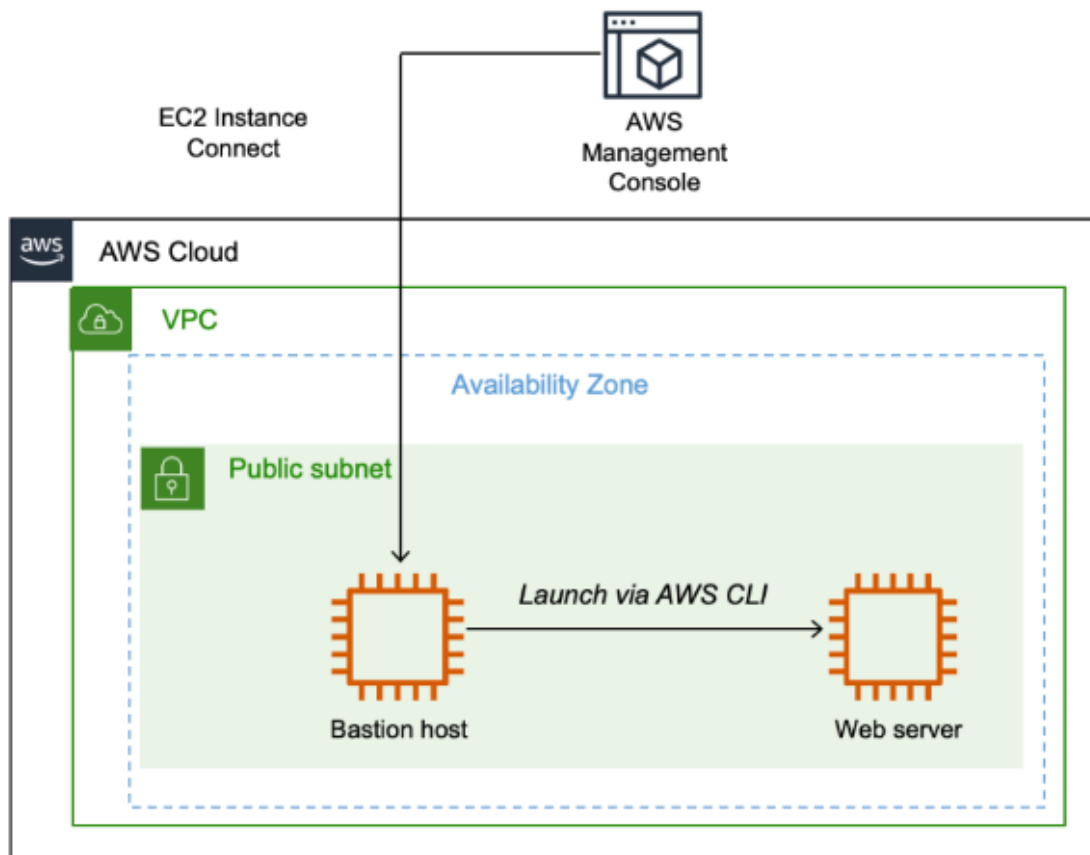# González, Ian.

Documentación
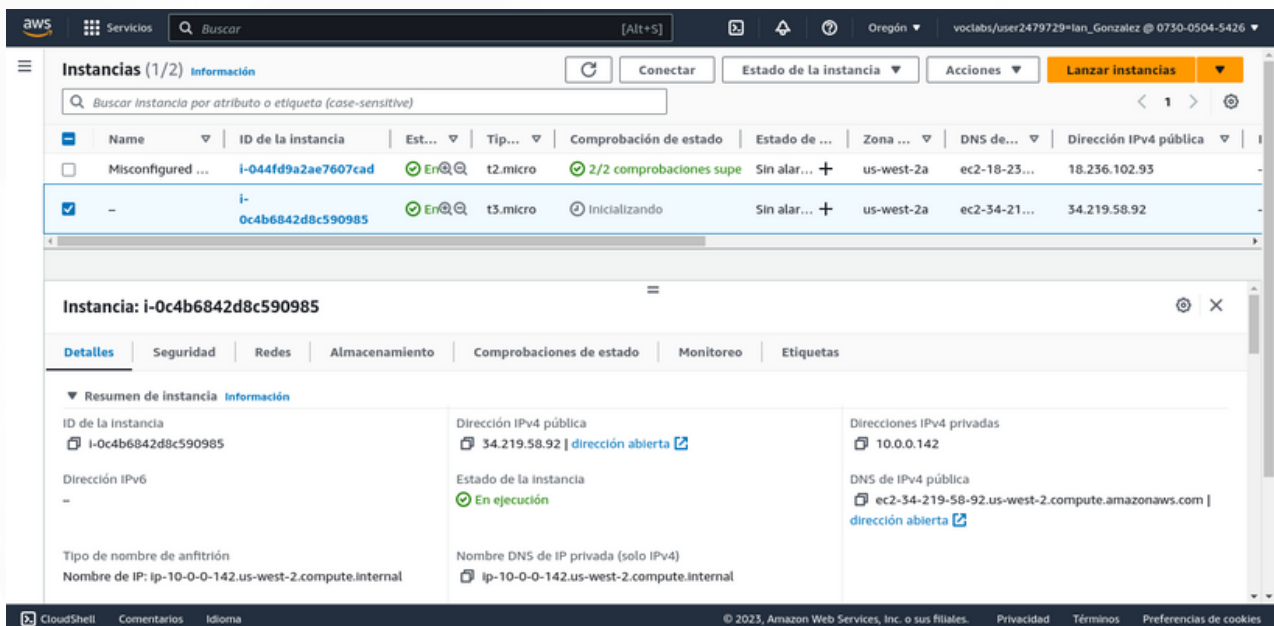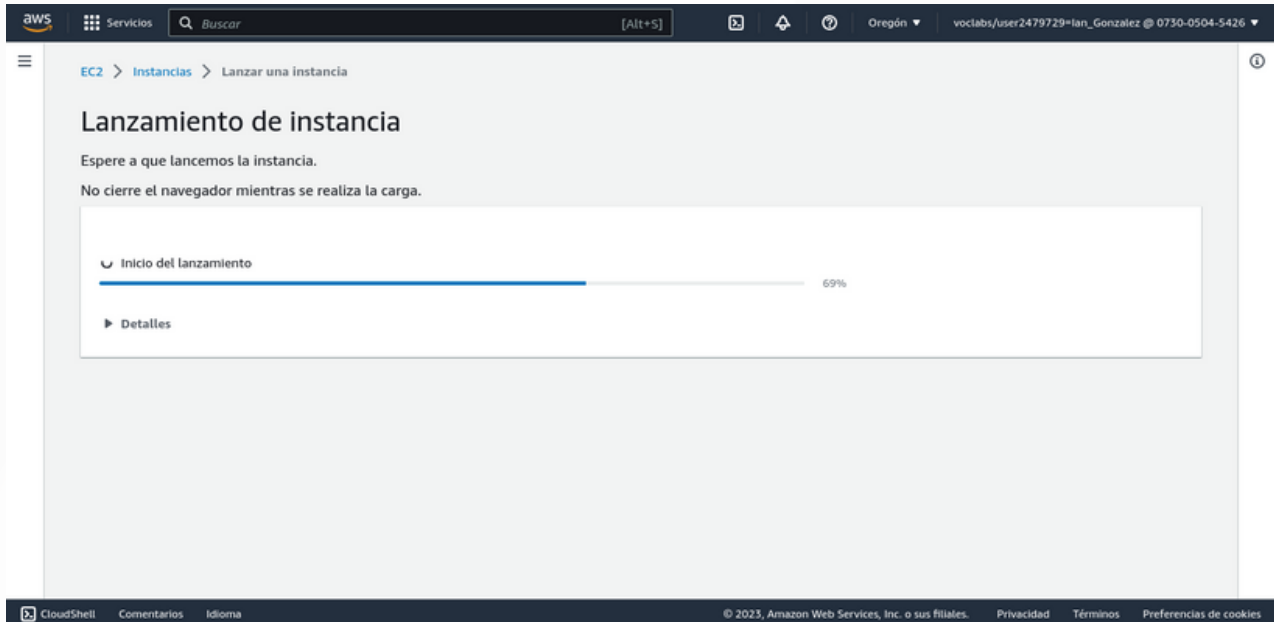# Creación de instancias de
Amazon EC2

AWS Re/Start
ARBUE-12

Creating Amazon EC2 Instances

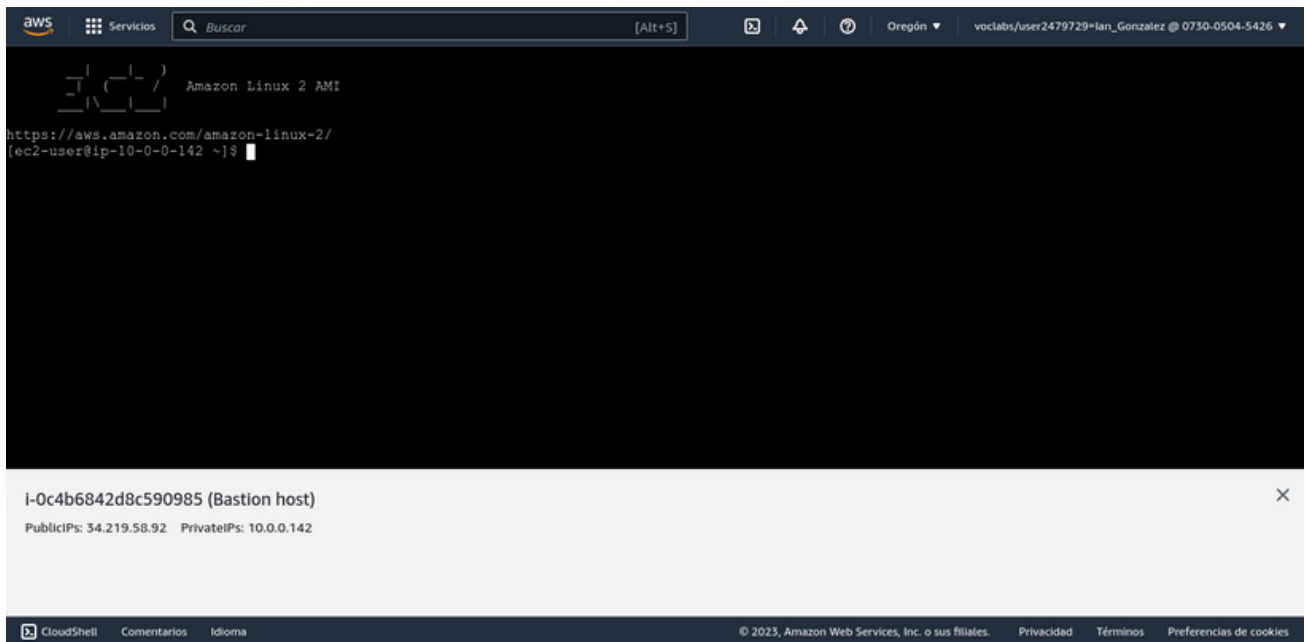After completing this lab, you should be able to do the following:

- Launch an EC2 instance by using the AWS Management Console.
- Connect to the EC2 instance by using EC2 Instance Connect.
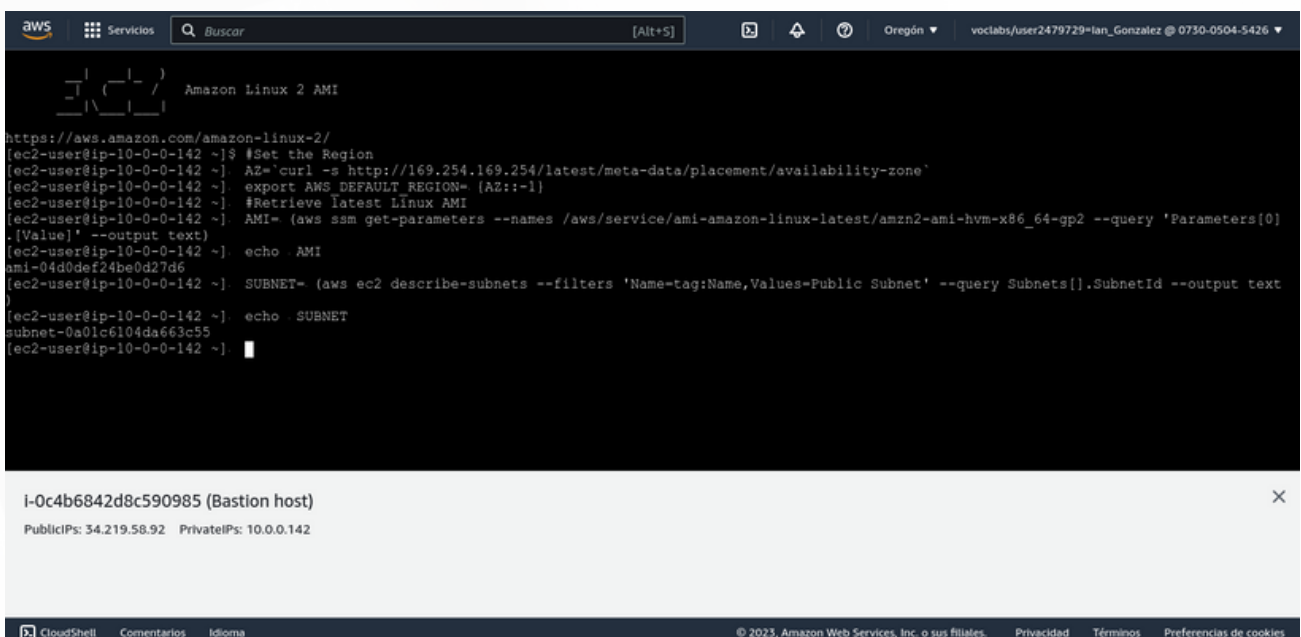- Launch an EC2 instance by using the AWS CLI.

Task 1: Launching an EC2 Instance by using the AWS Management Console

Task 2: Logging in to the bastion host

Task 3: Launching an EC2 instance using the AWS CLI

```
        _|  _| _|_|  )
      _| \_| |___|___|      Amazon Linux 2 AMI

https://aws.amazon.com/amazon-linux-2/
[ec2-user@ip-10-0-0-142 ~]$ #Set the Region
[ec2-user@ip-10-0-0-142 ~]. AZ=`curl -s http://169.254.169.254/latest/meta-data/placement/availability-zone`
[ec2-user@ip-10-0-0-142 ~]. export AWS_DEFAULT_REGION=${AZ::-1}
[ec2-user@ip-10-0-0-142 ~]. #Retrieve latest Linux AMI
[ec2-user@ip-10-0-0-142 ~]. AMI=`(aws ssm get-parameters --names /aws/service/ami-amazon-linux-latest/amzn2-ami-hvm-x86_64-gp2 --query 'Parameters[0]
.[Value]' --output text)
[ec2-user@ip-10-0-0-142 ~]. echo .AMI
ami-04d0def24be0d27d6
[ec2-user@ip-10-0-0-142 ~]. SUBNET= (aws ec2 describe-subnets --filters 'Name=tag:Name,Values=Public Subnet' --query Subnets[].SubnetId --output text
)
[ec2-user@ip-10-0-0-142 ~]. echo .SUBNET
subnet-0a01c6104da663c55
[ec2-user@ip-10-0-0-142 ~]. SG= (aws ec2 describe-security-groups --filters Name=group-name,Values=WebSecurityGroup --query SecurityGroups[].GroupId
--output text)
[ec2-user@ip-10-0-0-142 ~]. echo .SG
sg-0929ae 1b410fbb68
[ec2-user@ip-10-0-0-142 ~].
```

i-0c4b6842d8c590985 (Bastion host)

PublicIPs: 34.219.58.92   PrivateIPs: 10.0.0.142

```
.[Value]' --output text)
[ec2-user@ip-10-0-0-142 ~]. echo .AMI
ami-04d0def24be0d2 d6
[ec2-user@ip-10-0-0-142 ~]. SUBNET= (aws ec2 describe-subnets --filters 'Name=tag:Name,Values=Public Subnet' --query Subnets[].SubnetId --output text
)
[ec2-user@ip-10-0-0-142 ~]. echo .SUBNET
subnet-0a01c6104da663c55
[ec2-user@ip-10-0-0-142 ~]. SG= (aws ec2 describe-security-groups --filters Name=group-name,Values=WebSecurityGroup --query SecurityGroups[].GroupId
--output text)
[ec2-user@ip-10-0-0-142 ~]. echo .SG
sg-0929ae 1b410fbb68
[ec2-user@ip-10-0-0-142 ~]. wget https://aws-tc-largeobjects.s3.us-west-2.amazonaws.com/CUR-TF-100-RESTRT-1-23 32/1 1-lab-JAWS-create-ec2/s3/UserData
.txt
--2023-06-30 19:19:48--  https://aws-tc-largeobjects.s3.us-west-2.amazonaws.com/CUR-TF-100-RESTRT-1-23 32/1 1-lab-JAWS-create-ec2/s3/UserData.txt
Resolving aws-tc-largeobjects.s3.us-west-2.amazonaws.com (aws-tc-largeobjects.s3.us-west-2.amazonaws.com)... 52.218.1 9.186, 52.218.181.233, 52.218.2
19.33, ...
Connecting to aws-tc-largeobjects.s3.us-west-2.amazonaws.com (aws-tc-largeobjects.s3.us-west-2.amazonaws.com)|52.218.1 9.186|:443... connected.
HTTP request sent, awaiting response... 200 OK
Length: 32 [text/plain]
Saving to: 'UserData.txt'

100%[================================================================================================>] 32          --.-K/s   in 0s

2023-06-30 19:19:48 (11.6 MB/s) - 'UserData.txt' saved [32 /32 ]

[ec2-user@ip-10-0-0-142 ~].
```

i-0c4b6842d8c590985 (Bastion host)

PublicIPs: 34.219.58.92   PrivateIPs: 10.0.0.142

```
.txt
--2023-06-30 19:19:48--  https://aws-tc-largeobjects.s3.us-west-2.amazonaws.com/CUR-TF-100-RESTRT-1-23 32/1 1-lab-JAWS-create-ec2/s3/UserData.txt
Resolving aws-tc-largeobjects.s3.us-west-2.amazonaws.com (aws-tc-largeobjects.s3.us-west-2.amazonaws.com)... 52.218.1 9.186, 52.218.181.233, 52.218.2
19.33, ...
Connecting to aws-tc-largeobjects.s3.us-west-2.amazonaws.com (aws-tc-largeobjects.s3.us-west-2.amazonaws.com)|52.218.1 9.186|:443... connected.
HTTP request sent, awaiting response... 200 OK
Length: 32 [text/plain]
Saving to: 'UserData.txt'

100%[====================================================================================>] 32          --.-K/s    in 0s

2023-06-30 19:19:48 (11.6 MB/s) - 'UserData.txt' saved [32 /32 ]

[ec2-user@ip-10-0-0-142 ~] cat UserData.txt
#!/bin/bash
# Install Apache Web Server
yum install -y httpd

# Turn on web server
systemctl enable httpd.service
systemctl start  httpd.service

# Download App files
wget https://aws-tc-largeobjects.s3.amazonaws.com/CUR-TF-100-RESTRT-1/1 1-lab-%5BJAWS%5D-create-ec2/dashboard-app.zip
unzip dashboard-app.zip -d /var/www/html/
[ec2-user@ip-10-0-0-142 ~]
```

i-0c4b6842d8c590985 (Bastion host) ✕

PublicIPs: 34.219.58.92   PrivateIPs: 10.0.0.142

```
[ec2-user@ip-10-0-0-142 ~] cat UserData.txt
#!/bin/bash
# Install Apache Web Server
yum install -y httpd

# Turn on web server
systemctl enable httpd.service
systemctl start httpd.service

# Download App files
wget https://aws-tc-largeobjects.s3.amazonaws.com/CUR-TF-100-RESTRT-1/1 1-lab-%5BJAWS%5D-create-ec2/dashboard-app.zip
unzip dashboard-app.zip -d /var/www/html/
[ec2-user@ip-10-0-0-142 ~] INSTANCE= (\
> aws ec2 run-instances \
> --image-id AMI \
> --subnet-id SUBNET \
> --security-group-ids SG \
> --user-data file:///home/ec2-user/UserData.txt \
> --instance-type t3.micro \
> --tag-specifications 'ResourceType=instance,Tags=[{Key-Name,Value=Web Server}]' \
> --query 'Instances[*].InstanceId' \
> --output text \
> )
[ec2-user@ip-10-0-0-142 ~] echo INSTANCE
i-0330d93 5d5938d 4
[ec2-user@ip-10-0-0-142 ~]
```

i-0c4b6842d8c590985 (Bastion host) ✕

PublicIPs: 34.219.58.92   PrivateIPs: 10.0.0.142

```
        "VirtualizationType": "hvm",
        "Tags": [
            {
                "Value": "Web Server",
                "Key": "Name"
            }
        ],
        "HibernationOptions": {
            "Configured": false
        },
        "MetadataOptions": {
            "State": "applied",
            "HttpEndpoint": "enabled",
            "HttpTokens": "optional",
            "HttpPutResponseHopLimit": 1
        },
        "AmiLaunchIndex": 0
    }
    ],
    "ReservationId": "r-06b58a51d2b55d04f",
    "Groups": [],
    "OwnerId": "0 3005045426"
    }
    ]
}
[ec2-user@ip-10-0-0-142 ~]$
```

i-0c4b6842d8c590985 (Bastion host)

PublicIPs: 34.219.58.92 PrivateIPs: 10.0.0.142

Lab complete