



Systems in the Cloud

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Introducción

Descripción:

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.

Titol 3

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Títol 4

Descripción técnica:

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Objetivo:	
Audiencia:	
Contexto del Cliente	
Solución Propuesta: VPC Peering	





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Títol 2

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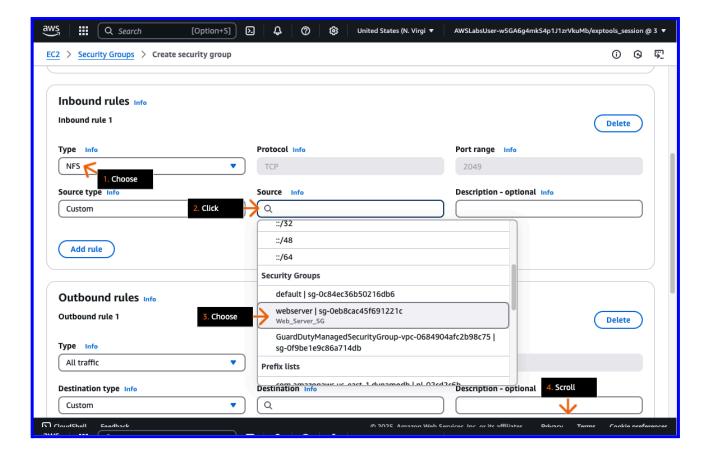
Títol 4

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.

Procedimiento



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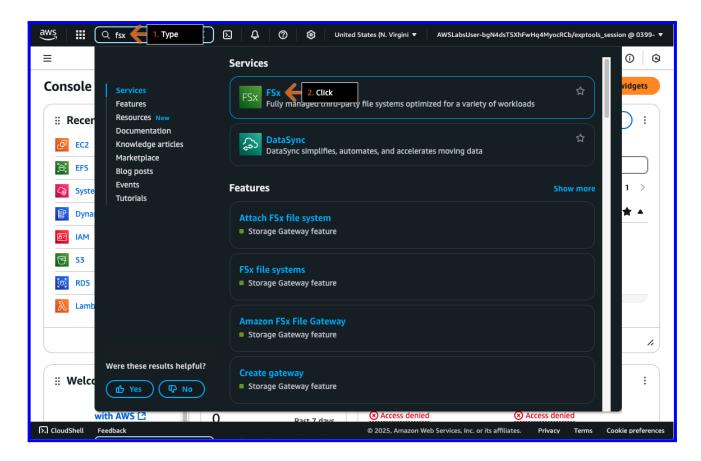


Paso 1

Que es EFX?



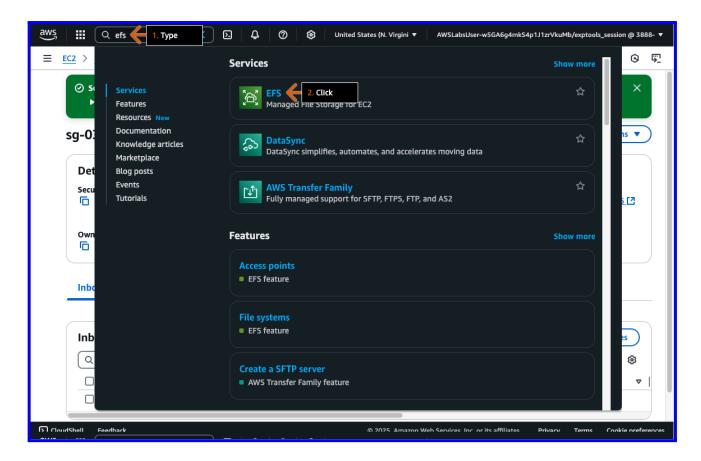




Que es EFS?







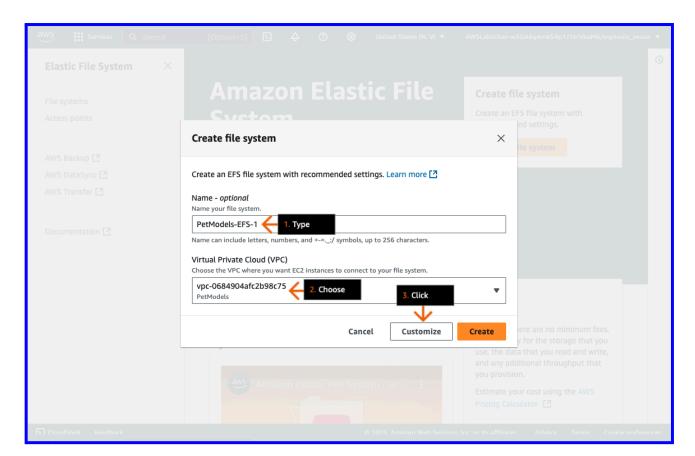
Diferencia entre FSX y EFS?

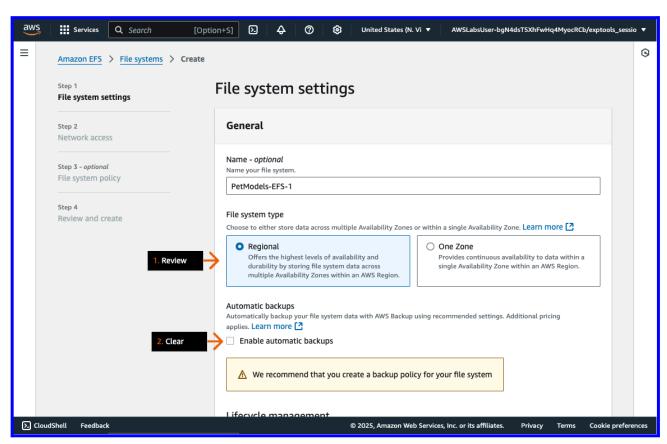
Paso 2

Creación de una EFS?



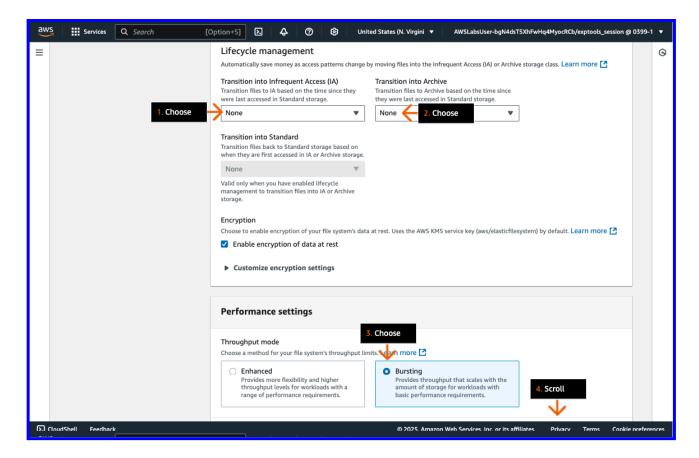
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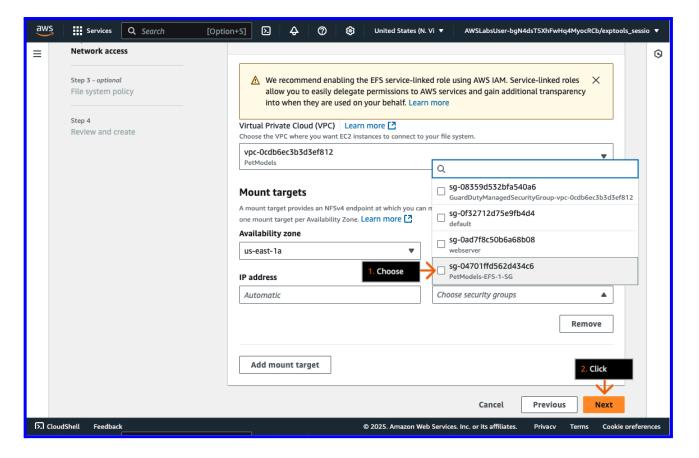
- 1. Under Lifecycle management, for Transition into Infrequent Access (IA), choose None.
- Infrequent Access storage class is designed for storing long-lived, infrequently accessed files in a cost-effective manner.
- 2. For Transition into Archive. choose None.
- The Archive storage class is designed for data that is accessed very infrequently only a few times per year or less.
- 3. For Throughput mode, choose Bursting.
- 4. Scroll down to the bottom of the page, and then click Next (not shown).
- 5. Go to the next step.



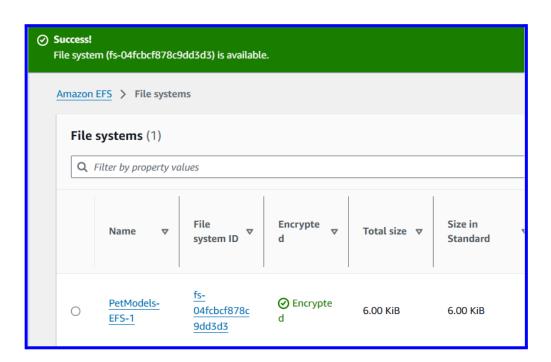
Generalitat de Catalunya
Ajuntament de Barcelona

Carla Cuélla



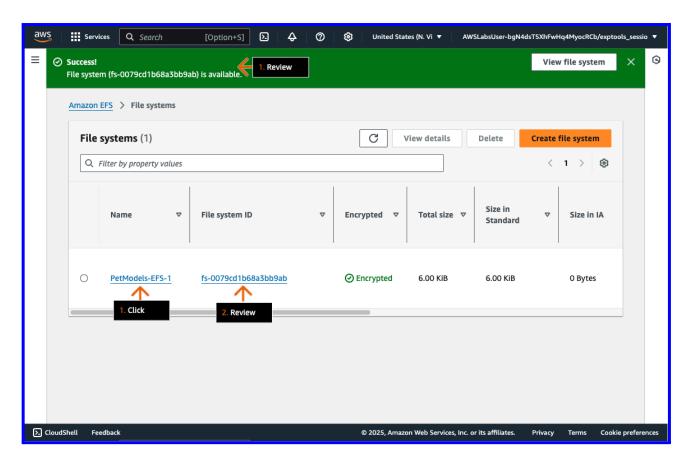


next → CREATE





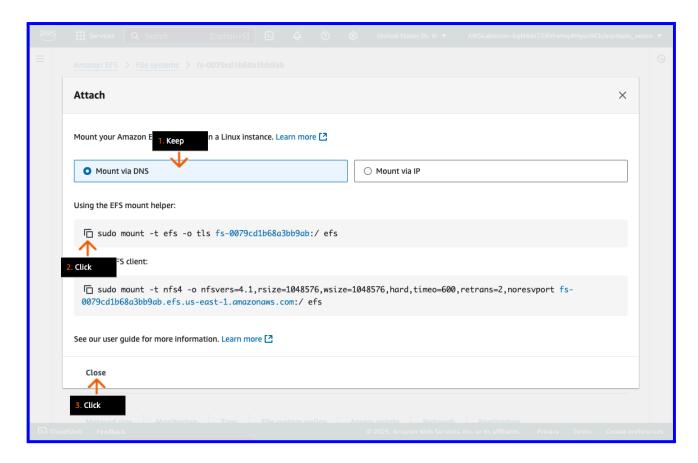
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Copiamos el ENDPOINT de la EFS como identificador.



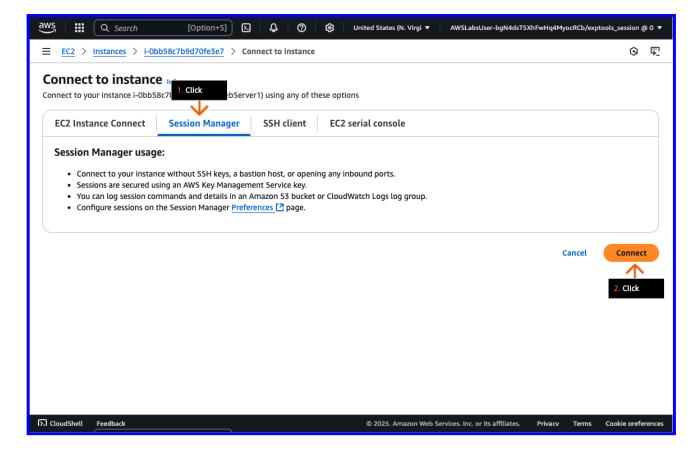




Paso 3







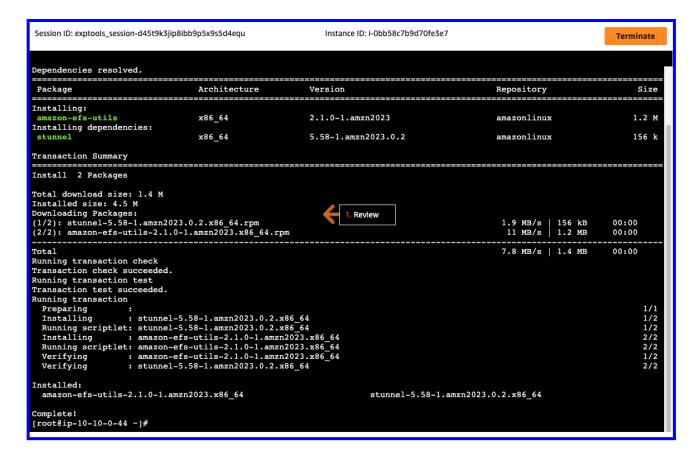
- 1. Click the Session Manager tab.
- 2. Click Connect.
- The Session Manager terminal opens in a new browser tab (or window). Keep the current browser tab open.
- 3. Go to the next step.

Session ID: 80ca1c9f-5fbc-4d52-bac5- Instance ID: i-04f9ae1c5ec8fd2b1 6cb82fd90033-yyrklgtsvb6ns2velnnhiodl34

sh-5.2\$ sudo -i [root@ip-10-10-0-34 ~]#







1. In the terminal, at the command prompt, run (type the command and press Enter):

sudo -i

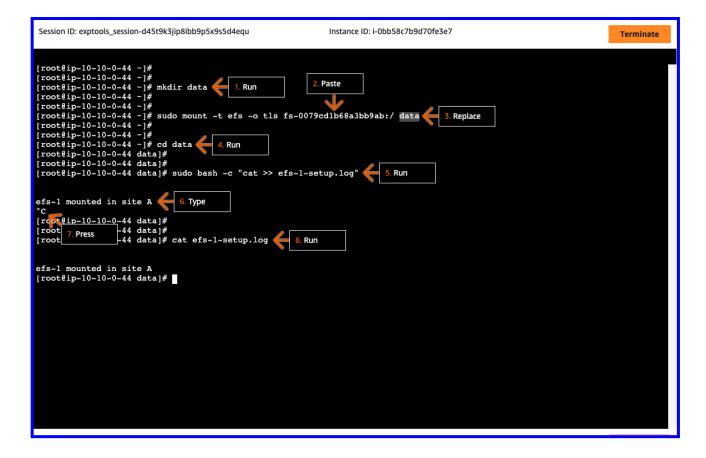
2. In the terminal, run:

sudo yum install -y amazon-efs-utils

- You can also copy-paste this text. If you receive an undefined value when you paste this, try again.
- 3. Go to the next step.



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- In this step, you use Linux commands to create a data directory. You then mount the newly created EFS file system to that directory. You create a log file and append information to it. The log file and its contents are visible from other instances that have the same file system mounted.
- 1. In the terminal, run:

mkdir data

- If you receive a Permission Denied alert, run the following command, and then repeat the previous command:

cd ~/

- 2. In the terminal, paste the sudo mount command that you copied from the Amazon EFS console in an earlier step.
- 3. At the end of the pasted command, replace the "efs" folder name with "data" (without quotes) and press Enter.





- The command should look similar to what is displayed in the screenshot example.
- 4. In the terminal, run:

cd data

5. To create a log file, run:

sudo bash -c "cat >> efs-1-setup.log"

- No output is displayed. Instead, the cursor moves to a new line and waits for your next input.
- 6. In the terminal, type:

efs-1 mounted in site A

- 7. To end the cat session, on your keyboard, press Ctrl+C.
- 8. To view the log file contents, run:

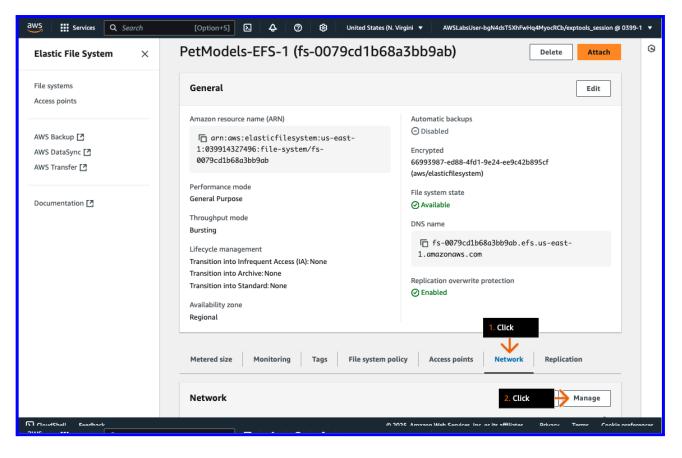
cat efs-1-setup.log

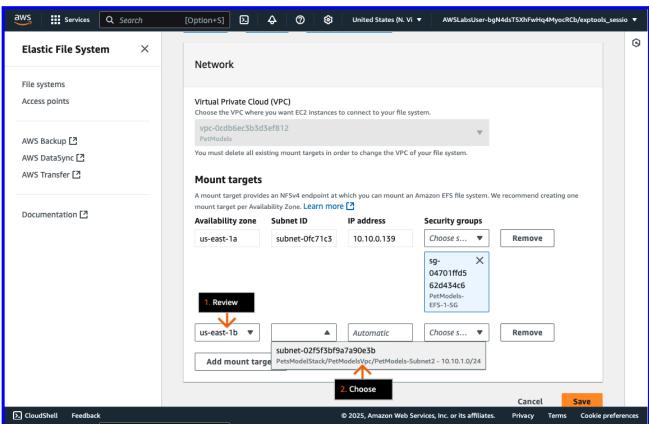
9. Go to the next step.

```
[root@ip-10-10-0-34 data]# sudo bash -c "cat >> efs-1-setup.log"
efs-1 mounted in site A
^C
[root@ip-10-10-0-34 data]# cat efs-1-setup.log
efs-1 mounted in site A
```



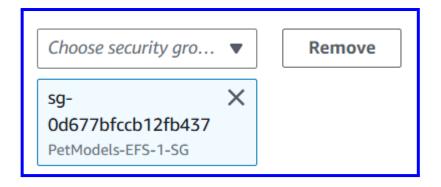
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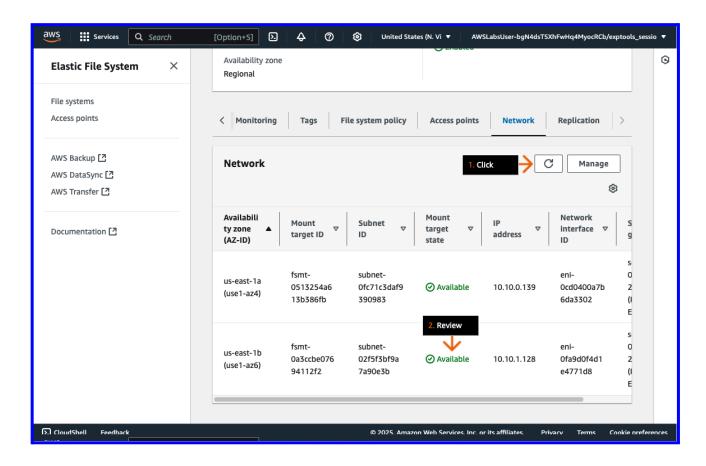


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- 1. For Security groups, choose PetModels-EFS-1-SG.
- 2. Click Save.
- If the "User is not authorized to perform that action on the specified resource" error alert appears, you can safely ignore it.
- 3. Go to the next step.

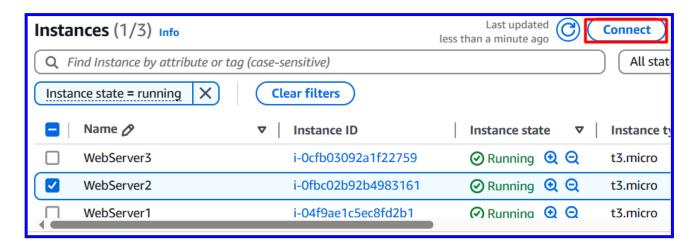
Verificar







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- 1. After a few minutes, on the Network tab, click the refresh icon.
- 2. For the new mount target, under Mount target state, review to confirm that the state is Available.
- Wait for the state to change before proceeding.
- 3. Go to the next step.



Session Manager

Realizamos los mismos pasos de lo que hicimos en el WebServerl montamos el efs en las instancias.

```
[root@ip-10-10-1-181 ~]# sudo bash -c "cat >> efs-1-setup.log"
efs-1 mounted in site B
^C
[root@ip-10-10-1-181 ~]# cat efs-1-setup.log
efs-1 mounted in site A
efs-1 mounted in site B
```

DIY Goals

Mount an EFS endpoint to a third EC2 instance.

Test that the files are accessible from the EC2 instance.

Ahora nos conectamos a la WebServer3 con session manager y ejecutamos los siguientes comandos para montar la EFS:

sudo -i





sudo yum install -y amazon-efs-utils

```
sh-5.2$ sudo -i
[root@ip-10-10-2-83 \sim]# sudo yum install -y amazon-efs-utils
Last metadata expiration check: 0:59:08 ago on Mon Apr 7 07:15:41 2025.
Dependencies resolved.
Package
                                                                           Version
                                           Architecture
Installing:
amazon-efs-utils
                                           x86 64
                                                                           2.2.1-1.amzn202
Installing dependencies:
stunnel
                                           x86 64
                                                                           5.58-1.amzn2023
Transaction Summary
Install 2 Packages
Total download size: 1.3 M
Installed size: 4.2 M
Downloading Packages:
(1/2): stunnel-5.58-1.amzn2023.0.2.x86 64.rpm
(2/2): amazon-efs-utils-2.2.1-1.amzn2023.x86 64.rpm
Total
Running transaction check
Transaction check succeeded.
Running transaction test
Transaction test succeeded.
Running transaction
 Preparing
                 : stunnel-5.58-1.amzn2023.0.2.x86 64
 Installing
 Running scriptlet: stunnel-5.58-1.amzn2023.0.2.x86 64
               : amazon-efs-utils-2.2.1-1.amzn2023.x86 64
 Running scriptlet: amazon-efs-utils-2.2.1-1.amzn2023.x86 64
                 : amazon-efs-utils-2.2.1-1.amzn2023.x86_64
 Verifying
 Verifying
                  : stunnel-5.58-1.amzn2023.0.2.x86_64
Installed:
 amazon-efs-utils-2.2.1-1.amzn2023.x86_64
                                                                                        stu
Complete!
```

```
[root@ip-10-10-2-83 ~] # sudo mount -t efs -o tls fs-04fcbcf878c9dd3d3:/ data
Failed to resolve "fs-04fcbcf878c9dd3d3.efs.us-east-1.amazonaws.com" - check that your file sy
this file system ID.
See https://docs.aws.amazon.com/console/efs/mount-dns-name for more detail.
Attempting to lookup mount target ip address using botocore. Failed to import necessary depend
[root@ip-10-10-2-83 ~]#
```

Parece que estás intentando montar un sistema de archivos EFS en una instancia EC2, pero estás encontrando un error relacionado con la resolución del ID del sistema de archivos y la falta de la dependencia botocore.

Verifica que el ID del sistema de archivos es correcto





Asegúrate de que fs-04fcbcf878c9dd3d3 es el ID correcto de tu sistema de archivos EFS en la región us-east-1. Puedes comprobarlo en la consola de AWS en la sección de Amazon EFS.

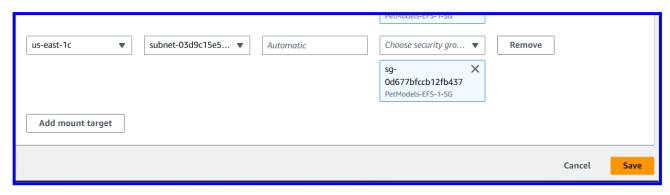
Comprueba si hay un punto de montaje disponible en tu VPC

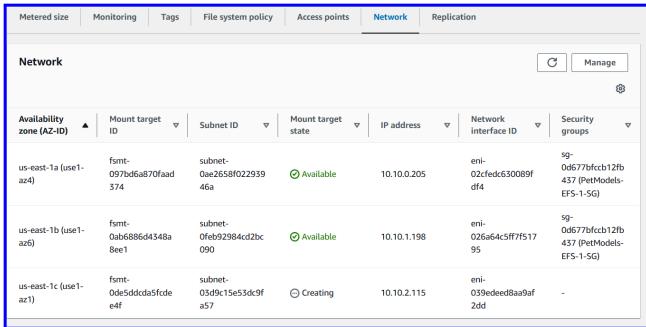
Ve a la consola de AWS.

Navega a EFS > Tu sistema de archivos.

En la pestaña Network, asegúrate de que existe al menos un Mount Target en la misma VPC y subred que tu instancia EC2.

MOUNT TARGET









Availability zone (AZ-ID)	Mount target □ ID	Subnet ID ▽	Mount target state ▼	IP address ▼	Network interface ID ▼	Security groups ▽
us-east-1a (use1- az4)	fsmt- 097bd6a870faad 374	subnet- 0ae2658f022939 46a	⊘ Available	10.10.0.205	eni- 02cfedc630089f df4	sg- 0d677bfccb12fb 437 (PetModels- EFS-1-SG)
us-east-1b (use1- az6)	fsmt- Oab6886d4348a 8ee1	subnet- 0feb92984cd2bc 090	⊘ Available	10.10.1.198	eni- 026a64c5ff7f517 95	sg- 0d677bfccb12fb 437 (PetModels- EFS-1-SG)
us-east-1c (use1- az1)	fsmt- Ode5ddcda5fcde e4f	subnet- 03d9c15e53dc9f a57	⊘ Available	10.10.2.115	eni- 039edeed8aa9af 2dd	sg- 0d677bfccb12fb 437 (PetModels- EFS-1-SG)

Volvemos a ejecutar mount | grep data

Evaluación de la Actividad

arius potenti habitasse massa diam aliquam feugiat vestibulum blandit consequat.

Glorario

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Títol 2

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Titol 3

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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

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.

Referencias

https://explore.skillbuilder.aws/learn/courses/20091/aws-simulearn-file-systems-in-the-cloud/lesson s/144860/start-aws-simulearn