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Taller AREP - AWS CLI

22 septiembre de 2025

Prerequisites

- 1. Install the AWS-CLI application.
- 2. Configure the AWS-CLI application:

aws configure

Example configuration:

AWS Access Key ID [None]: AKIAIOSFODNN7EXAMPLE

AWS Secret Access Key [None]: wJalrXUtnFEMI/K7MDENG/bPxRfiCYEXAMPLEKEY

Default region name [None]: us-west-2

Default output format [None]: json

Step 1: Create a Key Pair for EC2

aws ec2 create-key-pair --key-name MyKeyPair --query 'KeyMaterial' --output text > MyKeyPair.pem

ls



Output:

MyKeyPair.pem

Make the private key readable only by you:

chmod 400 MyKeyPair.pem

ls -la

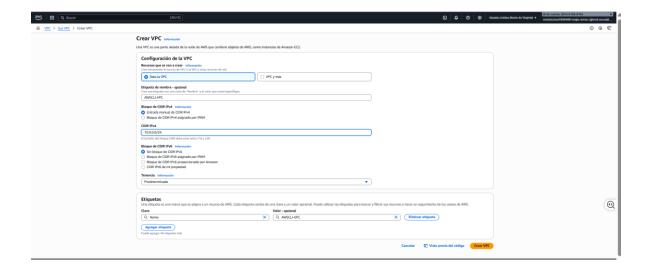
Output:

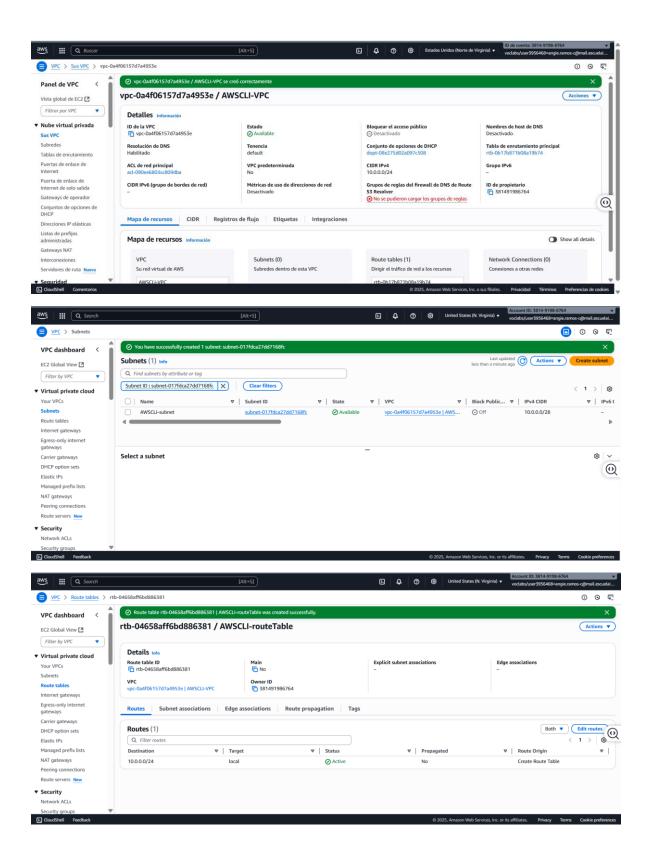
-r---- 1 user staff 1675 Oct 9 20:39 MyKeyPair.pem

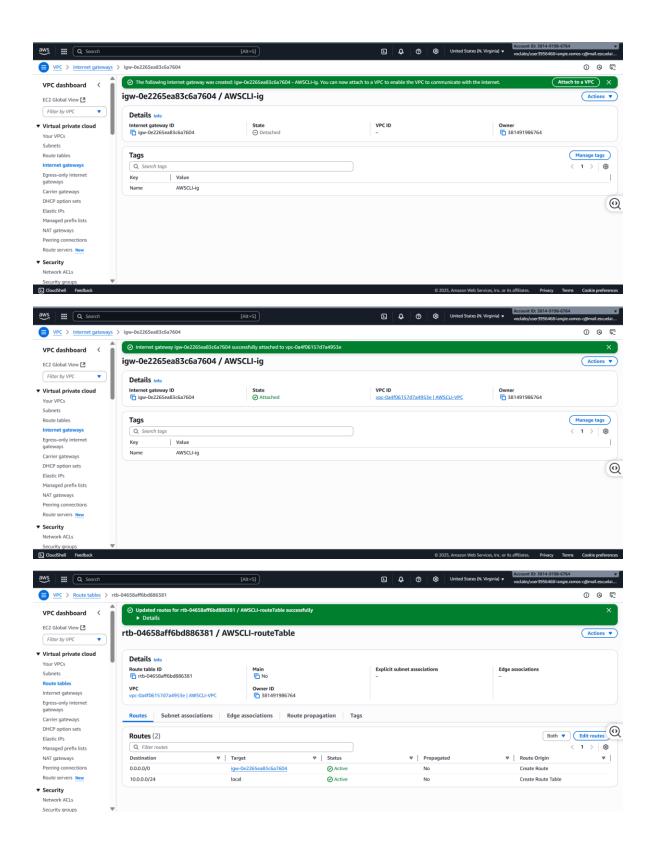
Check the fingerprint:

aws ec2 describe-key-pairs --key-name MyKeyPair









Step 2: Create a Security Group

First, check for VPCs configured in your account.

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

List security groups:

}

aws ec2 describe-security-groups --group-ids sg-01f4c77b81e9dc434

```
Cloudshell

US-cast-1 | +

* 5 am etc? describe-security-groups :-group-lds sg-de93444e4cd9467846

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Add Ingress Rules

Check your public IP address (optional for restricted access):

curl https://checkip.amazonaws.com



Example output:

186.96.109.58

Allow RDP (port 3389):

aws ec2 authorize-security-group-ingress --group-id sg-01f4c77b81e9dc434 --protocol tcp --port 3389 --cidr 0.0.0.0/0

Allow SSH (port 22):

aws ec2 authorize-security-group-ingress --group-id sg-01f4c77b81e9dc434 --protocol tcp --port 22 --cidr 0.0.0.0/0



Group id: sg-094344e4ca94e78a5

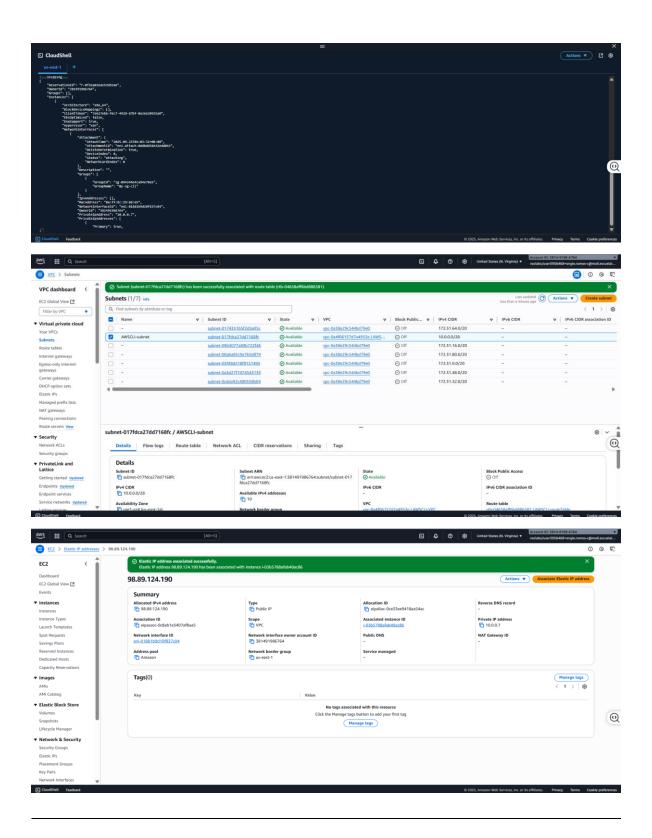
Subnet id: subnet-017fdca27dd7168fc

Step 3: Create the Instance

Before creating the instance, ensure you have a subnet configured.

Run the following command to launch a **t2.micro** instance:

aws ec2 run-instances --image-id ami-032930428bf1abbff --count 1 --instance-type t2.micro --key-name MyKeyPair --security-group-ids sg-01f4c77b81e9dc434 --subnet-id subnet-1175cf1d



Step 4: Connect to the Instance

ssh -i "MyKeyPair.pem" ec2-user@ec2-34-204-197-22.compute-1.amazonaws.com





Step 5: List Your Instances

aws ec2 describe-instances --filters "Name=instance-type,Values=t2.micro" --query "Reservations[].Instances[].InstanceId"

Step 6: Clean Up

Delete the key pair:

aws ec2 delete-key-pair --key-name MyKeyPair

Delete the security group:

aws ec2 delete-security-group --group-id sg-903004f8

Terminate the instance:

aws ec2 terminate-instances --instance-ids i-07d0ddb36ea3e65a4



Conclusion

Congratulations! You just learned how to automatically deploy an EC2 instance on AWS.

References

• <u>AWS CLI User Guide</u>