet-11262579	available	vpc-afc1dbc7	172.31.32.0/20	4091	-	ap-southeast-1
	subnet-da384896	available	vpc-afc1dbc7	172.31.0.0/20	4091	-	ap-southeast-1
	subnet-fe259e85	available	vpc-afc1dbc7	172.31.16.0/20	4091	-	ap-southeast-1

Attribute	Value
Subnet ID	subnet-0087bedc41095a43e
VPC	vpc-0b3a5c557a0bbd616 DemoVPC01
State	available
IPv4 CIDR	172.19.19.0/24
IPv6 CIDR	-
Route Table	rtb-040aa2c038fae853a DemoRoute01
Default subnet	No
Auto-assign customer-owned IPv4 address	No
Auto-assign IPv6 address	No
Owner	391321345174

Subnet Details :

S. No.	Name	VPC ID	IPv4 CIDR
1.	DemoSubnet01	vpc-0b3a5c557a0bbd616	172.19.19.0/24

- DemoSubnet02

The screenshot shows the AWS VPC console interface. On the left, the 'Subnets' link is selected under the 'VIRTUAL PRIVATE CLOUD' section. The main area displays a list of subnets. 'DemoSubnet02' is highlighted with a red box. Below the list, the details for 'subnet-0641718cebcb1cb58' are shown. The 'Description' tab is active, displaying various attributes. Red boxes highlight the 'Subnet ID', 'VPC', 'State', 'IPv4 CIDR', and 'IPv6 CIDR' fields.

Name	Subnet ID	State	VPC	IPv4 CIDR	Available IPv4	IPv6 CIDR	Availability Zone
DemoSubnet01	subnet-0087bedc41095a43e	available	vpc-0b3a5c557a0bbd616	172.19.19.0/24	250	-	ap-southeast-1
DemoSubnet02	subnet-0641718cebcb1cb58	available	vpc-05fa06f7eb5db2098	172.16.16.0/24	250	-	ap-southeast-1
	subnet-11262579	available	vpc-afc1dbc7	172.31.32.0/20	4091	-	ap-southeast-1
	subnet-da384896	available	vpc-afc1dbc7	172.31.0.0/20	4091	-	ap-southeast-1
	subnet-fe259e85	available	vpc-afc1dbc7	172.31.16.0/20	4091	-	ap-southeast-1

Attribute	Value
Subnet ID	subnet-0641718cebcb1cb58
VPC	vpc-05fa06f7eb5db2098 DemoVPC02
State	available
IPv4 CIDR	172.16.16.0/24
IPv6 CIDR	-
Route Table	rtb-03a81d43e69e2c6aa DemoRoute02
Default subnet	No
Auto-assign customer-owned IPv4 address	No
Auto-assign IPv6 address	No
Owner	391321345174

Subnet Details :

S. No.	Name	VPC ID	IPv4 CIDR
1.	DemoSubnet02	vpc-05fa06f7eb5db2098	172.16.16.0/24

SS5 : Instance Details

- DemoServer1

The screenshot displays the AWS Management Console interface. On the left, the navigation menu includes 'New EC2 Experience', 'EC2 Dashboard', 'Events', 'Tags', 'Limits', 'Instances', 'Images', and 'Elastic Block Store'. The main content area shows a list of instances under the heading 'Instances (1/2) Info'. Two instances are listed: 'DemoServer1' (Instance ID: i-0b40fb3d7eed6daaf) and 'DemoServer2' (Instance ID: i-089344efae6b01d51). Both are in a 'Running' state. Below the list, the details for 'DemoServer1' are expanded. The 'Instance summary' section shows the Instance ID, Instance state (Running), Instance type (t2.micro), and IAM Role. The 'Networking' tab is selected, showing the Public IPv4 address (15.207.18.220), Private IPv4 addresses (172.19.19.84), and other network-related information.

Instance Details :

S. No.	Name	Instance ID	Public IPv4	Private IPv4
1.	DemoServer1	i-0b40fb3d7eed6daaf	15.207.18.220	172.19.19.84

- DemoServer2

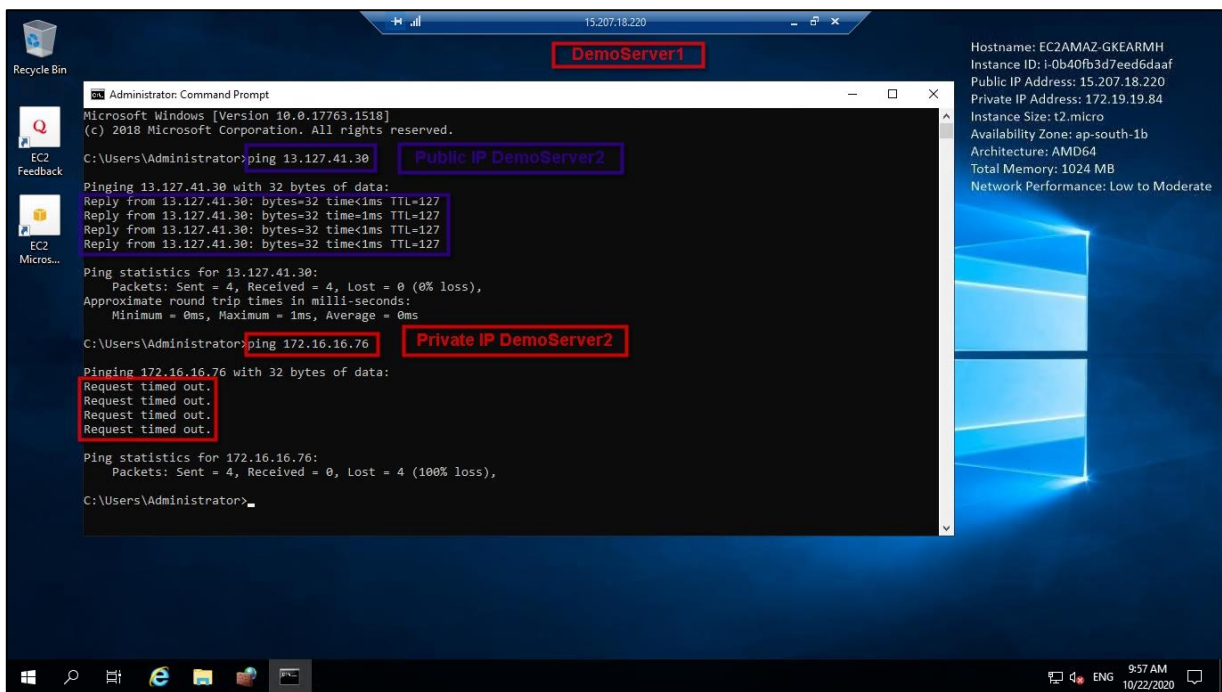
The screenshot displays the AWS Management Console interface, similar to the previous one, but with 'DemoServer2' selected. The instance list shows 'DemoServer2' (Instance ID: i-089344efae6b01d51) as the selected instance. The details for 'DemoServer2' are expanded, showing the Instance ID, Instance state (Running), Instance type (t2.micro), and IAM Role. The 'Networking' tab is selected, showing the Public IPv4 address (13.127.41.30), Private IPv4 addresses (172.16.16.76), and other network-related information.

Instance Details :

S. No.	Name	Instance ID	Public IPv4	Private IPv4
1.	DemoServer2	i-089344efae6b01d51	13.127.41.30	172.16.16.76

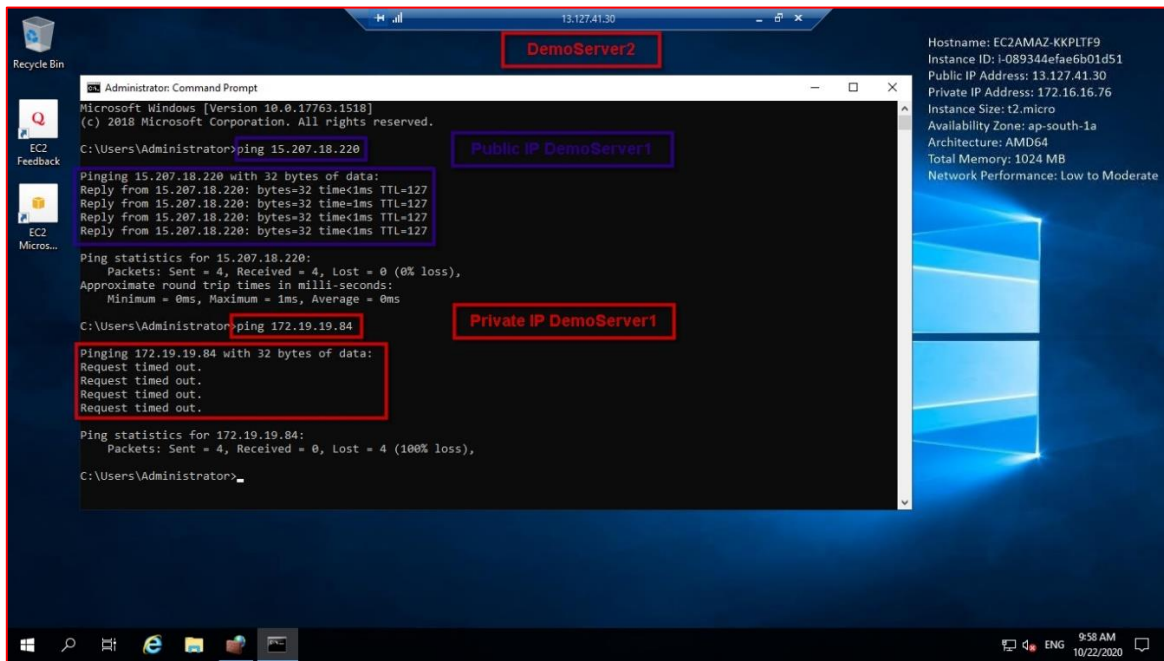
SS6 : Success Public, Request Timed Out (RTO) Private IP

- DemoServer1



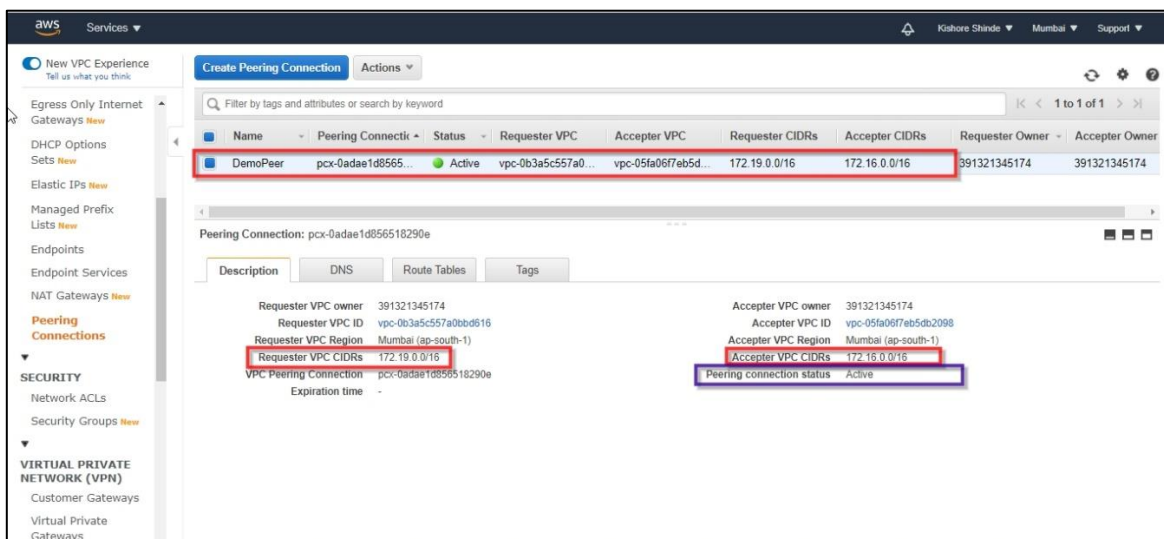
Host Server	Destination Server	Dest. Public IP	Dest. Private IP
DemoServer1	DemoServer2	Ping Success	Request Timed Out
Public IP 15.207.18.220	Public IP 13.127.41.30		
	Private IP 172.16.16.76		

- DemoServer2



Host Server	Destination Server	Dest. Public IP	Dest. Private IP
DemoServer2	DemoServer1	Ping Success	Request Timed Out
Public IP 13.127.41.30	Public IP 15.207.18.220		
	Private IP 172.19.19.84		

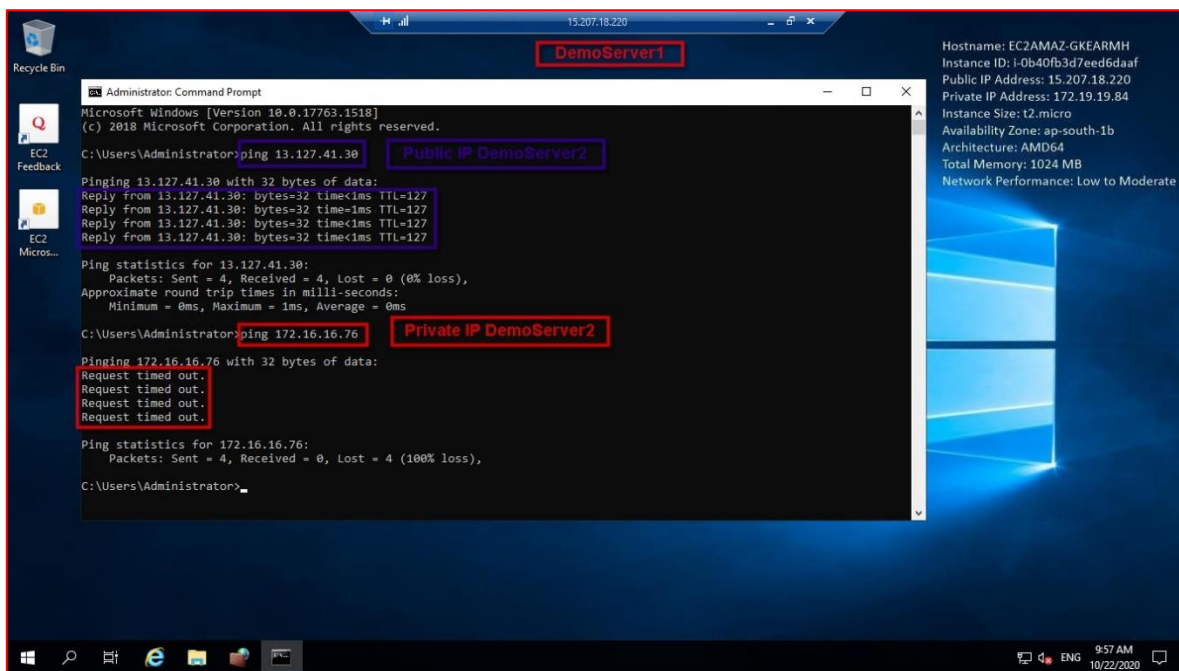
SS7 : Peering with Requestor and Acceptor



Peering Name	Requestor VPC CIDR	Acceptor VPC CIDR	Connection Status
DemoPeer	172.19.0.0/16	172.16.0.0/16	Active

SS8 : Success for Private IP

- DemoServer1 – Ping DemoServer2 Public & Private IP



Host	Destination Server	Dest. Public IP	Dest. Private IP
Before VPC Peering			
DemoServer1	DemoServer2	Ping Success	Request Timed Out
Public IP 15.207.18.220	Public IP 13.127.41.30		
	Private IP 172.16.16.76		
After VPC Peering			
DemoServer1	DemoServer2	Ping Success	Ping Success

- DemoServer2 – Ping DemoServer1 Public & Private IP

```

Administrator: Command Prompt
Microsoft Windows [Version 10.0.17763.1518]
(c) 2018 Microsoft Corporation. All rights reserved.

C:\Users\Administrator>ping 15.207.18.220
Pinging 15.207.18.220 with 32 bytes of data:
Reply from 15.207.18.220: bytes=32 time<1ms TTL=127
Reply from 15.207.18.220: bytes=32 time<1ms TTL=127
Reply from 15.207.18.220: bytes=32 time<1ms TTL=127
Reply from 15.207.18.220: bytes=32 time<1ms TTL=127

Ping statistics for 15.207.18.220:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
    Approximate round trip times in milli-seconds:
        Minimum = 0ms, Maximum = 1ms, Average = 0ms

C:\Users\Administrator>ping 172.19.19.84
Pinging 172.19.19.84 with 32 bytes of data:
Request timed out.
Request timed out.
Request timed out.
Request timed out.

Ping statistics for 172.19.19.84:
    Packets: Sent = 4, Received = 0, Lost = 4 (100% loss),

C:\Users\Administrator>ping 172.19.19.84
Pinging 172.19.19.84 with 32 bytes of data:
Reply from 172.19.19.84: bytes=32 time<1ms TTL=128
Reply from 172.19.19.84: bytes=32 time<1ms TTL=128
Reply from 172.19.19.84: bytes=32 time<1ms TTL=128
Reply from 172.19.19.84: bytes=32 time<1ms TTL=128

Ping statistics for 172.19.19.84:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
    Approximate round trip times in milli-seconds:
        Minimum = 0ms, Maximum = 1ms, Average = 0ms

C:\Users\Administrator>
  
```

Host	Destination Server	Dest. Public IP	Dest. Private IP
Before VPC Peering			
DemoServer2	DemoServer1	Ping Success	Request Timed Out
Public IP 13.127.41.30	Public IP 15.207.18.220		
	Private IP 172.19.19.84		
After VPC Peering			
DemoServer2	DemoServer1	Ping Success	Ping Success

Project 1 Ends Here