

Module - 4 VPC Assignment - 2

You have been asked to:

1. Create 2 VPCs in the North Virginia region named MYVPC1 and MYVPC2
2. Create one VPC in Oregon region named VPCOregon1
3. Create a peering connection between MYVPC1 and MYVPC2
4. Create a peering connection between MYVPC2 and VPCOregon1

Create 2 VPC in North Virginia

The screenshot shows the AWS VPC Manager interface. On the left, there's a sidebar with navigation links like 'VPC Dashboard', 'EC2 Global View', 'Filter by VPC', 'Your VPCs' (which is selected), 'Subnets', 'Route Tables', 'Internet Gateways', 'Egress Only Internet Gateways', 'Carrier Gateways', 'DHCP Options Sets', 'Elastic IPs', and 'Managed Prefix Lists'. The main area is titled 'Your VPCs (1/3)' and contains a table with three rows. The first row is for 'MY-VPC2' with VPC ID 'vpc-0ed86376b283a01f1', state 'Available', IPv4 CIDR '192.168.0.0/16', and IPv6 CIDR '-'. The second row is for 'MY-VPC1' (selected), with VPC ID 'vpc-06dcf956a7d420ce6', state 'Available', IPv4 CIDR '120.0.0.0/16', and IPv6 CIDR '-'. The third row is for a unnamed VPC with VPC ID 'vpc-0e01f2f4d4d547512', state 'Available', IPv4 CIDR '172.31.0.0/16', and IPv6 CIDR '-'. Below the table, there's a detailed view for the selected VPC (vpc-06dcf956a7d420ce6). It shows 'Available' status, 'Disabled' route table, 'Main route table rtb-02a1bb34516567784 / VPC1-RT1', 'Main network ACL acl-0ad45ef482472a3d2', and 'IPv6 pool -'. The bottom of the screen shows the AWS footer with links to 'Feedback', 'English (US)', and various legal links.

Create internet gateway

The screenshot shows the AWS VPC Internet Gateways page. On the left, there's a sidebar with options like 'VPC Dashboard', 'EC2 Global View', and 'Internet Gateways'. The main area displays a table titled 'Internet gateways (3)'. The table has columns for Name, Internet gateway ID, State, VPC ID, and Owner. The data is as follows:

Name	Internet gateway ID	State	VPC ID	Owner
MY-VPC2-IGW	igw-008624a11a00f46bc	Attached	vpc-0ed86376b283a01f1 MY-VPC2	60090417281
-	igw-02fb2efdde619c86	Attached	vpc-0e01f2f4d4d547512	60090417281
MY-IGW-VPC1	igw-04c3ef205c9eff9de	Attached	vpc-06dcf956a7d420ce6 MY-VPC1	60090417281

Below the table, there's a note: 'Select an internet gateway above'.

Create subnet in MYVPC-1

- 1 MYVPC1-public subnet**
- 2 MYVPC1-private subnet**

Create subnet in MYVPC-2

- 1 MYVPC2-public subnet**
- 2 MYVPC2-private subnet**

The screenshot shows the AWS VPC Management console with the Subnets list. The left sidebar shows navigation options like VPC Dashboard, EC2 Global View, and Subnets. The main area displays a table of 10 subnets with columns for Name, Subnet ID, State, VPC, and IPv4 CIDR. The subnets are mostly available, with one in a pending state.

Name	Subnet ID	State	VPC	IPv4 CIDR
-	subnet-0011ea3a722bdb4bd	Available	vpc-0e01f2f4d4d547512	172.31.40.0/20
-	subnet-0430498c54b4601f8	Available	vpc-0e01f2f4d4d547512	172.31.80.0/20
MYVPC1-Private-Subnet	subnet-04464a594671fd343	Available	vpc-0edcf956a7d420ce6 MY...	120.0.128.0/17
MYVPC1-Public-Subnet	subnet-09249b9698f661bbc	Available	vpc-0edcf956a7d420ce6 MY...	120.0.0.0/17
MYVPC2-Public-Subnet	subnet-0125a8c3b04b15971	Available	vpc-0ed86376b283a01f1 MY...	192.168.0.0/17
-	subnet-059ac679ba79a1423	Available	vpc-0e01f2f4d4d547512	172.31.0.0/20
-	subnet-054fc8a028ddc25b	Available	vpc-0e01f2f4d4d547512	172.31.48.0/20
MYVPC2-Private-Subnet	subnet-0291f53a0ef847205	Available	vpc-0ed86376b283a01f1 MY...	192.168.128.0/17
-	subnet-0032046ca2f397a43	Available	vnr-0e01f2f4d4d547512	172.31.16.0/20

Create route-table

The screenshot shows the AWS VPC Management console with the Route tables list. The left sidebar shows navigation options like VPC Dashboard, EC2 Global View, and Route Tables. The main area displays a table of route tables with columns for Name, Route table ID, and Targets. One route table, VPC2-RT1, is selected. Below the table, there is a detailed view for the selected route table.

Name	Route table ID	Targets
rtb-0d1901dfcb648428b	-	-
VPC2-RT1	rtb-014f5a6a2652db7bd	subnet-0125a8c3b04b15971 / MYVPC2-Public-Subnet
VPC1-RT1	rtb-02a1bb34516567784	subnet-09249b9698f661bbc / MYVPC1-Public-Subnet
VPC1-RT2	rtb-09c2b26f1b6730c38	subnet-04464a594671fd343 / MYVPC1-Private-Subnet
VPC2-RT2	rtb-0ded9e549cba45d24	subnet-0291f53a0ef847205 / MYVPC2-Private-Subnet

rtb-014f5a6a2652db7bd / VPC2-RT1

Details | Routes | Subnet associations | Edge associations | Route propagation | Tags

You can now check network connectivity with Reachability Analyzer

Configure route table

Route tables (1/5) Info					
Actions Create route table					
<input type="text"/> Filter route tables					
<input type="checkbox"/>	-	rtb-0d1901dfcb648428b	-	-	Yes
<input type="checkbox"/>	VPC2-RT1	rtb-014f5a6a2652db7bd	subnet-0125a8c3b04b15971 / MYVPC2-Public-Subnet	-	Yes
<input type="checkbox"/>	VPC1-RT1	rtb-02a1bb34516567784	subnet-09249b9698f661bbc / MYVPC1-Public-Subnet	-	Yes
<input checked="" type="checkbox"/>	VPC1-RT2	rtb-09c2b26f1b6730c38	subnet-04464a594671fd343 / MYVPC1-Private-Subnet	-	No
<input type="checkbox"/>	VPC2-RT2	rtb-0ded9e549cba45d24	subnet-0291f53a0ef847205 / MYVPC2-Private-Subnet	-	No

<input type="text"/> Filter routes					
Both					
Destination	Target	Status	Propagated		
120.0.0.0/16	local	Active	No		

Route tables (1/5) Info					
Actions Create route table					
<input type="text"/> Filter route tables					
<input type="checkbox"/>	-	rtb-0d1901dfcb648428b	-	-	Yes
<input type="checkbox"/>	VPC2-RT1	rtb-014f5a6a2652db7bd	subnet-0125a8c3b04b15971 / MYVPC2-Public-Subnet	-	Yes
<input checked="" type="checkbox"/>	VPC1-RT1	rtb-02a1bb34516567784	subnet-09249b9698f661bbc / MYVPC1-Public-Subnet	-	Yes
<input type="checkbox"/>	VPC1-RT2	rtb-09c2b26f1b6730c38	subnet-04464a594671fd343 / MYVPC1-Private-Subnet	-	No
<input type="checkbox"/>	VPC2-RT2	rtb-0ded9e549cba45d24	subnet-0291f53a0ef847205 / MYVPC2-Private-Subnet	-	No

<input type="text"/> Filter routes					
Both					
Destination	Target	Status	Propagated		
120.0.0.0/16	local	Active	No		
0.0.0.0/0	igw-04c3ef205c9eff9de	Active	No		

Route tables (1/5) Info					
Actions Create route table					
<input type="text"/> Filter route tables					
<input type="checkbox"/>	-	rtb-0d1901dfcb648428b	-	-	Yes
<input type="checkbox"/>	VPC2-RT1	rtb-014f5a6a2652db7bd	subnet-0125a8c3b04b15971 / MYVPC2-Public-Subnet	-	Yes
<input type="checkbox"/>	VPC1-RT1	rtb-02a1bb34516567784	subnet-09249b9698f661bbc / MYVPC1-Public-Subnet	-	Yes
<input type="checkbox"/>	VPC1-RT2	rtb-09c2b26f1b6730c38	subnet-04464a594671fd343 / MYVPC1-Private-Subnet	-	No
<input checked="" type="checkbox"/>	VPC2-RT2	rtb-0ded9e549cba45d24	subnet-0291f53a0ef847205 / MYVPC2-Private-Subnet	-	No

<input type="text"/> Filter routes					
Both					
Destination	Target	Status	Propagated		
192.168.0.0/16	local	Active	No		

Route tables (1/5) Info					
Actions Create route table					
<input type="text"/> Filter route tables					
<input type="checkbox"/>	-	rtb-0d1901dfcb648428b	-	-	Yes
<input checked="" type="checkbox"/>	VPC2-RT1	rtb-014f5a6a2652db7bd	subnet-0125a8c3b04b15971 / MYVPC2-Public-Subnet	-	Yes
<input type="checkbox"/>	VPC1-RT1	rtb-02a1bb34516567784	subnet-09249b9698f661bbc / MYVPC1-Public-Subnet	-	Yes
<input type="checkbox"/>	VPC1-RT2	rtb-09c2b26f1b6730c38	subnet-04464a594671fd343 / MYVPC1-Private-Subnet	-	No

<input type="text"/> Filter routes					
Both					
Destination	Target	Status	Propagated		
192.168.0.0/16	local	Active	No		
0.0.0.0/0	igw-008624a11a00f46bc	Active	No		

Create NAT-GW

The screenshot shows the AWS VPC service in the Google Chrome browser. The left sidebar is collapsed, and the main area displays the 'NAT gateways' section. A single entry is listed:

Name	NAT gateway ID	Connectivity type	State	State message	Elastic IP address
MY-NAT-GW	nat-063cfce88eb518f78	Public	Available	-	52.73.159.163

Below the table, there's a detailed view for the selected NAT gateway, showing its ID, connectivity type, state, and private IP address.

The screenshot shows the AWS VPC service in the Google Chrome browser. The left sidebar is collapsed, and the main area displays the 'Elastic IP addresses' section. A single entry is listed:

Name	Allocated IPv4 address	Type	Allocation ID
EIP	52.73.159.163	Public IP	eipalloc-05e6b2f213f166b7e

Below the table, there's a detailed view for the selected elastic IP address, showing its summary information.

Configure route table again

Activities Google Chrome ▾ Nov 24 9:13 PM

VPC Management Console Untitled, Online Whitebo... + console.aws.amazon.com/vpc/home?region=us-east-1#EditRoutes:RouteTableId=rtb-09c2b26f1b6730c38

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AWS Services Search for services, features, blogs, docs, and more [Alt+S]

VPC > Route tables > rtb-09c2b26f1b6730c38 > Edit routes

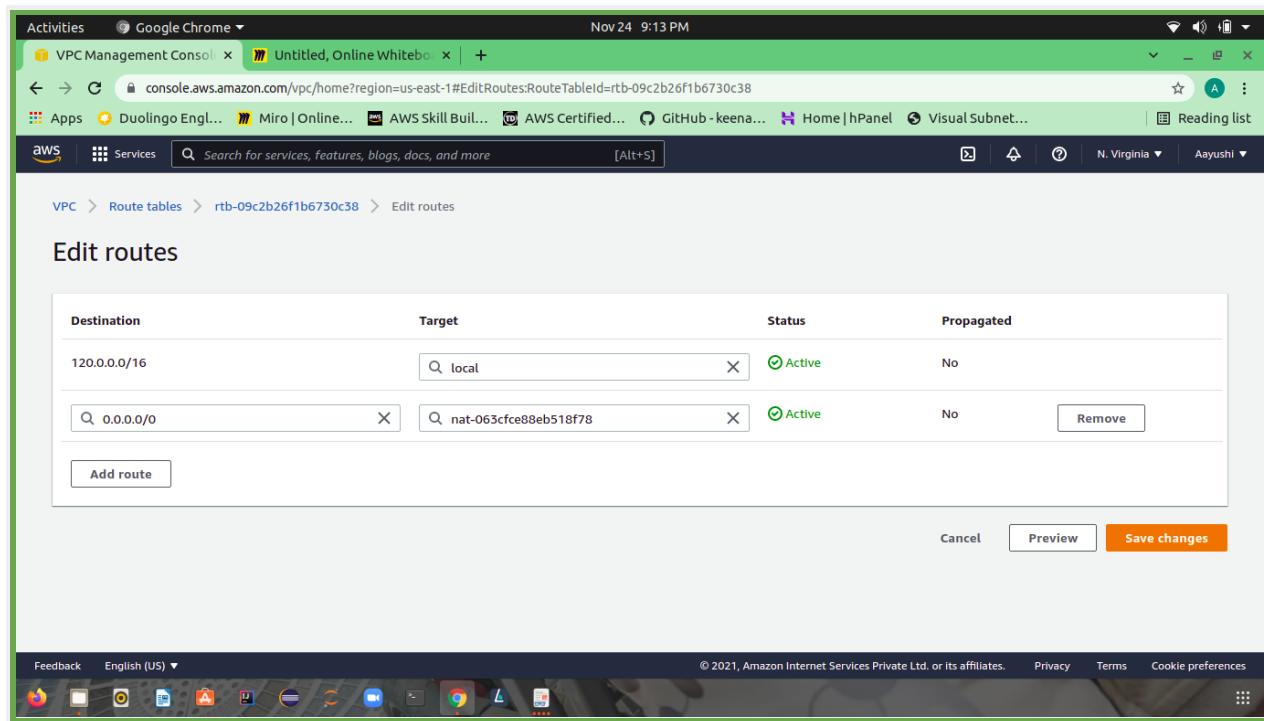
Edit routes

Destination	Target	Status	Propagated
120.0.0.0/16	local	Active	No
0.0.0.0/0	nat-063cfce88eb518f78	Active	No

Add route Remove

Cancel Preview Save changes

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Activities Google Chrome ▾ Nov 24 9:16 PM

Subnets | VPC Management EC2 Untitled, Online Whitebo... + console.aws.amazon.com/vpc/home?region=us-east-1#subnets:

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New VPC Experience Tell us what you think

CLOUD Your VPCs

Subnets New

- Route Tables
- Internet Gateways
- Egress Only Internet Gateways
- Carrier Gateways
- DHCP Options Sets
- Elastic IPs
- Managed Prefix Lists
- Endpoints
- Endpoint Services
- NAT Gateways
- Peering Connections

SECURITY

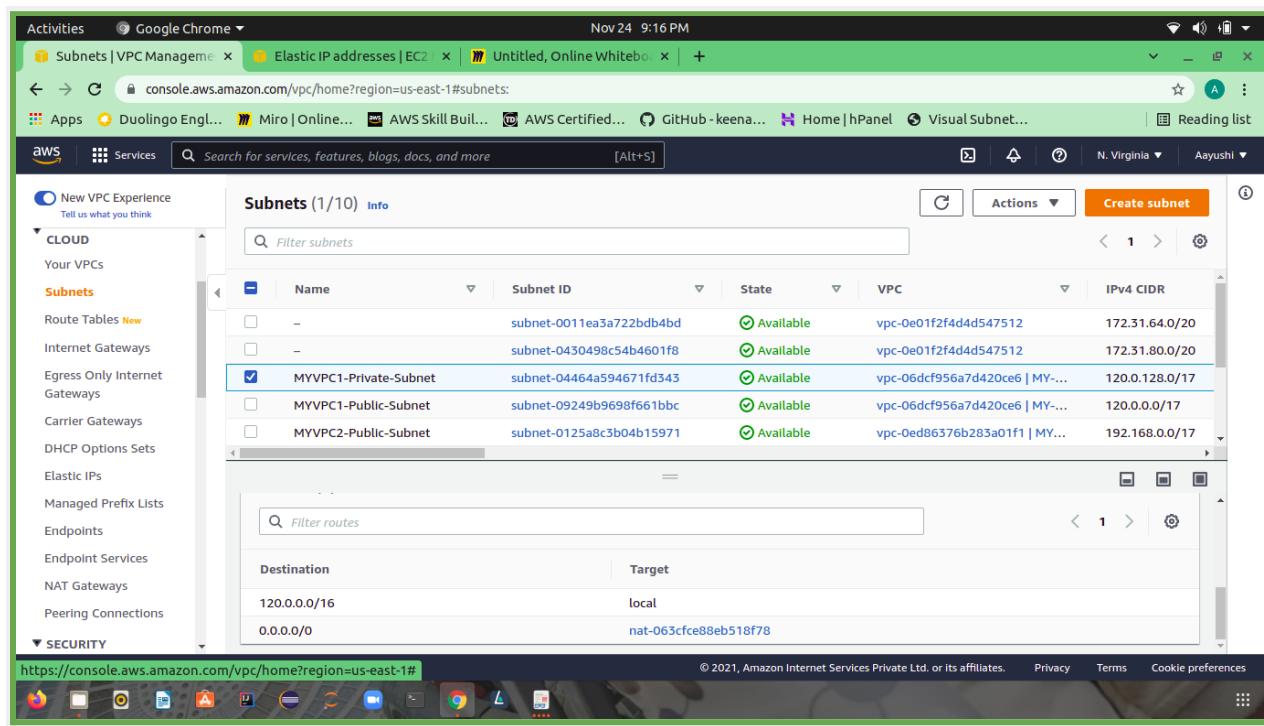
Subnets (1/10) Info Actions Create subnet

Name	Subnet ID	State	VPC	IPv4 CIDR
subnet-0011ea3a722bdb4bd	Available	vpc-0e01f2f4d4d547512	172.31.64.0/20	
subnet-0430498c54b4601f8	Available	vpc-0e01f2f4d4d547512	172.31.80.0/20	
MYVPC1-Private-Subnet	Available	vpc-06dcf956a7d420ce6 MY...	120.0.128.0/17	
MYVPC1-Public-Subnet	Available	vpc-06dcf956a7d420ce6 MY...	120.0.0.0/17	
MYVPC2-Public-Subnet	Available	vpc-0ed86376b283a01f1 MY...	192.168.0.0/17	

Filter routes

Destination	Target
120.0.0.0/16	local
0.0.0.0/0	nat-063cfce88eb518f78

https://console.aws.amazon.com/vpc/home?region=us-east-1# © 2021, Amazon Internet Services Private Ltd. or its affiliates. Privacy Terms Cookie preferences



Create public and private EC2 Instances in NV

A screenshot of the AWS EC2 Instances page. The left sidebar shows various services like Subnets, Images, and Network & Security. The main table lists four instances:

Name	Instance ID	Instance state	Instance type	Status check	Alarm status	Availability zone
MYVPC1-Private-Instance	i-052e0056736d4bade	Running	t2.micro	2/2 checks passed	No alarms	us-east-1
MYVPC2-Private-Instance	i-0c9145efb0c64e466	Running	t2.micro	2/2 checks passed	No alarms	us-east-1
MYVPC1-Public-Instance	i-048bbba8da86fe066	Running	t2.micro	2/2 checks passed	No alarms	us-east-1
MYVPC2-Public-Inst...	i-0c0dd52156bed73ab	Running	t2.micro	2/2 checks passed	No alarms	us-east-1

The instance **MYVPC2-Private-Instance** (i-0c9145efb0c64e466) is selected. The details pane shows the instance summary, including its instance ID and private IP address (192.168.179.127). A tooltip indicates the private IPv4 address has been copied.

Now create peering connection

A screenshot of the AWS VPC Peering Connections page. The left sidebar shows options like New VPC Experience, Peering Connections, and Security. The main page displays a single peering connection:

pcx-05847a317cd7edb03 / MY-PC

Requester owner ID	Acceptor owner ID	Peering connection ID
600904172815	600904172815	pcx-05847a317cd7edb03
Requester VPC	Acceptor VPC	Status
vpc-06dcf956a7d420ce6 / MY-VPC1	vpc-0ed86376b283a01f1 / MY-VPC2	Pending Acceptance by 600904172815
Requester CIDRs	Acceptor CIDRs	Expiration time
120.0.0.0/16	-	Wednesday, December 1, 2021, 21:35:47 GMT+5:30
Requester Region	Acceptor Region	
N. Virginia (us-east-1)	N. Virginia (us-east-1)	

Configure route table again

Activities Google Chrome ▾ Nov 24 9:39 PM

Your VPCs | VPC Manager x VPC Management Console x Instances | EC2 Management x Untitled, Online Whitebo x +

console.aws.amazon.com/vpc/home?region=us-east-1#EditRoutes:RouteTableId=rtb-014f5a6a2652db7bd

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AWS Services Search for services, features, blogs, docs, and more [Alt+S]

VPC > Route tables > rtb-014f5a6a2652db7bd > Edit routes

Edit routes

Destination	Target	Status	Propagated
192.168.0.0/16	local	Active	No
120.0.0.0/16	pcx-05847a317cd7edb03	Active	No
0.0.0.0/0	igw-008624a11a00f46bc	Active	No

Add route Cancel Preview Save changes

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Your VPCs | VPC Manager x VPC Management Console x Instances | EC2 Management x Untitled, Online Whitebo x +

console.aws.amazon.com/vpc/home?region=us-east-1#EditRoutes:RouteTableId=rtb-02a1bb34516567784

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VPC > Route tables > rtb-02a1bb34516567784 > Edit routes

Edit routes

Destination	Target	Status	Propagated
120.0.0.0/16	local	Active	No
192.168.0.0/16	pcx-05847a317cd7edb03	Active	No
0.0.0.0/0	igw-04c3ef205c9eff9de	Active	No

Add route Cancel Preview Save changes

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The screenshot shows the AWS VPC Peering Connections page in the AWS Management Console. The left sidebar has a 'Peering Connections' section selected under 'VPC'. The main area displays a table of peering connections. One connection, named 'MY-PC' with ID 'pce-05847a317cd7edb03', is listed. It is in a 'Pending acceptance' status. The requester VPC is 'vpc-06dcf956a7d420ce6 / MY...', and the accepter VPC is 'vpc-0ed86376b283a01f1 / M...'. A message at the bottom says 'Select a peering connection above'.

Name	Peering connection ID	Status	Requester VPC	Acceptor VPC
MY-PC	pce-05847a317cd7edb03	Pending acceptance	vpc-06dcf956a7d420ce6 / MY...	vpc-0ed86376b283a01f1 / M...

Now take remote of instance and test peering connection

Activities Terminal Nov 24 9:40 PM ec2-user@ip-120-0-235-108:~

```
https://aws.amazon.com/amazon-linux-2/
[ec2-user@ip-120-0-235-108 ~]$ [ec2-user@ip-120-0-235-108 ~]$ [ec2-user@ip-120-0-235-108 ~]$ [ec2-user@ip-120-0-235-108 ~]$ ping google.com
PING google.com (172.217.164.174) 56(84) bytes of data.
64 bytes from iad23s69-in-f14.1e100.net (172.217.164.174): icmp_seq=1 ttl=110 time=2.79 ms
64 bytes from iad23s69-in-f14.1e100.net (172.217.164.174): icmp_seq=2 ttl=110 time=1.98 ms
64 bytes from iad23s69-in-f14.1e100.net (172.217.164.174): icmp_seq=3 ttl=110 time=1.85 ms
64 bytes from iad23s69-in-f14.1e100.net (172.217.164.174): icmp_seq=4 ttl=110 time=2.57 ms
64 bytes from iad23s69-in-f14.1e100.net (172.217.164.174): icmp_seq=5 ttl=110 time=1.86 ms
^C
--- google.com ping statistics ---
5 packets transmitted, 5 received, 0% packet loss, time 4006ms
rtt min/avg/max/mdev = 1.852/2.212/2.793/0.395 ms
[ec2-user@ip-120-0-235-108 ~]$ [ec2-user@ip-120-0-235-108 ~]$ [ec2-user@ip-120-0-235-108 ~]$ ping 192.168.179.127
PING 192.168.179.127 (192.168.179.127) 56(84) bytes of data.
64 bytes from 192.168.179.127: icmp_seq=1 ttl=63 time=2.84 ms
64 bytes from 192.168.179.127: icmp_seq=2 ttl=63 time=2.19 ms
64 bytes from 192.168.179.127: icmp_seq=3 ttl=63 time=1.98 ms
64 bytes from 192.168.179.127: icmp_seq=4 ttl=63 time=2.00 ms
64 bytes from 192.168.179.127: icmp_seq=5 ttl=63 time=1.96 ms
64 bytes from 192.168.179.127: icmp_seq=6 ttl=63 time=1.98 ms
64 bytes from 192.168.179.127: icmp_seq=7 ttl=63 time=1.99 ms
64 bytes from 192.168.179.127: icmp_seq=8 ttl=63 time=1.94 ms
^C
--- 192.168.179.127 ping statistics ---
8 packets transmitted, 8 received, 0% packet loss, time 7009ms
rtt min/avg/max/mdev = 1.949/2.115/2.843/0.284 ms
[ec2-user@ip-120-0-235-108 ~]$
```

Activities Terminal Nov 24 9:34 PM ec2-user@ip-192-168-179-127:~

```
[sudo] password for aayushi:
root@varonica:/home/aayushi/Downloads#
root@varonica:/home/aayushi/Downloads# chmod 400 NV-keypair.pem
root@varonica:/home/aayushi/Downloads# ssh -i "NV-keypair.pem" ec2-user@54.82.24.148
The authenticity of host '54.82.24.148 (54.82.24.148)' can't be established.
ECDSA key fingerprint is SHA256:03ba0qrTzIJa0U0JgtlizKz7SABSSL1/d4c1tMLnA.
Are you sure you want to continue connecting (yes/no/[fingerprint])? yes
Warning: Permanently added '54.82.24.148' (ECDSA) to the list of known hosts.

https://aws.amazon.com/amazon-linux-2/
[ec2-user@ip-192-168-106-44 ~]$ [ec2-user@ip-192-168-106-44 ~]$ nano key2.pem
[ec2-user@ip-192-168-106-44 ~]$ [ec2-user@ip-192-168-106-44 ~]$ ls -l
total 4
-rw-rw-r-- 1 ec2-user ec2-user 1675 Nov 24 16:01 key2.pem
[ec2-user@ip-192-168-106-44 ~]$ chmod 400 key2.pem
[ec2-user@ip-192-168-106-44 ~]$ ssh -i key2.pem ec2-user@192.168.179.127
The authenticity of host '192.168.179.127 (192.168.179.127)' can't be established.
ECDSA key fingerprint is SHA256:a0xAHdPovKuSF0K/DpIVaqfsvSPZxgXB0a5rJ2q5BIM.
ECDSA key fingerprint is MD5:e8:b7:0a:cb:b3:f2:24:36:9f:d1:82:7f:21:3c:85:e4:c5.
Are you sure you want to continue connecting (yes/no)? yes
Warning: Permanently added '192.168.179.127' (ECDSA) to the list of known hosts.

https://aws.amazon.com/amazon-linux-2/
[ec2-user@ip-192-168-179-127 ~]$ ping google.com
```

Activities Terminal Nov 24 9:29 PM ec2-user@ip-120-0-235-108:~

```
[root@ip-120-0-3-218 ec2-user]# 
[root@ip-120-0-3-218 ec2-user]# chmod 400 key1.pem
[root@ip-120-0-3-218 ec2-user]# ls -l
total 4
-r----- 1 root root 1675 Nov 24 15:58 key1.pem
[root@ip-120-0-3-218 ec2-user]# 
[root@ip-120-0-3-218 ec2-user]# ssh -i key1.pem ec2-user@120.0.235.108
The authenticity of host '120.0.235.108' (120.0.235.108) can't be established.
ECDSA key fingerprint is SHA256:au/0HepQjCHd6M41Wr60Tuqs7fZ8LYU0uZ0KESXBf6o.
ECDSA key fingerprint is MD5:83:eo:7b:4a:b5:7f:d0:c6:e9e:35:45:2e:0a:b8:34.
Are you sure you want to continue connecting (yes/no)? yes
Warning: Permanently added '120.0.235.108' (ECDSA) to the list of known hosts.

      _\   _ ) 
     _\ ( _ /  Amazon Linux 2 AMI
     __| \_\_|__|_ 

https://aws.amazon.com/amazon-linux-2/
[ec2-user@ip-120-0-235-108 ~]$ 
[ec2-user@ip-120-0-235-108 ~]$ 
[ec2-user@ip-120-0-235-108 ~]$ 
[ec2-user@ip-120-0-235-108 ~]$ ping google.com
PING google.com (172.217.164.174) 56(84) bytes of data.
64 bytes from iad23s69-in-f14.1e100.net (172.217.164.174): icmp_seq=1 ttl=110 time=2.79 ms
64 bytes from iad23s69-in-f14.1e100.net (172.217.164.174): icmp_seq=2 ttl=110 time=1.98 ms
64 bytes from iad23s69-in-f14.1e100.net (172.217.164.174): icmp_seq=3 ttl=110 time=1.85 ms
64 bytes from iad23s69-in-f14.1e100.net (172.217.164.174): icmp_seq=4 ttl=110 time=2.57 ms
64 bytes from iad23s69-in-f14.1e100.net (172.217.164.174): icmp_seq=5 ttl=110 time=1.86 ms
^C
--- google.com ping statistics ---
5 packets transmitted, 5 received, 0% packet loss, time 4006ms
rtt min/avg/max/mdev = 1.852/2.212/2.793/0.395 ms
[ec2-user@ip-120-0-235-108 ~]$ 
[ec2-user@ip-120-0-235-108 ~]$ 
[ec2-user@ip-120-0-235-108 ~]$ 
```

Activities Terminal Nov 24 9:29 PM ec2-user@ip-120-0-235-108:~

```
aayushi@Varonica:~/Downloads$ sudo su
[sudo] password for aayushi:
root@Varonica:/home/aayushi/Downloads#
root@Varonica:/home/aayushi/Downloads# chmod 400 NV-keypair.pem
root@Varonica:/home/aayushi/Downloads# ssh -i "NV-keypair.pem" ec2-user@100.26.31.153
The authenticity of host '100.26.31.153' (100.26.31.153) can't be established.
ECDSA key fingerprint is SHA256:CpsxE6zQj4eHixh6d6CD4YbdU0ZbYU43hLZkYU5pxFdQ.
Are you sure you want to continue connecting (yes/no/[fingerprint])? yes
Warning: Permanently added '100.26.31.153' (ECDSA) to the list of known hosts.

      _\   _ ) 
     _\ ( _ /  Amazon Linux 2 AMI
     __| \_\_|__|_ 

https://aws.amazon.com/amazon-linux-2/
[ec2-user@ip-120-0-3-218 ~]$ 
[ec2-user@ip-120-0-3-218 ~]$ sudo su
[root@ip-120-0-3-218 ec2-user]#
[root@ip-120-0-3-218 ec2-user]# nano key1.pem
[root@ip-120-0-3-218 ec2-user]#
[root@ip-120-0-3-218 ec2-user]# chmod 400 key1.pem
[root@ip-120-0-3-218 ec2-user]# ls -l
total 4
-r----- 1 root root 1675 Nov 24 15:58 key1.pem
[root@ip-120-0-3-218 ec2-user]# 
[root@ip-120-0-3-218 ec2-user]# ssh -i key1.pem ec2-user@120.0.235.108
The authenticity of host '120.0.235.108' (120.0.235.108) can't be established.
ECDSA key fingerprint is SHA256:au/0HepQjCHd6M41Wr60Tuqs7fZ8LYU0uZ0KESXBf6o.
ECDSA key fingerprint is MD5:83:eo:7b:4a:b5:7f:d0:c6:e9e:35:45:2e:0a:b8:34.
Are you sure you want to continue connecting (yes/no)? yes
Warning: Permanently added '120.0.235.108' (ECDSA) to the list of known hosts.

      _\   _ ) 
     _\ ( _ /  Amazon Linux 2 AMI
     __| \_\_|__|_ 
```

Now create VPC in Oregon region named VPCOregon1

The screenshot shows the AWS VPC Management console. On the left, a sidebar lists various VPC-related services. The main area displays a table titled "Your VPCs (2) Info" with columns for Name, VPC ID, State, IPv4 CIDR, and IPv6 CIDR. Two entries are listed:

Name	VPC ID	State	IPv4 CIDR	IPv6 CIDR (Network bo)
-	vpc-0b3393bc18e3b529a	Available	172.31.0.0/16	-
VPCOregon1	vpc-0af5c31c6be202fa5	Available	10.10.0.0/24	-

A message at the bottom of the table area says "Select a VPC above".

Create 2 subnet one public and one private,configure route table

The screenshot shows the AWS Route Tables management console. The sidebar includes options like "Route Tables New". The main area shows a table titled "Route tables (1/3) Info" with columns for Name, Route table ID, Explicit subnet association, Edge associations, Main, and VPC. Three entries are listed:

Name	Route table ID	Explicit subnet association	Edge associations	Main	VPC
-	rtb-06d0344b03bffa33d	-	-	Yes	vpc-0b3393bc18e3b529a
Oregon-RT02	rtb-07142ecd5535a4503	-	-	No	vpc-0af5c31c6be202fa5
Oregon-RT01	rtb-0215851d9609a7449	subnet-0fa684be65276...	-	Yes	vpc-0af5c31c6be202fa5

Below the table, a smaller table shows the "Destination" and "Target" for the routes in the selected table:

Destination	Target	Status	Propagated
10.10.0.0/24	local	Active	No
0.0.0.0/0	nat-08d769002448d8b99	Active	No

Create NAT-GW

Activities Google Chrome Nov 24 9:52 PM

Your VPCs | VPC Management | Instances | EC2 Metrics | Elastic IP addresses | Instances | EC2 Metrics | Untitled, Online W | +

us-west-2.console.aws.amazon.com/vpc/home?region=us-west-2#NatGateways:

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NAT gateways (1/1) Actions Create NAT gateway

Filter NAT gateways

Name	NAT gateway ID	Connectivity	State	State message	Elastic IP address
Oregon-NAT-GW	nat-08d769002448d8b99	Public	Available	-	54.203.118.218

nat-08d769002448d8b99 / Oregon-NAT-GW

Details Monitoring Tags

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Your VPCs | VPC Management | Instances | EC2 Metrics | Elastic IP addresses | Instances | EC2 Metrics | Untitled, Online W | +

us-west-2.console.aws.amazon.com/vpc/home?region=us-west-2#Addresses:

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Elastic IP addresses (1/1) Actions Allocate Elastic IP address

Filter Elastic IP addresses

Name	Allocated IPv4 address	Type	Allocation ID
Oregon-EPI	54.203.118.218	Public IP	eipalloc-0aab98730c2b8c9d2

54.203.118.218

Summary Tags

Summary

https://us-west-2.console.aws.amazon.com/vpc/home?region...

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Now create peering connection between MYVPC-2 and OregonVPC1

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Peering connection VPC Management Instances | EC2 Me Peering connection Instances | EC2 Me Untitled, Online W

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Peering Connections

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REACHABILITY Reachability Analyzer

DNS FIREWALL Rule Groups New Domain Lists New

NETWORK FIREWALL Firewalls Firewall Policies Network Firewall Rule Groups

VIRTUAL PRIVATE NETWORKS Feedback English (US)

Peering connections (1/1) Actions Create peering connection

Name	Peering connection ID	Status	Requester VPC	Acceptor VPC
pcx-03627acf27218d81c	Pending acceptance	vpc-06dcf956a7d420ce6	vpc-0af5c31c6be202fa5 / VPC...	

pcx-03627acf27218d81c

Pending acceptance
You can accept or reject this peering connection request using the 'Actions' menu. You have until Wednesday, December 1, 2021, 21:55:21 GMT+5:30 to accept or reject the request, otherwise it expires.

Details DNS Route tables Tags

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Peering connection VPC Management Instances | EC2 Me VPC Management Instances | EC2 Me Untitled, Online W

console.aws.amazon.com/vpc/home?region=us-east-1#PeeringConnections:

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Endpoint Services

NAT Gateways

Peering Connections

SECURITY Network ACLs Security Groups

REACHABILITY Reachability Analyzer

DNS FIREWALL Rule Groups New Domain Lists New

Feedback English (US)

Peering connections (1/2) Actions Create peering connection

Name	Peering connection ID	Status	Requester VPC	Acceptor VPC
PC-Oregon	pcx-03627acf27218d81c	Pending acceptance	vpc-06dcf956a7d420ce6 / MY...	vpc-0af5c31c6be202fa5
MY-PC	pcx-05847a317cd7edb03	Active	vpc-06dcf956a7d420ce6 / MY...	vpc-0ed86376b283a01f1 / M...

Requester owner ID 600904172815	Acceptor owner ID 600904172815	Peering connection ID pcx-03627acf27218d81c
Requester VPC vpc-06dcf956a7d420ce6 / MY-PC	Acceptor VPC vpc-0af5c31c6be202fa5	Status Pending Acceptance by 600904172815
Requester CIDRs 120.0.0.0/16	Acceptor CIDRs -	Expiration time Wednesday, December 1, 2021, 21:55:21 GMT+5:30
Requester Region N. Virginia (us-east-1)	Acceptor Region Oregon (us-west-2)	

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Nov 24 9:56 PM

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Peering connection | VPC Management | Instances | EC2 Me | Peering connection | Instances | EC2 Me | Untitled, Online W | +

us-west-2.console.aws.amazon.com/vpc/home?region=us-west-2#PeeringConnections:

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DNS FIREWALL Rule Groups New

Domain Lists New

NETWORK FIREWALL Firewalls

Firewall Policies

Network Firewall Rule Groups

VIRTUAL PRIVATE NETWORKS Feedback English (US) ▾

Peering connections (1/1) Info Actions Create peering connection

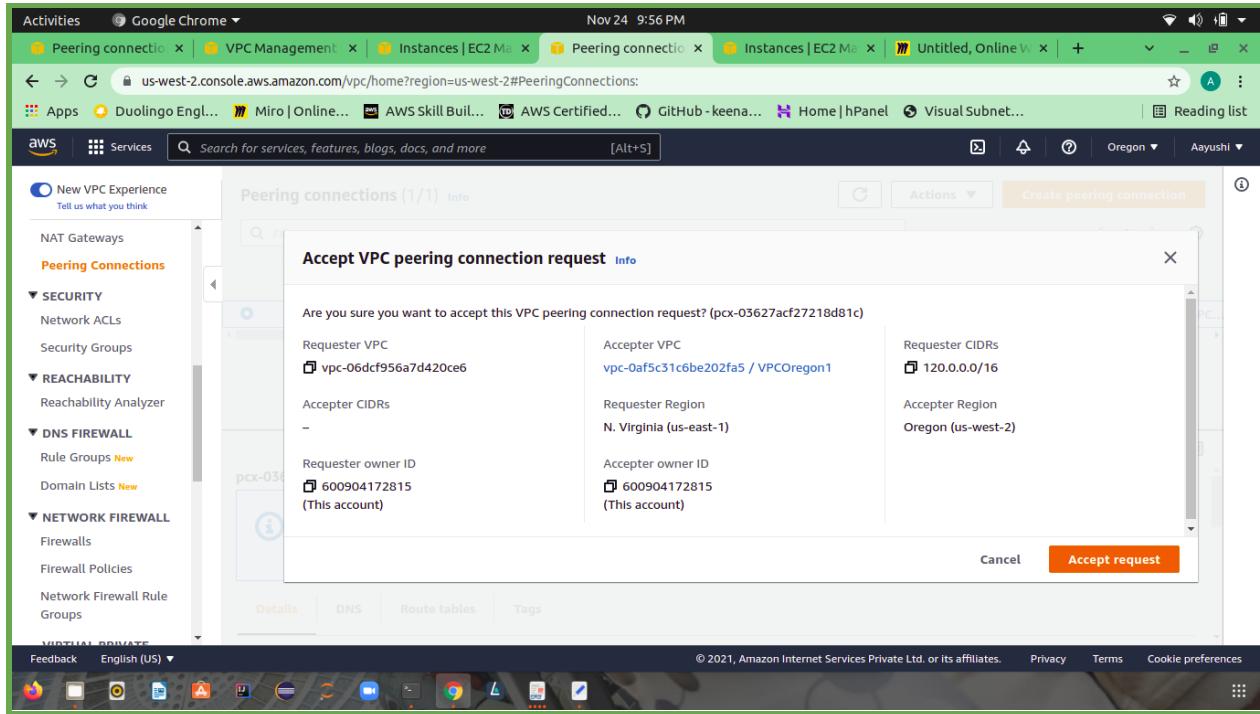
Accept VPC peering connection request Info

Are you sure you want to accept this VPC peering connection request? (pxc-03627acf27218d81c)

Requester VPC	Acceptor VPC	Requester CIDRs
vpc-06dcf956a7d420ce6	vpc-0af5c31c6be202fa5 / VPCOregon1	120.0.0.0/16
Acceptor CIDRs	Requester Region	Acceptor Region
-	N. Virginia (us-east-1)	Oregon (us-west-2)
Requester owner ID	Acceptor owner ID	
600904172815 (This account)	600904172815 (This account)	

Cancel Accept request

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Configure route table

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Peering connection | Your VPCs | VPC M... | Instances | EC2 Me | Route tables | VPC | Instances | EC2 Me | Untitled, Online W | +

us-west-2.console.aws.amazon.com/vpc/home?region=us-west-2#RouteTables:

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DNS FIREWALL Rule Groups New

Domain Lists New

NETWORK FIREWALL Firewalls

Firewall Policies

Network Firewall Rule Groups

VIRTUAL PRIVATE NETWORKS Feedback English (US) ▾

Route tables (1/3) Info Actions Create route table

Filter route tables

Name	Route table ID	Explicit subnet associat...	Edge associations	Main	VPC
-	rtb-06d0344b03bffa33d	-	-	Yes	vpc-0b3393bc18e3b5
<input checked="" type="checkbox"/> Oregon-RT02	rtb-07142ecd5535a4503	-	-	No	vpc-0af5c31c6be202fa5
<input type="checkbox"/> Oregon-RT01	rtb-0215851d9609a7449	subnet-0fa684be65276...	-	Yes	vpc-0af5c31c6be202fa5

Destination Target Status Propagated

10.10.10.0/24	local	Active	No
120.0.0.0/16	pxc-03627acf27218d81c	Active	No
0.0.0.0/0	nat-08d769002448d8b99	Active	No

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