

AWS SimuLearn: Connecting VPCs

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Introducción

Descripción:

En esta actividad, vamos a explorar cómo configurar la conectividad entre VPCs en AWS. A través de un ejercicio práctico, aprenderemos a establecer VPC Peering para

optimizar la comunicación entre departamentos en un entorno simulado.

Objetivo:

El objetivo es entender cómo funciona el aislamiento lógico de redes en AWS utilizando VPCs. Configuraremos y probaremos conexiones de VPC Peering, lo que permitirá una comunicación efectiva entre redes privadas. Además, analizaremos las implicaciones de conectar diferentes VPCs dentro de una organización para mejorar la colaboración y la eficiencia operativa.

- Entender cómo funciona el aislamiento de redes en AWS usando VPCs.
- Configurar y probar VPC Peering para conectar redes privadas de forma segura.
- Analizar los efectos de interconectar distintas VPCs en una organización.

Audiencia:

Esta actividad está diseñada para TI, arquitectos cloud y sysadmins que quieran profundizar en redes AWS y llevar sus habilidades al siguiente nivel.

Contexto del Cliente

Ben Hertz, Director de Marketing de la ciudad, nos plantea el desafío de mejorar la conectividad entre los departamentos. Actualmente, cada área (Marketing, Desarrollo y Finanzas) opera sus aplicaciones en VPCs separadas. Aunque esta estructura aporta orden, también genera barreras: los equipos de Marketing y Desarrollo necesitan los reportes financieros para avanzar en su trabajo, pero deben solicitar acceso mediante tickets, lo que ralentiza los procesos y afecta la productividad. Estamos buscando una solución que elimine estos obstáculos y potencie la colaboración entre los equipos.

Solución Propuesta: VPC Peering

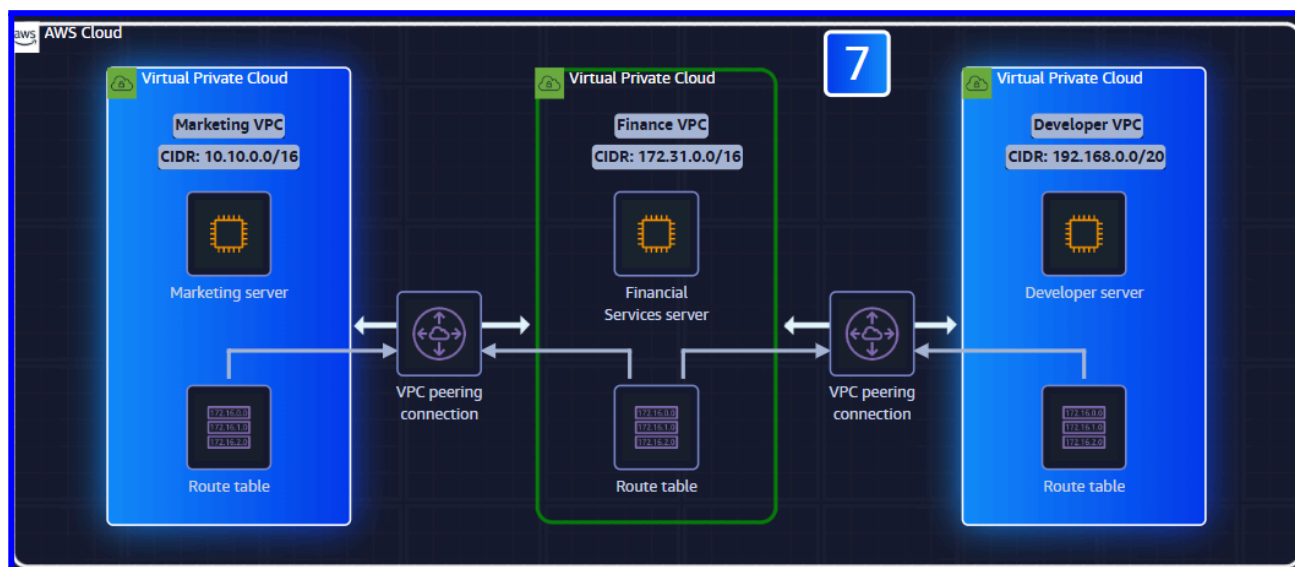
Para resolver las necesidades de conectividad, AWS ofrece VPC Peering, una funcionalidad que permite interconectar redes privadas (VPCs) usando direcciones IP privadas. Esto asegura un acceso directo entre redes sin comprometer la seguridad, ya que los datos no se exponen a Internet.

- Conexión segura y eficiente: Las VPCs pueden comunicarse directamente sin depender de una conexión VPN.
- Limitación en la conectividad: El tráfico no es transitivo. Por ejemplo, si Marketing se conecta a Finanzas, y Desarrollo también se conecta a Finanzas, no habrá

comunicación directa entre Marketing y Desarrollo a menos que se configure una conexión adicional.

- Versatilidad: Permite conectar VPCs dentro de la misma cuenta de AWS o entre diferentes cuentas

Descripción técnica:



En esta imagen vemos la arquitectura de AWS Cloud con tres Virtual Private Clouds (VPCs) independientes, cada una representando un departamento clave: Marketing, Finanzas y Desarrollo.

Cada VPC tiene:

Su propio espacio de direcciones IP privadas (CIDR):

- Marketing: 10.10.0.0/16 (¡un rango amplio para campañas y datos!).
- Finanzas: 172.31.0.0/16 (protegido como una caja fuerte).
- Desarrollo: 192.168.0.0/20 (ideal para entornos flexibles).

Servidores dedicados: Cada VPC tiene sus propios recursos (ej. "Marketing Server", "Financial Services Server").

Tablas de ruteo (Route Tables): Como mapas internos que definen cómo viaja la información dentro de cada VPC.

Procedimiento

Lorem ipsum dolor sit amet consectetur adipiscing elit nam commodo, orci tincidunt ultrices risus viverra mauris vitae neque nullam, tortor arcu integer rutrum fames porta class euismod. Blandit lectus mi mollis purus cras suscipit aptent feugiat eu molestie, sodales pretium cursus fusce himenaeos ac tellus nisl non, quam quis posuere vehicula facilisis neque nulla dictumst quisque. Scelerisque torquent laoreet inceptos erat velit fusce aliquam, risus sodales cras quam posuere non varius imperdiet, tellus mattis mi dui est rutrum.

Observar el entorno

Maecenas orci vestibulum donec mus per phasellus malesuada, fusce aliquet id rutrum integer nunc feugiat, turpis vulputate cum suscipit mauris leo. Accumsan luctus ante duis lacus fringilla gravida, hac rutrum nisl varius sociis, natoque leo curabitur cursus tortor. Nostra laoreet imperdiet aenean enim nec curabitur dis mauris congue rutrum nisl natoque, varius potenti habitasse massa diam aliquam feugiat vestibulum blandit consequat.

Your VPCs (4) Info					
<input type="text" value="Search"/>					
<input type="checkbox"/>	Name	VPC ID	State	Block Public...	IPv4 CIDR
<input type="checkbox"/>	connecting-vpc/Marketing VPC	vpc-0332eaff7be28f32c	✓ Available	⊖ Off	10.10.0.0/16
<input type="checkbox"/>	-	vpc-01fbc0f0b2e856a29	✓ Available	⊖ Off	172.31.0.0/16
<input type="checkbox"/>	connecting-vpc/Developer VPC	vpc-01e68c99c967da622	✓ Available	⊖ Off	192.168.0.0/20
<input type="checkbox"/>	connecting-vpc/Finance VPC	vpc-0dce2a9af953cff45	✓ Available	⊖ Off	172.31.0.0/16

The screenshot shows the AWS Management Console interface. At the top, there's a search bar and navigation tabs. The 'Instances' section is active, showing a list of instances. The 'connecting-vpc/FinanceServer' instance is selected. Below the list, the 'Networking' tab is chosen, displaying various network-related details. Numbered callouts (1-5) are placed over the interface to guide the user through the steps: selecting the instance, navigating to the Networking tab, reviewing the details, copying the Private IPv4 address, and reviewing the Subnet ID.

1. In the Instances section, choose the check box to select the FinanceServer instance.

2. Below that section, click the Networking tab.

3. Review to see that no Public IPv4 address or Public IPv4DNS is populated.

- An instance created in a private subnet has no public addresses.

4. Under Private IPv4 addresses, click the copy icon to copy the provided IP address, and then paste it in the text editor of your choice on your device.

- You use this address in later steps.

5. Under Subnet ID, review the provided ID.

6. Go to the next step.

IP : 172.31.0.22

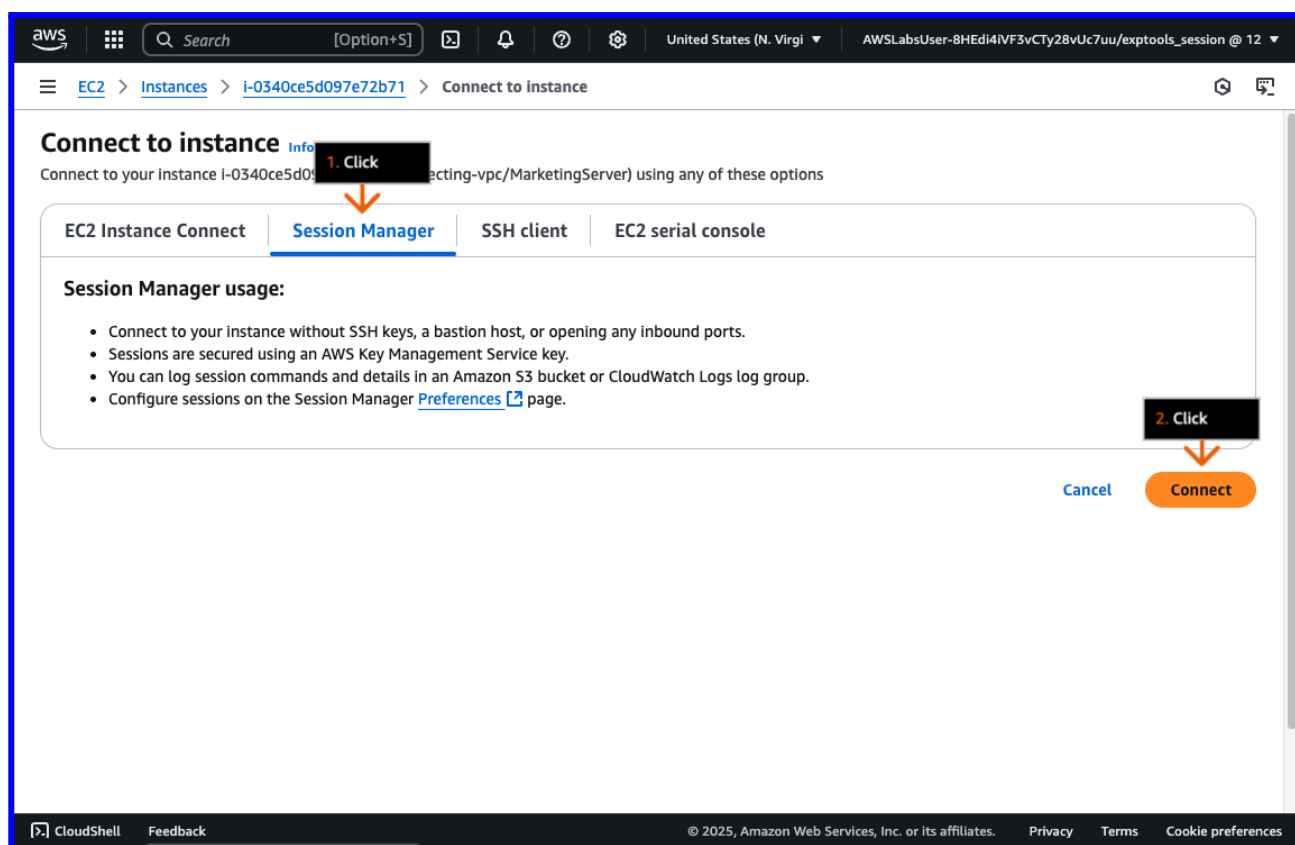
The screenshot shows the AWS Management Console interface. At the top, there's a search bar and navigation tabs. The main section is titled 'Instances (1/3)'. Below this, there's a filter bar showing 'Instance state = running'. A table lists three instances: 'connecting-vpc/FinanceServer', 'connecting-vpc/DeveloperServer', and 'connecting-vpc/MarketingServer'. The 'MarketingServer' instance is selected. Below the table, the 'Networking' tab is active, displaying details like 'Public IPv4 address', 'Private IPv4 addresses', and 'VPC ID'. The VPC ID is 'vpc-02575fda45bf2ac86 (connecting-vpc/Marketing VPC)'. Numbered callouts indicate the steps: 1. Clear the FinanceServer checkbox, 2. Choose the MarketingServer instance, 3. Click the Networking tab, 4. Review the VPC ID, and 5. Click the Connect button.

Instance ID	Instance state	Instance type	Status check	Alarm status
connecting-vpc/FinanceServer I-01f8706775b64d3a6	Running	t3.micro	3/3 checks passed	View alarms
connecting-vpc/DeveloperServer I-0aea88d9cfdd50f95	Running	t3.micro	3/3 checks passed	View alarms
connecting-vpc/MarketingServer I-0340ce5d097e72b71	Running	t3.micro	3/3 checks passed	View alarms

Networking details

Public IPv4 address 54.86.252.89 open address	Private IPv4 addresses 10.10.0.138	VPC ID vpc-02575fda45bf2ac86 (connecting-vpc/Marketing VPC)
Public IPv4 DNS ec2-54-86-252-89.compute-1.amazonaws.com open address	Private IP DNS name (IPv4 only) ip-10-10-0-138.ec2.internal	Secondary private IPv4 addresses -
Subnet ID subnet-00176fc4e73771f1f (connecting-vpc/Marketing VPC)	IPv6 addresses -	

1. In the Instances section, clear the check box to deselect the FinanceServer instance.
2. Choose the MarketingServer instance.
3. Below that section, on the Networking tab, under VPC ID, review the VPC that the MarketingServer instance belongs to.
4. At the top of the Instances section, click Connect.
5. Go to the next step.



1. Click the Session Manager tab.

2. Click Connect.

- The Session Manager terminal for the MarketingServer instance opens in a new browser tab (or window).

3. Go to the next step.

```
sh-5.2$ ping 172.31.0.22
PING 172.31.0.22 (172.31.0.22) 56(84) bytes of data.
^C
--- 172.31.0.22 ping statistics ---
11 packets transmitted, 0 received, 100% packet loss, time 10421ms

sh-5.2$
```

1. In the Session Manager terminal window, replacing the current IP address with the IP address of the FinanceServer that you copied in an earlier step, run (type the

command and press Enter):

ping 172.31.x.xx

- This command checks the connection to the FinanceServer instance.

2. Review to see that your command hangs, and there is no connection. There is no error alert.

- Because the FinanceServer instance uses only a private IP address, VPCs cannot establish routing paths to destinations outside their local private IP range.

3. To exit the running process, on your keyboard, press Ctrl+C.

4. Go to next the step.

The screenshot displays the AWS Management Console interface. At the top, the 'Instances (1/3)' section is visible, with a search bar and filters. The instance list shows three instances: 'FinanceServer', 'DeveloperServer', and 'MarketingServer'. The 'MarketingServer' instance is selected, and its details are shown below. The 'Networking' tab is active, displaying various network-related details. Annotations with arrows point to specific elements: '1. Return' points to the top navigation bar, '2. Review' points to the instance list, and '3. Click' points to the Subnet ID link.

Name	Instance ID	Instance state	Instance type	Status check	Alarm status
connecting-vpc/FinanceServer	i-01f8706775b64d3a6	Running	t3.micro	3/3 checks passed	View alarms
connecting-vpc/DeveloperServer	i-0aea88d9cfdd50f95	Running	t3.micro	3/3 checks passed	View alarms
connecting-vpc/MarketingServer	i-0340ce5d097e72b71	Running	t3.micro	3/3 checks passed	View alarms

i-0340ce5d097e72b71 (connecting-vpc/MarketingServer)

Details | Status and alarms | Monitoring | Security | **Networking** | Storage | Tags

Networking details

Public IPv4 address: 54.86.252.89 | open address

Public IPv4 DNS: ec2-54-86-252-89.compute-1.amazonaws.com | open address

Subnet ID: subnet-00176fc4e73771f1f (connecting-vpc/Marketing VPC/MarketingPublicSubnet1) | **3. Click**

Private IPv4 addresses: 10.10.0.138

Private IP DNS name (IPv4 only): ip-10-10-0-138.ec2.internal

IPv6 addresses: -

VPC ID: vpc-02575fda45bf2ac86 (connecting-vpc/Marketing VPC)

Secondary private IPv4 addresses: -

1. Return to the Amazon EC2 console browser tab.

2. Review to confirm that the MarketingServer instance is still selected.

3. On the Networking tab, under Subnet ID, click the ID for MarketingPublicSubnet1.

4. Go to the next step.

The screenshot shows the AWS Management Console interface for Route Tables. The top navigation bar includes the AWS logo, a search bar, and user information. The main content area is titled 'Route tables (1/1)' and shows a list of route tables. One route table is selected, and its details are shown below. The 'Routes' tab is active, displaying a table of routes.

Destination	Target	Status	Propagated
0.0.0.0/0	igw-0d5c58a3f5662f63a	Active	No
10.10.0.0/16	local	Active	No

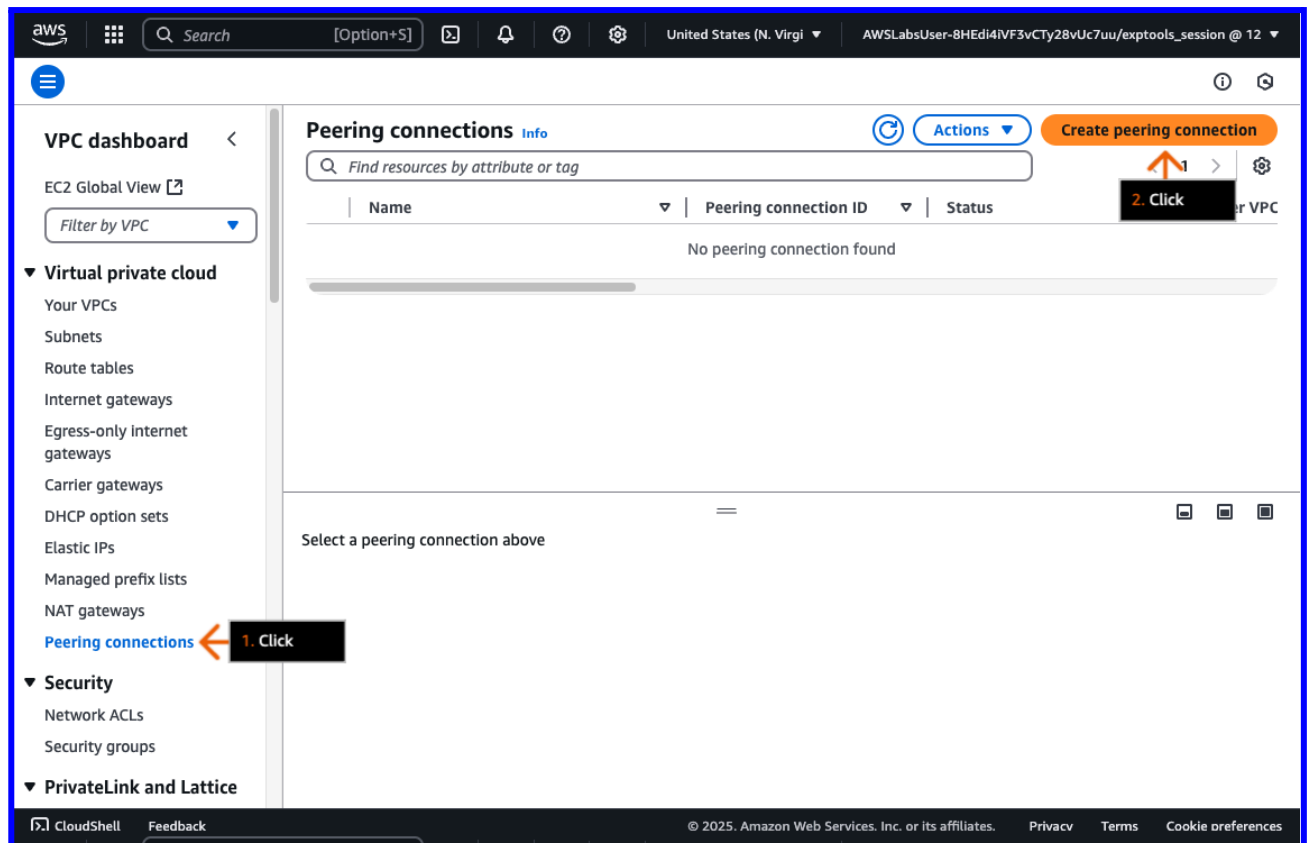
1. In the Route tables section, choose the available Marketing route table.

2. On the Routes tab, review the routing rules.

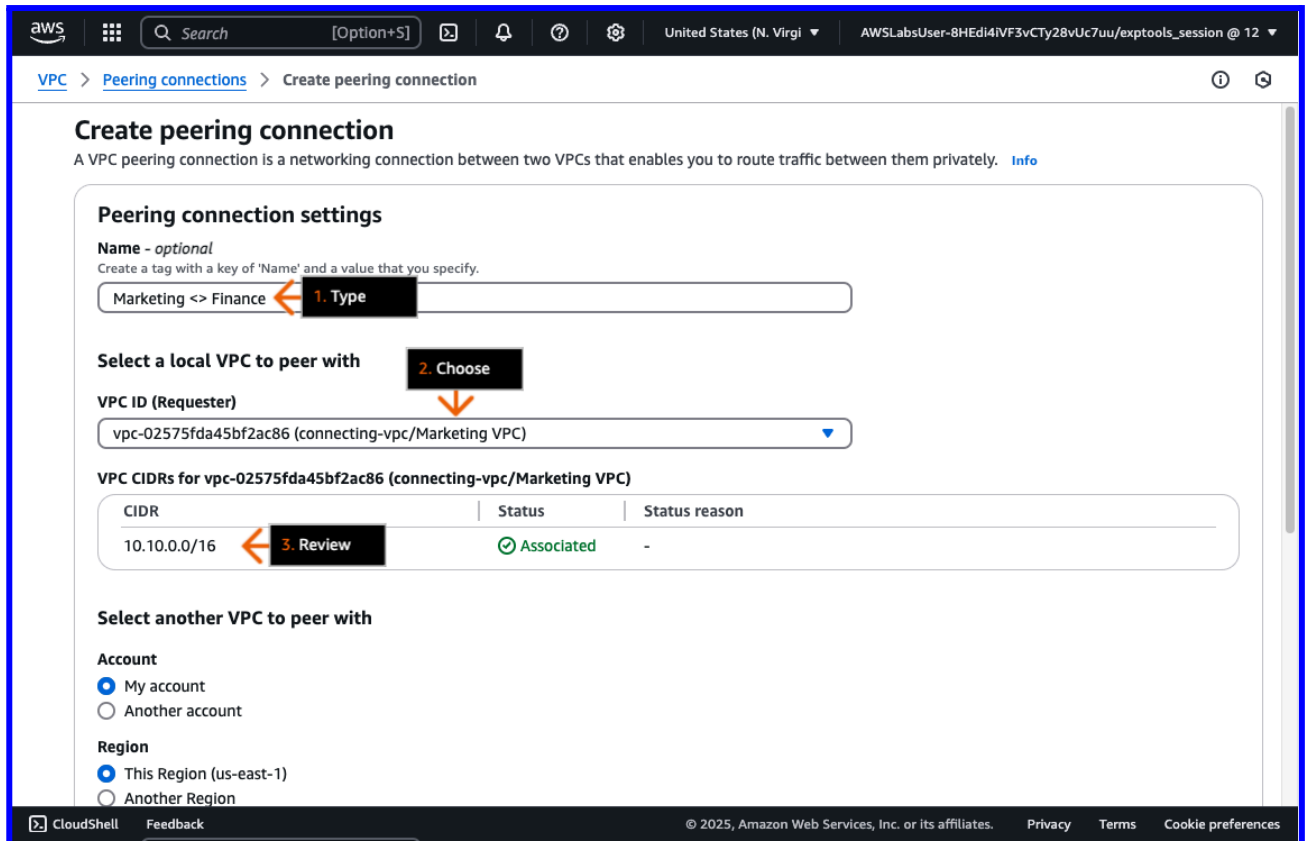
- Two routes should be displayed: one route for local traffic and one route for internet traffic through the internet gateway.

3. Go to the next step.

Target: igw-0e180def4bd9e2cea



1. In the left navigation pane, click Peering connections.
2. In the Peering connections section, click Create peering connection.
3. Go to the next step.



Create peering connection

A VPC peering connection is a networking connection between two VPCs that enables you to route traffic between them privately. [Info](#)

Peering connection settings

Name - optional
Create a tag with a key of 'Name' and a value that you specify.

Marketing <> Finance **1. Type**

Select a local VPC to peer with **2. Choose**

VPC ID (Requester)
vpc-02575fda45bf2ac86 (connecting-vpc/Marketing VPC)

VPC CIDRs for vpc-02575fda45bf2ac86 (connecting-vpc/Marketing VPC)

CIDR	Status	Status reason
10.10.0.0/16 3. Review	Associated	-

Select another VPC to peer with

Account
☒ My account
☐ Another account

Region
☒ This Region (us-east-1)
☐ Another Region

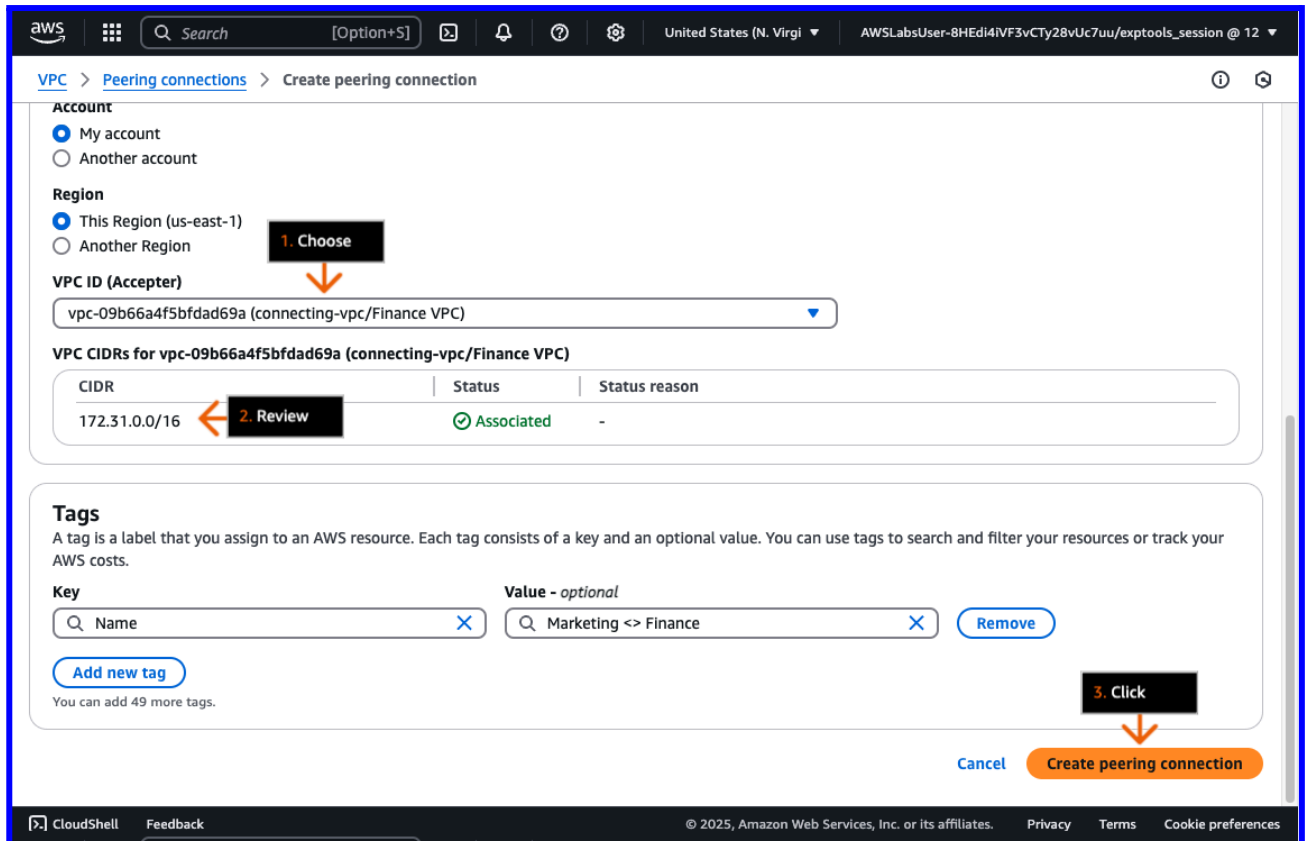
1. In the Peering connection settings section, for Name, type:

Marketing <> Finance

2. For VPC ID (Requester), on the dropdown list, choose the Marketing VPC.

3. For VPC CIDRs, review to confirm that the Marketing VPC has 10.10.0.0/16 as its CIDR range.

4. Go to the next step.



Account

☒ My account
☐ Another account

Region

☒ This Region (us-east-1)
☐ Another Region

VPC ID (Acceptor)

vpc-09b66a4f5bfdad69a (connecting-vpc/Finance VPC)

VPC CIDRs for vpc-09b66a4f5bfdad69a (connecting-vpc/Finance VPC)

CIDR	Status	Status reason
172.31.0.0/16	Associated	-

Tags

A tag is a label that you assign to an AWS resource. Each tag consists of a key and an optional value. You can use tags to search and filter your resources or track your AWS costs.

Key

Q Name X

Value - optional

Q Marketing <-> Finance X Remove

Add new tag

You can add 49 more tags.

Cancel Create peering connection

1. For VPC ID (Acceptor), choose the Finance VPC.
2. For VPC CIDRs, review to confirm that the Finance VPC has 172.31.0.0/16 as its CIDR range.
3. Click Create peering connection.
4. Go to the next step.

The screenshot displays the AWS Management Console interface for a VPC peering connection. At the top, a green banner indicates that a VPC peering connection between 'Marketing' and 'Finance' has been requested. Below this, the connection ID is 'pcx-015bcbfb63d180e7c'. The status is 'Pending acceptance', with a note that the user can accept or reject the request using the 'Actions' menu. The 'Details' section shows the requester and acceptor information, including their IDs, VPC IDs, CIDRs, and regions. The 'Actions' dropdown menu is expanded, showing options to 'Accept request', 'Reject request', 'Edit DNS settings', 'Manage tags', and 'Delete peering connection'. Numbered callouts guide the user through the steps: 1. Review, 2. Review (pointing to the peering connection ID), 3. Click (pointing to the Actions button), and 4. Choose (pointing to the 'Accept request' option).

1. In the success alert, review the message.
2. Under Status, review to confirm that the status is Pending Acceptance.
3. Click Actions to expand the dropdown list.
4. Choose Accept request.
5. Go to the next step.

1. In the pop-up box, click **Accept request**.
2. Go to the next step.

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Edit routes

Destination	Target	Status	Propagated
10.10.0.0/16	local	Active	No
0.0.0.0/0	Internet Gateway	Active	No
172.31.0.0/16	Peering Connection	-	No

Search for Target: pcx-
 Use: "pcx-"
 pcx-015bcbfb63d180e7c (Marketing <=> Finance)

Buttons: Add route, Cancel, Preview, Save changes

Callouts: 1. Click, 2. Type, 3. Choose, 4. Choose, 5. Click

Updated routes for rtb-0abb52f7ac9cba3c2 / connecting-vpc/Marketing VPC/MarketingPublicSubnet1 successfully

rtb-0abb52f7ac9cba3c2 / connecting-vpc/Marketing VPC/MarketingPublicSubnet1

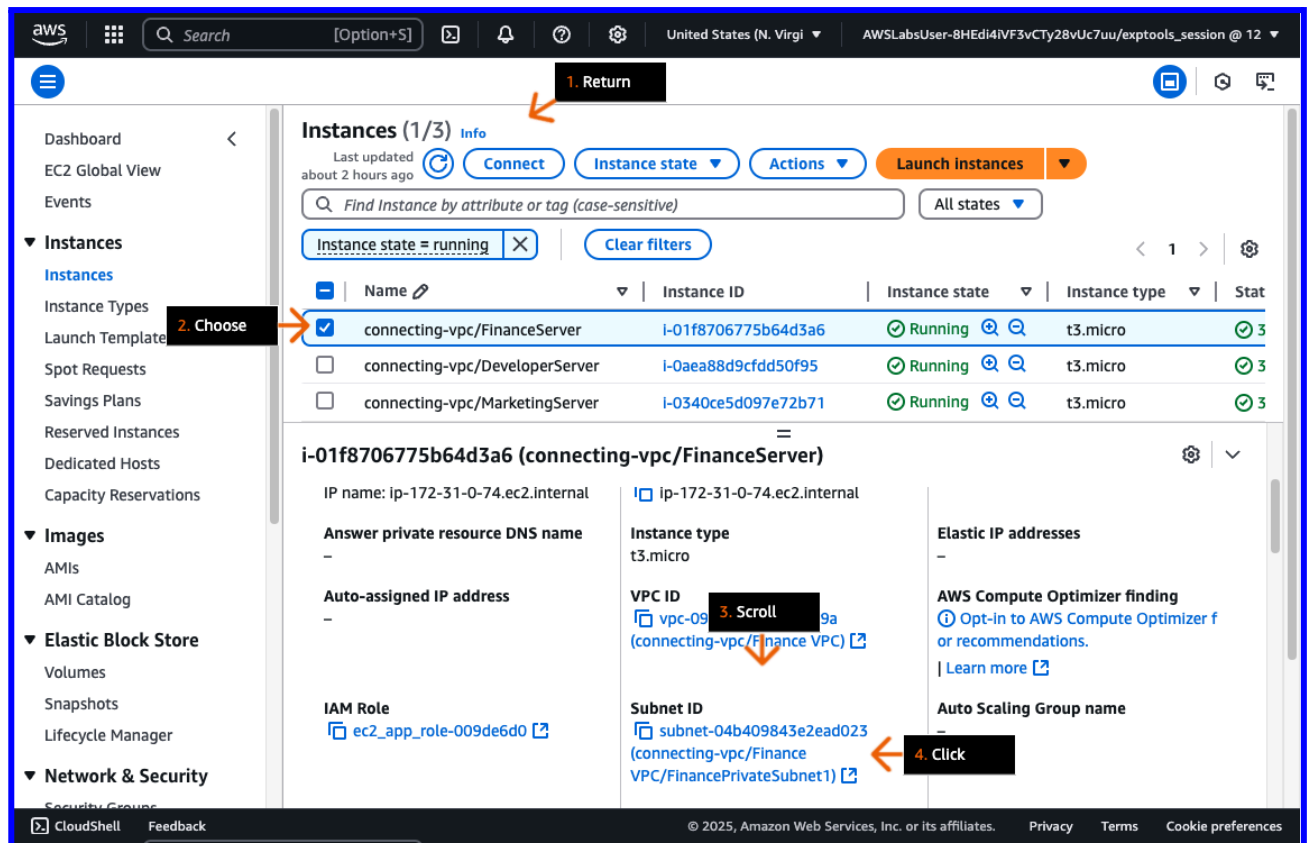
Details

Route table ID rtb-0abb52f7ac9cba3c2	Main No	Explicit subnet associations subnet-00176fc4e73771f1f / connecting-vpc/Marketing VPC/MarketingPublicSubnet1	Edge associations -
VPC vpc-02575fda45bf2ac86 connecting-vpc/Marketing VPC	Owner ID 127114217525		

Routes (3)

Destination	Target	Status	Propagated
0.0.0.0/0	igw-0d5c58a3f5662f63a	Active	No
10.10.0.0/16	local	Active	No
172.31.0.0/16	pcx-015bcbfb63d180e7c	Active	No

Callouts: 1. Review, 2. Review



Instances (1/3) Info
 Last updated about 2 hours ago

Find Instance by attribute or tag (case-sensitive)

Instance state = running

Name	Instance ID	Instance state	Instance type	Stat
connecting-vpc/FinanceServer	i-01f8706775b64d3a6	Running	t3.micro	3
connecting-vpc/DeveloperServer	i-0aea88d9cfd50f95	Running	t3.micro	3
connecting-vpc/MarketingServer	i-0340ce5d097e72b71	Running	t3.micro	3

i-01f8706775b64d3a6 (connecting-vpc/FinanceServer)

IP name: ip-172-31-0-74.ec2.internal

Answer private resource DNS name

Auto-assigned IP address

IAM Role: ec2_app_role-009de6d0

Instance type: t3.micro

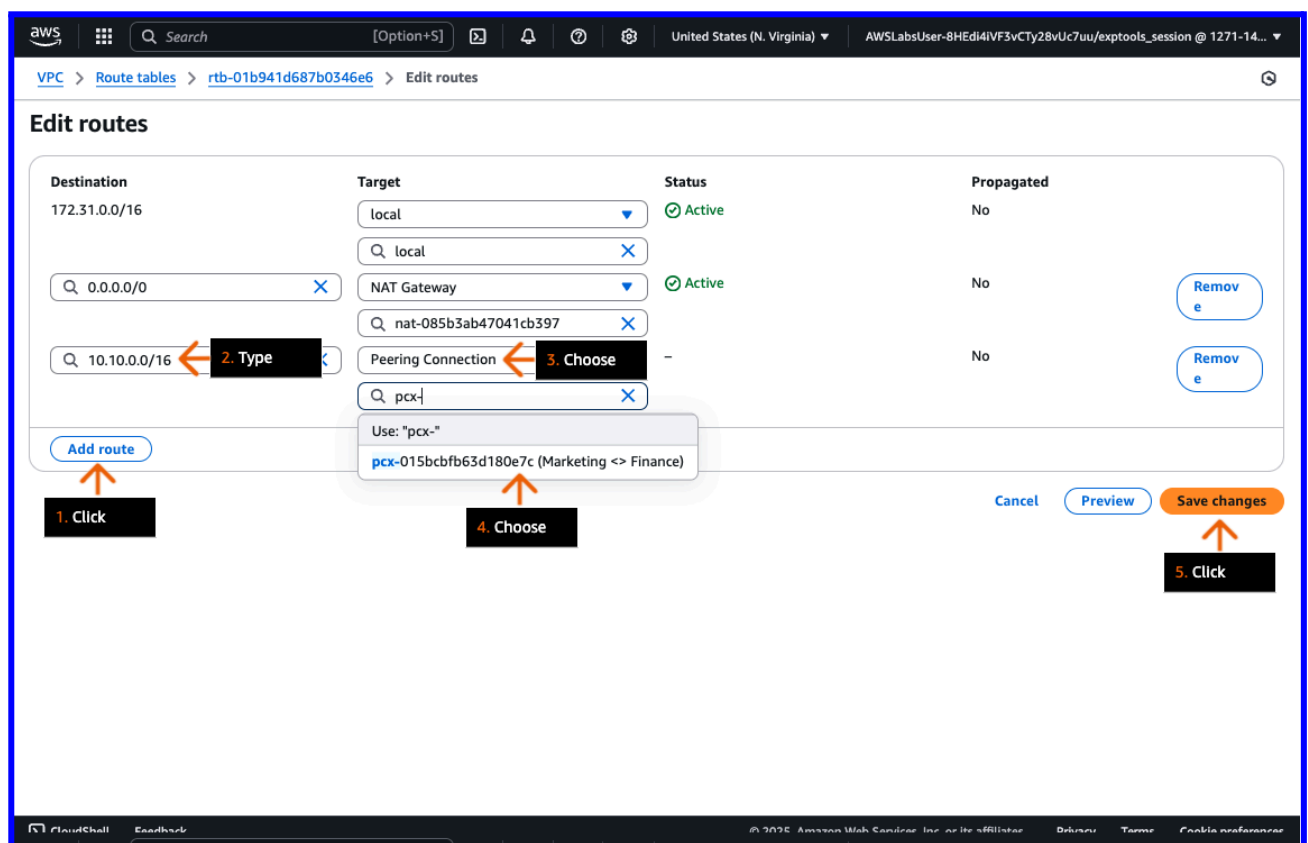
VPC ID: vpc-09...9a (connecting-vpc/Finance VPC)

Subnet ID: subnet-04b409843e2ead023 (connecting-vpc/Finance VPC/FinancePrivateSubnet1)

Elastic IP addresses

AWS Compute Optimizer finding: Opt-in to AWS Compute Optimizer f or recommendations. | Learn more

Auto Scaling Group name



Edit routes

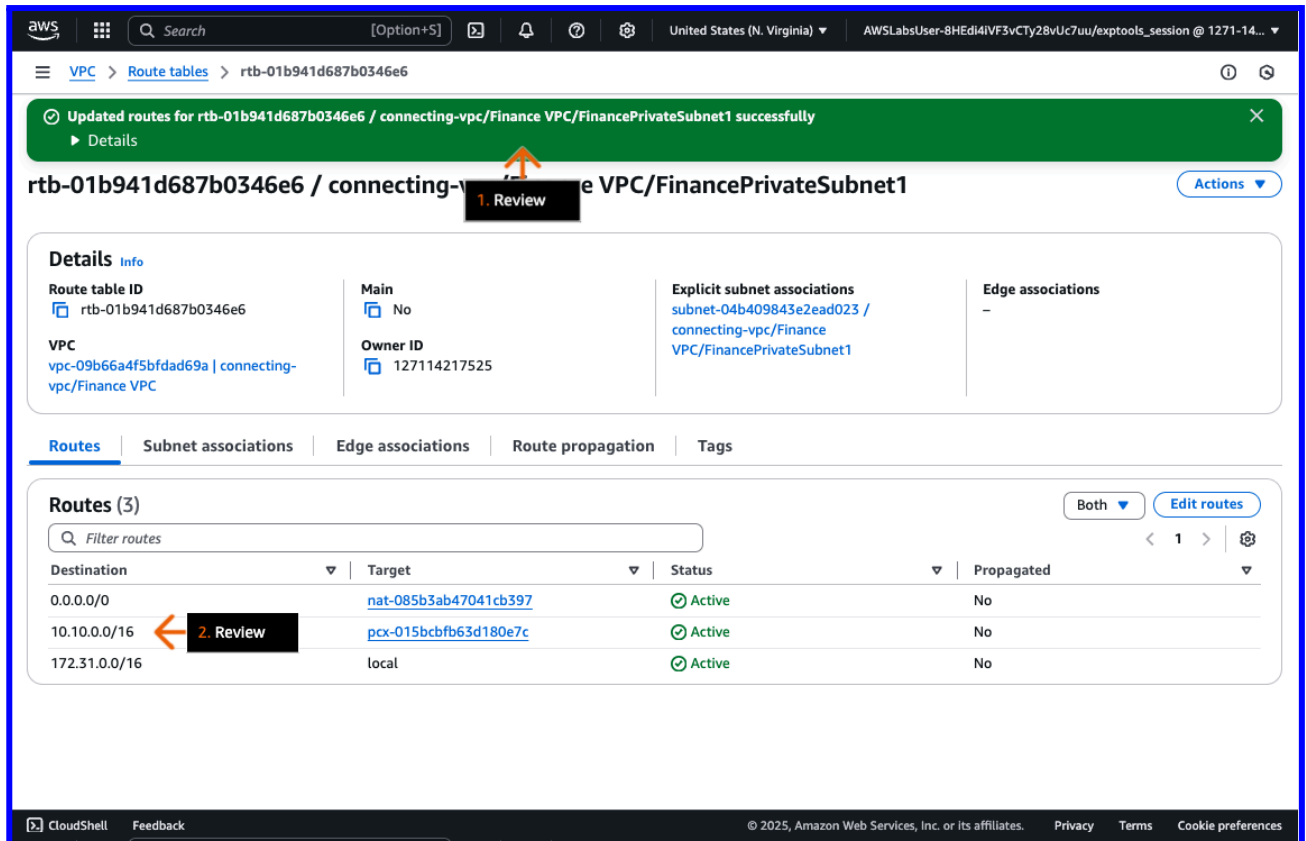
Destination	Target	Status	Propagated
172.31.0.0/16	local	Active	No
0.0.0.0/0	NAT Gateway	Active	No
10.10.0.0/16	Peering Connection	-	No

Add route

Use: "pcx-"

pcx-015bcbfb63d180e7c (Marketing <> Finance)

Save changes



Updated routes for rtb-01b941d687b0346e6 / connecting-vpc/Finance VPC/FinancePrivateSubnet1 successfully

rtb-01b941d687b0346e6 / connecting-vpc/Finance VPC/FinancePrivateSubnet1

Details

Route table ID: rtb-01b941d687b0346e6

VPC: vpc-09b66a4f5bfdad69a | connecting-vpc/Finance VPC

Main: No

Owner ID: 127114217525

Explicit subnet associations: subnet-04b409843e2ead023 / connecting-vpc/Finance VPC/FinancePrivateSubnet1

Edge associations: -

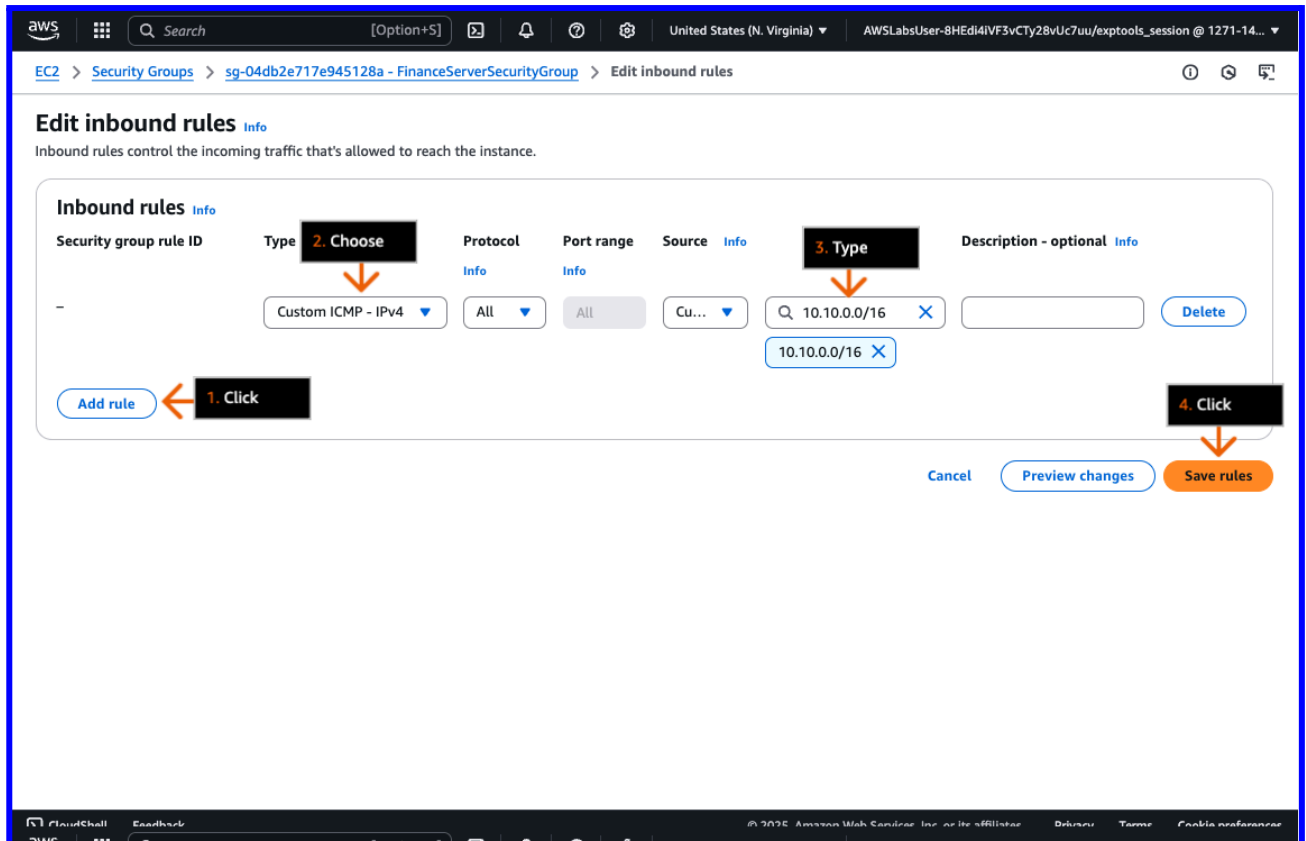
Routes (3)

Destination	Target	Status	Propagated
0.0.0.0/0	nat-085b3ab47041cb397	Active	No
10.10.0.0/16	pcx-015bcbfb63d180e7c	Active	No
172.31.0.0/16	local	Active	No

Probamos nuevamente la conexión:

```
sh-5.2$ ping 172.31.0.22
PING 172.31.0.22 (172.31.0.22) 56(84) bytes of data.
^C
--- 172.31.0.22 ping statistics ---
5 packets transmitted, 0 received, 100% packet loss, time 4136ms
```

Security Group



Probamos:

```
sh-5.2$ ping -c3 172.31.0.22
PING 172.31.0.22 (172.31.0.22) 56(84) bytes of data.
64 bytes from 172.31.0.22: icmp_seq=1 ttl=127 time=0.358 ms
64 bytes from 172.31.0.22: icmp_seq=2 ttl=127 time=0.343 ms
64 bytes from 172.31.0.22: icmp_seq=3 ttl=127 time=0.350 ms

--- 172.31.0.22 ping statistics ---
3 packets transmitted, 3 received, 0% packet loss, time 2082ms
rtt min/avg/max/mdev = 0.343/0.350/0.358/0.006 ms
sh-5.2$
```

Validation Form

1. Developer instance ID

i-09843c9c6942c7a49

2. Finance instance ID

i-04f14753e62be97ab

Validation result

Titol 3

Lorem ipsum dolor sit amet consectetur adipiscing elit nam commodo, orci tincidunt ultrices risus viverra mauris vitae neque nullam, tortor arcu integer rutrum fames porta class euismod. Blandit lectus mi mollis purus cras suscipit aptent feugiat eu molestie, sodales pretium cursus fusce himenaeos ac tellus nisl non, quam quis posuere vehicula facilisis neque nulla dictumst quisque. Scelerisque torquent laoreet inceptos erat velit fusce aliquam, risus sodales cras quam posuere non varius imperdiet, tellus mattis mi dui est rutrum.

Títol 4

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Evaluación de la Actividad

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posuere vehicula facilisis neque nulla dictumst quisque. Scelerisque torquent laoreet inceptos erat velit fusce aliquam, risus sodales cras quam posuere non varius imperdiet, tellus mattis mi dui est rutrum.

Títol 2

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Titol 3

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Títol 4

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Glorario

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Referencias

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