

VPC TASKS 02

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

You successfully created vpc-08f2815463719a927 / my-vpc-02

VPC > Your VPCs > vpc-08f2815463719a927

vpc-08f2815463719a927 / my-vpc-02

Actions

Details Info

VPC ID vpc-08f2815463719a927	State Available	DNS hostnames Disabled	DNS resolution Enabled
Tenancy Default	DHCP option set dopt-0e075254559b1c603	Main route table rtb-0be0908fc98dc653b	Main network ACL acl-0c7dabd5e5708e714
Default VPC No	IPv4 CIDR 164.166.0.0/24	IPv6 pool -	IPv6 CIDR (Network border group) -
Network Address Usage metrics Disabled	Route 53 Resolver DNS Firewall rule groups -	Owner ID 183631301772	

Resource map

CIDRs

Flow logs

Tags

Integrations

You have successfully created 1 subnet: subnet-0cb9efcb648ade9f3

Subnets (1) Info

Last updated less than a minute ago

Actions

Create subnet

Find resources by attribute or tag

Subnet ID : subnet-0cb9efcb648ade9f3

Clear filters

< 1 >

Name	Subnet ID	State	VPC	IPv4 CIDR
my-pub-01	subnet-0cb9efcb648ade9f3	Available	vpc-08f2815463719a927 my-...	164.166.0.

Select a subnet

You have successfully created 1 subnet: subnet-06a02566a7ccee0d6

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

<input checked="" type="checkbox"/>	Name	Subnet ID	State	VPC	IPv4 CIDR
<input checked="" type="checkbox"/>	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

You have successfully updated subnet associations for rtb-0fff89ac76b9286a6 / my-rakesh.

Route tables (1/6) Info

Last updated less than a minute ago

Actions

Create route table

Find resources by attribute or tag

< 1 >

<input type="checkbox"/>	Name	Route table ID	Explicit subnet associ...	Edge associations	Main
<input type="checkbox"/>	-	rtb-020d53d8f92ba0f0d	-	-	Yes
<input type="checkbox"/>	my-RT	rtb-0cb7b76e894937b9e	2 subnets	-	No
<input type="checkbox"/>	-	rtb-0be0908fc98dc653b	-	-	Yes
<input checked="" type="checkbox"/>	my-rakesh	rtb-0fff89ac76b9286a6	2 subnets	-	No

rtb-0fff89ac76b9286a6 / my-rakesh

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

Details

Route table ID	Main	Explicit subnet associations	Edge associations
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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](#) Refresh Actions Create peering connection

Name	Requester VPC	Requester CIDRs	Requester Region	Requester owner ID	Accepter VPC	Accepter CIDRs	Accepter Region	Accepter owner ID
pcx-0dff10e3f4d8ef715	vpc-0f81d382244134d99	172.168.0.0/24	N. Virginia (us-east-1)	183631301772 (This account)	vpc-0f8e8773cf53da5d6	172.168.0.0/24	Oregon (us-west-2)	183631301772 (This account)

Accept VPC peering connection request [Info](#) ×

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

Requester VPC vpc-0f81d382244134d99	Accepter VPC vpc-0f8e8773cf53da5d6	Requester CIDRs 172.168.0.0/24
Accepter CIDRs -	Requester Region N. Virginia (us-east-1)	Accepter Region Oregon (us-west-2)
Requester owner ID 183631301772 (This account)	Accepter owner ID 183631301772 (This account)	

Cancel Accept request

Details | DNS | Route tables | Tags

Pending acceptance
You can accept this request at 12:30 PM GMT+5:30 on 10/10/2023.

Updated routes for rtb-0eac44f6c372bd6eb / my-public-RT successfully

Details

VPC > Route tables > rtb-0eac44f6c372bd6eb

rtb-0eac44f6c372bd6eb / my-public-RT

Actions

Details Info

Route table ID
rtb-0eac44f6c372bd6eb

Main
No

Explicit subnet associations
2 subnets

Edge associations
-

VPC
vpc-0f81d382244134d99 | my-vpc-01

Owner ID
183631301772

Routes Subnet associations Edge associations Route propagation Tags

Routes (3)

Filter routes

Both

Edit routes

< 1 > Settings

Search [Alt+S]

Oregon RP learning

Updated routes for rtb-0bd35e46da6abc3b0 successfully

Details

VPC > Route tables > rtb-0bd35e46da6abc3b0

rtb-0bd35e46da6abc3b0

Actions

Details Info

Route table ID
rtb-0bd35e46da6abc3b0

Main
Yes

Explicit subnet associations
-

Edge associations
-

VPC
vpc-0f8e8773cf53da5d6

Owner ID
183631301772

Routes Subnet associations Edge associations Route propagation Tags

Routes (3)

Filter routes

Both

Edit routes

< 1 > Settings

Destination Target Status Propagated

✕ A VPC peering connection **pcx-0dff10e3f4d8ef715 / my-peering** has been requested. Remember to change your region to **us-west-2** to accept the peering connection.

VPC > Peering connections > pcx-0dff10e3f4d8ef715

pcx-0dff10e3f4d8ef715 / my-peering

Actions ▾

Details Info

Requester owner ID 183631301772	Accepter owner ID 183631301772	VPC Peering connection ARN arn:aws:ec2:us-east-1:183631301772:vpc-peering-connection/pcx-0dff10e3f4d8ef715
Peering connection ID pcx-0dff10e3f4d8ef715	Requester VPC vpc-0f81d382244134d99 / my-vpc-01	Accepter VPC vpc-0fbe8773cf53da5d6
Status Initiating Request to 183631301772	Requester CIDRs 172.168.0.0/24	Accepter CIDRs -
Expiration time Tuesday, November 19, 2024 at 16:42:18 GMT+5:30	Requester Region N. Virginia (us-east-1)	Accepter Region Oregon (us-west-2)

DNS | Route tables | Tags

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

✕ Your VPC peering connection (pcx-05787e9f043ef8c9d) has been established. To send and receive traffic across this VPC peering connection, you must add a route to the peered VPC in one or more of your VPC route tables. [Modify my route tables now](#)

Info

Peering connections (2) Info [Refresh](#) [Actions](#) [Create peering connection](#)

Find resources by attribute or tag

	Name	Peering connection ID	Status	Requester VPC	Accepter VPC
<input type="radio"/>	-	pcx-05787e9f043ef8c9d	Provisioning	vpc-03234380b1ff0ae00	vpc-0fb...
<input type="radio"/>	-	pcx-0dff10e3f4d8ef715	Active	vpc-0f81d382244134d99	vpc-0fb...

Select a peering connection above

Edit routes

Destination	Target	Status	Propagated	
172.31.0.0/16	local	Active	No	
<input type="text" value="172.168.0.0/24"/>	<input type="text" value="local"/>			
	Peering Connection	Active	No	<button>Remove</button>
	<input type="text" value="pcx-04ae44c3b0cd18fac"/>			
<input type="text" value="192.168.0.0/24"/>	Peering Connection	Active	No	<button>Remove</button>
	<input type="text" value="pcx-05787e9f043ef8c9d"/>			
<input type="text" value="0.0.0.0/0"/>	Internet Gateway	Active	No	<button>Remove</button>
	<input type="text" value="igw-0186a758c432fbf01"/>			
<button>Add route</button>				

```

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.

VPC > Transit gateways > Create transit 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.

Description [Info](#)

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

Configure the transit gateway

Amazon side Autonomous System Number (ASN) [Info](#)

☒ DNS support [Info](#)

VPC > Endpoints > Create endpoint

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.

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

☒ **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

oard

tw

e cloud

vays

Successfully created VPC endpoint
vpce-00a5b2bbfbf649536

Endpoints (1/1) [Info](#)

Search



Actions

< 1 >



Create endpoint

<input checked="" type="checkbox"/>	Name	VPC endpoint ID	Endpoint type	Status
<input checked="" type="checkbox"/>	my-end-point	vpce-00a5b2bbfbf649536	Interface	Pending