Actividad

Parte Guiada de script

Script:

```
#!/bin/bash



# Crear VPC y guardar su ID

VPC_ID=$(aws ec2 create-vpc \

--cidr-block 172.16.0.0/16 \

--amazon-provided-ipv6-cidr-block \

--region us-east-1 \

--tag-specifications 'ResourceType=vpc,Tags=[{Key=Name,Value=mivpc}]' \

--query 'Vpc.VpcId' --output text)



echo "VPC ID: $VPC_ID"
```

```
# Habilitar DNS en la VPC
aws ec2 modify-vpc-attribute --region us-east-1 --vpc-id $VPC_ID --enable-dn

# Crear Subred y guardar su ID
SUBNET_ID=$(aws ec2 create-subnet \
--vpc-id $VPC_ID \
--cidr-block 172.16.0.0/20 \
--availability-zone us-east-1a \
--region us-east-1 \
--query 'Subnet.SubnetId' --output text)

echo "Subnet ID: $SUBNET_ID"

# Habilitar asignación de IP pública en la subred
aws ec2 modify-subnet-attribute --subnet-id $SUBNET_ID --map-public-ip-on-la

# Crear grupo de seguridad y guardar su ID
SG_ID=$(aws ec2 create-security-group \
--vpc-id $VPC_ID \
--group-name migs \
--description "Grupo de seguridad para SSH" \
--region us-east-1 \
--query 'GroupId' --output text)
```

```
echo "Security Group ID: $SG_ID"


# Abrir el puerto 22 en el grupo de seguridad

aws ec2 authorize-security-group-ingress \

--group-id $SG_ID \

--region us-east-1 \

--ip-permissions '[{"IpProtocol": "tcp", "FromPort": 22, "ToPort": 22, "IpRa


# Agregar etiqueta al grupo de seguridad

aws ec2 create-tags --resources $SG_ID --tags "Key=Name,Value=migruposegurid


# Crear instancia EC2 y guardar su ID

INSTANCE_ID=$(aws ec2 run-instances \

--image-id ami-0c7217cdde317cfec \

--instance-type t2.small \

--key-name awsKeys \

--subnet-id $SUBNET_ID \

--tag-specifications 'ResourceType=instance,Tags=[{Key=Name,Value=tres}]' \

--private-ip-address 172.16.0.111 \

--security-group-ids $SG_ID \

--query 'Instances[0].InstanceId' --region us-east-1 --output text)


echo "Instance ID: $INSTANCE_ID"


# Crear Internet Gateway y guardar su ID
```

```
IGW=$(aws ec2 create-internet-gateway \
--region us-east-1 \
--query 'InternetGateway.InternetGatewayId' \
--output text)

echo "Internet Gateway ID: $IGW"

# Adjuntar el IGW a la VPC

aws ec2 attach-internet-gateway --internet-gateway-id $IGW --vpc-id $VPC_ID

# Crear tabla de rutas y guardar su ID

RTABLE_ID=$(aws ec2 create-route-table \
--vpc-id $VPC_ID \
--region us-east-1 \
--query 'RouteTable.RouteTableId' \
--output text)

echo "Tabla de rutas ID: $RTABLE_ID"

# Agregar una ruta para salida a internet

aws ec2 create-route \
```

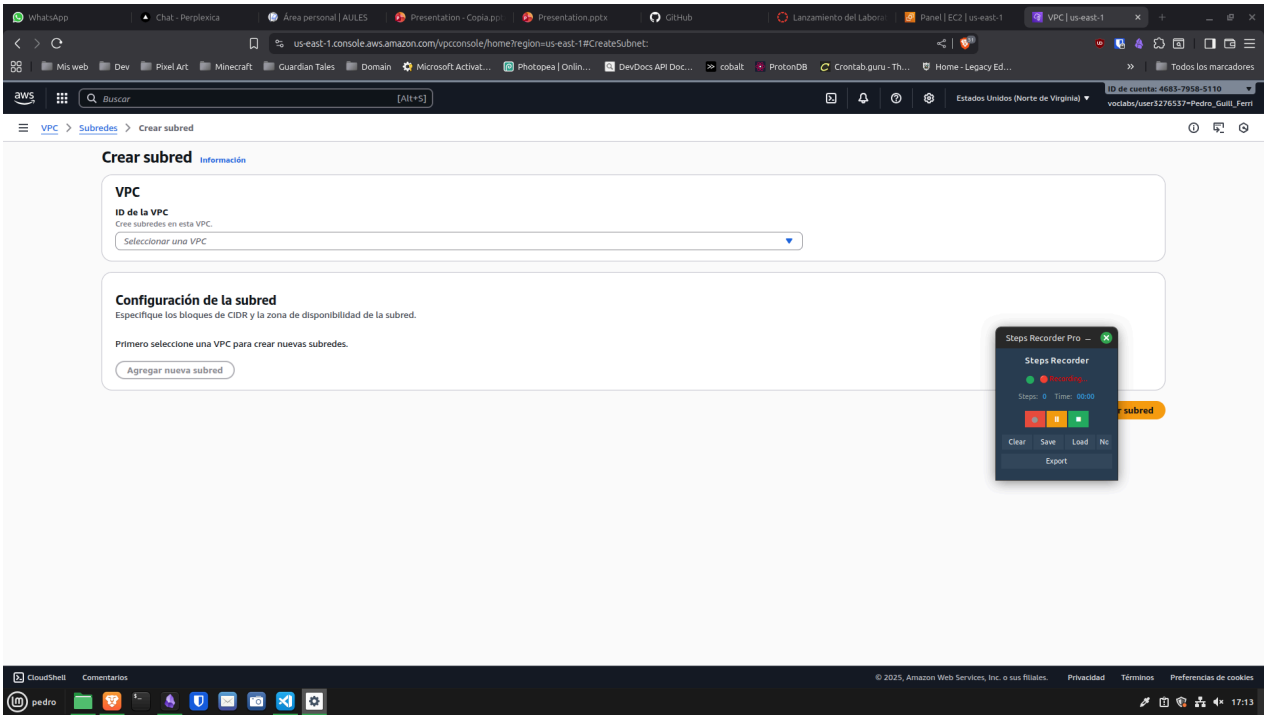
```
--route-table-id $RTABLE_ID \

--destination-cidr-block 0.0.0.0/0 \

--gateway-id $IGW \

--region us-east-1



# Asociar la tabla de rutas a la subred

aws ec2 associate-route-table \
--route-table-id $RTABLE_ID \
--subnet-id $SUBNET_ID \
--region us-east-1
```

Parte 2

Crear otra subred en la vpc que ha creado el script y crear otra maquina a mano en esa subred

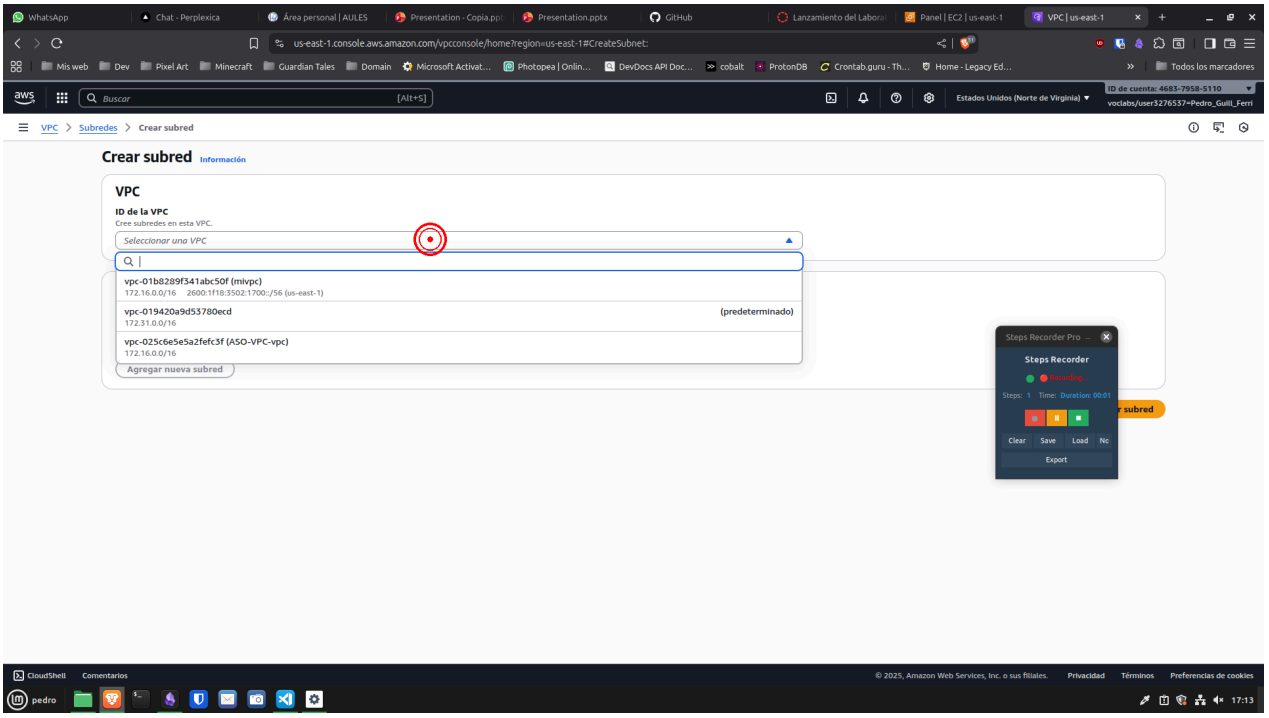
Paso 1: initial

- **Hora:** 2025-10-30T17:13:27.032034
- **Descripción:** Recording session started
- **Ventana:** Steps Recorder Pro



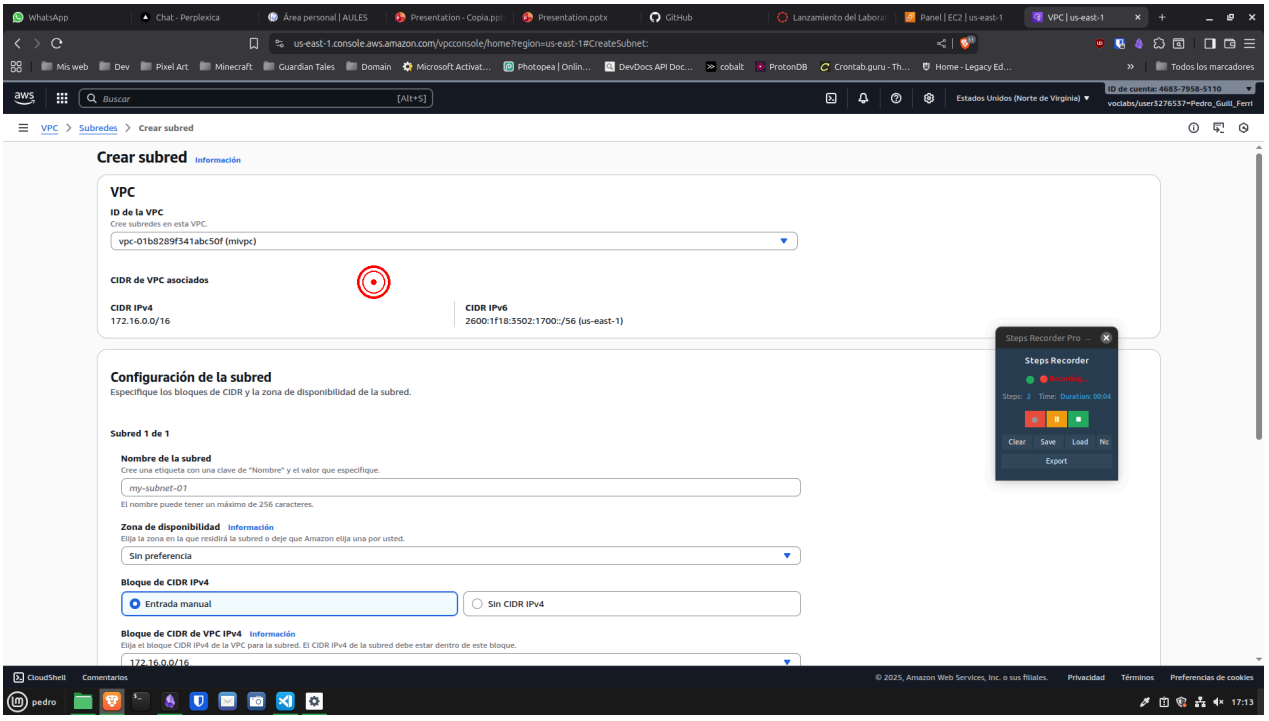
Paso 2: click

- **Hora:** 2025-10-30T17:13:28.707827
- **Descripción:** Left-clicked at (650, 358)
- **Ventana:** VPC | us-east-1 - Brave



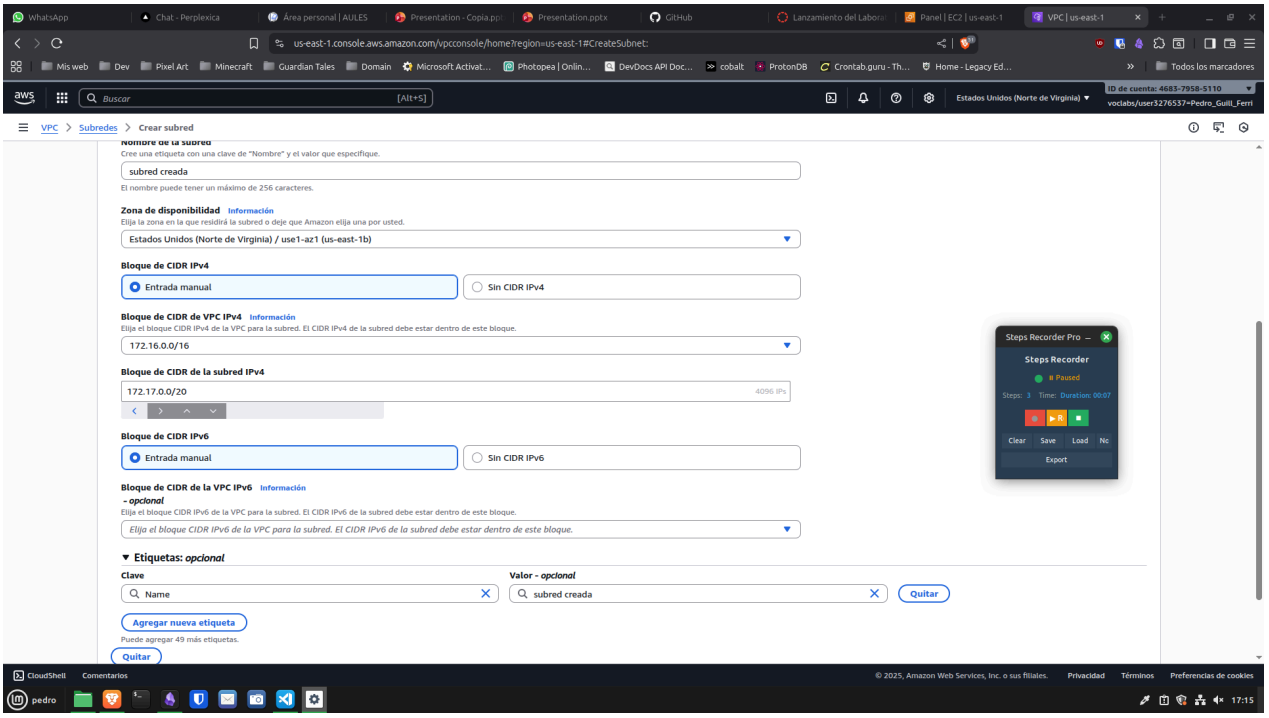
Paso 3: click

- **Hora:** 2025-10-30T17:13:31.334318
- **Descripción:** Left-clicked at (564, 422)
- **Ventana:** VPC | us-east-1 - Brave



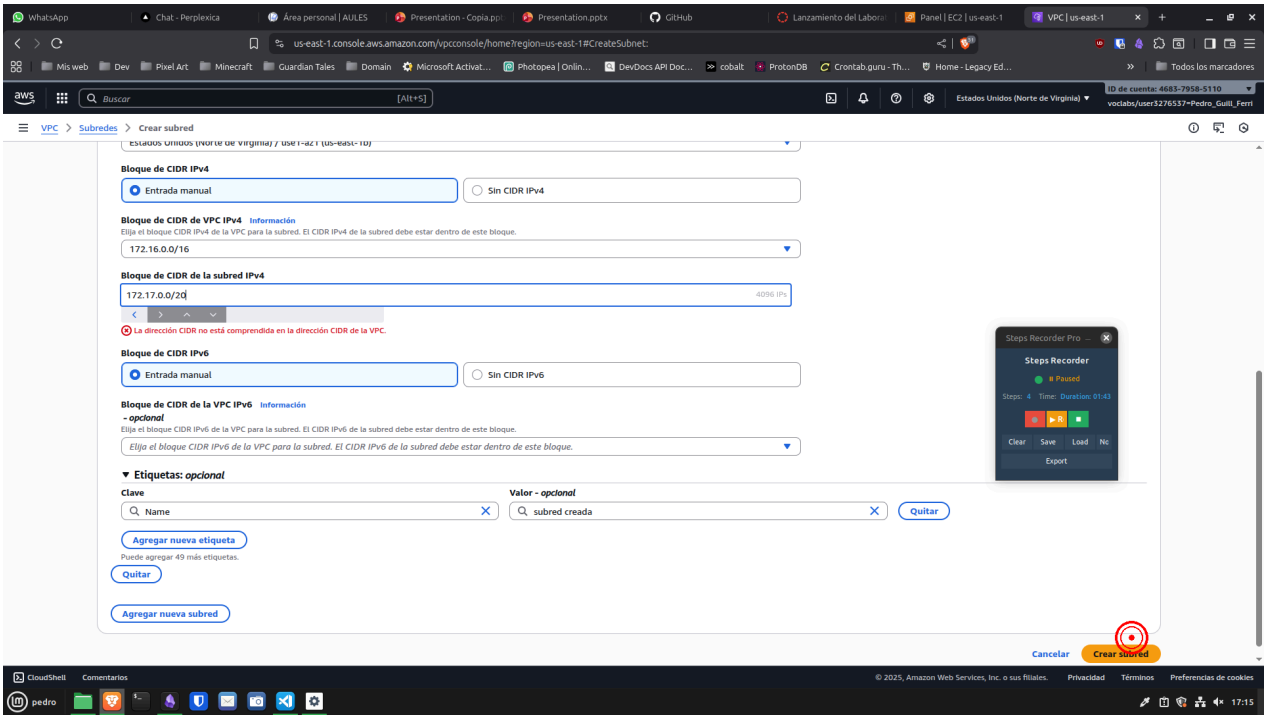
Paso 4: annotation

- **Hora:** 2025-10-30T17:15:04.860546
- **Descripción:** Bloque de CIDR
- **Ventana:** Steps Recorder Pro



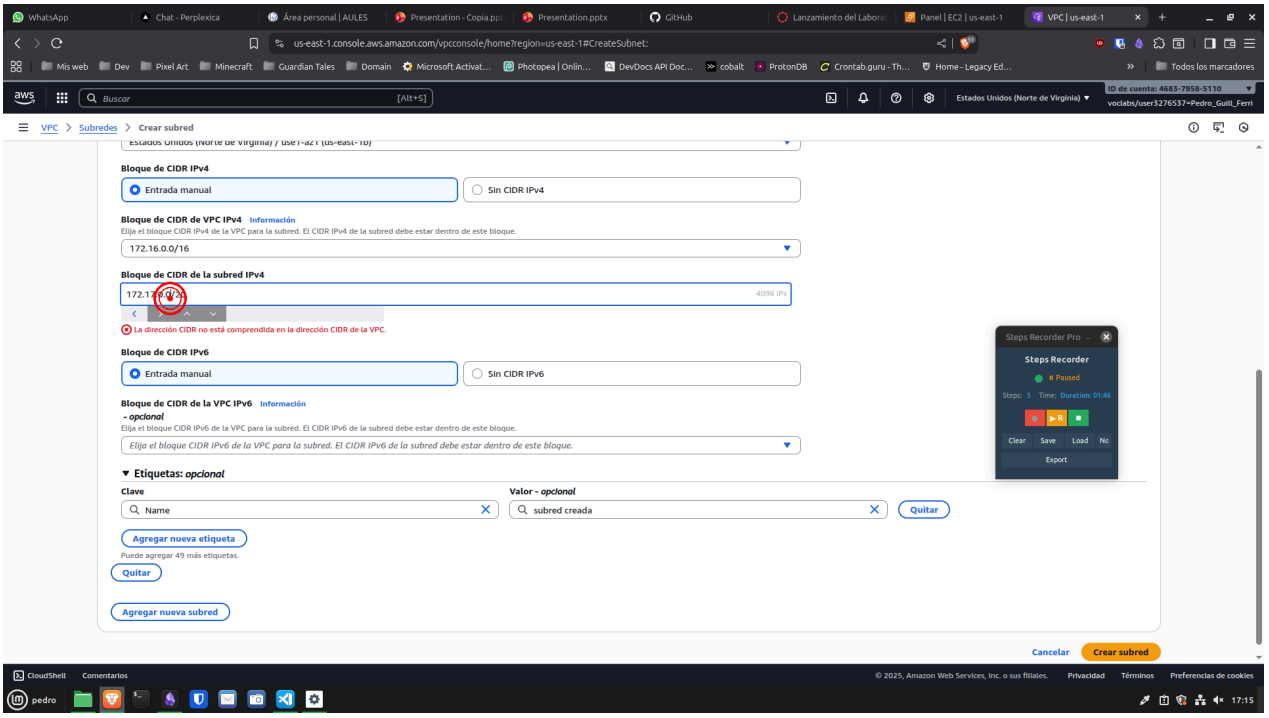
Paso 5: click

- **Hora:** 2025-10-30T17:15:10.663592
- **Descripción:** Left-clicked at (1718, 962)
- **Ventana:** VPC | us-east-1 - Brave



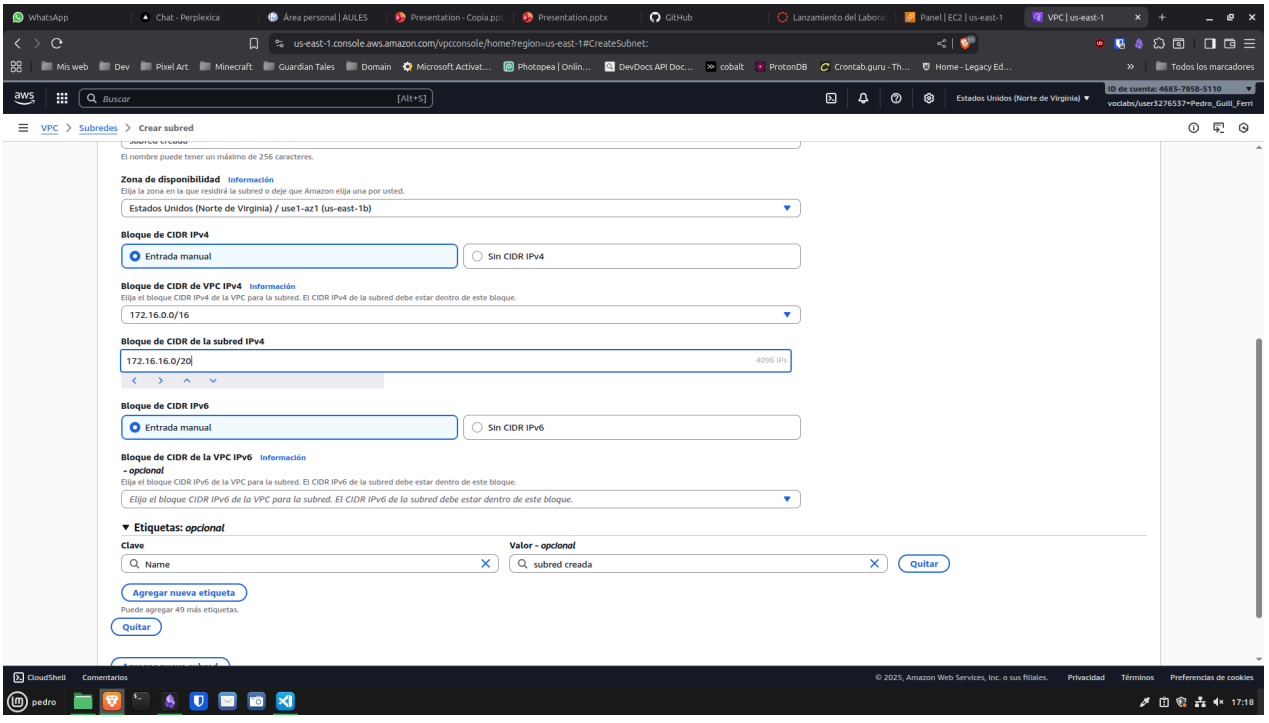
Paso 6: click

- **Hora:** 2025-10-30T17:15:13.432092
- **Descripción:** Left-clicked at (254, 448)
- **Ventana:** VPC | us-east-1 - Brave



Paso 7: click

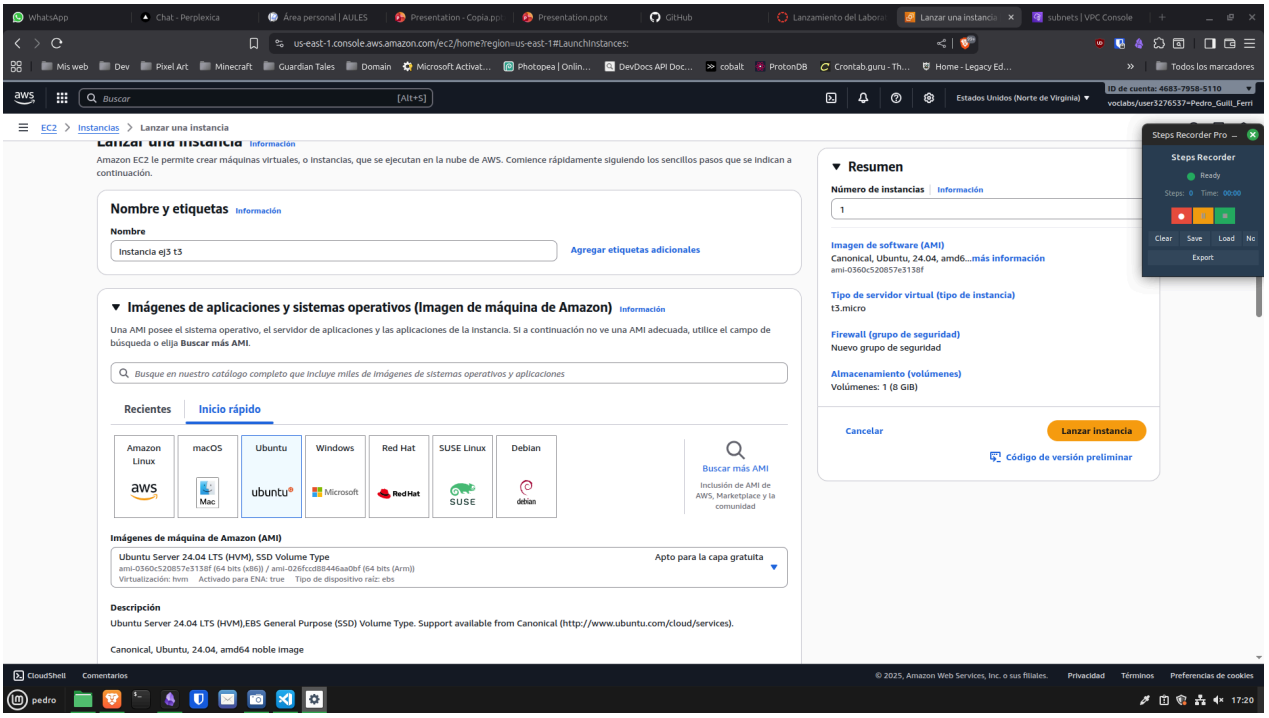
- **Hora:** 2025-10-30T17:15:27.077978
- **Descripción:** Left-clicked at (1442, 559)
- **Ventana:** VPC | us-east-1 - Brave



Lanzamiento de la instancia

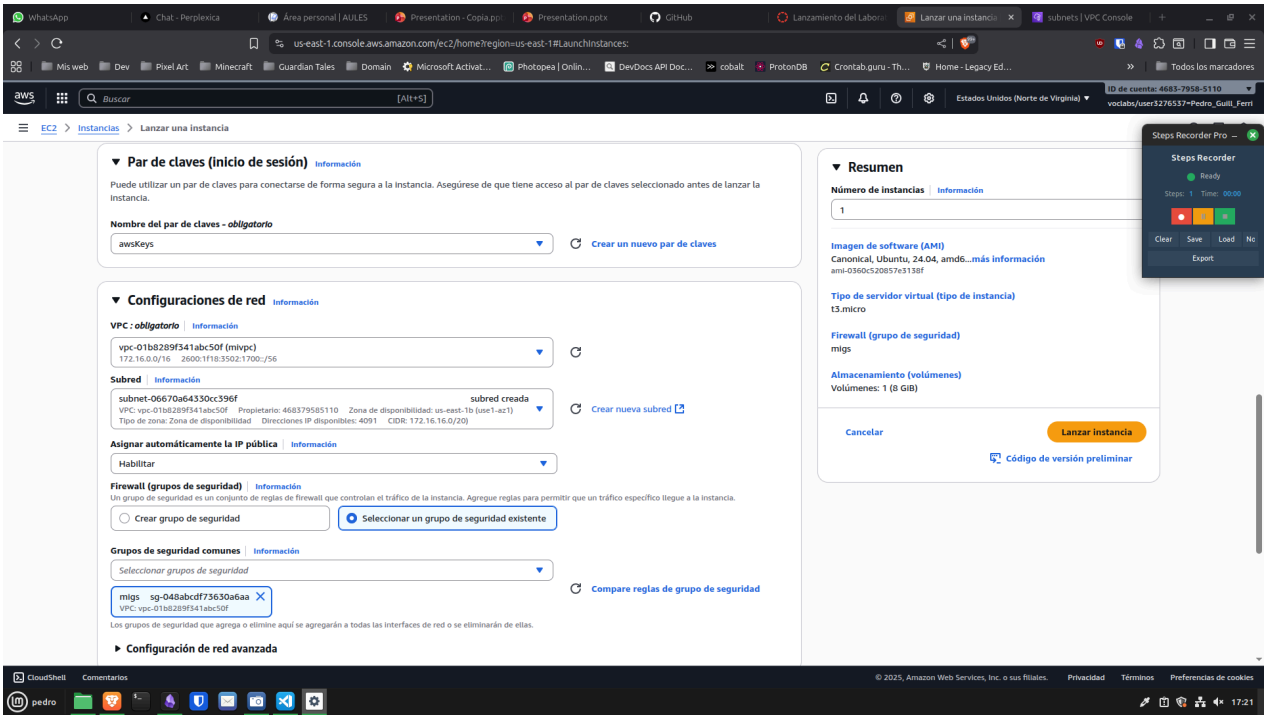
Paso 1: annotation

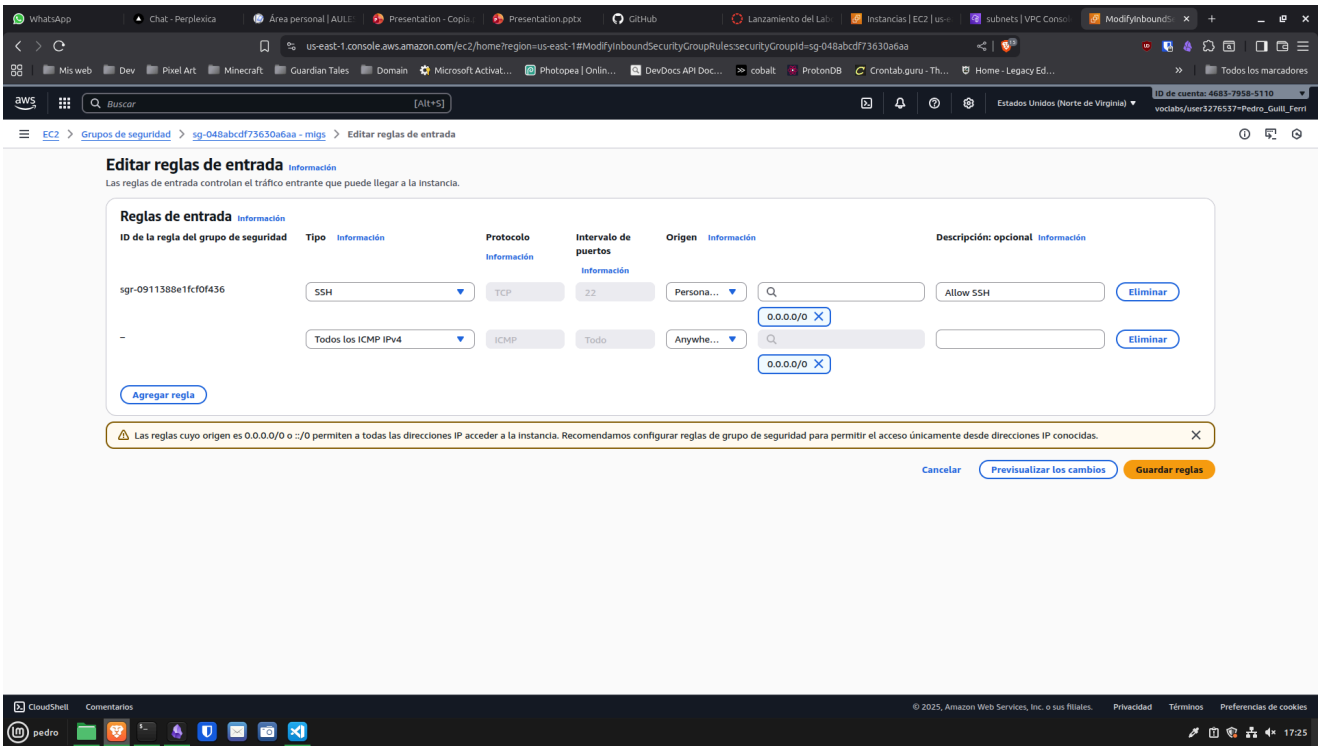
- **Hora:** 2025-10-30T17:20:51.194931
- **Descripción:** Nombre y imagen
- **Ventana:** Steps Recorder Pro



Paso 2: annotation

- **Hora:** 2025-10-30T17:21:36.306584
- **Descripción:** Claves y config de red
- **Ventana:** Steps Recorder Pro





Ping de una instancia a otra: