

PROJECT 8: VPC PEERING

Task 1: VPC creation list “vpc11” and “vpc22”

The screenshot shows the AWS VPC console. On the left, the navigation pane includes 'VIRTUAL PRIVATE CLOUD' and 'SECURITY'. The main content area displays 'Your VPCs (1/3)'. A table lists three VPCs: vpc11, vpc22, and a default VPC. vpc11 and vpc22 are highlighted in yellow. Below the table, the details for vpc-09414fe185cd76c46 (vpc11) are shown, including its ID, state (Available), DNS settings, and network ACL.

Name	VPC ID	State	IPv4 CIDR	IPv6 CIDR
vpc11	vpc-09414fe185cd76c46	Available	172.19.0.0/16	-
vpc22	vpc-0885ef764e962f452	Available	172.16.0.0/16	-
-	vpc-9e5544f6	Available	172.31.0.0/16	-

Details for vpc-09414fe185cd76c46 / vpc11

Property	Value
VPC ID	vpc-09414fe185cd76c46
State	Available
DNS hostnames	Disabled
DNS resolution	Enabled
Tenancy	Default
DHCP options set	dopt-7c9e6217
Route table	rtb-04cc9c9114e573f04
Network ACL	acl-015a9ec88f1557b2c

Task 2: Internet Gateway creation list ‘igw1’ and ‘igw2’

The screenshot shows the AWS VPC console with a green notification banner at the top stating 'Internet gateway igw-0091923e003d72b5a successfully attached to vpc-0885ef764e962f452'. The main content area displays 'Internet gateways (3)'. A table lists three Internet Gateways: igw2, igw1, and default-igw. igw2 and igw1 are highlighted in yellow. Below the table, the details for igw-0091923e003d72b5a (igw2) are shown, including its ID, state (Attached), and the VPC it is attached to.

Name	Internet gateway ID	State	VPC ID	Owner
igw2	igw-0091923e003d72b5a	Attached	vpc-0885ef764e962f452 vpc22	477487505631
igw1	igw-0466c37a8625e0a2a	Attached	vpc-09414fe185cd76c46 vpc11	477487505631
default-igw	igw-0607e95ec83123a96	Attached	vpc-9e5544f6	477487505631

Details for igw-0091923e003d72b5a / igw2

Property	Value
Internet gateway ID	igw-0091923e003d72b5a
State	Attached
VPC ID	vpc-0885ef764e962f452 vpc22
Owner	477487505631

Task 3: Route tables 'route1' and 'route2' creation list with attached igw

Route Table: rtb-09e8a36a7b05d8cc5

Destination	Target	Status	Propagated
172.19.0.0/16	local	active	No
0.0.0.0/0	igw-0466c37a8625e0a2a	active	No

Route Table: rtb-0b9a49badcd0d1606

Destination	Target	Status	Propagated
172.16.0.0/16	local	active	No
0.0.0.0/0	igw-0091923e003d72b5a	active	No

Task 4: Creation list of subnets 'subnet1' & 'subnet2'

Subnet: subnet-0d043aab74438f899

Subnet ID	State	VPC	IPV4 CIDR	Available IPv4	IPV6	Availability Zone
subnet-0d043aab74438f899	available	vpc-0885ef764e962f452 vpc22	172.16.16.0/24	251	-	ap-south-1c
subnet-0d043aab74438f899	available	vpc-09414fe185cd76c46 vpc11	172.19.19.0/24	251	-	ap-south-1a
subnet-3aacc076	available	vpc-9e5544f6	172.31.0.0/20	4091	-	ap-south-1b

Description

Subnet ID	State	IPV4 CIDR	IPV6 CIDR	Route Table	Default subnet	Auto-assign customer-owned IPv4 address	Auto-assign IPv6 address	Owner
subnet-0d043aab74438f899	available	172.19.19.0/24	-	rtb-09e8a36a7b05d8cc5 route1	No	No	No	477487505631

aws Services ▾

New VPC Experience
Tell us what you think

VPC Dashboard **New**

Filter by VPC:
Select a VPC

VIRTUAL PRIVATE CLOUD

Your VPCs **New**

Subnets

Route Tables

Internet Gateways **New**

Egress Only Internet Gateways **New**

DHCP Options Sets **New**

Elastic IPs **New**

Managed Prefix Lists **New**

Endpoints

Endpoint Services

Create subnet Actions ▾

Filter by tags and attributes or search by keyword

Name	Subnet ID	State	VPC	IPv4 CIDR	Available IPv4	IPv6	Availability Zone	Av
subnet2	subnet-0db6aca67b8f279af	available	vpc-0885ef764e962f452 vpc22	172.16.16.0/24	251	-	ap-south-1b	ap
subnet1	subnet-0d043aab74438f899	available	vpc-09414fe185cd76c46 vpc11	172.19.19.0/24	250	-	ap-south-1a	ap
subnet-3aacc076		available	vpc-9e5544f6	172.31.0.0/20	4091	-	ap-south-1b	ap

Subnet: subnet-0db6aca67b8f279af

Description Flow Logs Route Table Network ACL Tags Sharing

Subnet ID	subnet-0db6aca67b8f279af	State	available
VPC	vpc-0885ef764e962f452 vpc22	IPv4 CIDR	172.16.16.0/24
Available IPv4 Addresses	251	IPv6 CIDR	-
Availability Zone	ap-south-1b (aps1-az3)	Route Table	rtb-0b9a49badcd0d1606 route2
Network ACL	acl-0f6f58c783594f0b4	Default subnet	No
Auto-assign public IPv4 address	Yes	Auto-assign customer-owned IPv4 address	No
Customer-owned IPv4 pool	-	Auto-assign IPv6 address	No
Outpost ID	-	Owner	477487505631

Task 5: “server1” and “server2” instance details

aws Services ▾

New EC2 Experience
Tell us what you think

EC2 Dashboard **New**

Events **New**

Tags

Limits

Instances

Instances **New**

Instance Types

Launch Templates

Spot Requests

Savings Plans

Reserved Instances

Dedicated Hosts **New**

Capacity Reservations

Instances (1/2) Info

Filter instances

Name	Instance ID	Instance state	Instance type	Status check	Alarm Status	Availability zone	Public
server1	i-010f6fcb6d442627	Running	t2.micro	2/2 checks ...	No alarms +	ap-south-1a	-
server2	i-0f52225e408d5dc26	Running	t2.micro	2/2 checks ...	No alarms +	ap-south-1b	-

Instance summary Info

Instance ID	i-010f6fcb6d442627 (server1)	Public IPv4 address	13.233.4.189 open address	Private IPv4 addresses	172.19.19.110
Instance state	Running	Public IPv4 DNS	-	Private IPv4 DNS	ip-172-19-19-110.ap-south-1.compute.internal
Instance type	t2.micro	Elastic IP addresses	-	VPC ID	vpc-09414fe185cd76c46 (vpc11)

aws Services ▾

New EC2 Experience
Tell us what you think

EC2 Dashboard **New**

Events **New**

Tags

Limits

Instances

Instances **New**

Instance Types

Launch Templates

Spot Requests

Savings Plans

Reserved Instances

Dedicated Hosts **New**

Capacity Reservations

Instances (1/2) Info

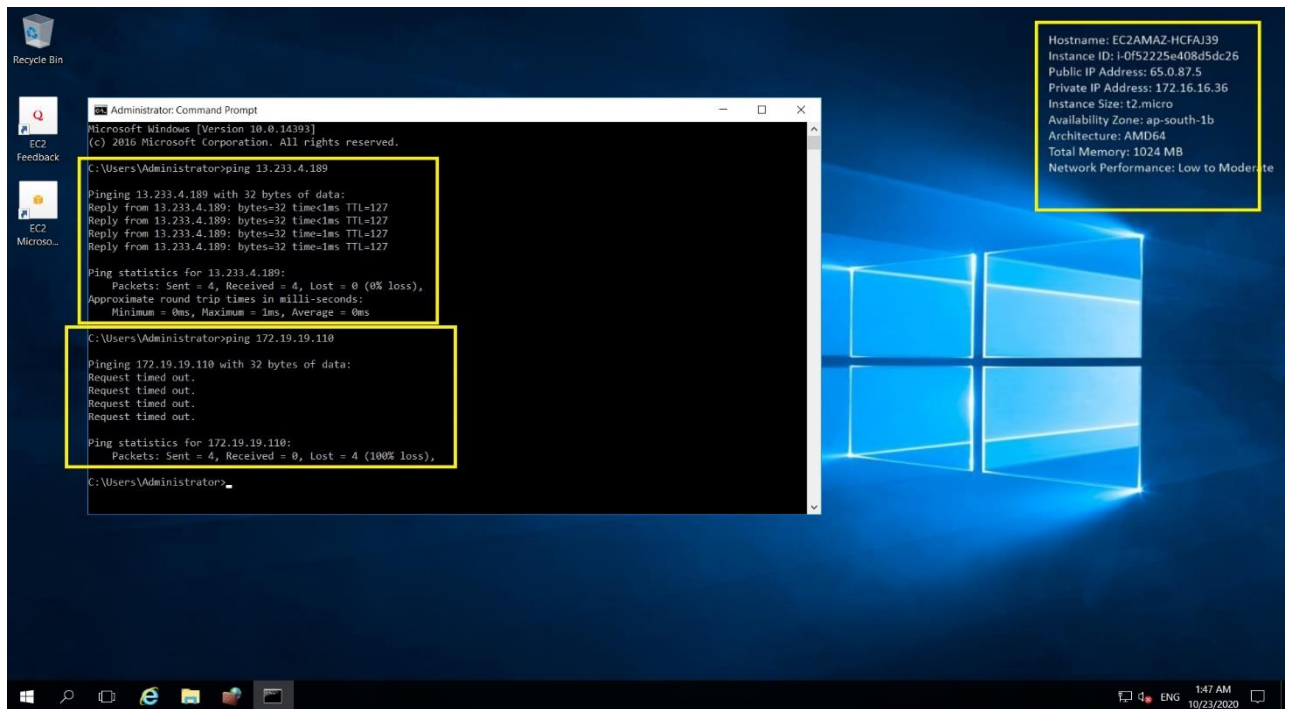
Filter instances

Name	Instance ID	Instance state	Instance type	Status check	Alarm Status	Availability zone	Public
server1	i-010f6fcb6d442627	Running	t2.micro	2/2 checks ...	No alarms +	ap-south-1a	-
server2	i-0f52225e408d5dc26	Running	t2.micro	2/2 checks ...	No alarms +	ap-south-1b	-

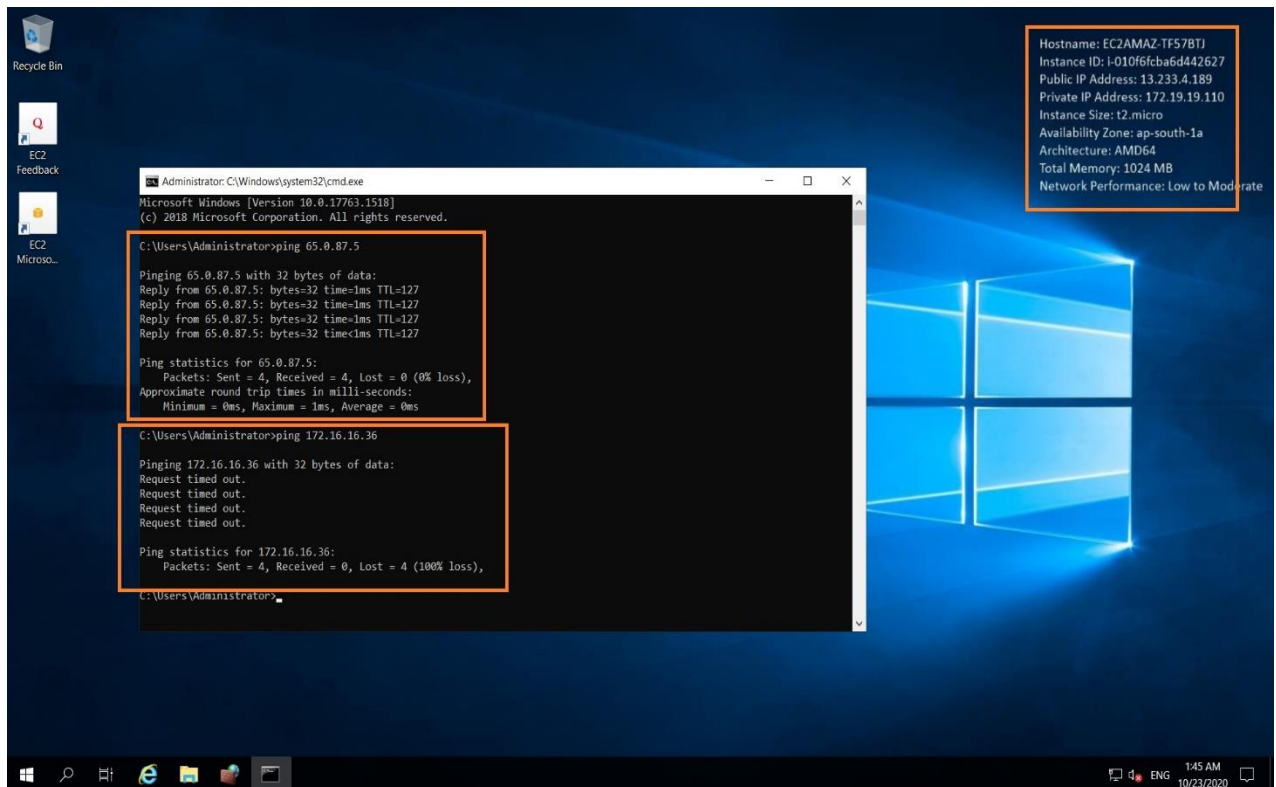
Instance summary Info

Instance ID	i-0f52225e408d5dc26 (server2)	Public IPv4 address	65.0.87.5 open address	Private IPv4 addresses	172.16.16.36
Instance state	Running	Public IPv4 DNS	-	Private IPv4 DNS	ip-172-16-16-36.ap-south-1.compute.internal
Instance type	t2.micro	Elastic IP addresses	-	VPC ID	vpc-0885ef764e962f452 (vpc22)

Task 6: Public ip ping and private ip RTO showing from server1



Task 7: Public ip ping and private ip RTO showing from server2



Task 8: Creation of VPC peering “vpc1-2 peering”

The screenshot shows the AWS VPC console interface. On the left, the navigation pane includes 'Endpoint Services', 'NAT Gateways', 'Peering Connections', 'SECURITY' (Network ACLs, Security Groups), 'VIRTUAL PRIVATE NETWORK (VPN)' (Customer Gateways, Virtual Private Gateways, Site-to-Site VPN Connections, Client VPN Endpoints), and 'TRANSIT GATEWAYS'. The main content area displays the 'vpc1-2 peering' connection details. The connection is active, with Requester VPC ID vpc-09414fe185cd76c46 and Accepter VPC ID vpc-0885ef764e962f452. The Requester VPC Region is Mumbai (ap-south-1) and the Accepter VPC Region is also Mumbai (ap-south-1). The Requester VPC CIDRs are 172.19.0.0/16 and the Accepter VPC CIDRs are 172.16.0.0/16. The Peering connection status is Active. The Peering Connection ID is pcx-0cf98c2eb2f8abff7. The expiration time is not set.

Name	Peering Connection ID	Status	Requester VPC	Accepter VPC	Requester CIDRs	Accepter CIDRs	Requester Owner
vpc1-2 peering	pcx-0cf98c2eb2f8abff7	Active	vpc-09414fe185cd...	vpc-0885ef764e9...	172.19.0.0/16	172.16.0.0/16	477487505631

Peering Connection: pcx-0cf98c2eb2f8abff7

Description

Requester VPC owner	Requester VPC ID	Requester VPC Region	Requester VPC CIDRs	VPC Peering Connection	Expiration time	Accepter VPC owner	Accepter VPC ID	Accepter VPC Region	Accepter VPC CIDRs	Peering connection status
477487505631	vpc-09414fe185cd76c46	Mumbai (ap-south-1)	172.19.0.0/16	pcx-0cf98c2eb2f8abff7	-	477487505631	vpc-0885ef764e962f452	Mumbai (ap-south-1)	172.16.0.0/16	Active

Task 9: Add one route(target with vpc peering) to the route tables 'route1' and 'route2'

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Destination	Target	Status	Propagated
172.19.0.0/16	local	active	No
0.0.0.0/0	igw-0466c37a8625e0a2a	active	No
172.16.0.0/16	pcx-0cf98c2eb2f8abff7	active	No

The screenshot shows the AWS VPC console interface. On the left, the navigation pane includes 'VPC Dashboard', 'VIRTUAL PRIVATE CLOUD' (Your VPCs, Subnets, Route Tables, Internet Gateways, Egress Only Internet Gateways, DHCP Options Sets, Elastic IPs, Managed Prefix Lists, Endpoints, Endpoint Services, NAT Gateways), and 'TRANSIT GATEWAYS'. The main content area displays the 'route1' and 'route2' route tables. The route tables are associated with VPC ID vpc-09414fe185cd76c46. The route tables have the following routes:

Destination	Target	Status	Propagated
172.16.0.0/16	local	active	No
0.0.0.0/0	igw-0091923e003d72b5a	active	No
172.19.0.0/16	pcx-0cf98c2eb2f8abff7	active	No

Task 10: Now Private IP pinging from server1 and server2

