**Infrastructure as Code: AWS-CLI Primer Workshop**

**Presentado por : Julián David Triana Roa**

1. Instalamos the AWS-CLI application.

```
C:\Users\julia>aws --version
aws-cli/2.30.2 Python/3.13.7 Windows/11 exe/AMD64
```

2. Configuramos the AWS-CLI application.

```
julia@Julian MINGW64 ~
$ aws configure
AWS Access Key ID [****************VJ74]: ASIA2UC3C7LLBXWRVJ74
AWS Secret Access Key [****************cfJl]: MqOLrZ5npkpWRAmJQueYpMDmOcreCBPTsF
fhcfJl
Default region name [us-east-1]:
Default output format [json]:

julia@Julian MINGW64 ~
$ aws configure set aws_session_token IQoJb3JpZ2luX2VjEN3//////////wEaCXVzLXdlc3
QtMiJHMEUCIATjQjkTjXMvqWElyqkXDzUOOW5eVvyalFwLM8laLi52AiEAuwGDR8TwgLTX3suedmPN6n
tHKKpeXGxDdkSbNPgaNkAqpwIIZhAAGgw3MzAzMzU0NzY0MzgiDLuRDZoNRKhypvLMkyqEAgmWWnWb6m
BRh+6QbSfUBSQO/qtsoXKxk5mtfcgyP1wLJQuHJefdaKxfQdhXVygxOBoCRv83ZZYC2Ky6u3S+D1J1ie
beYvOxjGPBxXNwB44IgSO9AsRJ3L+Tfqs3OT7vFMe+Hr+ba+4E2XXdx2IXPP/ZFziaiF3CFISfXgQuaW
3w3Y9NDJNv4mYl5dAuqv714c5LtwwuQiMMTgnq+GLEXnFbeXIIRX1SFbSlcIKSQLUnrSkrvHwy8ZSLNI
FF4jC/imKxovDhzPFOxqoSHHN7RsqIX1Xoj1fuM6Ig1CHhY8F1T+F3PF2TOWxJJ+SHb37FX3u6GWJoqh
9rRBoqiBPknFblafrfMIqwOcYGOpOBkpHpwckwyiOCas/rN9bsGyVbKJrhz8jq+RHkHtSWNfvYywJEHL
hbDLunQJLScuW9cNJFkuO3TKI2oVjRc3ML+wNy1kzS3GePn2/9sbmUiQbaxWUQ+LHJTiY2ApvNAE4r9P
H23cRk+LWO8eF1cV9SPSOxNtF/GDVv2Ofl6Z1aa6pqBwxwZsSgh2gds3Jvkar5zlPdD9g6D1k8inEidQ
==
```

Creamos la llave para EC2

```
MyKeyPair.pem
```

Damos permiso de solo lectura

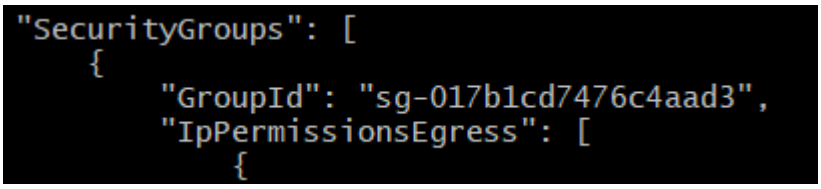
```
-r--r--r-- 1 julia 197609        0 Sep 24 15:55  MyKeyPair.pem
```

Check the fingerprint

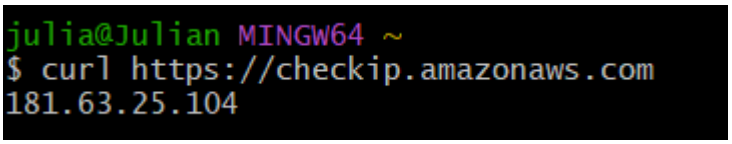
```
julia@Julian MINGW64 ~
$ aws ec2 describe-key-pairs --key-name MyKeyPair
{
    "KeyPairs": [
        {
            "KeyPairId": "key-0449bfa1e1d0d124f",
            "KeyType": "rsa",
            "Tags": [],
            "CreateTime": "2025-09-16T14:15:23.276000+00:00",
            "KeyName": "MyKeyPair",
            "KeyFingerprint": "de:7a:6e:3d:2f:32:ad:d4:50:34:64:6e:f0:d1:26:30:b1:5c:aa:4a"
        }
    ]
}
```

Creamos el grupo de seguridad

aws ec2 create-security-group --group-name my-sg-cli --description "My security group" --vpc-id vpc-05e88545466e1f861

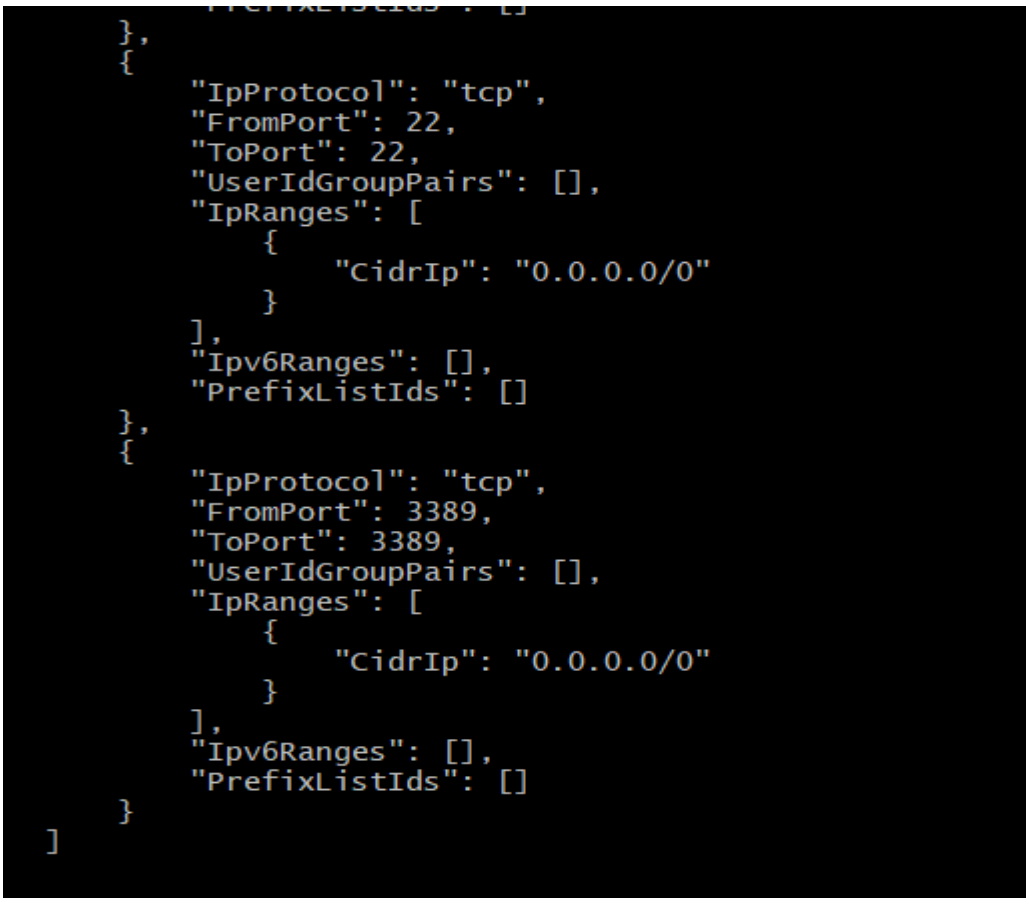



Check your public IP address




Allow RDP (port 3389):

Allow SSH (port 22):



## Create the Instance

```
julia@Julian MINGW64 ~
$ aws ec2 describe-instances --instance-ids i-0e51817101d1f0593 --query "Reservations[].Instances[].{State:State.Name,PublicIP:PublicIpAddress,PublicDNS:PublicDnsName}" --output table
-------------------------------------------------------------------
|                       DescribeInstances                         |
+-----------------------------------------+---------------+-------+
|               PublicDNS                 |   PublicIP    | State |
+-----------------------------------------+---------------+-------+
|  ec2-3-86-219-167.compute-1.amazonaws.com |  3.86.219.167 |  running  |
+-----------------------------------------+---------------+-------+
```

Nos conectamos correctamente a la instancia

```
julia@Julian MINGW64 ~
$ ssh -i MyKeyPair2.pem ec2-user@3.86.219.167
The authenticity of host '3.86.219.167 (3.86.219.167)' can't be established.
ED25519 key fingerprint is SHA256:OWT/DkzmnsF7byJRozRIIKL31+Py9vRGYifYRsOynCM.
This key is not known by any other names.
Are you sure you want to continue connecting (yes/no/[fingerprint])? yes
Warning: Permanently added '3.86.219.167' (ED25519) to the list of known hosts.
   ,     #_
   ~\_  ####_        Amazon Linux 2023
  ~~  \_#####\
  ~~     \###|
  ~~       \#/ ___   https://aws.amazon.com/linux/amazon-linux-2023
   ~~       V~' '->
    ~~~         /
      ~~._.   _/
         _/ _/
       _/m/'
```

## List Your Instances

```
$ aws ec2 describe-instances --filters "Name=instance-type,Values=t2.micro" --query "Reservations[].Instances[].InstanceId"
[
    "i-0771c7e24047172cc",
    "i-0e51817101d1f0593"
]
```

## Clean Up

Terminate the instance

```
julia@Julian MINGW64 ~
$ aws ec2 terminate-instances --instance-ids i-0e51817101d1f0593
{
    "TerminatingInstances": [
        {
            "InstanceId": "i-0e51817101d1f0593",
            "CurrentState": {
                "Code": 32,
                "Name": "shutting-down"
            },
            "PreviousState": {
                "Code": 16,
                "Name": "running"
            }
        }
    ]
}
```

Delete the security group

```
julia@Julian MINGW64 ~
$ aws ec2 delete-security-group --group-id sg-017b1cd7476c4aad3
{
    "Return": true,
    "GroupId": "sg-017b1cd7476c4aad3"
}
```

Delete the key pair

```
julia@Julian MINGW64 ~
$ aws ec2 delete-key-pair --key-name MyKeyPair
{
    "Return": true,
    "KeyPairId": "key-0449bfa1e1d0d124f"
}
```