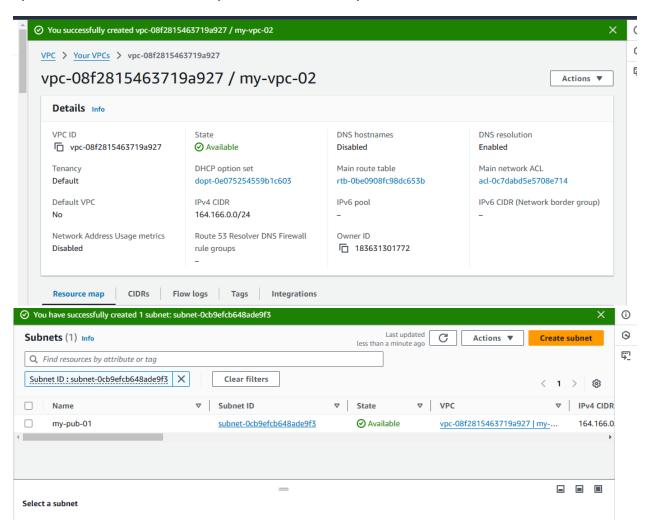# VPC TASKS 02

1) Create one VPC,with 1 one public subnet and 1 private subnet.

Subnets (1/1) Info

Last updated
less than a minute ago

Actions ▼   **Create subnet**

Find resources by attribute or tag

Subnet ID : subnet-06a02566a7ccee0d6 ✕   **Clear filters**

< 1 >

	Name	▽	Subnet ID	▽	State	▽	VPC	▽	IPv4 CIDR
☑	my-pri-01		subnet-06a02566a7ccee0d6		⊘ Available		vpc-08f2815463719a927	my-...		164.166.0.

subnet-06a02566a7ccee0d6 / my-pri-01

Details | Flow logs | Route table | Network ACL | CIDR reservations | Sharing | Tags

Details

Route tables (1/6) Info

Last updated
less than a minute ago

Actions ▼   **Create route table**

Find resources by attribute or tag

< 1 >

	Name	▽	Route table ID	▽	Explicit subnet associ...	▽	Edge associations	▽	Main	▽
☐	–		rtb-020d53d8f92ba0f0d		–		–		Yes	
☐	my-RT		rtb-0cb7b76e894937b9e		2 subnets		–		No	
☐	–		rtb-0be0908fc98dc653b		–		–		Yes	
☑	my-rakesh		rtb-0fff89ac76b9286a6		2 subnets		–		No	
☐			rtb-0adb0ba7cb51d607d						Yes	

rtb-0fff89ac76b9286a6 / my-rakesh

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

Details

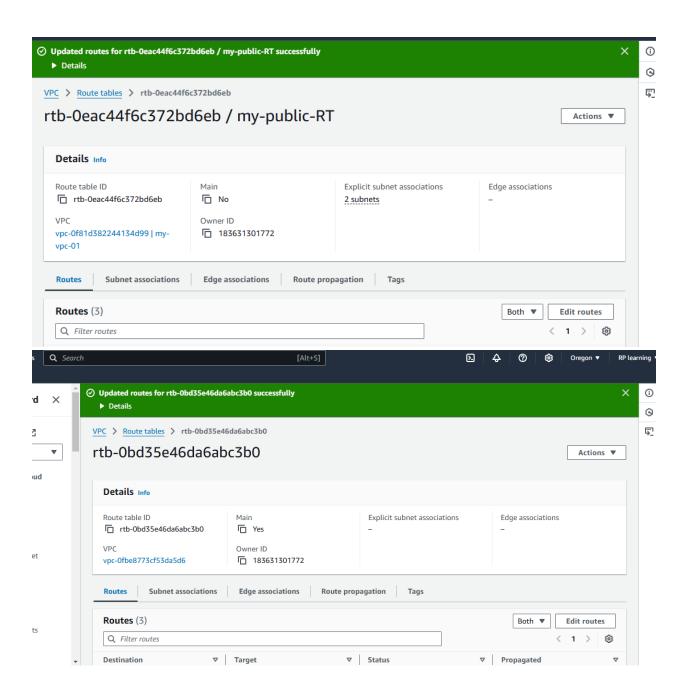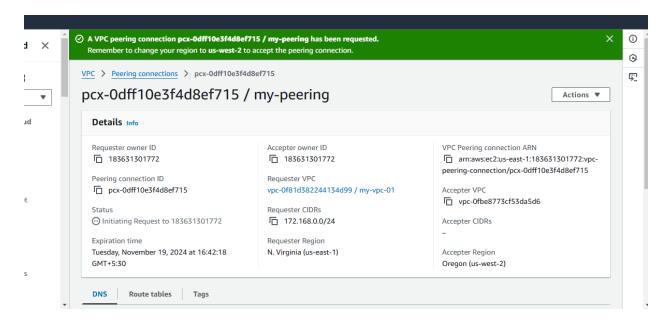| Route table ID	Main	Explicit subnet associations	Edge associations

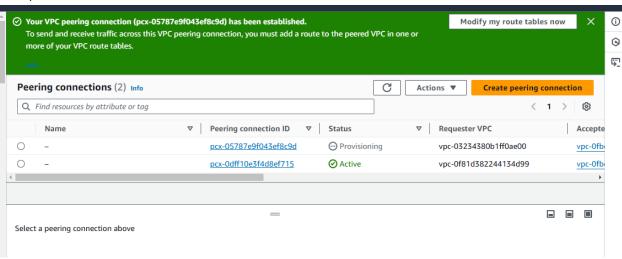2) Enable VPC peering for cross region.

```
[root@ip-172-168-0-12 ~]# ping 172.31.11.156
PING 172.31.11.156 (172.31.11.156) 56(84) bytes of data.
64 bytes from 172.31.11.156: icmp_seq=1 ttl=127 time=64.6 ms
64 bytes from 172.31.11.156: icmp_seq=2 ttl=127 time=64.9 ms
64 bytes from 172.31.11.156: icmp_seq=3 ttl=127 time=64.7 ms
64 bytes from 172.31.11.156: icmp_seq=4 ttl=127 time=64.9 ms
64 bytes from 172.31.11.156: icmp_seq=5 ttl=127 time=65.1 ms
64 bytes from 172.31.11.156: icmp_seq=6 ttl=127 time=64.4 ms
64 bytes from 172.31.11.156: icmp_seq=7 ttl=127 time=64.5 ms
64 bytes from 172.31.11.156: icmp_seq=8 ttl=127 time=64.6 ms
64 bytes from 172.31.11.156: icmp_seq=9 ttl=127 time=64.9 ms
64 bytes from 172.31.11.156: icmp_seq=10 ttl=127 time=65.1 ms
64 bytes from 172.31.11.156: icmp_seq=11 ttl=127 time=64.7 ms
64 bytes from 172.31.11.156: icmp_seq=12 ttl=127 time=64.7 ms
64 bytes from 172.31.11.156: icmp_seq=13 ttl=127 time=65.0 ms
64 bytes from 172.31.11.156: icmp_seq=14 ttl=127 time=65.0 ms
64 bytes from 172.31.11.156: icmp_seq=15 ttl=127 time=65.1 ms
64 bytes from 172.31.11.156: icmp_seq=16 ttl=127 time=64.7 ms
64 bytes from 172.31.11.156: icmp_seq=17 ttl=127 time=64.6 ms
64 bytes from 172.31.11.156: icmp_seq=18 ttl=127 time=65.1 ms
64 bytes from 172.31.11.156: icmp_seq=19 ttl=127 time=65.0 ms
64 bytes from 172.31.11.156: icmp_seq=20 ttl=127 time=64.7 ms
```

Peering connections (1/1) Info

Actions ▼   Create peering connection

Q Find resources by attribute or tag

1

Name

Accep

vpc-0

Accept VPC peering connection request Info   ✕

Are you sure you want to accept this VPC peering connection request? (pcx-0dff10e3f4d8ef715)

Requester VPC	Accepter VPC	Requester CIDRs
vpc-0f81d382244134d99	vpc-0fbe8773cf53da5d6	172.168.0.0/24

Accepter CIDRs	Requester Region	Accepter Region
–	N. Virginia (us-east-1)	Oregon (us-west-2)

Requester owner ID	Accepter owner ID	
183631301772	183631301772	
(This account)	(This account)	

Cancel   **Accept request**

pcx-0dff10e3f4d

ⓘ Pending ac
You can acc
GMT+5:30 t

Details   DNS   Route tables   Tags

rtb-0eac44f6c372bd6eb / my-public-RT

Actions ▼

Details Info

Route table ID	Main	Explicit subnet associations	Edge associations
rtb-0eac44f6c372bd6eb	No	2 subnets	–
VPC	Owner ID		
vpc-0f81d382244134d99 | my-vpc-01	183631301772		

Routes	Subnet associations	Edge associations	Route propagation	Tags

Routes (3)

Both ▼   Edit routes

Filter routes

‹ **1** › ⚙

Q Search   [Alt+S]   ⊡ 🔔 ❓ ⚙ Oregon ▼   RP learning ▼

rtb-0bd35e46da6abc3b0

Actions ▼

Details Info

Route table ID	Main	Explicit subnet associations	Edge associations
rtb-0bd35e46da6abc3b0	Yes	–	–
VPC	Owner ID		
vpc-0fbe8773cf53da5d6	183631301772		

Routes	Subnet associations	Edge associations	Route propagation	Tags

Routes (3)

Both ▼   Edit routes

Filter routes

‹ **1** › ⚙

Destination ▽	Target ▽	Status ▽	Propagated ▽

3) Enable VPC peering for cross account. (You can collaborate with your friend and do this task).

Edit routes

Destination	Target	Status	Propagated	
172.31.0.0/16	local ▼	⊘ Active	No	
	🔍 local ✕			
🔍 172.168.0.0/24 ✕	Peering Connection ▼	⊘ Active	No	Remove
	🔍 pcx-04ae44c3b0cd18fac ✕			
🔍 192.168.0.0/24 ✕	Peering Connection ▼	⊘ Active	No	Remove
	🔍 pcx-05787e9f043ef8c9d ✕			
🔍 0.0.0.0/0 ✕	Internet Gateway ▼	⊘ Active	No	Remove
	🔍 igw-0186a758c432fbf01 ✕			

Add route

```
     ~~._.    _/
        _/ _/
     _/m/'
Last login: Tue Nov 12 11:47:14 2024 from 49.37.152.146
[ec2-user@ip-172-31-11-156 ~]$ ping 192.168.0.8
PING 192.168.0.8 (192.168.0.8) 56(84) bytes of data.
64 bytes from 192.168.0.8: icmp_seq=1 ttl=255 time=62.1 ms
64 bytes from 192.168.0.8: icmp_seq=2 ttl=255 time=62.1 ms
64 bytes from 192.168.0.8: icmp_seq=3 ttl=255 time=61.4 ms
64 bytes from 192.168.0.8: icmp_seq=4 ttl=255 time=62.5 ms
64 bytes from 192.168.0.8: icmp_seq=5 ttl=255 time=62.1 ms
64 bytes from 192.168.0.8: icmp_seq=6 ttl=255 time=62.1 ms
64 bytes from 192.168.0.8: icmp_seq=7 ttl=255 time=61.6 ms
64 bytes from 192.168.0.8: icmp_seq=8 ttl=255 time=62.5 ms
64 bytes from 192.168.0.8: icmp_seq=9 ttl=255 time=62.7 ms
64 bytes from 192.168.0.8: icmp_seq=10 ttl=255 time=61.5 ms
64 bytes from 192.168.0.8: icmp_seq=11 ttl=255 time=61.6 ms
64 bytes from 192.168.0.8: icmp_seq=12 ttl=255 time=61.6 ms
64 bytes from 192.168.0.8: icmp_seq=13 ttl=255 time=62.4 ms
64 bytes from 192.168.0.8: icmp_seq=14 ttl=255 time=61.4 ms
64 bytes from 192.168.0.8: icmp_seq=15 ttl=255 time=62.8 ms
64 bytes from 192.168.0.8: icmp_seq=16 ttl=255 time=63.1 ms
64 bytes from 192.168.0.8: icmp_seq=17 ttl=255 time=62.3 ms
64 bytes from 192.168.0.8: icmp_seq=18 ttl=255 time=63.3 ms
64 bytes from 192.168.0.8: icmp_seq=19 ttl=255 time=62.6 ms
64 bytes from 192.168.0.8: icmp_seq=20 ttl=255 time=63.1 ms
64 bytes from 192.168.0.8: icmp_seq=21 ttl=255 time=62.4 ms
64 bytes from 192.168.0.8: icmp_seq=22 ttl=255 time=62.8 ms
```

4) Setup VPC Transist gateway.

Create transit gateway Info

A transit gateway (TGW) is a network transit hub that interconnects attachments (VPCs and VPNs) within the same AWS account or across AWS accounts.

Details - optional

Name tag
Creates a tag with the key set to Name and the value set to the specified string.

my-trans-gateway

Description | Info
Set the description of your transit gateway to help you identify it in the future.

gateway

Configure the transit gateway

Amazon side Autonomous System Number (ASN) | Info

ASN

☑ DNS support Info

Create endpoint Info

Create the type of VPC endpoint that supports the service, service network or resource to which you want to connect.

Endpoint settings

Specify a name and select the type of endpoint.

Name tag - optional
Creates a tag with a key of 'Name' and a value that you specify. Tags help you find and manage your endpoint.

my-end-point

Type Info
Select the service category

- ⦿ **AWS services**
  Connect to services provided by Amazon with an Interface endpoint, or a Gateway endpoint

- ○ **PrivateLink Ready partner services**
  Connect to SaaS services which have AWS Service Ready designation with an Interface endpoint. Uses AWS PrivateLink

- ○ **AWS Marketplace services**
  Connect to SaaS services that you have purchased through AWS Marketplace with an Interface Endpoint

- ○ **EC2 Instance Connect Endpoint**
  An elastic network interface that allow you to connect to resources in a private subnet

- ○ **Endpoint services that use NLBs and GWLBs**
  Find services shared with you by service name. Connect to a Network LoadBalancer (NLB) service with an Interface endpoint or to a Gateway LoadBalancer (GWLB) service with a Gateway Load Balancer endpoint

5) Setup VPC End Point.

Create endpoint Info

Create the type of VPC endpoint that supports the service, service network or resource to which you want to connect.

Endpoint settings

Specify a name and select the type of endpoint.

Name tag - *optional*

Creates a tag with a key of 'Name' and a value that you specify. Tags help you find and manage your endpoint.

my-end-point

Type Info

Select the service category

- [x] **AWS services**
  Connect to services provided by Amazon with an Interface endpoint, or a Gateway endpoint

- [ ] **PrivateLink Ready partner services**
  Connect to SaaS services which have AWS Service Ready designation with an Interface endpoint. Uses AWS PrivateLink

- [ ] **AWS Marketplace services**
  Connect to SaaS services that you have purchased through AWS Marketplace with an Interface Endpoint

- [ ] **EC2 Instance Connect Endpoint**
  An elastic network interface that allow you to connect to resources in a private subnet

- [ ] **Endpoint services that use NLBs and GWLBs**
  Find services shared with you by service name. Connect to a Network LoadBalancer (NLB) service with an Interface endpoint or to a Gateway LoadBalancer (GWLB) service with a Gateway Load Balancer endpoint

---

⊘ **Successfully created VPC endpoint**
vpce-00a5b2bbfbf649536

Endpoints (1/1) Info

🔍 Search

	Name	▽	VPC endpoint ID	▽	Endpoint type	▽	Status
☑	my-end-point		vpce-00a5b2bbfbf649536		Interface		⏱ Pending