

1. Creación de Instancia

The screenshot shows the AWS EC2 Instances page. On the left, there's a navigation sidebar with sections like EC2, Dashboard, EC2 Global View, Events, Instances (with sub-options like Instances, Instance Types, Launch Templates, Spot Requests, Savings Plans, Reserved Instances, Dedicated Hosts, Capacity Reservations, Capacity Manager), Images (AMIs, AMI Catalog), and Elastic Block Store (Volumes). The main content area is titled 'Instances Info' and shows a search bar ('Find Instance by attribute or tag (case-sensitive)'). Below it, there are filters for 'Name' and 'Instance ID', and dropdowns for 'Instance state', 'Instance type', 'Status check', 'Alarm status', 'Availability Zone', and 'Public IPv4'. A message says 'No instances' and 'You do not have any instances in this region'. At the bottom, there's a large blue 'Launch instances' button.

escalamiento vertical y horizontal

This screenshot shows the 'Launch an instance' wizard. Step 1 is 'Name and tags'. It has a 'Name' input field containing 'demo-ec2-costos-<yennyfergomez>' and a 'Add additional tags' button. Step 2 is 'Application and OS Images (Amazon Machine Image)'. It includes a search bar, a 'Quick Start' section with icons for various operating systems (Amazon Linux, macOS, Ubuntu, Windows, Red Hat, SUSE Linux, Debian), and a 'Browse more AMIs' link. Step 3 is 'Summary', which shows 1 instance selected, the software image (Amazon Linux 2023 AMI 2023.10...), the virtual server type (t3.micro), a new security group, and 1 volume(s) - 8 GiB. It also displays a 'Free tier' message about instance usage and a 'Launch instance' button.

2.

This screenshot shows the 'Launch an instance' wizard again, this time on step 1. The 'Name and tags' section is identical to the previous one. The 'Application and OS Images (Amazon Machine Image)' section also looks similar. The 'Summary' section on the right is different, showing a different software image (Amazon Linux 2023 AMI 2023.10...), a different virtual server type (t3.micro), and a different storage configuration (1 volume(s) - 8 GiB). It also includes a 'Free tier' message and a 'Launch instance' button.

3. AMI: Amazon Linux 2023 (Free tier eligible)

The screenshot shows the AWS Quick Start interface. At the top, there's a grid of logos for various operating systems: Amazon Linux, macOS, Ubuntu, Windows, Red Hat, SUSE Linux, and Debian. To the right of the grid is a search bar with the placeholder "Browse more AMIs" and a link "Including AMIs from AWS, Marketplace and the Community". Below the grid, a section titled "Amazon Machine Image (AMI)" displays the "Amazon Linux 2023 kernel-6.1 AMI" (ami-03ea746da1a2e36e7). It includes details like "Free tier eligible", "Architecture: 64-bit (x86)", "Boot mode: uefi-preferred", "AMI ID: ami-03ea746da1a2e36e7", "Publish Date: 2026-01-22", and "Username: ec2-user | Verified provider". A note at the bottom states: "Amazon Linux 2023 (kernel-6.1) is a modern, general purpose Linux-based OS that comes with 5 years of long term support. It is optimized for AWS and designed to provide a secure, stable and high-performance execution environment to develop and run your cloud applications."

4. Tipo de instancia: t2.micro o t3.micro

The screenshot shows the "Instance type" selection page. It highlights the "t3.micro" instance type, which is described as "Free tier eligible". The instance type details include: Family: t3, 2 vCPU, 1 GiB Memory, Current generation: true; On-Demand RHEL base pricing: 0.0392 USD per Hour; On-Demand Ubuntu Pro base pricing: 0.0139 USD per Hour; On-Demand Windows base pricing: 0.0196 USD per Hour; On-Demand SUSE base pricing: 0.0104 USD per Hour; On-Demand Linux base pricing: 0.0104 USD per Hour. There is also a note: "Additional costs apply for AMIs with pre-installed software". To the right, there are links for "All generations" and "Compare instance types".

5. Key pair

The screenshot shows the "Launch an instance" wizard. It has several steps: 1. "Instance type" (t3.micro selected), with a note about additional costs for pre-installed software. 2. "Key pair (login)" (a "Create key pair" dialog is open, prompting for a "Key pair name" (e.g., "ED25519") and "Key pair type" (RSA selected). It also shows "Private key file format" options (.pem or .ppk selected). A warning message says: "⚠️ When prompted, store the private key in a secure and accessible location on your computer. You will need it later to connect to your instance. Learn more ↗". 3. "Network settings" (Network: vpc-01eae211f56055ba2, Subnet: No preference (Default subnet in any availability zone)). 4. "Summary" (Number of instances: 1, Security group: wall (security group), EBS volume(s): 1 volume(s) - 8 GiB). 5. "Free tier" information (In your first year of opening an account, you get 750 hours per month of t2.micro instance usage (or t3.micro if t2.micro isn't available) when used with AMIs, 750 hours per month of public address usage, 30 GiB of EBS storage I/Os, 1 GB of snapshots, and 100 Gbps bandwidth to the internet. Data transfer charges are not included as part of the free tier. Change my preferences).

6. Network & Security Group

▼ Key pair (login) [Info](#)

You can use a key pair to securely connect to your instance. Ensure that you have access to the selected key pair before you launch the instance.

Key pair name - required

key-pair-yennyfergomez [▼](#) [Create new key pair](#)

▼ Network settings [Info](#)

VPC - required [Info](#)

vpc-00f479057476a2db8 (default) [▼](#) [Create new VPC](#)

Subnet [Info](#)

subnet-0b2fbf6da06d9ba4b [▼](#) [Create new subnet](#)

VPC: vpc-00f479057476a2db8 Owner: 654654478122
Availability Zone: us-east-1d (use1-aZ6) Zone type: Availability Zone
IP addresses available: 4091 CIDR: 172.31.32.0/20

Auto-assign public IP [Info](#)

Enable [▼](#)

Additional charges apply when outside of free tier allowance

Additional charges apply when outside of free tier allowance

Firewall (security groups) [Info](#)

A security group is a set of firewall rules that control the traffic for your instance. Add rules to allow specific traffic to reach your instance.

Create security group Select existing security group

Security group name - required

sg-yennyfergomez

This security group will be added to all network interfaces. The name can't be edited after the security group is created. Max length is 255 characters. Valid characters: a-z, A-Z, 0-9, spaces, and _-:/()#@[]+=&;!\$^*

Description - required [Info](#)

laboratorio 5 de febrero

7. Storage

▼ Storage (volumes) [Info](#) [Simple](#) [Hide details](#)

EBS Volumes

▼ Volume 1 (AMI Root) (Custom)

Storage type Info EBS	Device name - required Info /dev/xvda	Snapshot Info snap-09c6080e76e2ee4fc
Size (GiB) Info 8	Volume type Info gp3 Free tier eligible ▼	IOPS Info 3000
Delete on termination Info Yes ▼	Encrypted Info Not encrypted ▼	KMS key Info Select ▼ KMS keys are only applicable when encryption is set on this volume.
Throughput Info 125	Volume initialization rate - new, optional Info <input type="text"/> Enter a value Min: 100 MiB/s, Max: 300 MiB/s. Additional charges apply ▼	

▼ Configure storage [Info](#)

Advanced

1x 8 GiB gp3 ▾ Root volume, 3000 IOPS, Not encrypted

[\(i\) Free tier eligible customers can get up to 30 GB of EBS General Purpose \(SSD\) or Magnetic storage](#) X

[Add new volume](#)

(i) Click refresh to view backup information
The tags that you assign determine whether the instance will be backed up by any Data Lifecycle Manager policies.

0 x File systems [Edit](#)

7.1 Advanced details → User data

```

# Amazon Linux 2023
# https://aws.amazon.com/linux/amazon-linux-2023
# v~'`-->
# /m/
[ec2-user@ip-172-31-34-55 ~]$ sudo su
[root@ip-172-31-34-55 ec2-user]# yum update -y
>Last metadata expiration check: 0:21:19 ago on Fri Feb  6 01:48:36 2026.
=====
*WARNING:
  A newer release of "Amazon Linux" is available.

Available Versions:
Version 2023.10.20260202:
  Run the following command to upgrade to 2023.10.20260202:
    dnf upgrade --releasever=2023.10.20260202

Release notes:
  https://docs.aws.amazon.com/linux/al2023/release-notes/relnotes-2023.10.20260202.html

=====
Dependencies resolved.
Nothing to do.
Complete!
[root@ip-172-31-34-55 ec2-user]# yum install -y httpd
>Last metadata expiration check: 0:21:36 ago on Fri Feb  6 01:48:36 2026.
Package httpd-2.4.66-1.amzn2023.0.1.x86_64 is already installed.
Dependencies resolved.
Nothing to do.
Complete!
[root@ip-172-31-34-55 ec2-user]# systemctl start httpd
[root@ip-172-31-34-55 ec2-user]# systemctl start httpd
[root@ip-172-31-34-55 ec2-user]# systemctl enable httpd
[root@ip-172-31-34-55 ec2-user]# echo "<h1>Hola desde mi primera EC2 en AWS &lt;/h1><p>Instancia creada usando <b>User Data</b></p><p>Fecha: $(date)</p>" >/var/www/html/index.html
[root@ip-172-31-34-55 ec2-user]# systemctl restart httpd
[root@ip-172-31-34-55 ec2-user]# ^[[200-echo "<h1>Hola desde mi primera EC2 en AWS &lt;/h1><p>Instancia creada usando <b>User Data</b></p><p>Fecha: $(date)</p>" >/var/www/html/index.html-
bash: $'\E[200-echo': command not found
[root@ip-172-31-34-55 ec2-user]# echo "<h1>Hola desde mi primera EC2 en AWS &lt;/h1><p>Instancia creada usando <b>User Data</b></p><p>Fecha: $(date)</p>" >/var/www/html/index.html
[root@ip-172-31-34-55 ec2-user]#

```

8. Launch

[\(i\) Success](#)
Successfully initiated launch of instance ([i-03ed6b3d8f0341940](#))

[▶ Launch log](#)

Instance summary for i-03ed6b3d8f0341940 (demo-ec2-costos-<Yennyfergomez>) [Info](#)

[Connect](#) [Instance state ▾](#) [Actions ▾](#)

Updated less than a minute ago

Instance ID i-03ed6b3d8f0341940	Public IPv4 address 54.166.154.40 open address ↗	Private IPv4 addresses 172.31.36.197
IPv6 address –	Instance state Running	Public DNS ec2-54-166-154-40.compute-1.amazonaws.com open address ↗
Hostname type IP name: ip-172-31-36-197.ec2.internal	Private IP DNS name (IPv4 only) ip-172-31-36-197.ec2.internal	Elastic IP addresses –
Answer private resource DNS name –	Instance type t3.micro	AWS Compute Optimizer finding ✖ User: arn:aws:iam::654654478122:user/students/andreag3578@hotmail.com is not authorized to perform: compute-optimizer:GetEnrollmentStatus on resource: * because no identity-based policy allows the compute-optimizer:GetEnrollmentStatus action Retry
Auto-assigned IP address 54.166.154.40 [Public IP]	VPC ID vpc-00f479057476a2db8 ↗	

8.1 Instance Connec

[Details](#) [Status and alarms](#) [Monitoring](#) [Security](#) [Networking](#) [Storage](#) [Tags](#)

▼ Instance details [Info](#)

AMI ID ami-0532be01f26a3de55	Monitoring disabled	Platform details Linux/UNIX
AMI name al2023-ami-2023.10.20260120.4-kernel-6.1-x86_64	Allowed image –	Termination protection Disabled
Stop protection Disabled	Launch time Thu Feb 05 2026 20:43:48 GMT-0500 (hora estándar de Colombia) (1 minute)	AMI location amazon/al2023-ami-2023.10.20260120.4-kernel-6.1-x86_64
Instance reboot migration Default (On)	Instance auto-recovery Default	Lifecycle normal
Stop-hibernate behavior Disabled	AMI Launch index 0	Key pair assigned at launch key-pair-yennyfergomez
State transition reason –	Credit specification unlimited	Kernel ID –
State transition message –	Usage operation RunInstances	RAM disk ID –
Owner 654654478122	Enclaves Support Disabled	Boot mode uefi-preferred

9.

Hola desde mi primera EC2 en AWS 

Instancia creada usando **User Data**

Fecha: 6 de febrero