

AWS setup VPC Peering

Wednesday, July 8, 2020 3:28 PM

In this lab I'm a setting up a peering connection

I have setup 2 VPC and 2 EC2 instances. Where each instance is connected to its own VPC.
AMZ1-VPC1

The screenshot displays two sections of the AWS Management Console. The top section, titled "Your VPCs (3)", shows a table of three VPCs. The bottom section, titled "Instances (2)", shows a table of two EC2 instances. Both sections include search filters and a "Select" button.

Your VPCs (3)

<input type="checkbox"/>	Name	VPC ID	State	IPv4 CIDR
<input type="checkbox"/>	-	vpc-04e542f2d9e0ebdba	Available	172.31.0.0/16
<input type="checkbox"/>	VPC1	vpc-067174d47238daf7a	Available	10.0.0.0/16
<input type="checkbox"/>	VPC2	vpc-06bc7299c887272b5	Available	10.1.0.0/16

Select a VPC above

Instances (2)

Instance state: running X Clear filters

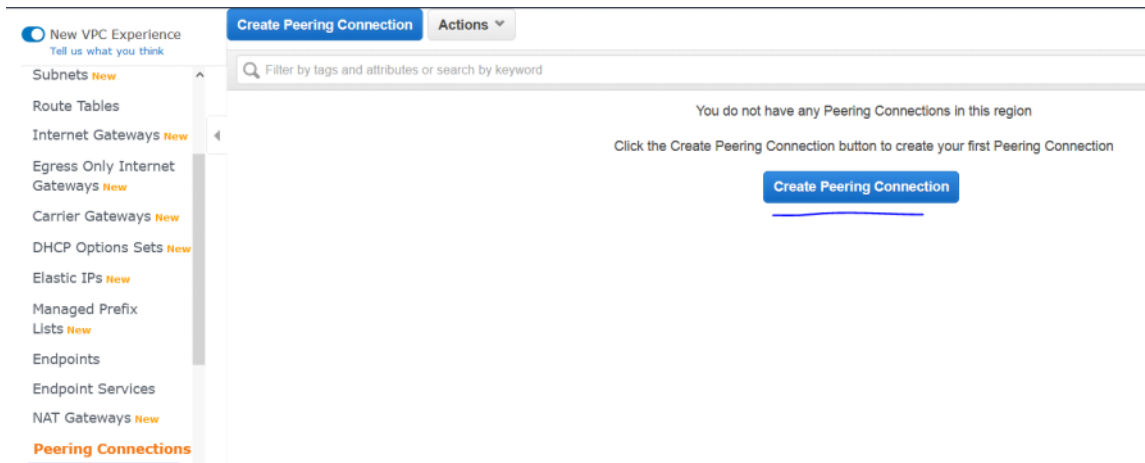
<input type="checkbox"/>	Name	Instance ID	Instance state	Instance type
<input type="checkbox"/>	AMZ1-VPC1	i-055f3007bb2a7b61f	Running	t2.micro
<input type="checkbox"/>	AMZ1-VPC2	i-012487aad01d94f3e	Running	t2.micro

Select an instance above

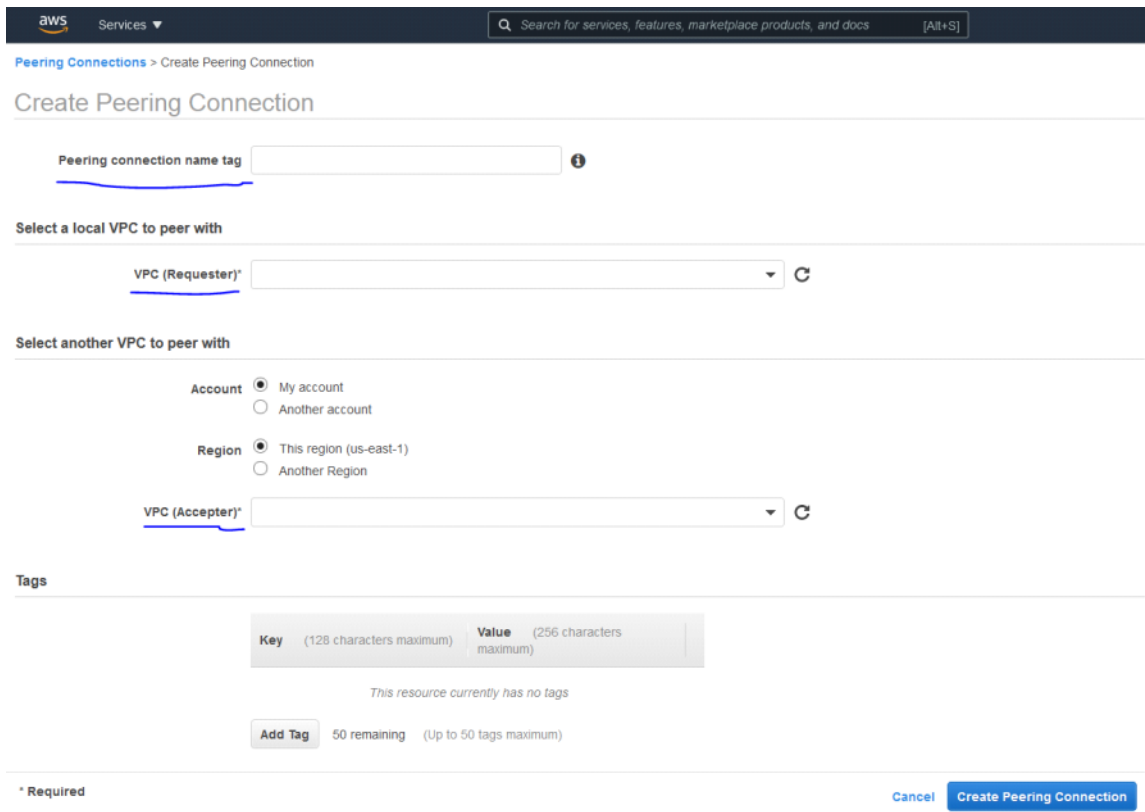
First click on services then select VPC

Under VPC sidebar go to "peering connections"

Click on "Create Peering Connection"



Now if you are following this tutorial set:
Peering Connection Name Tag: My-VPC-Peering
VPC Requester: VPC1
VPC Acceptor: VPC2
Then click "Create Peering Connection"



Create Peering Connection

Peering connection name tag ⓘ

Select a local VPC to peer with

VPC (Requester)* ⓘ

CIDRs	CIDR	Status	Status Reason
	10.0.0.0/16	● associated	

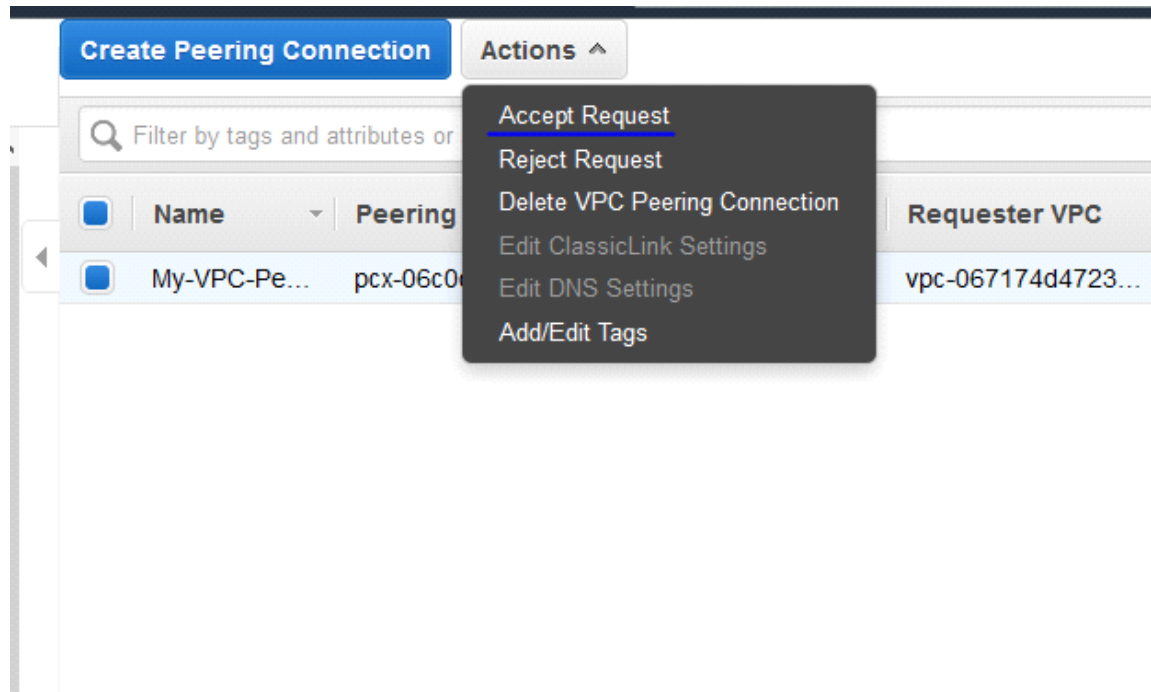
Select another VPC to peer with

- Account My account
 Another account
- Region This region (us-east-1)
 Another Region

VPC (Accepter)* ⓘ

CIDRs	CIDR	Status	Status Reason
	10.1.0.0/16	● associated	

Go to actions accept the request



Create Peering Connection Actions

Filter by tags and attributes or search by keyword

Name	Peering Connecti	Status	Requester VPC	Accepter VPC	Requester CIDRs	Accepter CIDRs	Requester Owner	Accepter Owner
My-VPC-Pe...	pcx-06c0ce87dee...	Active	vpc-067174d4723...	vpc-06bc7299c88...	10.0.0.0/16	10.1.0.0/16	242307434447	242307434447

Go to route tables

New VPC Experience Tell us what you think

Create route table Actions

Filter by tags and attributes or search by keyword

Name	Route Table ID
VPC2-RouteTable1 MainRouteTable	rtb-0de3ea59859826f96
VPC1-RouteTable1 MainRouteTable	rtb-00f10672baeb9e825
	rtb-08a5a3a862f053a8a
	rtb-08e5472d00e7e504b
	rtb-0840168111b7d2367

VPC Dashboard New

Filter by VPC: Select a VPC

VIRTUAL PRIVATE CLOUD

Your VPCs New

Subnets New

Route Tables

Select your VPC1 route table

Go under the route tab, click on "Edit Routes"

Filter by tags and attributes or search by keyword

Name	Route Table ID	Explicit subnet associatio	Edge associations
VPC2-RouteTable1 MainRouteTable	rtb-0de3ea59859826f96	2 subnets	-
VPC1-RouteTable1 MainRouteTable	rtb-00f10672baeb9e825	2 subnets	-
	rtb-08a5a3a862f053a8a	-	-
	rtb-08e5472d00e7e504b	-	-
	rtb-0840168111b7d2367	-	-

Route Table: rtb-00f10672baeb9e825

Summary Routes Subnet Associations Edge Associations Route Propagation Tags

Edit routes

View All routes

Destination	Target
10.0.0.0/16	local
0.0.0.0/0	igw-052c90c6106537a5d

Click add route

Edit routes

Destination	Target	Status	Propagated
10.0.0.0/16	local	active	No
0.0.0.0/0	igw-052c90c6106537a5d	active	No

* Required

Add the IP CIDR for VPC2 and make sure the target set to your "Peering Connection"
Click **save route**

[Route Tables](#) > Edit routes

Edit routes

Destination	Target	Status	Propagated
10.0.0.0/16	local	active	No
0.0.0.0/0	igw-052c90c6106537a5d	active	No
10.1.0.0/16	pcx-06c0ce87dee5e0db7	No	No

* Required

Next follow the same process on VPC1's route table

Filter by tags and attributes or search by keyword

Name	Route Table ID	Explicit subnet associatio	Edge associations	Main	VPC ID	Owner
<input checked="" type="checkbox"/> VPC2-RouteTable1 MainRouteTable	rtb-0de3ea59859826f96	2 subnets	-	No	vpc-06bc7299c887272b5 VPC2	242307434447
<input type="checkbox"/> VPC1-RouteTable1 MainRouteTable	rtb-00f10672baeb9e825	2 subnets	-	No	vpc-067174d47238daf7a VPC1	242307434447
<input type="checkbox"/>	rtb-08a5a3a862f053a8a	-	-	Yes	vpc-04e542f2d9e0ebdba	242307434447
<input type="checkbox"/>	rtb-08e5472900e7e504b	-	-	Yes	vpc-06bc7299c887272b5 VPC2	242307434447
<input type="checkbox"/>	rtb-084016811b7d2367	-	-	Yes	vpc-067174d47238daf7a VPC1	242307434447

Route Table: rtb-0de3ea59859826f96

View:

Destination	Target	Status	Propagated
10.1.0.0/16	local	active	No
0.0.0.0/0	igw-0c5921944297f4e2e	active	No

[Route Tables](#) > Edit routes

Edit routes

Destination	Target	Status	Propagated
10.1.0.0/16	local	active	No
0.0.0.0/0	igw-0c5921944297f4e2e	active	No
10.0.0.0/16	pcx-06c0ce87dee5e0db7	No	No

* Required

Setup is done

Now login to

AMZ1-VPC1 and ping AMZ1-VPC2

And vica versa

Here is AMZ1-VPC1 and ping AMZ1-VPC2

```
[ec2-user@ip-10-1-10-37 ~]$ ping 10.0.10.154
PING 10.0.10.154 (10.0.10.154) 56(84) bytes of data.
64 bytes from 10.0.10.154: icmp_seq=1 ttl=255 time=0.932 ms
64 bytes from 10.0.10.154: icmp_seq=2 ttl=255 time=0.961 ms
64 bytes from 10.0.10.154: icmp_seq=3 ttl=255 time=0.971 ms
^C
--- 10.0.10.154 ping statistics ---
3 packets transmitted, 3 received, 0% packet loss, time 2024ms
rtt min/avg/max/mdev = 0.932/0.954/0.971/0.039 ms
[ec2-user@ip-10-1-10-37 ~]$
```

AMZ1-VPC2 and ping AMZ1-VPC1

```
https://aws.amazon.com/amazon-linux-ami/2017.03-release-notes/
28 package(s) needed for security, out of 71 available
Run "sudo yum update" to apply all updates.
Amazon Linux version 2018.03 is available.
[ec2-user@ip-10-0-10-154 ~]$
[ec2-user@ip-10-0-10-154 ~]$ ping 10.1.10.37
PING 10.1.10.37 (10.1.10.37) 56(84) bytes of data.
64 bytes from 10.1.10.37: icmp_seq=1 ttl=255 time=1.06 ms
64 bytes from 10.1.10.37: icmp_seq=2 ttl=255 time=0.906 ms
64 bytes from 10.1.10.37: icmp_seq=3 ttl=255 time=0.912 ms
^C
--- 10.1.10.37 ping statistics ---
3 packets transmitted, 3 received, 0% packet loss, time 2002ms
rtt min/avg/max/mdev = 0.906/0.962/1.068/0.075 ms
[ec2-user@ip-10-0-10-154 ~]$
```

You are done