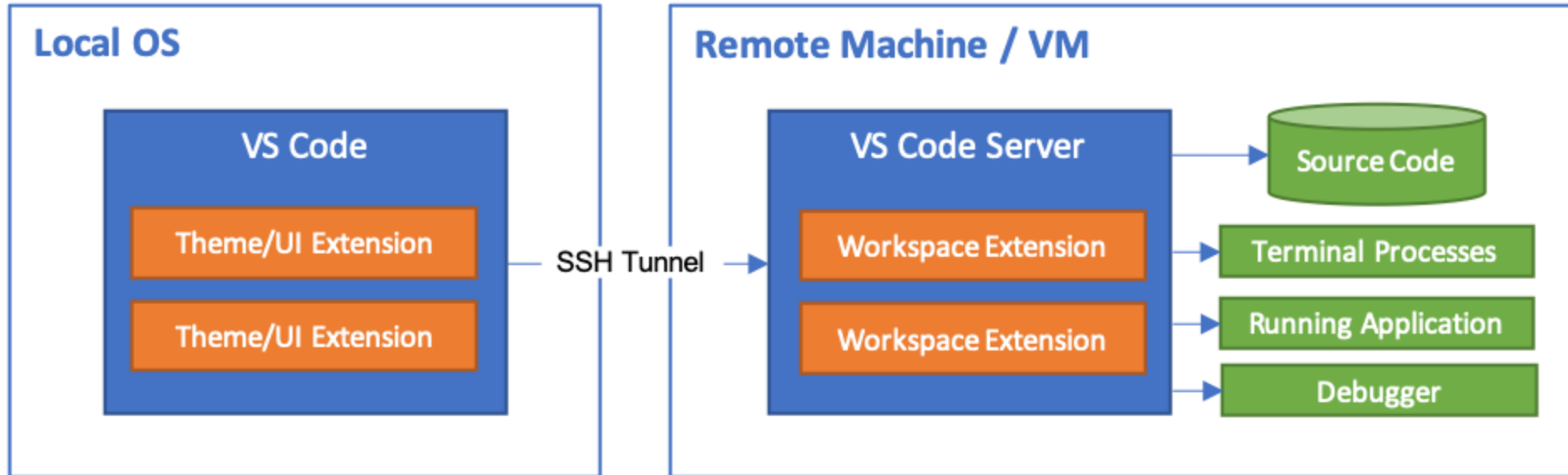


# Desarrollo en remoto con vscode y SSH

- Como habéis visto desarrollar desde la terminal puede ser tedioso.
- vscode tiene una extensión llamada Remote - SSH que nos permite trabajar con nuestro vscode dentro de la máquina EC2.



- <https://code.visualstudio.com/docs/remote/ssh>

Los pasos para conectar nuestro Code a la máquina EC2 son los siguientes:

- Creamos una nueva instancia de EC2.

| Instances (1/2) <a href="#">Info</a>          |               |                     |                  | Connect         | Instance state ▼  | Actions ▼    | Launch Instances    | ▼     |
|---|---------------|---------------------|------------------|-----------------|-------------------|--------------|---------------------|-------|
| <input type="text" value="Filter instances"/> |               |                     |                  |                 |                   |              |                     | < 1 > |
|   | Name ▼        | Instance ID         | Instance state ▼ | Instance type ▼ | Status check      | Alarm status | Availability Zone ▼ |       |
| <input type="checkbox"/>                      | linux-machine | i-0b13d1204abb3a7ab | Running          | t2.micro        | 2/2 checks passed | No alarms +  | eu-west-3c          |       |
| <input checked="" type="checkbox"/>           | -             | i-035ea7861c8c38e6d | Running          | t2.micro        | 2/2 checks passed | No alarms +  | eu-west-3b          |       |

### Instance: i-035ea7861c8c38e6d

| Details   | Security | Networking   | Storage | Status checks  | Monitoring | Tags |
|---|----------|--|---------|--|------------|------|
| ▼ Instance summary <a href="#">Info</a>                         |          |  |         |  |            |      |
| Instance ID<br>i-035ea7861c8c38e6d                              |          | Public IPv4 address<br>15.188.185.255   <a href="#">open address</a>   |         | Private IPv4 addresses<br>172.31.16.151  |            |      |
| IPv6 address<br>-   |          | Instance state<br>Running  |         | Public IPv4 DNS<br>ec2-15-188-185-255.eu-west-3.compute.amazonaws.com   <a href="#">open address</a> |            |      |
| Private IPv4 DNS<br>ip-172-31-16-151.eu-west-3.compute.internal |          | Instance type<br>t2.micro  |         | Elastic IP addresses<br>-  |            |      |
| VPC ID<br>vpc-7e15c216  |          | AWS Compute Optimizer finding<br>Opt-in to AWS Compute Optimizer for recommendations.   <a href="#">Learn more</a> |         | IAM Role<br>-  |            |      |

- Es importante que tengamos habilitado el puerto 22 (SSH) desde nuestra ip.

### Step 6: Configure Security Group

A security group is a set of firewall rules that control the traffic for your instance. On this page, you can add rules to allow specific traffic to reach your instance. For example, if you want to set up a web server and allow Internet traffic to reach your instance, add rules that allow unrestricted access to the HTTP and HTTPS ports. You can create a new security group or select from an existing one below. [Learn more](#) about Amazon EC2 security groups.

Assign a security group: ☒ Create a new security group

☐ Select an existing security group

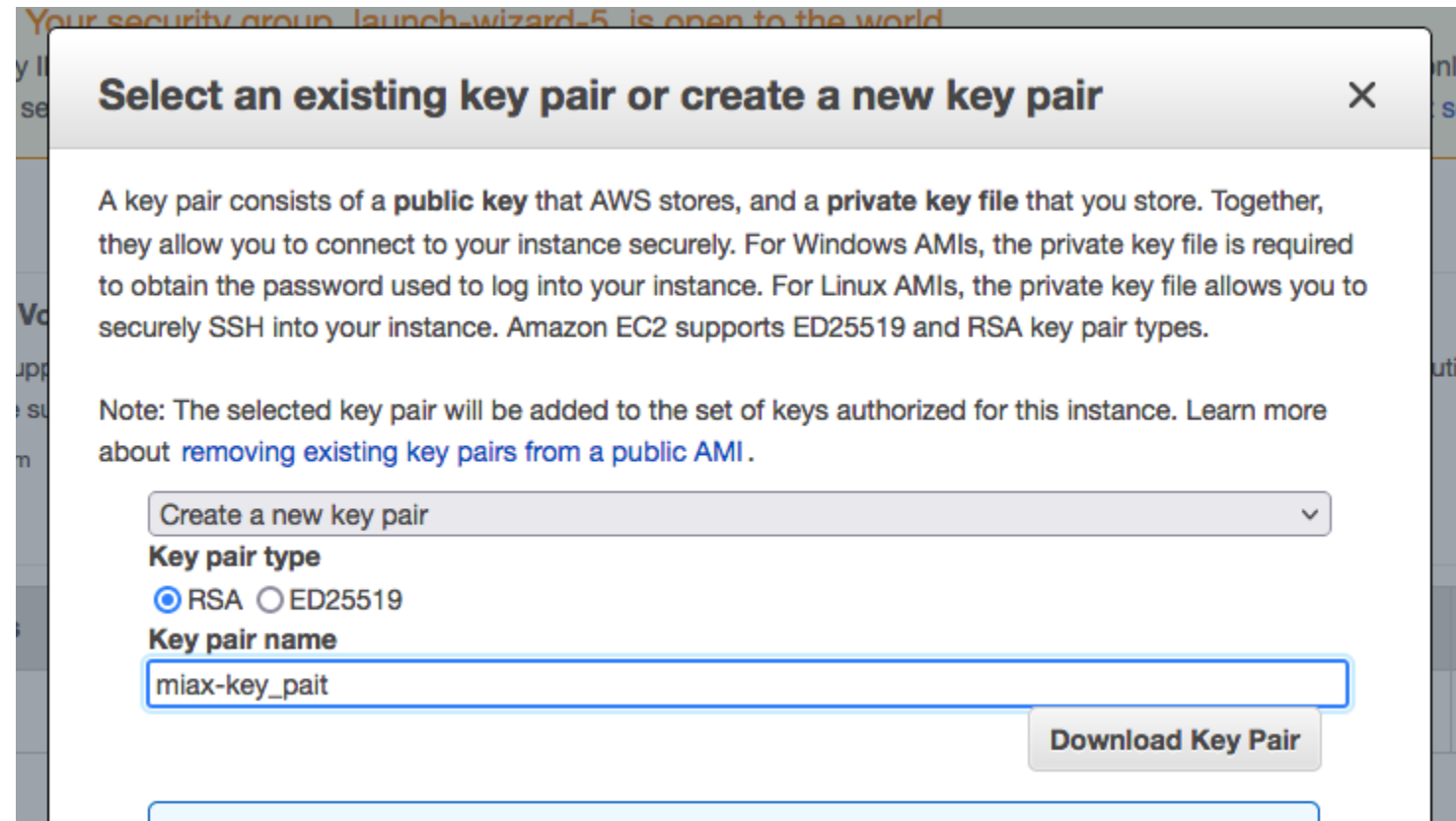
Security group name:

Description:

| Type <small>i</small> | Protocol <small>i</small> | Port Range <small>i</small> | Source <small>i</small>           | Description <small>i</small> |                  |
|-----------------------|---------------------------|-----------------------------|-----------------------------------|------------------------------|------------------|
| SSH <small>v</small>  | TCP                       | 22                          | Custom <small>v</small> 0.0.0.0/0 | e.g. SSH for Admin Desktop   | <small>×</small> |

Add Rule

- En el último paso de la creación es necesario guardar el fichero con la clave privada.



**Select an existing key pair or create a new key pair** ✕

A key pair consists of a **public key** that AWS stores, and a **private key file** that you store. Together, they allow you to connect to your instance securely. For Windows AMIs, the private key file is required to obtain the password used to log into your instance. For Linux AMIs, the private key file allows you to securely SSH into your instance. Amazon EC2 supports ED25519 and RSA key pair types.

Note: The selected key pair will be added to the set of keys authorized for this instance. [Learn more about removing existing key pairs from a public AMI.](#)

Create a new key pair ▾

**Key pair type**

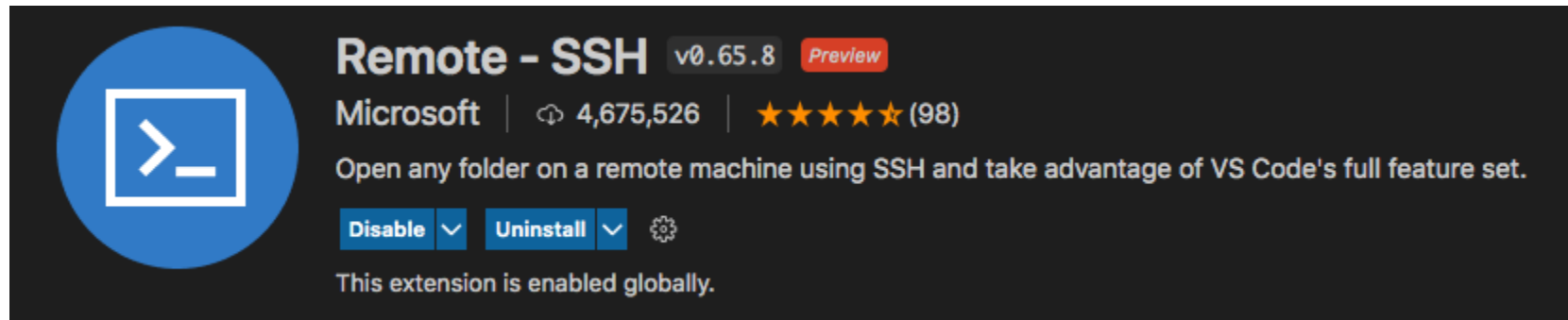
☒ RSA ☐ ED25519

**Key pair name**

miax-key\_pait

Download Key Pair

- Descargamos la extensión Remote - SSH.

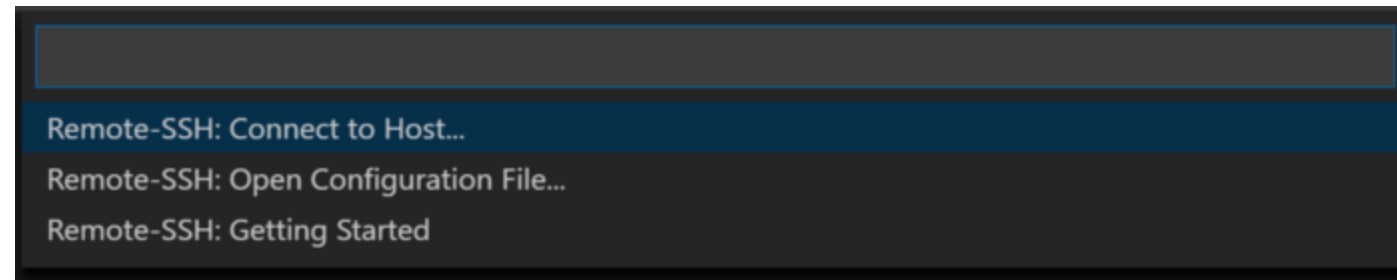




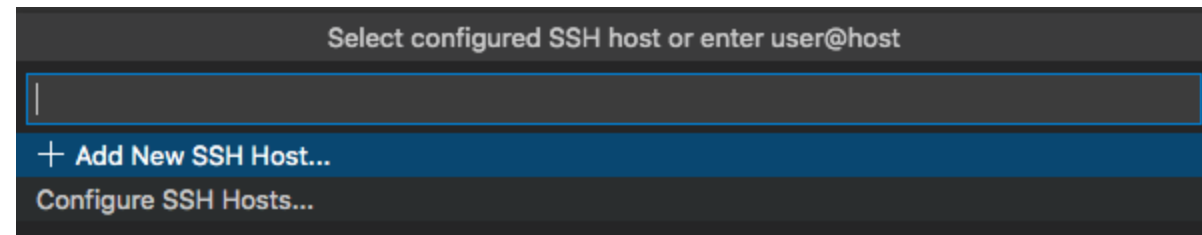
- Pulsamos el botón verde de la esquina inferior izquierda.



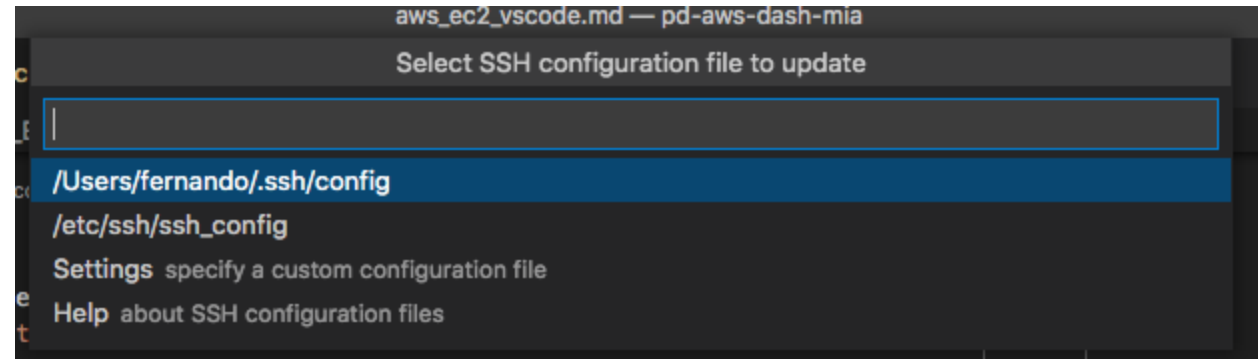
- Pulsamos: Remote - SSH: Connect to Host



- Pulsamos Configure SSH



- Pulsa el primero de los ficheros perteneciente a tu usuario.



- Se abrirá un fichero

Introduce lo siguiente:

```
Host aws-ec2
  HostName ec2-15-188-185-255.eu-west-3.compute.amazonaws.com
  User ec2-user
  IdentityFile /Users/fernando/git/pd-aws-dash-mia/auth/miax-key_pait.pem
```

Donde:

- Host (aws-ec2) es el nombre que queremos darle a la máquina, puede ser cualquiera.
- HostName es el host o IP del servidor.
- User es el nombre de usuario de la máquina EC2.
- IdentityFile es el path a la clave privada.

- Para obtener el HostName y User de tu instancia, entrar en la consola de EC2, seleccionar la instancia y pulsar conectar.

- Verás un diálogo como:

### Connect to instance [Info](#)

Connect to your instance i-035ea7861c8c38e6d using any of these options

EC2 Instance Connect


Session Manager



**SSH client**

EC2 Serial Console


---


Instance ID

 i-035ea7861c8c38e6d

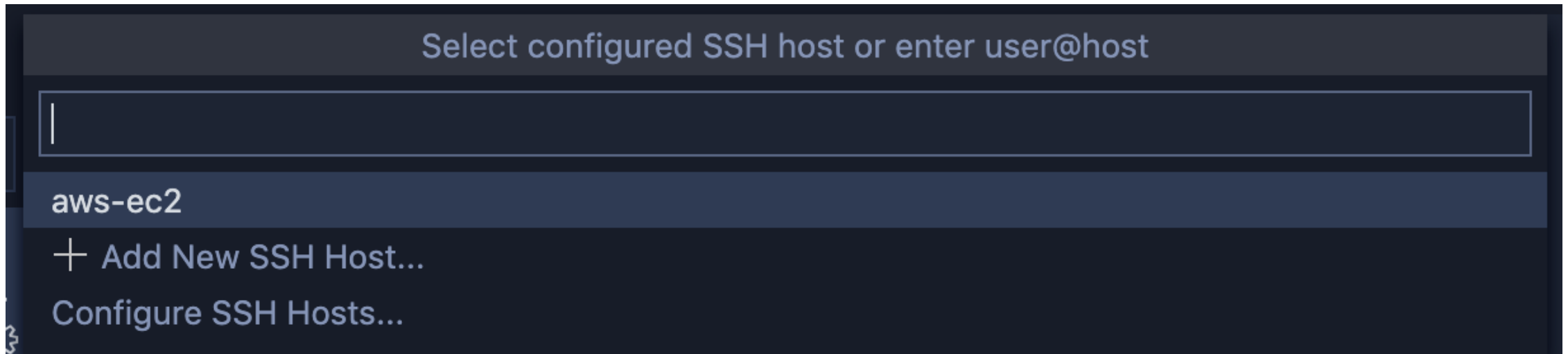
1. Open an SSH client.
2. Locate your private key file. The key used to launch this instance is miax-key\_pait.pem
3. Run this command, if necessary, to ensure your key is not publicly viewable.  
 `chmod 400 miax-key_pait.pem`
4. Connect to your instance using its Public DNS:  
 `ec2-15-188-185-255.eu-west-3.compute.amazonaws.com`

Example:

 `ssh -i "miax-key_pait.pem" ec2-user@ec2-15-188-185-255.eu-west-3.compute.amazonaws.com`

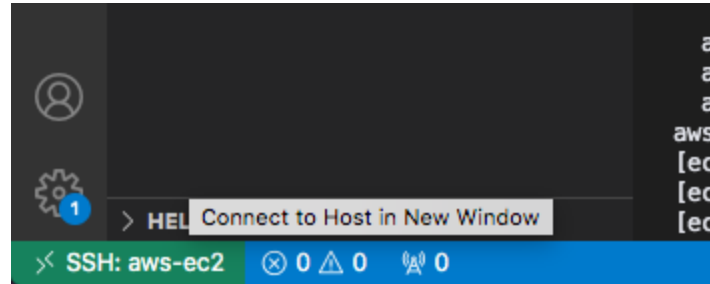
 **Note:** In most cases, the guessed user name is correct. However, read your AMI usage instructions to check if the AMI owner has changed the default AMI user name.

Una vez configurado, puedes pulsar otra vez el boton verde, elegir Connect to host, y tenderá que aparecer la instancia EC2.

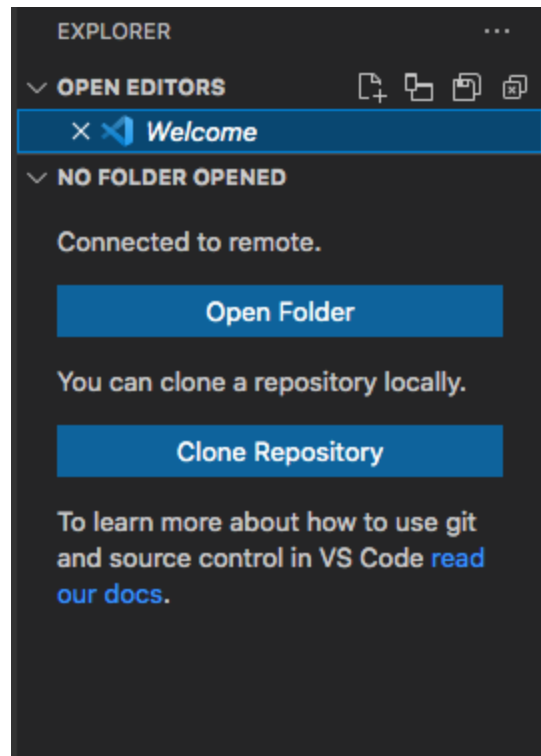




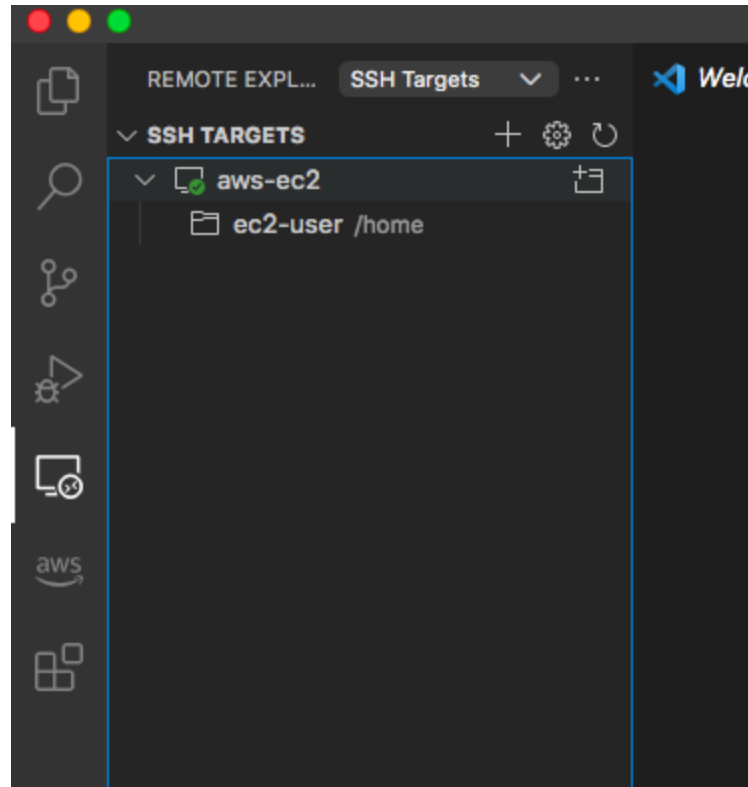
Se abrirá una nueva ventana, donde estarás conectado en tu máquina EC2:



Una vez conectado puedes abrir una carpeta en concreto de la máquina EC2:



Puedes ver todas tus máquinas en el menú de Remote Explorer:



- Si va a usar un cliente SSH en un equipo macOS o Linux para conectarse a su instancia de Linux, utilice el comando que se indica a continuación para establecer los permisos de su archivo de clave privada de manera que solo usted pueda leerlo.

```
chmod 400 my-key-pair.pem
```

Más info en:

<https://stackabuse.com/how-to-fix-warning-unprotected-private-key-file-on-mac-and-linux/>