

# TAREA FINAL AWS

## PARTE 1: Creación de una VPC y configuración de red

1-Entramos al servicio VPC y le damos a crear VPC con el nombre VPC-Examen en el rango de direcciones 192.168.0.0/16

### Create VPC [Info](#)

A VPC is an isolated portion of the AWS Cloud populated by AWS objects, such as Amazon EC2 instances.

#### VPC settings

##### Resources to create [Info](#)

Create only the VPC resource or the VPC and other networking resources.

☒ VPC only

☐ VPC and more

##### Name tag - optional

Creates a tag with a key of 'Name' and a value that you specify.

VPC-Examen

##### IPv4 CIDR block [Info](#)

☒ IPv4 CIDR manual input

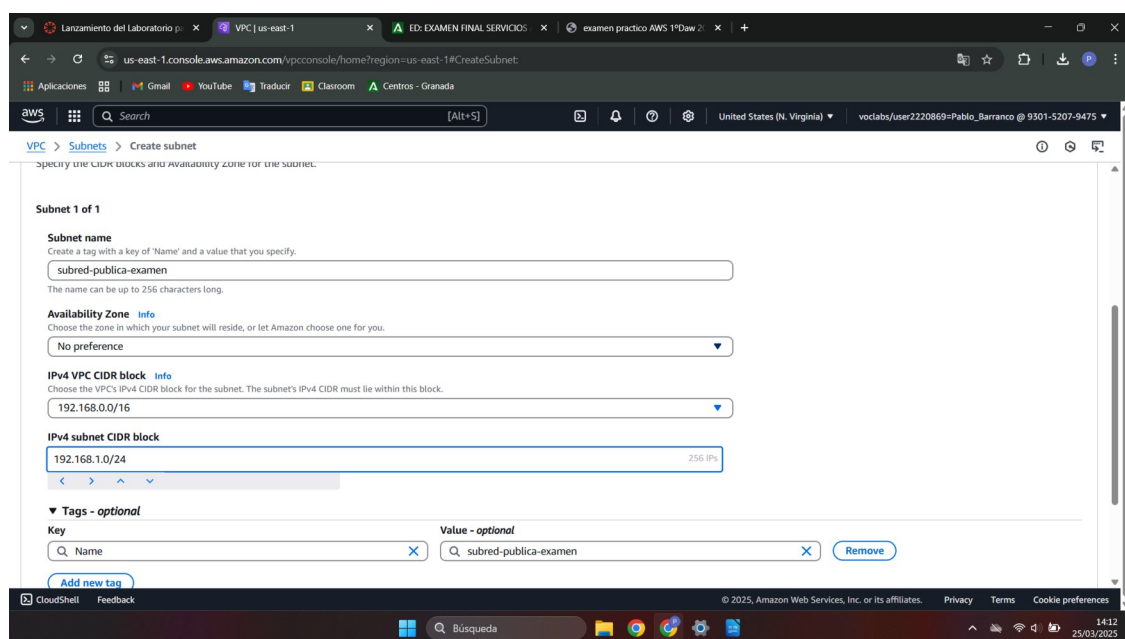
☐ IPAM-allocated IPv4 CIDR block

##### IPv4 CIDR

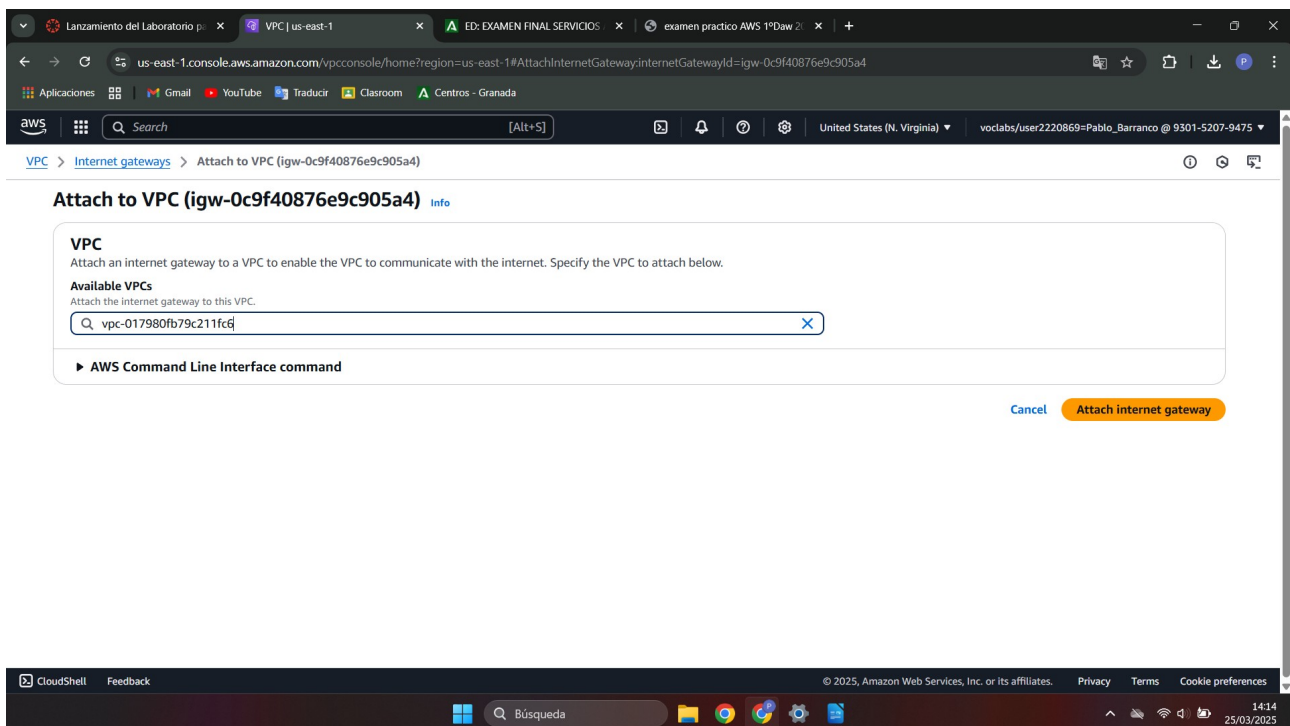
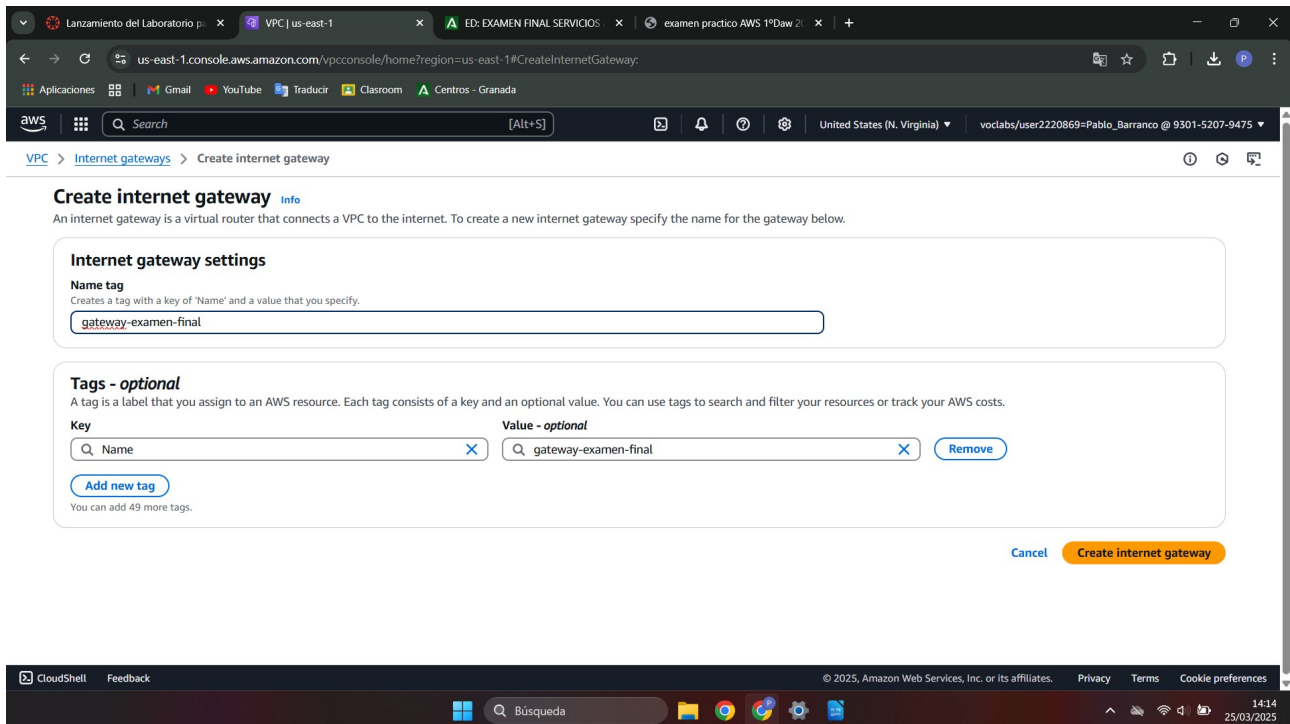
192.168.0.0/16

CIDR block size must be between /16 and /28.

2- Creamos una subred pública en el rango 192.168.1.0/24.



### 3- Creamos un gateway de internet y lo asociamos a la vpc-examen.



#### 4. Crear una tabla de enrutamiento y asociarla a la subred publica.

The screenshot shows the AWS Management Console interface for creating a new route table. The browser tabs include 'Lanzamiento del Laboratorio p...', 'VPC | us-east-1', 'ED: EXAMEN FINAL SERVICIOS', and 'examen practico AWS 1ºDaw 2º'. The URL is 'us-east-1.console.aws.amazon.com/vpconsole/home?region=us-east-1#CreateRouteTable:'. The page title is 'Create route table' with an 'Info' link. A descriptive text states: 'A route table specifies how packets are forwarded between the subnets within your VPC, the internet, and your VPN connection.'

**Route table settings**

**Name - optional**  
Create a tag with a key of 'Name' and a value that you specify.  
enrutamiento-examen-final

**VPC**  
The VPC to use for this route table.  
vpc-017980fb79c211fc6 (VPC-Examen)

**Tags**  
A tag is a label that you assign to an AWS resource. Each tag consists of a key and an optional value. You can use tags to search and filter your resources or track your AWS costs.

**Key**  
Name

**Value - optional**  
enrutamiento-examen-final

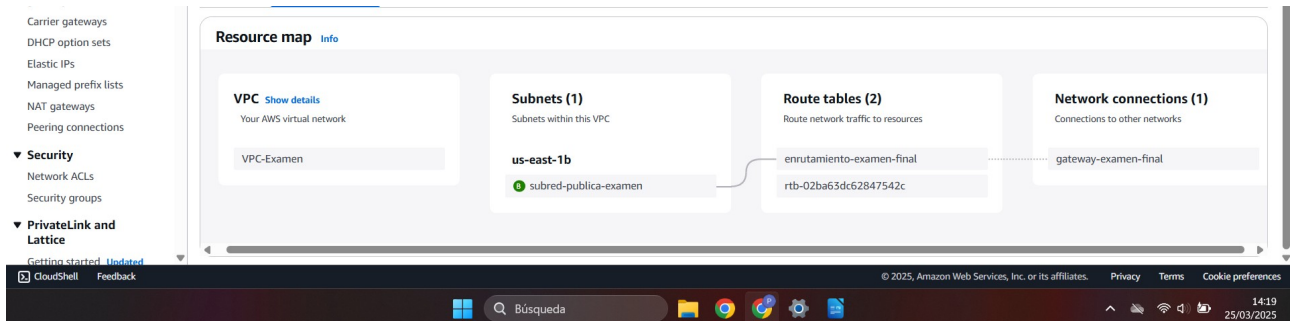
Buttons: 'Add new tag', 'Cancel', 'Create route table'.

The screenshot shows the AWS Management Console interface for editing routes in a specific route table. The browser tabs are the same as the previous screenshot. The URL is 'us-east-1.console.aws.amazon.com/vpconsole/home?region=us-east-1#EditRoutes.RouteTableId=rtb-032e84d2cf32ff8c6'. The page title is 'Edit routes'.

| Destination    | Target           | Status | Propagated |
|----------------|------------------|--------|------------|
| 192.168.0.0/16 | local            | Active | No         |
| 0.0.0.0/0      | Internet Gateway | -      | No         |

Buttons: 'Add route', 'Cancel', 'Preview', 'Save changes'.

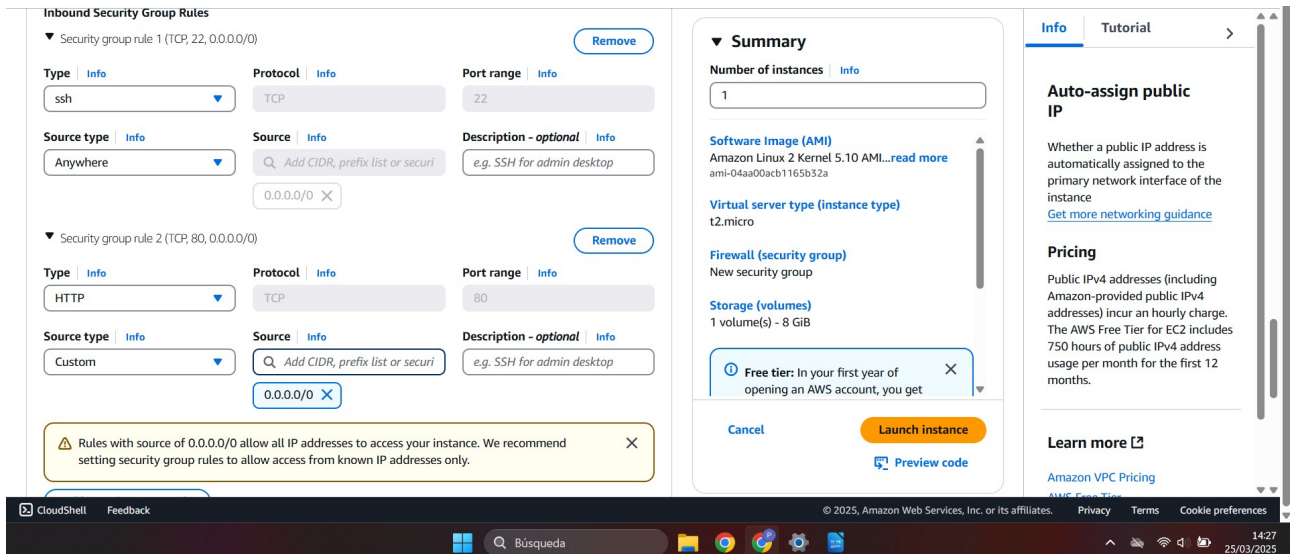
5. Con esto ya tendríamos toda la vpc configurada, con una subred publica con su puerta de enlace y su tabla de enrutamiento.



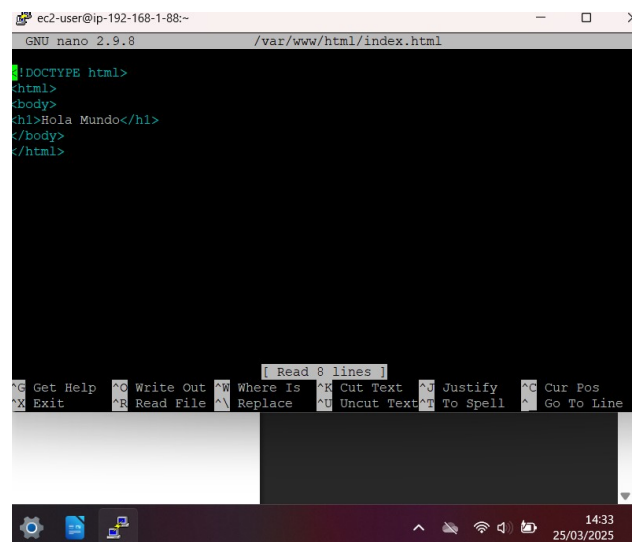
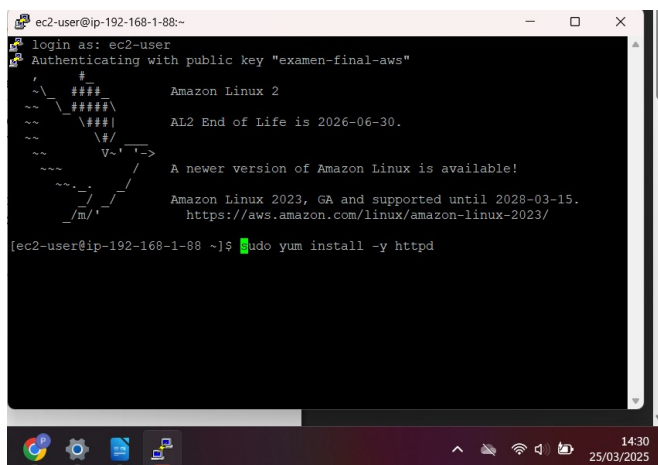
## PARTE 2: Creación y configuración de una instancia EC2

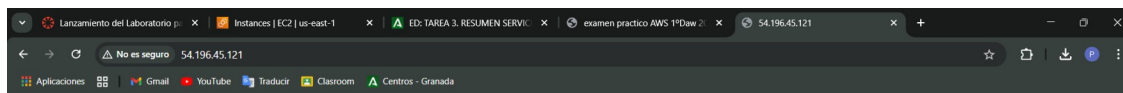
1- Crear una imagen de Amazon Linux dentro de la subred publica que habíamos creado y habilitamos el acceso de SSH y HTTP (Habilitar que asigne ip publica).

The screenshot shows the AWS EC2 instance creation wizard. The 'Network settings' section is expanded, showing the 'VPC' as 'vpc-017980fb79c211fc6 (VPC-Examen)' and the 'Subnet' as 'subred-publica-examen'. The 'Auto-assign public IP' option is set to 'Enable'. The 'Firewall (security groups)' section shows 'Create security group' selected, with the 'Security group name' set to 'launch-wizard-1'. The 'Summary' section shows the 'Number of instances' as 1, the 'Software Image (AMI)' as 'Amazon Linux 2 Kernel 5.10 AML...', the 'Virtual server type (instance type)' as 't2.micro', and the 'Firewall (security group)' as 'New security group'. The 'Storage (volumes)' section shows '1 volume(s) - 8 GiB'. The 'Launch instance' button is highlighted, and a 'Free tier' notification is displayed.



2- Ahora entraremos a la instancia a través de SSH y instalaremos el apache y crearemos una web de prueba para terminar este apartado.





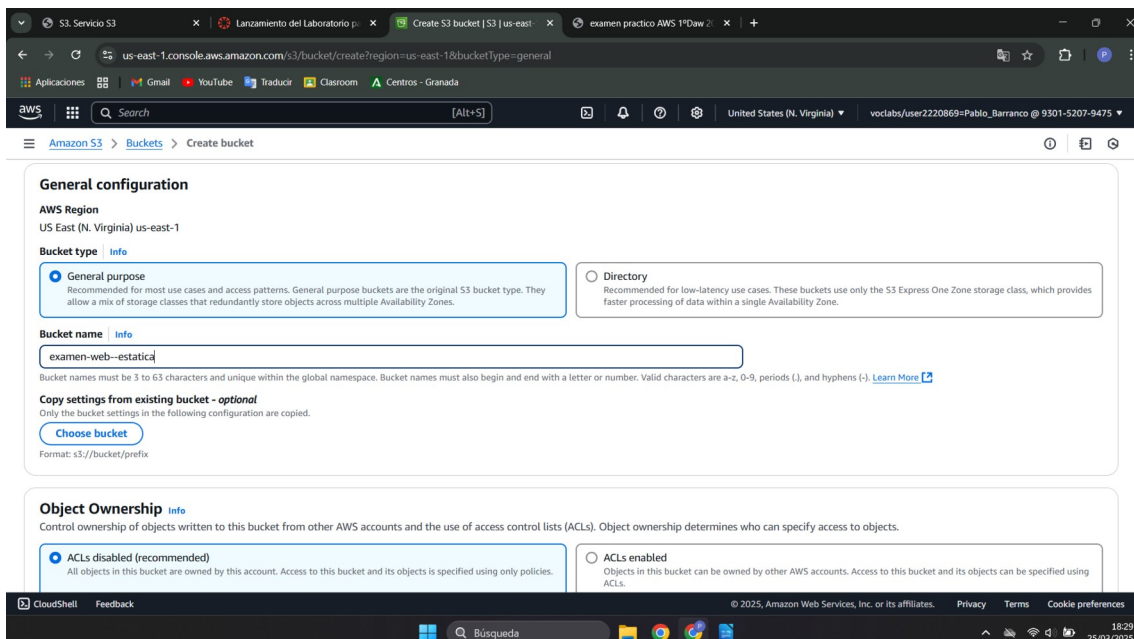
Hola Mundo



Como vemos, se ha instalado correctamente el apache en la instancia y al crear el index.html y poner la ip publica en el navegador saldría la página web creada.

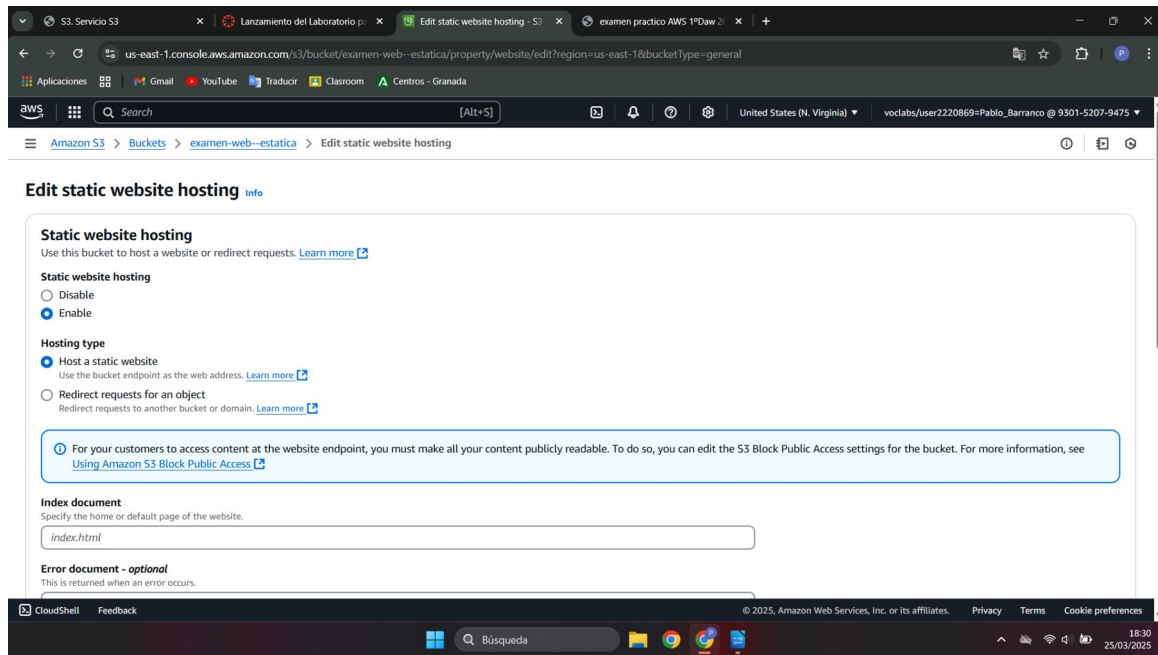
## Parte 3: Creación de un Bucket S3 y Página Web Estática

1- Entraremos al servicio s3 y crearemos un bucket con el nombre “examen-web-estatica”

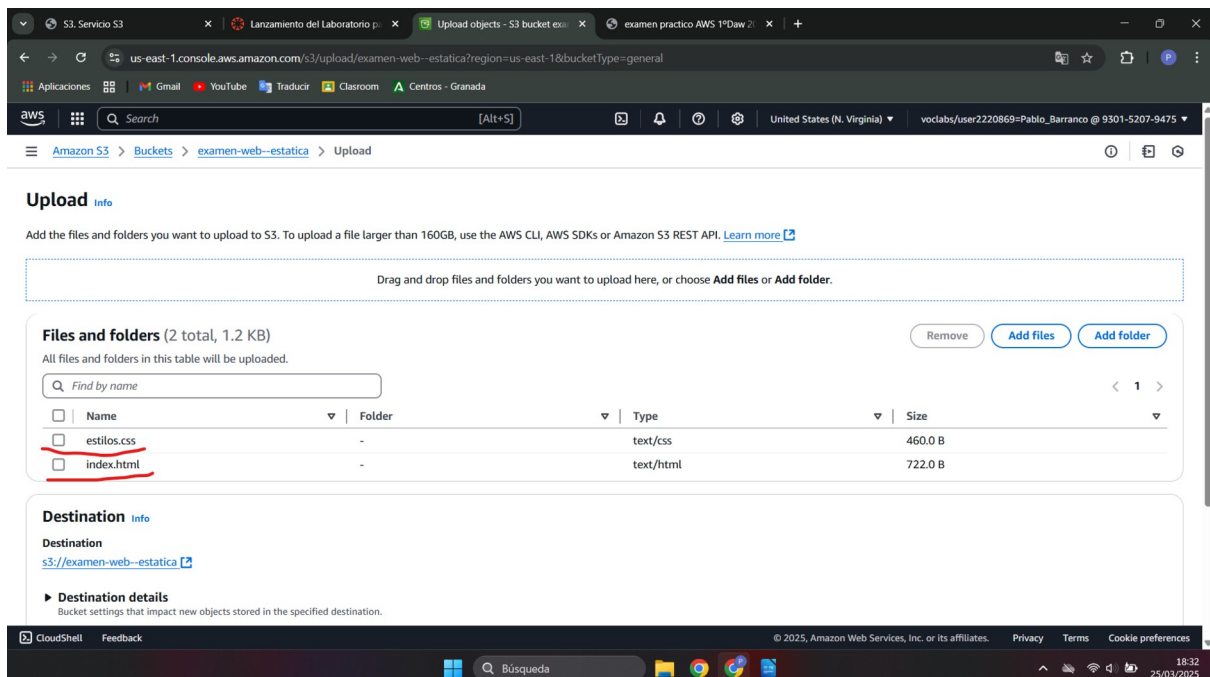


2-Configuraremos el bucket para que permita el alojamiento de un sitio web estática.( Poner la opción de static website hosting como enable).



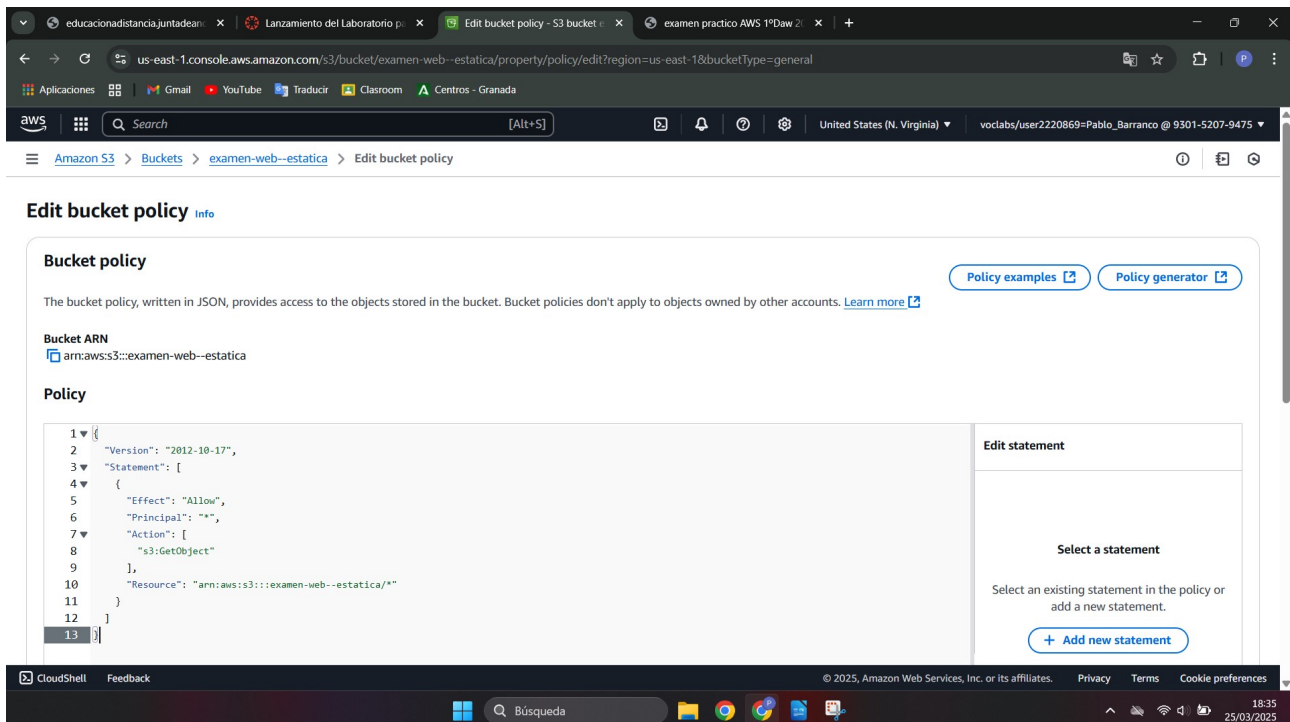


3- Ahora subimos un archivo index.html y un estilos.css por ejemplo al bucket.

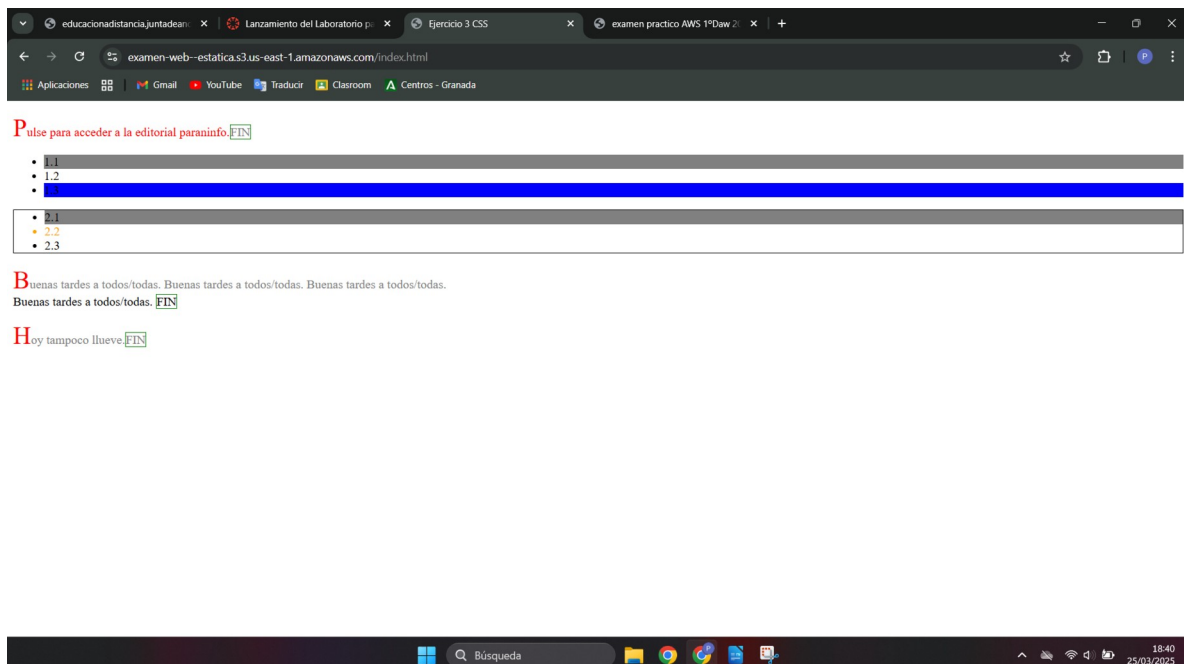


Como vemos subrayado en rojo, en el bucket examen-web—estatica hemos subido un index.html y un estilos.css

4- Por último, modificar los permisos de la política del bucket para que el contenido sea accesible públicamente.



5- Entraríamos a la dirección del bucket a comprobar si funciona la página web.

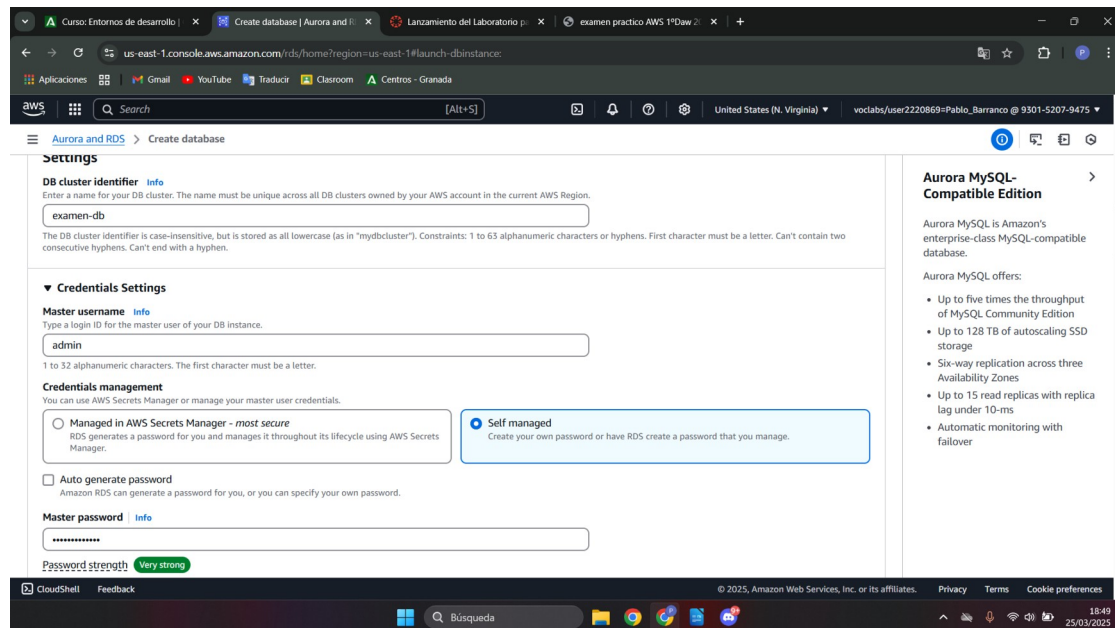


Como vemos en la url hemos entrado en el index.html del bucket por lo que todo estaría bien ejecutado.



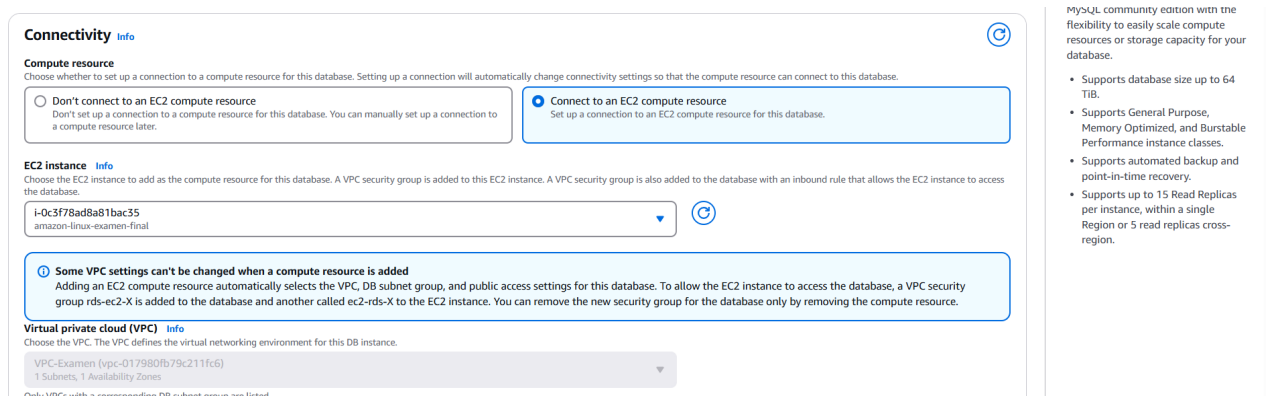
## Parte 4: Creación de una base de datos en RDS

1- Accedemos al servicio RDS y crearemos una instancia gratuita de Mysql configurada con los siguientes parámetros:



The screenshot shows the AWS Management Console 'Create database' page for Aurora MySQL. The page is titled 'Create database' and shows the 'Settings' section. The 'DB cluster identifier' is 'examen-db'. The 'Credentials Settings' section shows the 'Master username' as 'admin'. The 'Credentials management' section shows 'Managed in AWS Secrets Manager - most secure' selected. The 'Master password' is masked with dots, and the 'Password strength' is 'Very strong'. The sidebar on the right shows 'Aurora MySQL- Compatible Edition' with a list of features.

2- Indicaremos que se le va a aplicar a la maquina ec2 anteriormente creada y le damos a crear y como vemos se ha creado correctamente.



The screenshot shows the AWS Management Console 'Connectivity' page for the database instance. The page shows the 'Compute resource' section with 'Connect to an EC2 compute resource' selected. The 'EC2 instance' section shows the instance 'i-0c3f78ad8a81bac35' selected. A warning message states: 'Some VPC settings can't be changed when a compute resource is added. Adding an EC2 compute resource automatically selects the VPC, DB subnet group, and public access settings for this database. To allow the EC2 instance to access the database, a VPC security group rds-ec2-X is added to the database and another called ec2-rds-X to the EC2 instance. You can remove the new security group for the database only by removing the compute resource.' The 'Virtual private cloud (VPC)' section shows 'VPC-Examen (vpc-017980fb79c211fc6)' selected.

The screenshot displays the AWS Aurora and RDS console interface. The browser address bar shows the URL `us-east-1.console.aws.amazon.com/rds/home?region=us-east-1#databases`. The console header includes the AWS logo, a search bar, and the user's account information: `voclabs/user2220869=Pablo_Barranco @ 9301-5207-9475`.

The left-hand navigation pane is titled "Aurora and RDS" and contains the following menu items: Dashboard, Databases (selected), Query Editor, Performance insights, Snapshots, Exports in Amazon S3, Automated backups, Reserved instances, Proxies, Subnet groups, Parameter groups, Option groups, Custom engine versions, Zero-ETL integrations (with a "New" link), Events, Event subscriptions, and Recommendations (with a "0" badge).

The main content area features a blue banner at the top with the message: "Creating database exam-en-db. Your database might take a few minutes to launch. You can use settings from exam-en-db to simplify configuration of suggested database add-ons while we finish creating your DB for you." A "View credential details" button is located on the right side of the banner.

Below the banner, the "Databases (1)" section is visible. It includes a search bar labeled "Filter by databases" and a table of database instances. The table has columns for DB identifier, Status, Role, Engine, Region, Size, Recommendations, and CPU. One instance is listed: `exam-en-db` with a status of "Creating", role of "Instance", engine of "MySQL Co...", region of "us-east-1b", size of "db.t3.micro", and CPU of "-".

The bottom of the image shows a Windows taskbar with the Start button, a search bar labeled "Búsqueda", and several application icons. The system clock in the bottom right corner indicates the time is 19:06 on 25/03/2025.