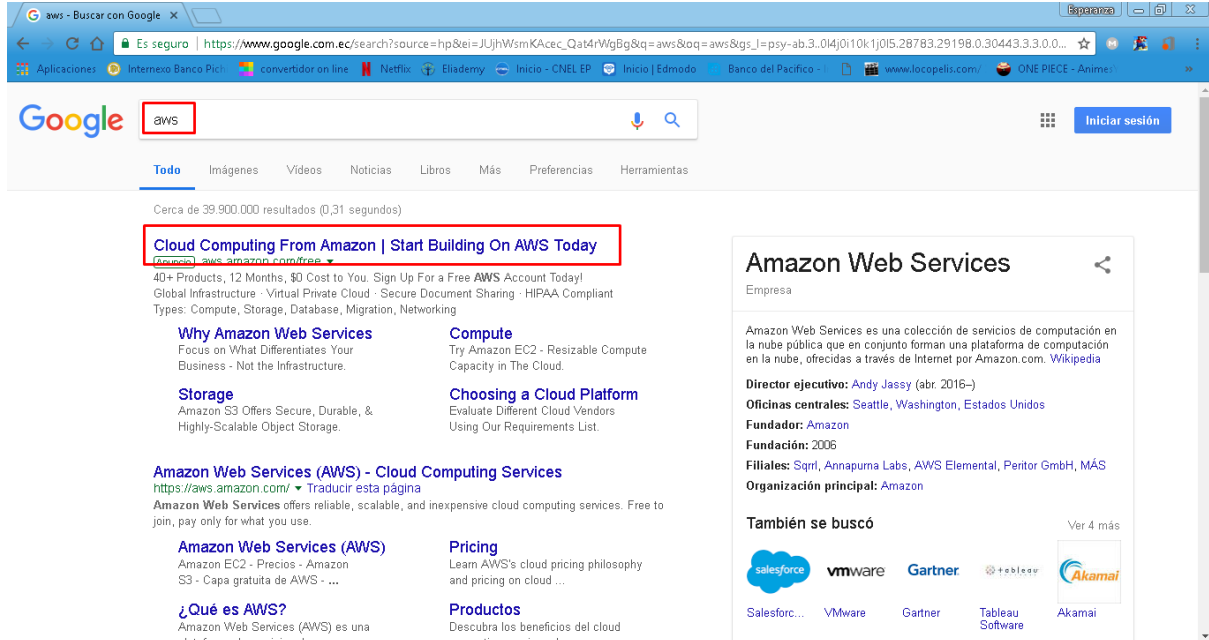
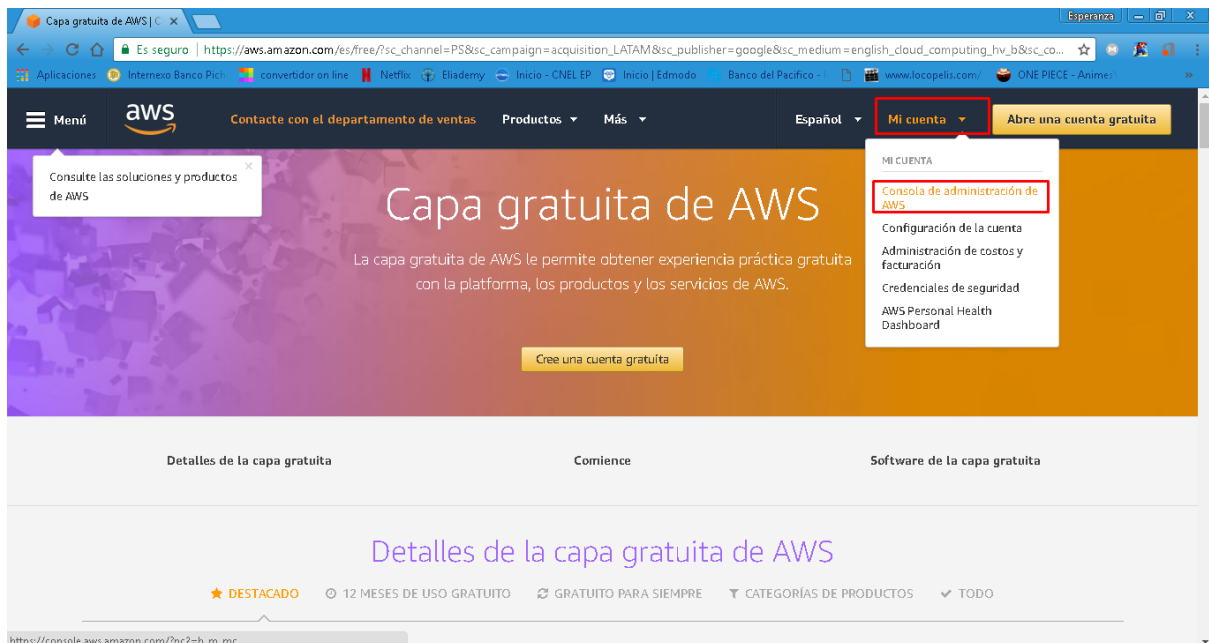


## CREACIÓN DE MÁQUINAS VIRTUALES EN AWS

Abrimos el navegador y digitamos: aws



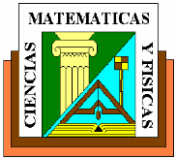
Escogemos la primera opción, nos cargara la página principal de Amazon web services, para ingresar debemos seleccionar la opción Mi Cuenta y en el menú desplegable escoger Consola de Administración AWS



Ingresamos digitando el correo del administrador del dueño de la cuenta o en su defecto los usuarios que se les ha otorgado:



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Amazon Web Services Sign in

Es seguro | [https://signin.aws.amazon.com/signin?redirect\\_uri=https%3A%2F%2Fconsole.aws.amazon.com%2Fconsole%2Fhome%3Fstate%3DhashArgs%2523%26isauth...](https://signin.aws.amazon.com/signin?redirect_uri=https%3A%2F%2Fconsole.aws.amazon.com%2Fconsole%2Fhome%3Fstate%3DhashArgs%2523%26isauth...)

Aplicaciones | Intermedio Banco Pichincha | convertidor on line | Netflix | Elademy | Inicio - CNEI EP | Inicio | Edmodo | Banco del Pacífico | www.locopelis.com/ | ONE PIECE - Anime

**aws**

**Iniciar sesión**


**Dirección de correo electrónico de su cuenta de AWS**

Para iniciar sesión como usuario de IAM, escriba su ID de cuenta o su alias de cuenta según proceda.

**Siguiente**

¿Es nuevo en AWS?

**Crear una cuenta de AWS**



**Las cuentas de AWS incluyen 12 meses de acceso a capas gratuitas**

Incluye el uso de Amazon EC2, Amazon S3 y Amazon RDS

Visite [aws.amazon.com/free](https://aws.amazon.com/free) para leer las condiciones completas de la oferta.

Acerca del inicio de sesión en Amazon.com

En cuenta ingresamos lesstraffic, seguido de nuestro usuario y contraseña

Amazon Web Services Sign in

Es seguro | [https://signin.aws.amazon.com/oauth?redirect\\_uri=https%3A%2F%2Fconsole.aws.amazon.com%2Fconsole%2Fhome%3Fstate%3DhashArgs%2523%26isau...](https://signin.aws.amazon.com/oauth?redirect_uri=https%3A%2F%2Fconsole.aws.amazon.com%2Fconsole%2Fhome%3Fstate%3DhashArgs%2523%26isau...)

Aplicaciones | Intermedio Banco Pichincha | convertidor on line | Netflix | Elademy | Inicio - CNEI EP | Inicio | Edmodo | Banco del Pacífico | www.locopelis.com/ | ONE PIECE - Anime

**aws**

**Cuenta:**

**Nombre de usuario:**

**Contraseña:**


**Iniciar sesión**

[Iniciar sesión utilizando credenciales de cuenta raíz](#)

**Amazon Aurora**

La seguridad y fiabilidad de las bases de datos comerciales a una fracción del costo

[Más información](#)

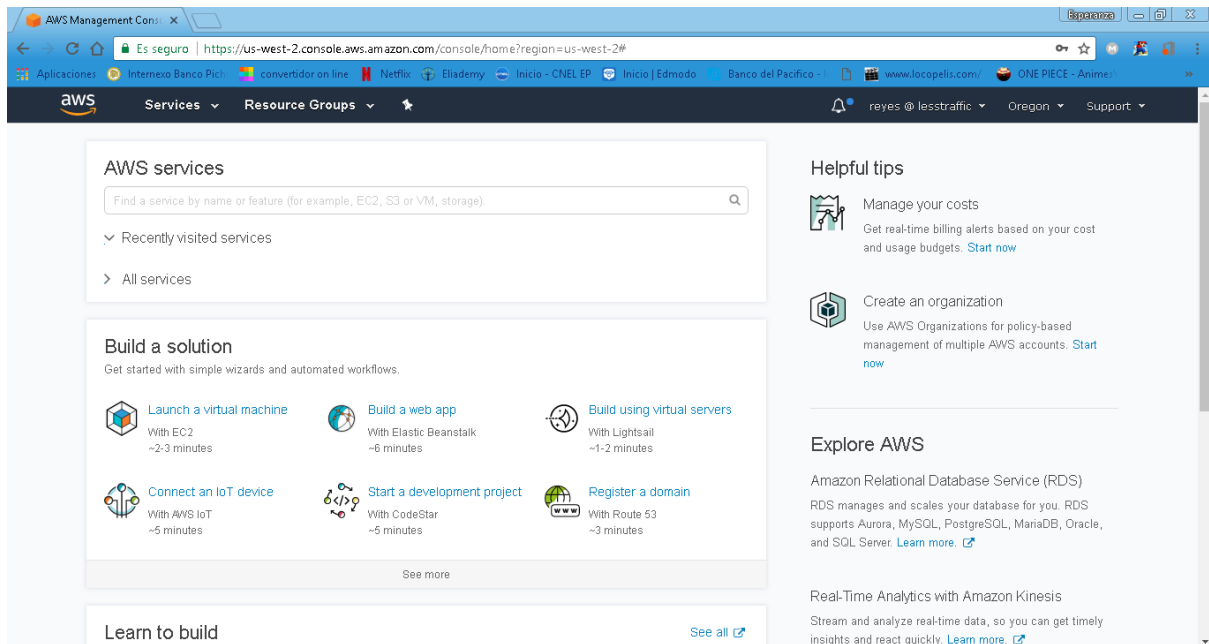
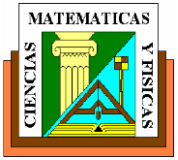


Español

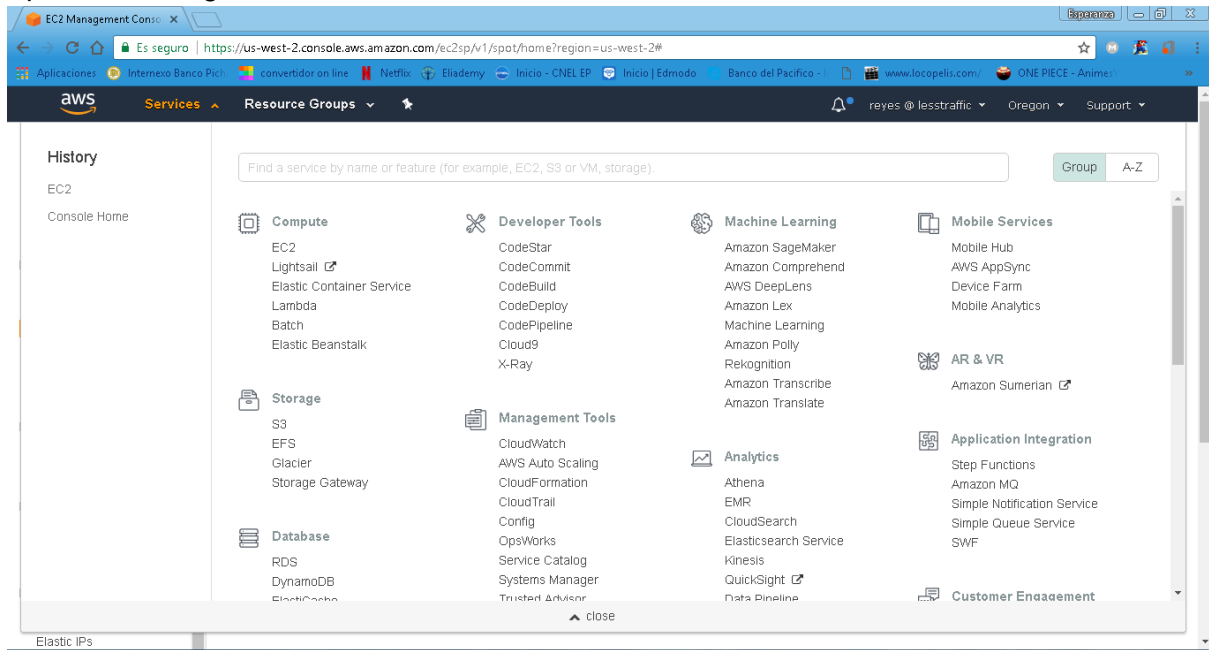
Una vez logueados ingresamos a la siguiente pantalla:



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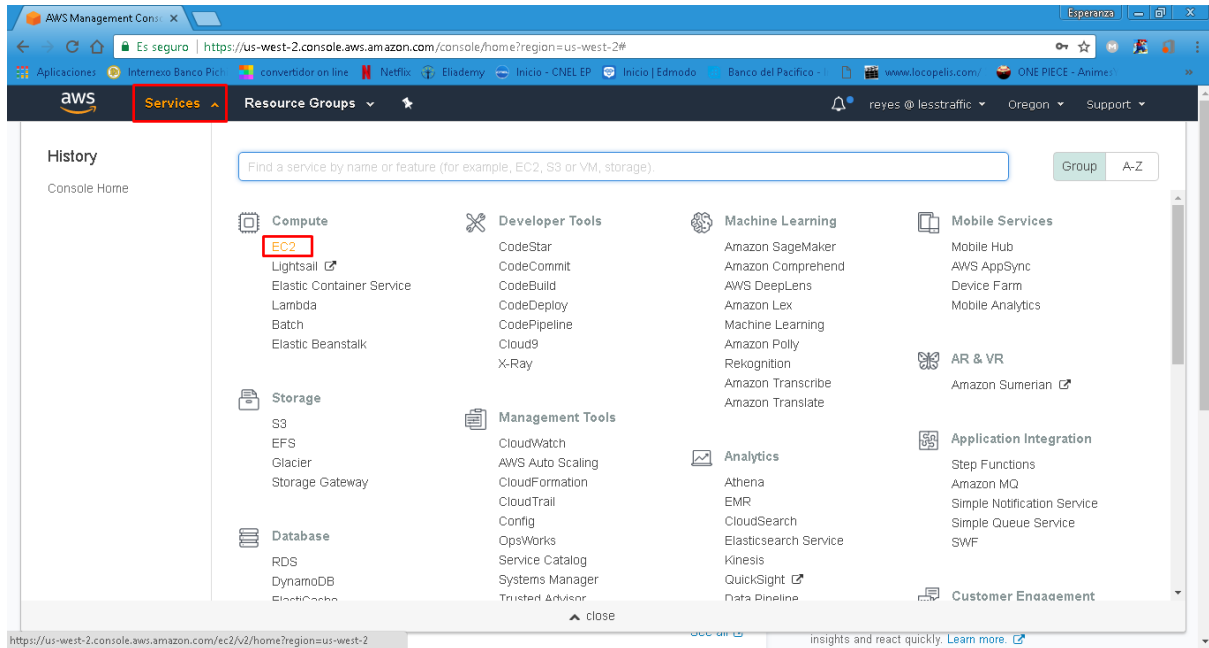
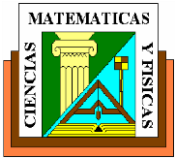
Aparecerá lo siguiente:



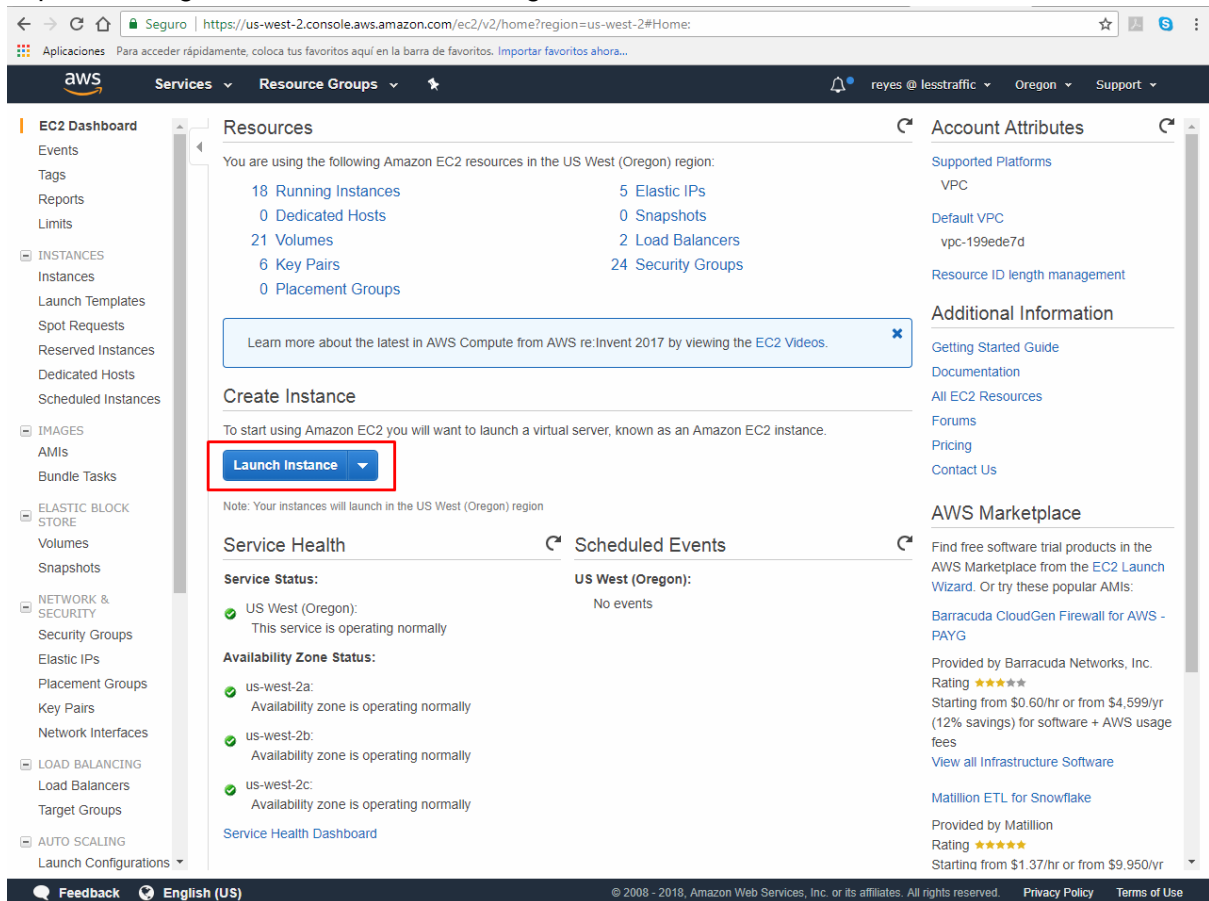
Estando allí nos dirigimos a la opción **Services** y en el menú desplegable escogemos la opción **EC2**



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Presionamos sobre la opción Launch Instance debemos percatarnos que en la parte superior la región seleccionada sea Oregon:

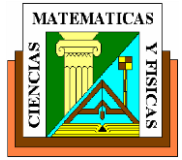


Aquí podemos observar todas las máquinas que podemos instalar

Alan Reyes Bacusoy



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Seguro | https://us-west-2.console.aws.amazon.com/ec2/v2/home?region=us-west-2#LaunchInstanceWizard:

Aplicaciones Para acceder rápidamente, coloca tus favoritos aquí en la barra de favoritos. Importar favoritos ahora...

aws Services Resource Groups reyes @ lesstraffic Oregon Support

1. Choose AMI 2. Choose Instance Type 3. Configure Instance 4. Add Storage 5. Add Tags 6. Configure Security Group 7. Review

Cancel and Exit

### Step 1: Choose an Amazon Machine Image (AMI)

An AMI is a template that contains the software configuration (operating system, application server, and applications) required to launch your instance. You can select an AMI provided by AWS, our user community, or the AWS Marketplace; or you can select one of your own AMIs.

Quick Start

My AMIs

AWS Marketplace

Community AMIs

☐ Free tier only ⓘ

Amazon Linux

Free tier eligible

**Amazon Linux AMI 2018.03.0 (HVM), SSD Volume Type** - ami-6b8cef13

The Amazon Linux AMI is an EBS-backed, AWS-supported image. The default image includes AWS command line tools, Python, Ruby, Perl, and Java. The repositories include Docker, PHP, MySQL, PostgreSQL, and other packages.

Root device type: ebs Virtualization type: hvm ENA Enabled: Yes

64-bit

Select

Amazon Linux

Free tier eligible

**Amazon Linux 2 LTS Candidate 2 AMI (HVM), SSD Volume Type** - ami-07eb707f

Amazon Linux 2 LTS Candidate 2 provides an updated version of the Linux Kernel (4.14) tuned for EC2, systemd support, a newer compiler (gcc 7.3), an updated C runtime (glibc 2.26), newer tooling (binutils 2.29.1), and the latest software packages through the extras mechanisms.

Root device type: ebs Virtualization type: hvm ENA Enabled: Yes

64-bit

Select

SUSE Linux

Free tier eligible

**SUSE Linux Enterprise Server 12 SP3 (HVM), SSD Volume Type** - ami-6bc56f13

SUSE Linux Enterprise Server 12 Service Pack 3 (HVM), EBS General Purpose (SSD) Volume Type. Public Cloud, Advanced Systems Management, Web and Scripting, and Legacy modules enabled.

Root device type: ebs Virtualization type: hvm ENA Enabled: Yes

64-bit

Select

Red Hat

Free tier eligible

**Red Hat Enterprise Linux 7.4 (HVM), SSD Volume Type** - ami-223f945a

Red Hat Enterprise Linux version 7.4 (HVM), EBS General Purpose (SSD) Volume Type

Root device type: ebs Virtualization type: hvm ENA Enabled: Yes

64-bit

Select

Ubuntu

Free tier eligible

**Ubuntu Server 16.04 LTS (HVM), SSD Volume Type** - ami-4e79ed36

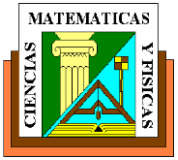
Ubuntu Server 16.04 LTS (HVM), EBS General Purpose (SSD) Volume Type. Support available from Canonical (<http://www.ubuntu.com/cloud/services>).

64-bit

Select



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Escogemos la el tipo de sistema operativo que deseamos instalar:

Step 1: Choose an Amazon Machine Image (AMI)

An AMI is a template that contains the software configuration (operating system, application server, and applications) required to launch your instance. You can select an AMI provided by AWS, our user community, or the AWS Marketplace; or you can select one of your own AMIs.

| Quick Start                             | 1 to 36 of 36 AMIs   |
|---|--|
| My AMIs                                 | <b>Amazon Linux AMI 2018.03.0 (HVM), SSD Volume Type</b> - ami-6b8cef13<br>Amazon Linux<br>Free tier eligible<br>The Amazon Linux AMI is an EBS-backed, AWS-supported image. The default image includes AWS command line tools, Python, Ruby, Perl, and Java. The repositories include Docker, PHP, MySQL, PostgreSQL, and other packages.<br>Root device type: ebs Virtualization type: hvm ENA Enabled: Yes<br>64-bit<br><b>Select</b>   |
| AWS Marketplace                         | <b>Amazon Linux 2 LTS Candidate 2 AMI (HVM), SSD Volume Type</b> - ami-07eb707f<br>Amazon Linux<br>Free tier eligible<br>Amazon Linux 2 LTS Candidate 2 provides an updated version of the Linux Kernel (4.14) tuned for EC2, systemd support, a newer compiler (gcc 7.3), an updated C runtime (glibc 2.26), newer tooling (binutils 2.29.1), and the latest software packages through the extras mechanisms.<br>Root device type: ebs Virtualization type: hvm ENA Enabled: Yes<br>64-bit<br><b>Select</b> |
| Community AMIs                          | <b>SUSE Linux Enterprise Server 12 SP3 (HVM), SSD Volume Type</b> - ami-6bc56f13<br>SUSE Linux<br>Free tier eligible<br>SUSE Linux Enterprise Server 12 Service Pack 3 (HVM), EBS General Purpose (SSD) Volume Type. Public Cloud, Advanced Systems Management, Web and Scripting, and Legacy modules enabled.<br>Root device type: ebs Virtualization type: hvm ENA Enabled: Yes<br>64-bit<br><b>Select</b>   |
| <input type="checkbox"/> Free tier only | <b>Red Hat Enterprise Linux 7.4 (HVM), SSD Volume Type</b> - ami-223f945a<br>Red Hat<br>Free tier eligible<br>Red Hat Enterprise Linux version 7.4 (HVM), EBS General Purpose (SSD) Volume Type<br>Root device type: ebs Virtualization type: hvm ENA Enabled: Yes<br>64-bit<br><b>Select</b>  |
|   | <b>Ubuntu Server 16.04 LTS (HVM), SSD Volume Type</b> - ami-4e79ed36<br>Ubuntu<br>Free tier eligible<br>Ubuntu Server 16.04 LTS (HVM), EBS General Purpose (SSD) Volume Type. Support available from Canonical ( <a href="http://www.ubuntu.com/cloud/services">http://www.ubuntu.com/cloud/services</a> ).<br>64-bit<br><b>Select</b>   |

En la parte superior podemos ver que tenemos varias pestañas de configuración:



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Seguro | https://us-west-2.console.aws.amazon.com/ec2/v2/home?region=us-west-2#LaunchInstanceWizard:

Aplicaciones Para acceder rápidamente, coloca tus favoritos aquí en la barra de favoritos. Importar favoritos ahora...

aws Services Resource Groups reyes @ lesstraffic Oregon Support

1. Choose AMI 2. Choose Instance Type 3. Configure Instance 4. Add Storage 5. Add Tags 6. Configure Security Group 7. Review

### Step 2: Choose an Instance Type

Amazon EC2 provides a wide selection of instance types optimized to fit different use cases. Instances are virtual servers that can run applications. They have varying combinations of CPU, memory, storage, and networking capacity, and give you the flexibility to choose the appropriate mix of resources for your applications. [Learn more](#) about instance types and how they can meet your computing needs.

Filter by: All instance types Current generation Show/Hide Columns

Currently selected: t2.micro (Variable ECUs, 1 vCPUs, 2.5 GHz, Intel Xeon Family, 1 GiB memory, EBS only)

|                                     | Family          | Type                           | vCPUs | Memory (GiB) | Instance Storage (GB) | EBS-Optimized Available | Network Performance | IPv6 Support |
|-------------------------------------|-----------------|--------------------------------|-------|--------------|-----------------------|-------------------------|---------------------|--------------|
| <input type="checkbox"/>            | General purpose | t2.nano                        | 1     | 0.5          | EBS only              | -                       | Low to Moderate     | Yes          |
| <input checked="" type="checkbox"/> | General purpose | t2.micro<br>Free tier eligible | 1     | 1            | EBS only              | -                       | Low to Moderate     | Yes          |
| <input type="checkbox"/>            | General purpose | t2.small                       | 1     | 2            | EBS only              | -                       | Low to Moderate     | Yes          |
| <input type="checkbox"/>            | General purpose | t2.medium                      | 2     | 4            | EBS only              | -                       | Low to Moderate     | Yes          |
| <input type="checkbox"/>            | General purpose | t2.large                       | 2     | 8            | EBS only              | -                       | Low to Moderate     | Yes          |
| <input type="checkbox"/>            | General purpose | t2.xlarge                      | 4     | 16           | EBS only              | -                       | Moderate            | Yes          |
| <input type="checkbox"/>            | General purpose | t2.2xlarge                     | 8     | 32           | EBS only              | -                       | Moderate            | Yes          |
| <input type="checkbox"/>            | General purpose | m5.large                       | 2     | 8            | EBS only              | Yes                     | Up to 10 Gigabit    | Yes          |
| <input type="checkbox"/>            | General purpose | m5.xlarge                      | 4     | 16           | EBS only              | Yes                     | Up to 10 Gigabit    | Yes          |
| <input type="checkbox"/>            | General purpose | m5.2xlarge                     | 8     | 32           | EBS only              | Yes                     | Up to 10 Gigabit    | Yes          |

Cancel Previous Review and Launch Next: Configure Instance Details

Como podemos observar podemos escoger el tipo de instancia a instalar:

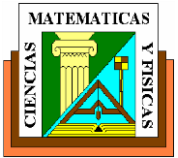
Filter by: All instance types Current generation Show/Hide Columns TIPO DE INSTANCIA

Currently selected: t2.micro (Variable ECUs, 1 vCPUs, 2.5 GHz, Intel Xeon Family, 1 GiB memory, EBS only)

|                                     | Family            | Type                           | vCPUs | Memory (GiB) | Instance Storage (GB) | EBS-Optimized Available | Network Performance | IPv6 Support |
|-------------------------------------|-------------------|--------------------------------|-------|--------------|-----------------------|-------------------------|---------------------|--------------|
| <input type="checkbox"/>            | General purpose   | t2.nano                        | 1     | 0.5          | EBS only              | -                       | Low to Moderate     | Yes          |
| <input checked="" type="checkbox"/> | General purpose   | t2.micro<br>Free tier eligible | 1     | 1            | EBS only              | -                       | Low to Moderate     | Yes          |
| <input type="checkbox"/>            | General purpose   | t2.small                       | 1     | 2            | EBS only              | -                       | Low to Moderate     | Yes          |
| <input type="checkbox"/>            | Compute optimized | c4.large                       | 2     | 3.75         | EBS only              | Yes                     | Moderate            | Yes          |
| <input type="checkbox"/>            | General purpose   | t2.medium                      | 2     | 4            | EBS only              | -                       | Low to Moderate     | Yes          |
| <input type="checkbox"/>            | Compute optimized | c5d.large                      | 2     | 4            | 1 x 50 (SSD)          | Yes                     | Up to 10 Gigabit    | Yes          |
| <input type="checkbox"/>            | Compute optimized | c5.large                       | 2     | 4            | EBS only              | Yes                     | Up to 10 Gigabit    | Yes          |
| <input type="checkbox"/>            | Compute optimized | c4.xlarge                      | 4     | 7.5          | EBS only              | Yes                     | High                | Yes          |
| <input type="checkbox"/>            | General purpose   | t2.large                       | 2     | 8            | EBS only              | -                       | Low to Moderate     | Yes          |
| <input type="checkbox"/>            | General purpose   | m5d.large                      | 2     | 8            | 1 x 75 (SSD)          | Yes                     | Up to 10 Gigabit    | Yes          |
| <input type="checkbox"/>            | General purpose   | m5.large                       | 2     | 8            | EBS only              | Yes                     | Up to 10 Gigabit    | Yes          |

Cancel Previous Review and Launch Next: Configure Instance Details

Dependiendo del tipo que se escoja se obtendrán diferentes características de la máquina virtual a instalar.



A continuación mostramos los valores de cobro de cada tipo:

## Detalles del producto

| Nombre     | vCPU | RAM (GiB) | Créditos de CPU/h | Precio/h*  | Precio/mes** |
|------------|------|-----------|-------------------|------------|--------------|
| t2.nano    | 1    | 0,5       | 3                 | 0,0058 USD | 4,23 USD     |
| t2.micro   | 1    | 1,0       | 6                 | 0,0116 USD | 8,47 USD     |
| t2.small   | 1    | 2,0       | 12                | 0,0232 USD | 16,04 USD    |
| t2.medium  | 2    | 4,0       | 24                | 0,0464 USD | 33,87 USD    |
| t2.large   | 2    | 8,0       | 36                | 0,0928 USD | 67,74 USD    |
| t2.xlarge  | 4    | 16,0      | 54                | 0,1856 USD | 135,49 USD   |
| t2.2xlarge | 8    | 32,0      | 81                | 0,3712 USD | 270,98 USD   |

| Modelo     | vCPU | Créditos por hora de la CPU | Saldo de créditos máximo de la CPU | Desempeño base de la CPU |
|------------|------|-----------------------------|------------------------------------|--------------------------|
| t2.nano    | 1    | 3                           | 72                                 | 5% de un núcleo          |
| t2.micro   | 1    | 6                           | 144                                | 10% de un núcleo         |
| t2.small   | 1    | 12                          | 288                                | 20% de un núcleo         |
| t2.medium  | 2    | 24                          | 576                                | 40% de un núcleo*        |
| t2.large   | 2    | 36                          | 864                                | 60% de un núcleo**       |
| t2.xlarge  | 4    | 54                          | 1 296                              | 90% de un núcleo***      |
| t2.2xlarge | 8    | 81                          | 1 944                              | 135% de un núcleo****    |

En el siguiente link se especifican detalladamente las instancias disponibles para la instalación de máquinas virtuales en AWS:

<https://aws.amazon.com/es/ec2/instance-types/>

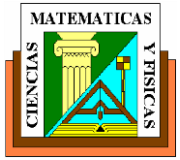
### ¿Cómo cambiar el tamaño de Amazon EC2 instancia?

1. En la consola de administración de AWS, vaya a la pestaña de EC2.
2. Compruebe la instancia que desea cambiar (de micro a grande, por ejemplo)
3. Colocar la instancia en un estado 'Detenido'.
4. Haga clic en el menú 'Acciones de instancia' y elija 'Cambiar el tipo de instancia'
5. Elija el nivel que quieras la instancia que corren (pequeño, mediano, grande)
6. Haga clic en 'Sí, cambiar'.
7. Reiniciar la instancia en cuestión.





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Avanzamos a la pestaña Addstorage, y especificamos la capacidad que le vamos a otorgar a la máquina:

Step 4: Add Storage

Your instance will be launched with the following storage device settings. You can attach additional EBS volumes and instance store volumes to your instance, or edit the settings of the root volume. You can also attach additional EBS volumes after launching an instance, but not instance store volumes. [Learn more](#) about storage options in Amazon EC2.

| Volume Type | Device    | Snapshot                | Size (GiB) | Volume Type               | IOPS       | Throughput (MB/s) | Delete on Termination               | Encrypted     |
|-------------|-----------|-------------------------|------------|---------------------------|------------|-------------------|-------------------------------------|---------------|
| Root        | /dev/sda1 | snap-03b8725b8d432caad8 | 8          | General Purpose SSD (GP2) | 100 / 3000 | N/A               | <input checked="" type="checkbox"/> | Not Encrypted |

[Add New Volume](#)

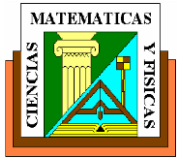
Free tier eligible customers can get up to 30 GB of EBS General Purpose (SSD) or Magnetic storage. [Learn more](#) about free usage tier eligibility and usage restrictions.

[Cancel](#) [Previous](#) [Review and Launch](#) [Next: Add Tags](#)

Nos dirigimos a la pestaña Add Tags y presionamos la opción Add Tag, aquí ingresamos el nombre con el cual vamos a identificar a nuestra máquina:



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← → ↻ 🏠 Seguro | <https://us-west-2.console.aws.amazon.com/ec2/v2/home?region=us-west-2#LaunchInstanceWizard:>

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1. Choose AMI 2. Choose Instance Type 3. Configure Instance 4. Add Storage 5. Add Tags 6. Configure Security Group 7. Review

### Step 5: Add Tags

A tag consists of a case-sensitive key-value pair. For example, you could define a tag with key = Name and value = Webserver.  
A copy of a tag can be applied to volumes, instances or both.  
Tags will be applied to all instances and volumes. [Learn more](#) about tagging your Amazon EC2 resources.

| Key (127 characters maximum)   | Value (255 characters maximum) | Instances ⓘ | Volumes ⓘ |
|--|--------------------------------|-------------|-----------|
| This resource currently has no tags  |                                |             |           |
| Choose the <a href="#">Add tag</a> button or <a href="#">click to add a Name tag</a> .<br>Make sure your <a href="#">IAM policy</a> includes permissions to create tags. |                                |             |           |

Add Tag

(Up to 50 tags maximum)

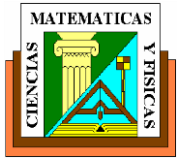
[Cancel](#) [Previous](#) [Review and Launch](#) [Next: Configure Security Group](#)

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Ingresamos la palabra clave, y en valor:



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← → ↻ 🏠 Seguro | https://us-west-2.console.aws.amazon.com/ec2/v2/home?region=us-west-2#LaunchInstanceWizard:

Aplicaciones Para acceder rápidamente, coloca tus favoritos aquí en la barra de favoritos. [Importar favoritos ahora...](#)

aws Services Resource Groups reyes @ lesstraffic Oregon Support

1. Choose AMI 2. Choose Instance Type 3. Configure Instance 4. Add Storage 5. Add Tags 6. Configure Security Group 7. Review

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A copy of a tag can be applied to volumes, instances or both.  
Tags will be applied to all instances and volumes. [Learn more](#) about tagging your Amazon EC2 resources.

| Key (127 characters maximum) | Value (255 characters maximum) | Instances ⓘ                         | Volumes ⓘ                           |
|------------------------------|--------------------------------|-------------------------------------|-------------------------------------|
| <input type="text"/>         |                                | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> |

[Add another tag](#) (Up to 50 tags maximum)

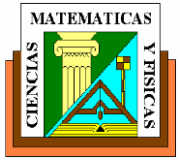
[Cancel](#) [Previous](#) [Review and Launch](#) [Next: Configure Security Group](#)

| Key  | Value  |
|------|--------|
| Name | HADOOP |

En la pestaña 6 de seguridad indicaremos que deseamos usar una seguridad existente



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← → ↻ 🏠 **Seguro** | <https://us-west-2.console.aws.amazon.com/ec2/v2/home?region=us-west-2#LaunchInstanceWizard> ☆ ⓘ

Aplicaciones Para acceder rápidamente, coloca tus favoritos aquí en la barra de favoritos. [Importar favoritos ahora...](#)

**aws** Services ▾ Resource Groups ▾ ☆

reyes @ lesstraffic ▾ Oregon ▾ Support ▾

1. Choose AMI 2. Choose Instance Type 3. Configure Instance 4. Add Storage 5. Add Tags 6. Configure Security Group 7. Review

### Step 6: Configure Security Group

A security group is a set of firewall rules that control the traffic for your instance. On this page, you can add rules to allow specific traffic to reach your instance. For example, if you want to set up a web server and allow Internet traffic to reach your instance, add rules that allow unrestricted access to the HTTP and HTTPS ports. You can create a new security group or select from an existing one below. [Learn more](#) about Amazon EC2 security groups.

Assign a security group: ☒ Create a new security group ☐ Select an existing security group

Security group name:

Description:

| Type ⓘ | Protocol ⓘ | Port Range ⓘ | Source ⓘ           | Description ⓘ                |
|--------|------------|--------------|--------------------|------------------------------|
| SSH ▾  | TCP        | 22           | Custom ▾ 0.0.0.0/0 | e.g. SSH for Admin Desktop ✕ |

Add Rule

**Warning**

Rules with source of 0.0.0.0/0 allow all IP addresses to access your instance. We recommend setting security group rules to allow access from known IP addresses only.

Cancel Previous **Review and Launch**

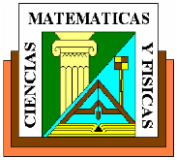
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Seleccionamos las siguientes opciones

Alan Reyes Bacusoy



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Seguro | <https://us-west-2.console.aws.amazon.com/ec2/v2/home?region=us-west-2#LaunchInstanceWizard>

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aws Services Resource Groups reyes @ lesstraffic Oregon Support

1. Choose AMI 2. Choose Instance Type 3. Configure Instance 4. Add Storage 5. Add Tags 6. Configure Security Group 7. Review

### Step 6: Configure Security Group

web server and allow Internet traffic to reach your instance, add rules that allow unrestricted access to the HTTP and HTTPS ports. You can create a new security group or select from an existing one below. [Learn more](#) about Amazon EC2 security groups.

Assign a security group: ☐ Create a new security group ☒ Select an existing security group

| Security Group ID                               | Name             | Description  | Actions                     |
|---|------------------|--|-----------------------------|
| <input type="checkbox"/> sg-81da99e7            | conexionKevin    | interacion   | <a href="#">Copy to new</a> |
| <input type="checkbox"/> sg-af0b78c9            | default          | default VPC security group                             | <a href="#">Copy to new</a> |
| <input checked="" type="checkbox"/> sg-8d7eaa4  | launch-wizard-1  | launch-wizard-1 created 2016-09-18T12:40:36.778-05:00  | <a href="#">Copy to new</a> |
| <input type="checkbox"/> sg-0b8ca0b8837a33fff   | launch-wizard-10 | launch-wizard-10 created 2018-04-21T02:34:12.839-05:00 | <a href="#">Copy to new</a> |
| <input checked="" type="checkbox"/> sg-ea08da93 | launch-wizard-2  | launch-wizard-2 created 2016-09-20T23:01:22.313-05:00  | <a href="#">Copy to new</a> |
| <input type="checkbox"/> sg-17980d6e            | launch-wizard-3  | launch-wizard-3 created 2016-10-16T13:55:18.469-05:00  | <a href="#">Copy to new</a> |
| <input type="checkbox"/> sg-092382594c65b10bf   | launch-wizard-4  | launch-wizard-4 created 2018-04-13T16:58:09.695-05:00  | <a href="#">Copy to new</a> |
| <input type="checkbox"/> sg-0992f2201cc19a92f   | launch-wizard-5  | launch-wizard-5 created 2018-04-16T03:03:31.332+02:00  | <a href="#">Copy to new</a> |
| <input type="checkbox"/> sg-ba92dddc            | launch-wizard-6  | launch-wizard-6 created 2016-07-24T12:26:17.119-05:00  | <a href="#">Copy to new</a> |
| <input type="checkbox"/> sg-08d4123175f34ff70   | launch-wizard-7  | launch-wizard-7 created 2018-04-16T03:04:27.523+02:00  | <a href="#">Copy to new</a> |

Inbound rules for sg-8d7eaa4 (Selected security groups: sg-8d7eaa4, sg-ea08da93)

| Type            | Protocol | Port Range | Source    | Description           |
|-----------------|----------|------------|-----------|-----------------------|
| HTTP            | TCP      | 80         | 0.0.0.0/0 | Conexion a la App ... |
| Custom TCP Rule | TCP      | 5432       | 0.0.0.0/0 | Conexion Data Base... |
| Custom TCP Rule | TCP      | 8080       | 0.0.0.0/0 | ConexiOn a Tomcat     |
| Custom UDP Rule | UDP      | 8082       | 0.0.0.0/0 |                       |
| Custom UDP Rule | UDP      | 8081       | 0.0.0.0/0 | Ejemplo 2             |

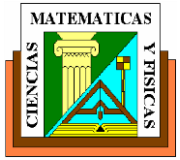
[Cancel](#) [Previous](#) [Review and Launch](#)

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En la pestaña final podremos observar un resumen de la configuración de nuestra máquina



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← → ↻ 🏠 **Seguro** | <https://us-west-2.console.aws.amazon.com/ec2/v2/home?region=us-west-2#LaunchInstanceWizard> ☆ ⓘ

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**aws** Services ▾ Resource Groups ▾ ⭐ 🔔 reyes @ lesstraffic ▾ Oregon ▾ Support ▾

1. Choose AMI 2. Choose Instance Type 3. Configure Instance 4. Add Storage 5. Add Tags 6. Configure Security Group 7. Review

### Step 7: Review Instance Launch

Please review your instance launch details. You can go back to edit changes for each section. Click **Launch** to assign a key pair to your instance and complete the launch process.

⚠️ **Improve your instances' security.**  
Your instances may be accessible from any IP address. We recommend that you update your security group rules to allow access from known IP addresses only.  
You can also open additional ports in your security group to facilitate access to the application or service you're running, e.g., HTTP (80) for web servers. [Edit security groups](#)

▼ AMI Details [Edit AMI](#)

**Ubuntu Server 16.04 LTS (HVM), SSD Volume Type - ami-4e79ed36**  
**Free tier eligible** Ubuntu Server 16.04 LTS (HVM), EBS General Purpose (SSD) Volume Type. Support available from Canonical (<http://www.ubuntu.com/cloud/services>).  
Root Device Type: ebs Virtualization type: hvm

▼ Instance Type [Edit instance type](#)

| Instance Type | ECUs     | vCPUs | Memory (GiB) | Instance Storage (GB) | EBS-Optimized Available | Network Performance |
|---------------|----------|-------|--------------|-----------------------|-------------------------|---------------------|
| t2.micro      | Variable | 1     | 1            | EBS only              | -                       | Low to Moderate     |

▼ Security Groups [Edit security groups](#)

| Security Group ID | Name            | Description   |
|-------------------|-----------------|---|
| sg-8d7eaaf4       | launch-wizard-1 | launch-wizard-1 created 2016-09-18T12:40:36.778-05:00 |
| sg-ea08da93       | launch-wizard-2 | launch-wizard-2 created 2016-09-20T23:01:22.313-05:00 |

All selected security groups inbound rules

| Type ⓘ | Protocol ⓘ | Port Range ⓘ | Source ⓘ | Description ⓘ |
|--------|------------|--------------|----------|---------------|
|--------|------------|--------------|----------|---------------|

[Cancel](#) [Previous](#) [Launch](#)

Finalmente clic en Launch



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aws Services Resource Groups reyes @ lesstraffic Oregon Support

1. Choose AMI 2. Choose Instance Type 3. Configure Instance 4. Add Storage 5. Add Tags 6. Configure Security Group 7. Review

### Step 7: Review Instance Launch

Please review your instance launch details. You can go back to edit changes for each section. Click **Launch** to assign a key pair to your instance and complete the launch process.

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Your instances may be accessible from any IP address. We recommend that you update your security group rules to allow access from known IP addresses only. You can also open additional ports in your security group to facilitate access to the application or service you're running, e.g., HTTP (80) for web servers. [Edit security groups](#)

▼ AMI Details [Edit AMI](#)

**Ubuntu Server 16.04 LTS (HVM), SSD Volume Type - ami-4e79ed36**  
Free tier eligible  
Ubuntu Server 16.04 LTS (HVM), EBS General Purpose (SSD) Volume Type. Support available from Canonical (<http://www.ubuntu.com/cloud/services>).  
Root Device Type: ebs Virtualization type: hvm

▼ Instance Type [Edit instance type](#)

| Instance Type | ECUs     | vCPUs | Memory (GiB) | Instance Storage (GB) | EBS-Optimized Available | Network Performance |
|---------------|----------|-------|--------------|-----------------------|-------------------------|---------------------|
| t2.micro      | Variable | 1     | 1            | EBS only              | -                       | Low to Moderate     |

▼ Security Groups [Edit security groups](#)

| Security Group ID | Name            | Description   |
|-------------------|-----------------|---|
| sg-8d7eaaf4       | launch-wizard-1 | launch-wizard-1 created 2016-09-18T12:40:36.778-05:00 |
| sg-ea08da93       | launch-wizard-2 | launch-wizard-2 created 2016-09-20T23:01:22.313-05:00 |

All selected security groups inbound rules

| Type | Protocol | Port Range | Source | Description |
|------|----------|------------|--------|-------------|
|------|----------|------------|--------|-------------|

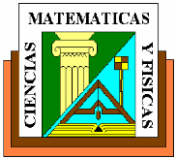
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Nos aparecerá la siguiente pantalla emergente:



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Step 7: Review Instance Launch

Please review your instance launch details. You can go back to edit changes for each section. Click **Launch** to assign a key pair to your instance and complete the launch process.

**Improve your instances' security.**  
Your instances may be accessible from any IP address. We recommend that you update your security group rules to allow access from known IP addresses only. You can also open additional ports in your security groups to facilitate access to the application or services you're running, e.g., HTTP (80) for web servers. [Edit security groups](#)

**AMI Details**

**Ubuntu Server 16.04 LTS**  
Free tier eligible  
Root Device Type: ebs Virtualization: paravirt

**Instance Type**

| Instance Type | ECUs     |
|---------------|----------|
| t2.micro      | Variable |

**Security Groups**

| Security Group ID |
|-------------------|
| sg-8d7eaaf4       |
| sg-ea08da93       |

**All selected security groups inbound rules**

| Type | Protocol | Port Range | Source | Description |
|------|----------|------------|--------|-------------|
|------|----------|------------|--------|-------------|

**Select an existing key pair or create a new key pair**

A key pair consists of a **public key** that AWS stores, and a **private key file** that you store. Together, they allow you to connect to your instance securely. For Windows AMIs, the private key file is required to obtain the password used to log into your instance. For Linux AMIs, the private key file allows you to securely SSH into your instance.

Note: The selected key pair will be added to the set of keys authorized for this instance. Learn more about [removing existing key pairs from a public AMI](#).

Choose an existing key pair  
**Select a key pair**  
AWS-AMI-17-07-2016

☐ I acknowledge that I have access to the selected private key file (AWS-AMI-17-07-2016.pem), and that without this file, I won't be able to log into my instance.

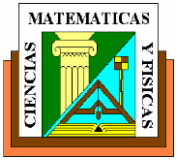
[Cancel](#) [Launch Instances](#)

En el primer menú desplegable escogemos la opción, crear una nueva key part





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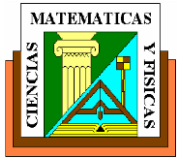


The screenshot displays the AWS Management Console interface during the 'Step 7: Review Instance Launch' process. A modal dialog box is open, titled 'Select an existing key pair or create a new key pair'. The dialog contains a dropdown menu with 'Choose an existing key pair' selected, and a red box highlights the 'Create a new key pair' option. Below the dropdown, there is a checkbox for 'Proceed without a key pair' and a text area for acknowledgment. The background shows the instance configuration details, including AMI, Instance Type, and Security Groups.

Digitamos un nombre y procedemos a descargar la key, la cual nos permitirá conectarnos a nuestra máquina posteriormente:



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**Step 7: Review Instance Launch**

Please review your instance launch details. You can go back to edit changes for each section. Click **Launch** to assign a key pair to your instance and complete the launch process.

**Improve your instances' security.**  
Your instances may be accessible from any IP address. We recommend that you update your security group rules to allow access from known IP addresses only. You can also open additional ports in your security groups to facilitate access to the application or service you're running, e.g., HTTP/HTTPS for web servers. [Edit security groups](#)

**AMI Details**

Ubuntu Server 16.04 LTS  
Free tier eligible  
Root Device Type: ebs Virtualization: paravirtual

**Instance Type**

| Instance Type | ECUs     |
|---------------|----------|
| t2.micro      | Variable |

**Security Groups**

Security Group ID  
sg-8d7eaaf4  
sg-ea08da93

All selected security groups inbound

**Select an existing key pair or create a new key pair**

A key pair consists of a **public key** that AWS stores, and a **private key file** that you store. Together, they allow you to connect to your instance securely. For Windows AMIs, the private key file is required to obtain the password used to log into your instance. For Linux AMIs, the private key file allows you to securely SSH into your instance.

Note: The selected key pair will be added to the set of keys authorized for this instance. Learn more about [removing existing key pairs from a public AMI](#).

Create a new key pair  
**Key pair name**  
  
**Download Key Pair**

You have to download the **private key file** (\*.pem file) before you can continue. **Store it in a secure and accessible location.** You will not be able to download the file again after it's created.

**Cancel Launch Instances**

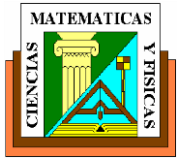
**Cancel Previous Launch**

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Una vez descargado nuestra key part clic en Launch Instances



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aws Services Resource Groups

1. Choose AMI 2. Choose Instance Type 3. Configure Instance 4. Add Storage 5. Add Tags 6. Configure Security Group 7. Review

### Step 7: Review Instance Launch

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**Improve your instances' security.**  
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**AMI Details**

Ubuntu Server 16.04 LTS (HVM)   
Free tier eligible   
Root Device Type: ebs Virtualization: paravirt

**Instance Type**

| Instance Type | ECUs     |
|---------------|----------|
| t2.micro      | Variable |

**Security Groups**

| Security Group ID |
|-------------------|
| sg-8d7eaaf4       |
| sg-ea08da93       |

All selected security groups inbound

**Network Performance**

Low to Moderate

[Edit instance type](#)

[Edit security groups](#)

6.778-05:00

2.313-05:00

**Select an existing key pair or create a new key pair**

A key pair consists of a **public key** that AWS stores, and a **private key file** that you store. Together, they allow you to connect to your instance securely. For Windows AMIs, the private key file is required to obtain the password used to log into your instance. For Linux AMIs, the private key file allows you to securely SSH into your instance.

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Key pair name

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Cancel Launch Instances

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pem

Mostrar todo

Finalmente se ha instalado / creado nuestra maquina:

aws Services Resource Groups

reyes @ lesstraffic Oregon Support

### Launch Status

**Your instances are now launching**  
The following instance launches have been initiated: I-006682ed3194b0a0f [View launch log](#)

**Get notified of estimated charges**  
[Create billing alerts](#) to get an email notification when estimated charges on your AWS bill exceed an amount you define (for example, if you exceed the free usage tier).

#### How to connect to your instances

Your instances are launching, and it may take a few minutes until they are in the **running** state, when they will be ready for you to use. Usage hours on your new instances will start immediately and continue to accrue until you stop or terminate your instances.

Click **View Instances** to monitor your instances' status. Once your instances are in the **running** state, you can **connect** to them from the Instances screen. [Find out](#) how to connect to your instances.

Here are some helpful resources to get you started

- [How to connect to your Linux instance](#)
- [Learn about AWS Free Usage Tier](#)
- [Amazon EC2: User Guide](#)
- [Amazon EC2: Discussion Forum](#)

While your instances are launching you can also

- [Create status check alarms](#) to be notified when these instances fail status checks. (Additional charges may apply)
- [Create and attach additional EBS volumes](#) (Additional charges may apply)
- [Manage security groups](#)

[View Instances](#)

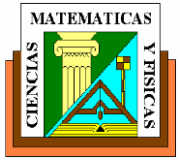
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Vemos las instancias o máquinas instaladas:

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Services ▾ Resource Groups ▾ ★ 🔔 reyes @ lesstraffic ▾ Oregon ▾ Support ▾

### Launch Status

**Your instances are now launching**  
The following instance launches have been initiated: [i-006682ed3194b0a0f](#) [View launch log](#)

**Get notified of estimated charges**  
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- [Create and attach additional EBS volumes](#) (Additional charges may apply)
- [Manage security groups](#)

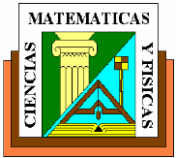
[View Instances](#)

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Seguro | <https://us-west-2.console.aws.amazon.com/ec2/v2/home?region=us-west-2#Instances:>

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aws Services Resource Groups

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EC2 Dashboard

Launch Instance Connect Actions

Filter by tags and attributes or search by keyword

| Name          | Instance ID          | Instance Type | Availability Zone | Instance State | Status Checks  | Alarm Status | Public DNS (IPv4) |
|---------------|----------------------|---------------|-------------------|----------------|----------------|--------------|-------------------|
| HADOOP        | i-006682ed3194b0a0f  | t2.micro      | us-west-2a        | running        | Initializing   | None         | ec2-54-218-15-19  |
| postgres      | i-00a2bbb611132bb2d  | t2.micro      | us-west-2a        | running        | 2/2 checks ... | None         | ec2-34-217-110-12 |
| Docker-worker | i-01ef1c601c5fbd03c  | t2.micro      | us-west-2a        | running        | 2/2 checks ... | None         | ec2-35-161-59-202 |
| Docker-Man... | i-02730dfcb319304e   | t2.micro      | us-west-2c        | running        | 2/2 checks ... | None         | ec2-54-202-72-158 |
| Docker-worker | i-035c6b68b86cf4791  | t2.micro      | us-west-2c        | running        | 2/2 checks ... | None         | ec2-54-191-167-91 |
|               | i-03ccea4d8db584a67  | t2.micro      | us-west-2a        | running        | 2/2 checks ... | None         | ec2-54-201-49-175 |
| SRV-APPS      | i-054a5b558b9b61b... | t2.micro      | us-west-2a        | running        | 2/2 checks ... | None         | ec2-52-39-21-42   |
| Docker-worker | i-057614f4e52e21163  | t2.micro      | us-west-2b        | running        | 2/2 checks ... | None         | ec2-18-236-125-13 |
| Docker-worker | i-0692d2b01fb3c371a  | t2.micro      | us-west-2c        | running        | 2/2 checks ... | None         | ec2-35-163-131-14 |
| Docker-Man... | i-06a45af7831ba6863  | t2.micro      | us-west-2b        | running        | 2/2 checks ... | None         | ec2-52-36-130-185 |
| lesstraffic   | i-078e7cda9d60d65dc  | t2.micro      | us-west-2a        | running        | 2/2 checks ... | None         | ec2-54-245-217-20 |
| Peter         | i-08bbba7b19fedd4b4  | t2.micro      | us-west-2a        | running        | 2/2 checks ... | None         | ec2-54-218-71-58  |
| Docker-Man... | i-095d59ca7d82e01dc  | t2.micro      | us-west-2a        | running        | 2/2 checks ... | None         | ec2-54-191-25-44  |
| Docker-worker | i-0a4ed05d1c0fd4ad8  | t2.micro      | us-west-2b        | running        | 2/2 checks ... | None         | ec2-54-202-233-15 |
| carro-fullMa  | i-0ad1708d8d68c584c  | t2.micro      | us-west-2b        | running        | 2/2 checks ... | None         | ec2-34-215-164-7  |

Instance: i-006682ed3194b0a0f (HADOOP) Public DNS: ec2-54-218-15-19.us-west-2.compute.amazonaws.com

Description Status Checks Monitoring Tags

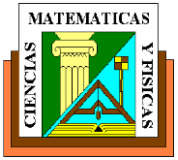
| Property          | Value  |
|-------------------|--|
| Instance ID       | i-006682ed3194b0a0f                              |
| Public DNS (IPv4) | ec2-54-218-15-19.us-west-2.compute.amazonaws.com |
| Instance state    | running  |
| IPv4 Public IP    | 54.218.15.19                                     |
| Instance type     | t2.micro   |
| IPv6 IPs          | -  |
| Elastic IPs       | -  |
| Private DNS       | ip-172-31-23-31.us-west-2.compute.internal       |
| Private IPs       | 172.31.23.31                                     |
| Availability zone | us-west-2a                                       |

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Podemos comprobar que la máquina se ha instalado y en la parte inferior veremos las configuraciones de la misma



UNIVERSIDAD DE GUAYAQUIL  
FACULTAD DE CIENCIAS MATEMÁTICA Y FÍSICA  
CARRERA DE INGENIERÍA EN SISTEMAS COMPUTACIONALES



Seguro | https://us-west-2.console.aws.amazon.com/ec2/v2/home?region=us-west-2#Instances:

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Launch Instance Connect Actions

Filter by tags and attributes or search by keyword

| Name          | Instance ID         | Instance Type | Availability Zone | Instance State | Status Checks  | Alarm Status | Public DNS (IPv4) |
|---------------|---------------------|---------------|-------------------|----------------|----------------|--------------|-------------------|
| HADOOP        | i-006682ed3194b0a0f | t2.micro      | us-west-2a        | running        | 2/2 checks ... | None         | ec2-54-218-15-19  |
| postgres      | i-00a2bbbb11132bb2d | t2.micro      | us-west-2a        | running        | 2/2 checks ... | None         | ec2-34-217-110-12 |
| Docker-worker | i-01ef1c601c5fbd03c | t2.micro      | us-west-2a        | running        | 2/2 checks ... | None         | ec2-35-161-59-202 |
| Docker-Man... | i-02730dfcb319304e  | t2.micro      | us-west-2c        | running        | 2/2 checks ... | None         | ec2-54-202-72-158 |
| Docker-worker | i-035c6b68b86cf4791 | t2.micro      | us-west-2c        | running        | 2/2 checks ... | None         | ec2-54-191-197    |

Instance: i-006682ed3194b0a0f (HADOOP) Public DNS: ec2-54-218-15-19.us-west-2.compute.amazonaws.com

Description Status Checks Monitoring Tags

| Instance ID         | Public DNS (IPv4)                                |
|---------------------|--|
| i-006682ed3194b0a0f | ec2-54-218-15-19.us-west-2.compute.amazonaws.com |

| Instance state | Instance type | Elastic IPs | Availability zone | Security groups                  | Scheduled events    | AMI ID   | Platform | IAM role | Key pair name     | EBS-optimized | Root device type | Public DNS (IPv4)                                | IPv6 Public IP | IPv6 IPs | Private DNS                                | Private IPs  | Secondary private IPs | VPC ID       | Subnet ID       | Network interfaces | Source/dest. check | T2 Unlimited | Owner        | Launch time   | Termination protection |
|----------------|---------------|-------------|-------------------|----------------------------------|---------------------|--|----------|----------|-------------------|---------------|------------------|--|----------------|----------|--|--------------|-----------------------|--------------|-----------------|--------------------|--------------------|--------------|--------------|---|------------------------|
| running        | t2.micro      |             | us-west-2a        | launch-wizard-2, launch-wizard-1 | No scheduled events | ubuntu/images/hvm-ssd/ubuntu-xenial-16.04-amd64-server-20180306 (ami-4e79ed36) | -        | -        | hadoop_26_04_2018 | False         | ebs              | ec2-54-218-15-19.us-west-2.compute.amazonaws.com | 54.218.15.19   | -        | ip-172-31-23-31.us-west-2.compute.internal | 172.31.23.31 |                       | vpc-199ede7d | subnet-4ea6d72a | eth0               | True               | Disabled     | 651992158214 | April 26, 2018 at 5:08:40 PM UTC-5 (less than one hour) | False                  |

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