

# Deploy en AWS

Requisitos:

1. IP Pública del servidor
2. Archivo de la Llave SSH

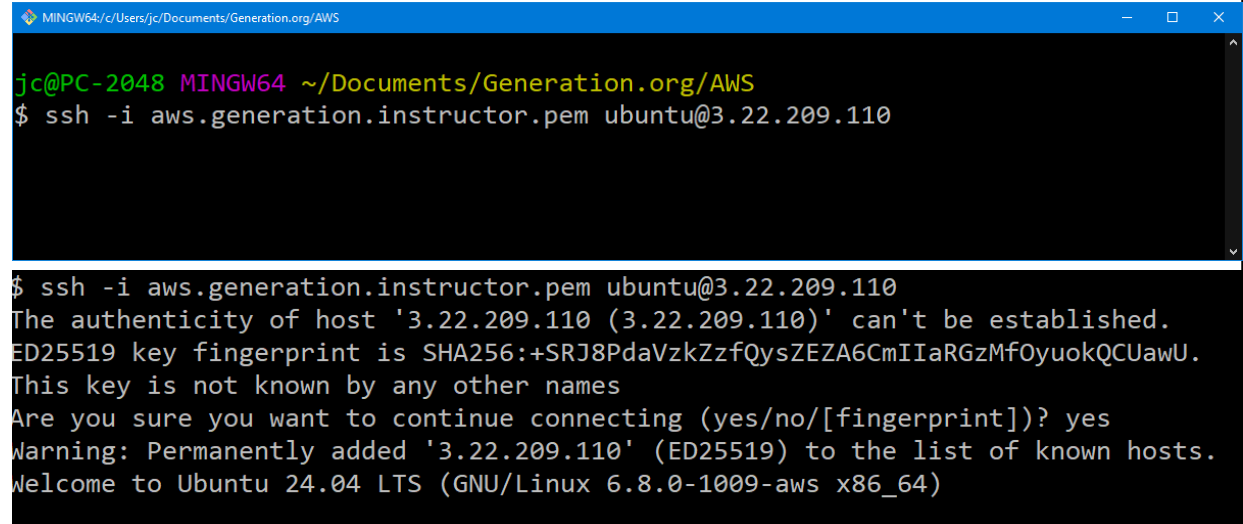
## 1. Conectarse al servidor

```
ssh -i archivollave.pem  
ubuntu@direccionIP
```

Si les pregunta si desean continuar, escribir  
**yes**

### \*Recomendación

Abrir el git bash en el directorio donde tienen  
el archivo de la llave



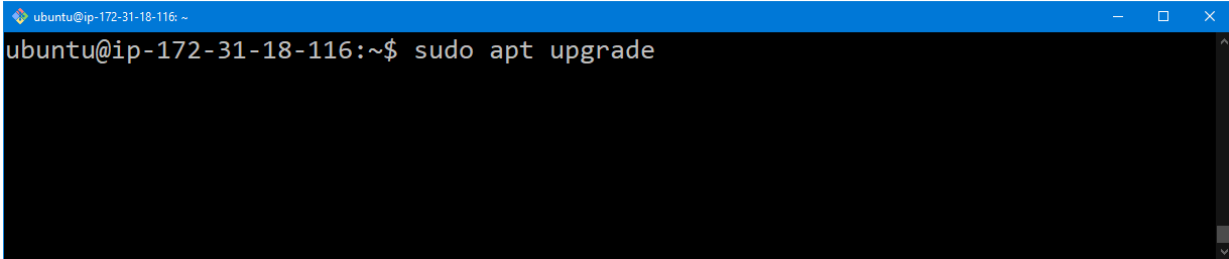
```
MINGW64/c/Users/jc/Documents/Generation.org/AWS  
jc@PC-2048 MINGW64 ~/Documents/Generation.org/AWS  
$ ssh -i aws.generation.instructor.pem ubuntu@3.22.209.110  
  
$ ssh -i aws.generation.instructor.pem ubuntu@3.22.209.110  
The authenticity of host '3.22.209.110 (3.22.209.110)' can't be established.  
ED25519 key fingerprint is SHA256:+SRJ8PdaVzkZzfQysZEZA6CmIIaRGzMfOyuokQCUawU.  
This key is not known by any other names  
Are you sure you want to continue connecting (yes/no/[fingerprint])? yes  
Warning: Permanently added '3.22.209.110' (ED25519) to the list of known hosts.  
Welcome to Ubuntu 24.04 LTS (GNU/Linux 6.8.0-1009-aws x86_64)
```

Pedir la actualización del servidor  
**sudo apt update**

```
ubuntu@ip-172-31-18-116: ~  
ubuntu@ip-172-31-18-116:~$ sudo apt update  
  
nponents [17.6 KB]  
Get:46 http://us-east-2.ec2.archive.ubuntu.com/ubuntu noble-backports/universe amd64 c-n-  
f Metadata [988 B]  
Get:47 http://us-east-2.ec2.archive.ubuntu.com/ubuntu noble-backports/restricted amd64 Co  
mponents [216 B]  
Get:48 http://us-east-2.ec2.archive.ubuntu.com/ubuntu noble-backports/restricted amd64 c-  
n-f Metadata [116 B]  
Get:49 http://us-east-2.ec2.archive.ubuntu.com/ubuntu noble-backports/multiverse amd64 Co  
mponents [212 B]  
Get:50 http://us-east-2.ec2.archive.ubuntu.com/ubuntu noble-backports/multiverse amd64 c-  
n-f Metadata [116 B]  
Fetched 27.3 MB in 5s (5082 kB/s)  
Reading package lists... Done  
Building dependency tree... Done  
Reading state information... Done  
6 packages can be upgraded. Run 'apt list --upgradable' to see them.  
ubuntu@ip-172-31-18-116:~$ apt list --upgradable  
ubuntu@ip-172-31-18-116:~$ apt list --upgradable  
Listing... Done
```

Mostrar la lista de paquetes actualizables  
**apt list --upgradable**

```
ubuntu@ip-172-31-18-116: ~  
ubuntu@ip-172-31-18-116:~$ apt list --upgradable
```

	<pre>ubuntu@ip-172-31-18-116:~\$ apt list --upgradable Listing... Done linux-aws/noble-updates,noble-security 6.8.0-1010.10 amd64 [upgradable from: 6.8.0-1009.9] linux-headers-aws/noble-updates,noble-security 6.8.0-1010.10 amd64 [upgradable from: 6.8.0-1009.9] linux-image-aws/noble-updates,noble-security 6.8.0-1010.10 amd64 [upgradable from: 6.8.0-1009.9] openssh-client/noble-security 1:9.6p1-3ubuntu13.4 amd64 [upgradable from: 1:9.6p1-3ubuntu13.3] openssh-server/noble-security 1:9.6p1-3ubuntu13.4 amd64 [upgradable from: 1:9.6p1-3ubuntu13.3] openssh-sftp-server/noble-security 1:9.6p1-3ubuntu13.4 amd64 [upgradable from: 1:9.6p1-3ubuntu13.3]</pre>
<p>Actualizar el sistema <b>sudo apt upgrade</b></p> <p>En caso de preguntar si deseas actualizar escribimos <b>Y</b></p>	 A screenshot of a terminal window with a blue title bar that reads 'ubuntu@ip-172-31-18-116: ~'. The terminal content shows the command 'ubuntu@ip-172-31-18-116:~\$ sudo apt upgrade' entered at the prompt. The rest of the terminal is empty, indicating the command has been executed but its output is not visible in this frame.

```
ubuntu@ip-172-31-18-116:~$ sudo apt upgrade
Reading package lists... Done
Building dependency tree... Done
Reading state information... Done
Calculating upgrade... Done
The following NEW packages will be installed:
  linux-aws-headers-6.8.0-1010 linux-aws-tools-6.8.0-1010 linux-headers-6.8.0-1010-aws
  linux-image-6.8.0-1010-aws linux-modules-6.8.0-1010-aws linux-tools-6.8.0-1010-aws
The following packages will be upgraded:
  linux-aws linux-headers-aws linux-image-aws openssh-client openssh-server
  openssh-sftp-server
6 upgraded, 6 newly installed, 0 to remove and 0 not upgraded.
6 standard LTS security updates
Need to get 73.7 MB of archives.
After this operation, 182 MB of additional disk space will be used.
Do you want to continue? [Y/n] Y
```

```
Restarting the system to load the new kernel will not be handled automatically, so you
should consider rebooting.
```

```
No services need to be restarted.
```

```
No containers need to be restarted.
```

```
User sessions running outdated binaries:
ubuntu @ session #3: sshd[1006]
```

```
No VM guests are running outdated hypervisor (qemu) binaries on this host.
ubuntu@ip-172-31-18-116:~$ |
```

## Instalación de MySQL/MariaDB

Verificar si existe el servicio de mysql  
**sudo service mysql status**

En caso de no encontrar el servicio se debe instalar

```
ubuntu@ip-172-31-18-116: ~  
ubuntu@ip-172-31-18-116:~$ sudo service mysql status  
Unit mysql.service could not be found.  
ubuntu@ip-172-31-18-116:~$ |
```

**sudo apt install mariadb-server**

En caso de preguntar por la instalación escribir **Y**

```
ubuntu@ip-172-31-18-116: ~  
ubuntu@ip-172-31-18-116:~$ sudo apt install mariadb-server  
galera-4 libcgi-fast-perl libcgi-pm-perl libclone-perl libconfig-inifiles-perl  
libdbd-mysql-perl libdbi-perl libencode-locale-perl libfcgi-bin libfcgi-perl  
libfcgi0t64 libhtml-parser-perl libhtml-tagset-perl libhtml-template-perl  
libhttp-date-perl libhttp-message-perl libio-html-perl liblwp-mediatypes-perl  
libmariadb3 libmysqlclient21 libsnappy1v5 libtimedate-perl liburi-perl liburin  
mariadb-client mariadb-client-core mariadb-common mariadb-plugin-provider-bzip  
mariadb-plugin-provider-lz4 mariadb-plugin-provider-lzma mariadb-plugin-provid  
mariadb-plugin-provider-snappy mariadb-server mariadb-server-core mysql-common  
socat  
0 upgraded, 37 newly installed, 0 to remove and 0 not upgraded.  
Need to get 19.0 MB of archives.  
After this operation, 197 MB of additional disk space will be used.  
Do you want to continue? [Y/n] Y
```

**sudo service mysql status**

**\*Nota: Si se abre un entorno como el del comando less, usar q para salir**

```
ubuntu@ip-172-31-18-116:~$ sudo service mysql status
● mariadb.service - MariaDB 10.11.8 database server
   Loaded: loaded (/usr/lib/systemd/system/mariadb.service; enabled; preset: enabled)
   Active: active (running) since Tue 2024-07-09 17:36:59 UTC; 57s ago
     Docs: man:mariadb(8)
           https://mariadb.com/kb/en/library/systemd/
  Main PID: 6997 (mariadb)
    Status: "Taking your SQL requests now..."
   Tasks: 12 (limit: 7463)
  Memory: 79.1M (peak: 82.1M)
     CPU: 435ms
    CGroup: /system.slice/mariadb.service
            └─6997 /usr/sbin/mariadb

Jul 09 17:36:59 ip-172-31-18-116 mariadb[6997]: 2024-07-09 17:36:59 0 [Note] InnoDB: Loa>
Jul 09 17:36:59 ip-172-31-18-116 mariadb[6997]: 2024-07-09 17:36:59 0 [Note] Plugin 'FEE>
Jul 09 17:36:59 ip-172-31-18-116 mariadb[6997]: 2024-07-09 17:36:59 0 [Warning] You need>
Jul 09 17:36:59 ip-172-31-18-116 mariadb[6997]: 2024-07-09 17:36:59 0 [Note] Server sock>
Jul 09 17:36:59 ip-172-31-18-116 mariadb[6997]: 2024-07-09 17:36:59 0 [Note] InnoDB: Buf>
Jul 09 17:36:59 ip-172-31-18-116 mariadb[6997]: 2024-07-09 17:36:59 0 [Note] /usr/sbin/m>
Jul 09 17:36:59 ip-172-31-18-116 mariadb[6997]: Version: '10.11.8-MariaDB-0ubuntu0.24.04>
Jul 09 17:36:59 ip-172-31-18-116 systemd[1]: Started mariadb.service - MariaDB 10.11.8 da>
Jul 09 17:36:59 ip-172-31-18-116 /etc/mysql/debian-start[7014]: Upgrading MariaDB tables >
Jul 09 17:36:59 ip-172-31-18-116 /etc/mysql/debian-start[7029]: Triggering myisam-recover>
lines 1-23/23 (END)
```

Para verificar la conexión utilizar  
**sudo mysql**

```
ubuntu@ip-172-31-18-116: ~$ sudo mysql
Welcome to the MariaDB monitor.  Commands end with ; or \g.
Your MariaDB connection id is 31
Server version: 10.11.8-MariaDB-0ubuntu0.24.04.1 Ubuntu 24.04

Copyright (c) 2000, 2018, Oracle, MariaDB Corporation Ab and others.

Type 'help;' or '\h' for help. Type '\c' to clear the current input statement.

MariaDB [(none)]>
```

Crear la base de datos ch47ecommerce  
**CREATE DATABASE ch47ecommerce;**

Validar que la base de creó correctamente:  
**SHOW DATABASES;**

```
MariaDB [(none)]> CREATE DATABASE ch47ecommerce;
Query OK, 1 row affected (0.000 sec)
```

```
MariaDB [(none)]> SHOW DATABASES;
```

Database
ch47ecommerce
information_schema
mysql
performance_schema
sys

```
5 rows in set (0.000 sec)
```

```
MariaDB [(none)]>
```

Crear el usuario:

```
CREATE USER 'ch47admin'@'%'  
IDENTIFIED BY 'Pa$$w0rd';
```

Otorgar permisos al usuario sobre la base de datos:

```
GRANT ALL PRIVILEGES ON  
ch47ecommerce.* TO 'ch47admin'@'%;'
```

Refrescar los permisos:

```
FLUSH PRIVILEGES;
```

Validar que el usuario se creó:

```
SELECT user FROM mysql.user;
```

ubuntu@ip-172-31-23-58: ~

```
MariaDB [(none)]> CREATE USER 'ch45admin'@'%' IDENTIFIED BY 'Pa$$w0rd';  
Query OK, 0 rows affected (0.002 sec)  
  
MariaDB [(none)]> GRANT ALL PRIVILEGES ON ch45ecommerce.* TO 'ch45admin'@'%;'  
Query OK, 0 rows affected (0.001 sec)  
  
MariaDB [(none)]> FLUSH PRIVILEGES;  
Query OK, 0 rows affected (0.000 sec)  
  
MariaDB [(none)]> SELECT user FROM mysql.user;  
+-----+  
| User          |  
+-----+  
| ch45admin     |  
| mariadb.sys   |  
| mysql         |  
| root          |  
+-----+  
4 rows in set (0.001 sec)  
  
MariaDB [(none)]> |
```



Validar permisos del usuario creado en el paso anterior

**SHOW GRANTS FOR 'ch47admin'@'%';**

Usar el comando exit para salir de MySQL

```
MariaDB [(none)]> SHOW GRANTS FOR 'ch47admin'@'%';
+-----+
+-----+
| Grants for ch47admin@%
|
+-----+
+-----+
| GRANT USAGE ON *.* TO `ch47admin`@`%` IDENTIFIED BY PASSWORD '*0F3704CF78312459ABAE40
557BFF7BFCB0A3EC' |
| GRANT ALL PRIVILEGES ON `ch47ecommerce`.* TO `ch47admin`@`%`
|
+-----+
+-----+
2 rows in set (0.000 sec)

MariaDB [(none)]> exit
Bye
ubuntu@ip-172-31-13-120:~$
```

## Instalación de java

java -version

```
ubuntu@ip-172-31-18-116:~$ java -version
Command 'java' not found, but can be installed with:
sudo apt install default-jre          # version 2:1.17-75, or
sudo apt install openjdk-17-jre-headless # version 17.0.10~6ea-1
sudo apt install openjdk-8-jre-headless  # version 8u412-ga-1~24.04.2
sudo apt install openjdk-11-jre-headless # version 11.0.21+9-0ubuntu1
sudo apt install openjdk-19-jre-headless # version 19.0.2+7-4
sudo apt install openjdk-20-jre-headless # version 20.0.2+9-1
sudo apt install openjdk-21-jre-headless # version 21.0.1+12-3
sudo apt install openjdk-22-jre-headless # version 22~22ea-1
ubuntu@ip-172-31-18-116:~$
```

En el caso de no tener instalado java, ejecutar la instalación:

**sudo apt install openjdk-17-jdk**

En caso de preguntar por la instalación escribir **Y**

```
ubuntu@ip-172-31-18-116:~$ sudo apt install openjdk-17-jdk
```

```
libjbig0 libjpeg-turbo8 libjpeg8 liblcms2-2 liblerc4 libllvm17t64 libpango-1.0-0
libpangocairo-1.0-0 libpangoft2-1.0-0 libpciaccess0 libpcsc-lite1 libpixmap-1-0
libpthread-stubs0-dev librsvg2-2 librsvg2-common libsharpyuv0 libsm-dev libsm6
libthai-data libthai0 libtiff6 libvulkan1 libwayland-client0 libwebp7 libx11-dev
libx11-xcb1 libxau-dev libxaw7 libxcb-dri2-0 libxcb-dri3-0 libxcb-glx0 libxcb-present0
libxcb-randr0 libxcb-render0 libxcb-shape0 libxcb-shm0 libxcb-sync1 libxcb-xfixes0
libxcb1-dev libxcomposite1 libxcursor1 libxdamage1 libxdmcp-dev libxf86vm3 libxft2
libxi6 libxinerama1 libxkbfile1 libxmu6 libxpm4 libxrandr2 libxrender1 libxshmfence1
libxt-dev libxt6t64 libxtst6 libxv1 libxxf86dga1 libxxf86vm1 mesa-vulkan-drivers
openjdk-17-jdk openjdk-17-jdk-headless openjdk-17-jre openjdk-17-jre-headless
session-migration ubuntu-mono x11-common x11-utils x11proto-dev xorg-sgml-doctools
xtrans-dev
0 upgraded, 130 newly installed, 0 to remove and 0 not upgraded.
Need to get 188 MB of archives.
After this operation, 593 MB of additional disk space will be used.
Do you want to continue? [Y/n] Y
```

Validar que se instaló correctamente con:

**java -version**

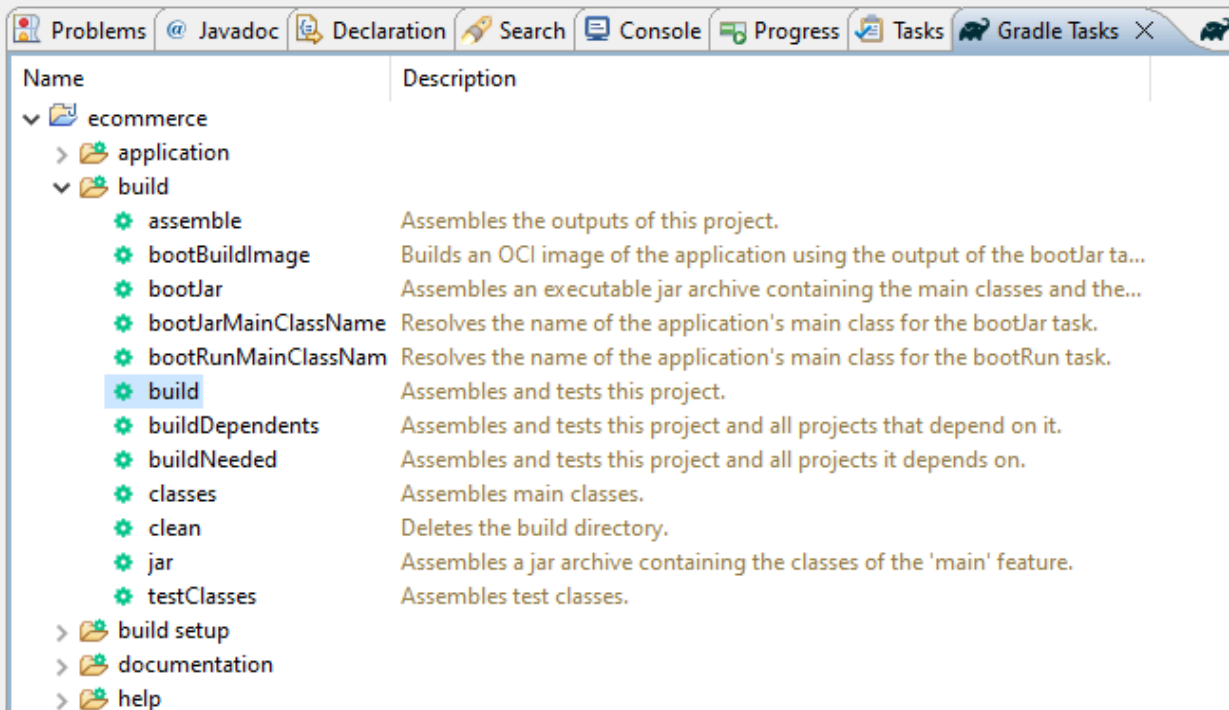
```
ubuntu@ip-172-31-23-58:~$ java -version
openjdk version "17.0.12" 2024-07-16
OpenJDK Runtime Environment (build 17.0.12+7-Ubuntu-1ubuntu224.04)
OpenJDK 64-Bit Server VM (build 17.0.12+7-Ubuntu-1ubuntu224.04, mixed mode, sharing)
ubuntu@ip-172-31-23-58:~$
```

Modificar el application.properties para que tenga variables de entorno en lugar de valores

```
1 spring.application.name=ecommerce
2 #Información para conectarse al servidor
3 spring.datasource.url=jdbc:mysql://${PROD_DB_HOST}:3306/${PROD_DB_NAME}
4 spring.datasource.username=${PROD_DB_USERNAME}
5 spring.datasource.password=${PROD_DB_PASSWORD}
6
7 #create, create-drop, validate, update
8 spring.jpa.hibernate.ddl-auto=${PROD_DDL}
```

Subir el archivo jar de la aplicación ecommerce  
(build/libs/ecommerce-0.0.1-SNAPSHOT.jar)

Generar el jar con doble click en:  
**Gradle Task-> ecommerce -> build -> build**



Buscar y renombra el archivo por app.jar

The screenshot shows the IntelliJ IDEA interface. At the top, the breadcrumb navigation path is 'workspace > ecommerce > build > libs'. Below this, a table lists the files in the 'libs' directory. The table has four columns: 'Name', 'Date modified', 'Type', and 'Size'. Two files are listed: 'ecommerce-0.0.1-SNAPSHOT.jar' and 'ecommerce-0.0.1-SNAPSHOT-plain.jar'. The first file is highlighted with a grey background. The 'Date modified' column shows '15/10/2024 12:10 p. m.' for both files. The 'Type' column shows 'Executable Jar File' for both. The 'Size' column shows '44,548 KB' for the first file and '3,647 KB' for the second.

Salir de la conexión del servidor con:  
**exit**

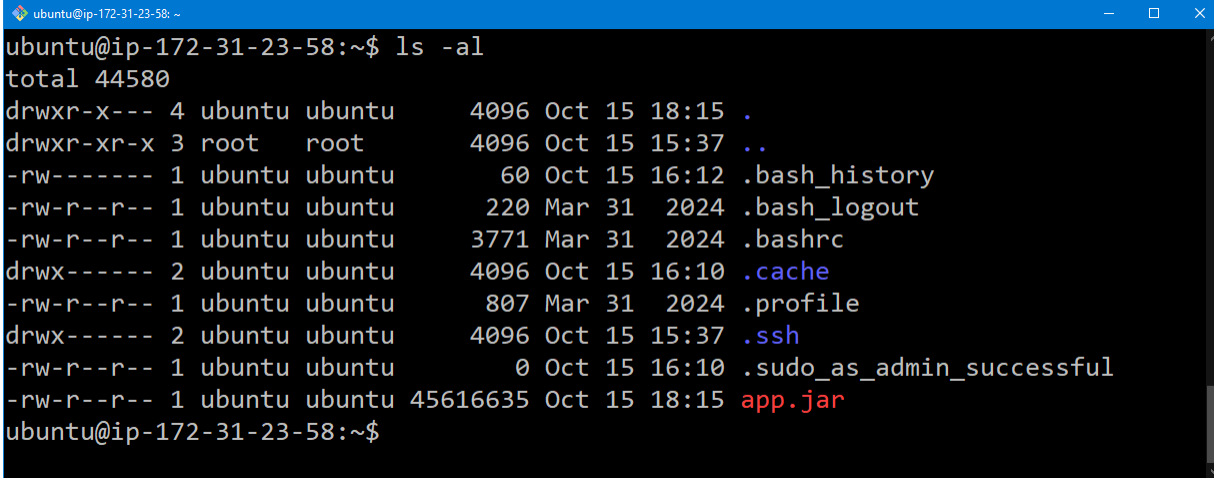
Copiar a la ruta de las llaves el archivo  
app.jar

Subir el archivo al servidor:

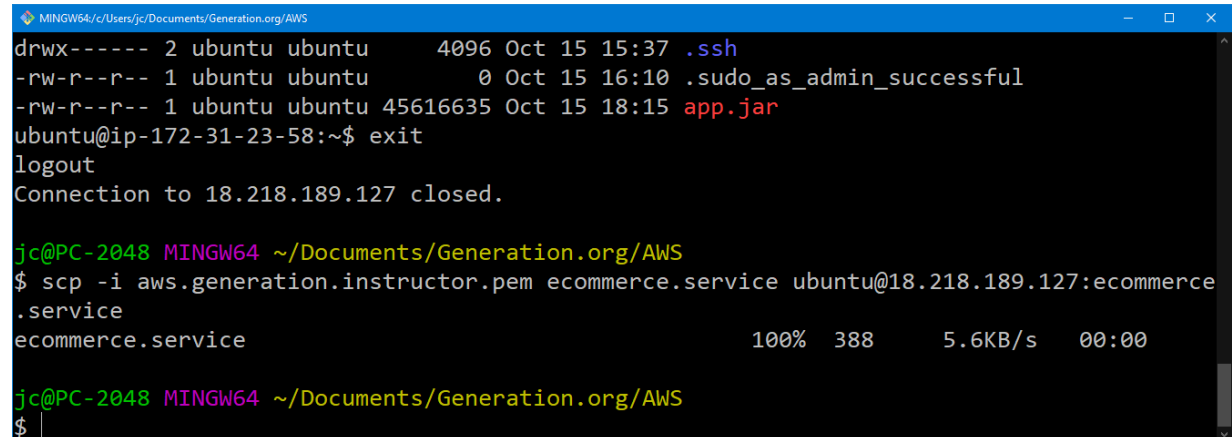
```
scp -i archivollave.pem app.jar
ubuntu@direccionIP:app.jar
```

Volverse a conectar y validar que el archivo existe con un **ls -al**

[illegible]

	 <pre>ubuntu@ip-172-31-23-58:~\$ ls -al total 44580 drwxr-x--- 4 ubuntu ubuntu    4096 Oct 15 18:15 . drwxr-xr-x 3 root   root      4096 Oct 15 15:37 .. -rw----- 1 ubuntu ubuntu      60 Oct 15 16:12 .bash_history -rw-r--r-- 1 ubuntu ubuntu    220 Mar 31  2024 .bash_logout -rw-r--r-- 1 ubuntu ubuntu   3771 Mar 31  2024 .bashrc drwx----- 2 ubuntu ubuntu    4096 Oct 15 16:10 .cache -rw-r--r-- 1 ubuntu ubuntu    807 Mar 31  2024 .profile drwx----- 2 ubuntu ubuntu    4096 Oct 15 15:37 .ssh -rw-r--r-- 1 ubuntu ubuntu      0 Oct 15 16:10 .sudo_as_admin_successful -rw-r--r-- 1 ubuntu ubuntu 45616635 Oct 15 18:15 app.jar ubuntu@ip-172-31-23-58:~\$</pre>
archivo ecommerce.service	<pre>[Unit] Description=Spring Boot App After=syslog.target  [Service] User=ubuntu ExecStart=java -jar /home/ubuntu/src/app.jar Environment="PROD_DB_HOST=localhost" Environment="PROD_DB_NAME=ch47ecommerce" Environment="PROD_DB_USERNAME=ch47admin" Environment="PROD_DB_PASSWORD=Pa\$\$w0rd" Environment="PROD_DDL=update"  SuccessExitStatus=143  [Install] WantedBy=multi-user.target</pre>

Subir el archivo ecommerce.service con el comando  
**scp -i archivollave.pem  
ecommerce.service  
ubuntu@direccionIP:ecommerce.service**

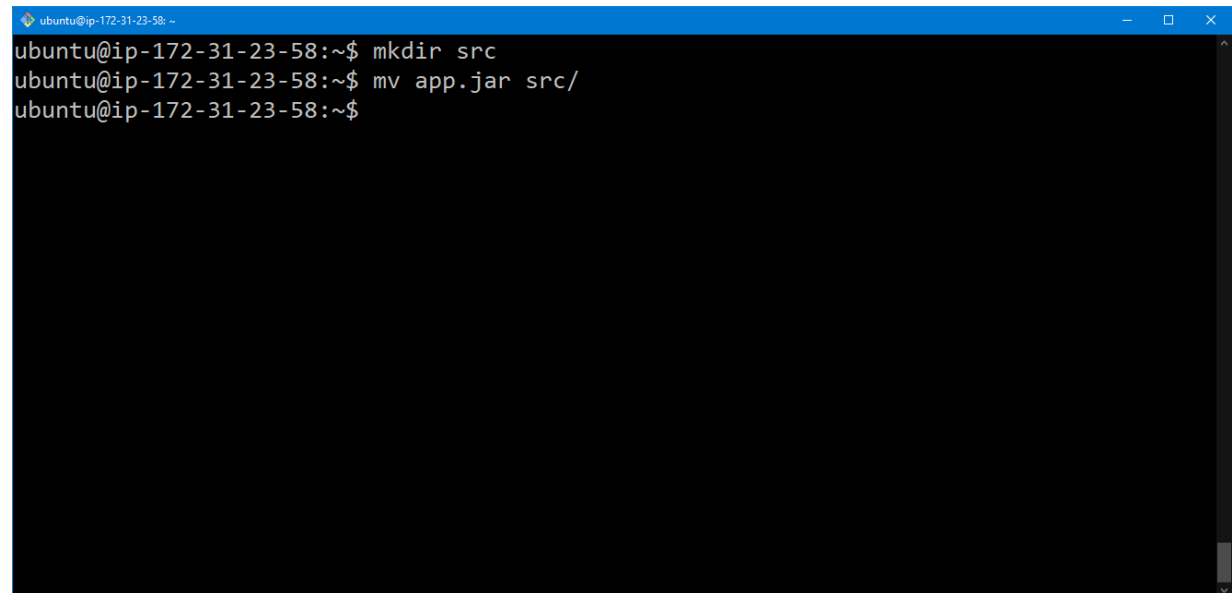


```
drwx----- 2 ubuntu ubuntu      4096 Oct 15 15:37 .ssh
-rw-r--r-- 1 ubuntu ubuntu         0 Oct 15 16:10 .sudo_as_admin_successful
-rw-r--r-- 1 ubuntu ubuntu 45616635 Oct 15 18:15 app.jar
ubuntu@ip-172-31-23-58:~$ exit
logout
Connection to 18.218.189.127 closed.

jc@PC-2048 MINGW64 ~/Documents/Generation.org/AWS
$ scp -i aws.generation.instructor.pem ecommerce.service ubuntu@18.218.189.127:ecommerce
.service
ecommerce.service                                100% 388      5.6KB/s   00:00

jc@PC-2048 MINGW64 ~/Documents/Generation.org/AWS
$
```

Volver a conectarse al servidor (como en el paso 1)  
Mover el archivo app.jar al directorio src



```
ubuntu@ip-172-31-23-58:~$ mkdir src
ubuntu@ip-172-31-23-58:~$ mv app.jar src/
ubuntu@ip-172-31-23-58:~$
```

Volver a conectarse al servidor y validar que el archivo existe.

**cat ecommerce.service**

```
ubuntu@ip-172-31-13-120:~$ cat ecommerce.service
[Unit]
Description=Spring Boot App
After=syslog.target

[Service]
User=ubuntu
ExecStart=java -jar /home/ubuntu/src/app.jar
Environment="PROD_DB_HOST=localhost"
Environment="PROD_DB_NAME=ch47ecommerce"
Environment="PROD_DB_USERNAME=ch47admin"
Environment="PROD_DB_PASSWORD=Pa$$w0rd"
Environment="PROD_DDL=update"

SuccessExitStatus=143

[Install]
WantedBy=multi-user.target
ubuntu@ip-172-31-13-120:~$
```

Copiar el ecommerce.service en los servicios del servidor.

**sudo cp ecommerce.service  
/etc/systemd/system/**

```
ubuntu@ip-172-31-18-116: ~  
ubuntu@ip-172-31-18-116:~$ sudo cp ecommerce.service /etc/systemd/system/  
ubuntu@ip-172-31-18-116:~$
```

Validar el estado del servicio se utiliza:

**sudo service ecommerce status**

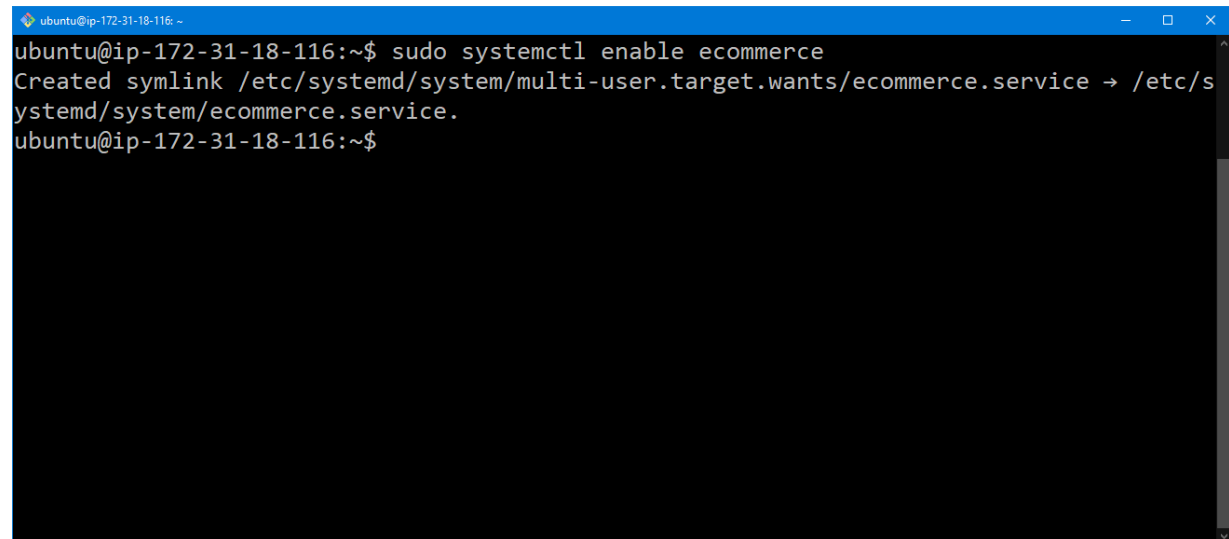
Si muestra una pantalla completa con información, nos podemos salir presionando la tecla **q**

```
ubuntu@ip-172-31-18-116: ~  
ubuntu@ip-172-31-18-116:~$ sudo service ecommerce status  
o ecommerce.service - Spring Boot App  
   Loaded: loaded (/etc/systemd/system/ecommerce.service; disabled; preset: enabled)  
   Active: inactive (dead)  
ubuntu@ip-172-31-18-116:~$ |
```



Para habilitar el servicio y que inicie cuando el sistema operativo inicia, se utiliza el comando:

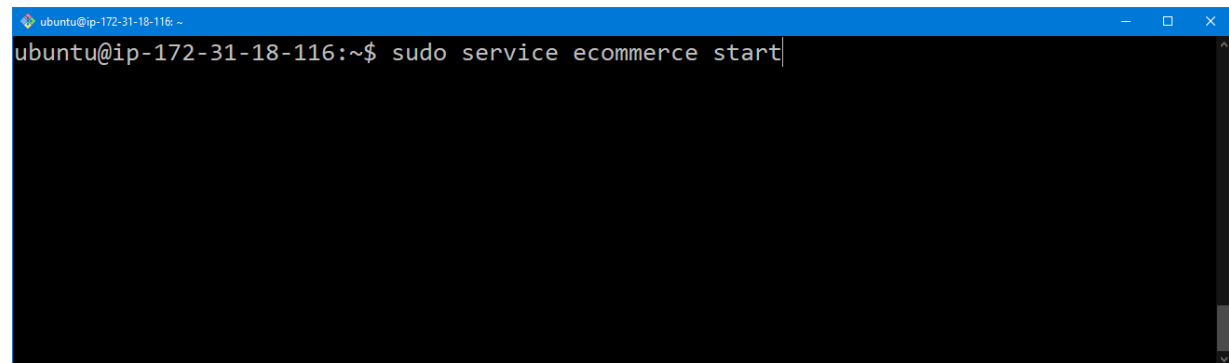
**sudo systemctl enable ecommerce**

A terminal window with a blue title bar showing the command 'sudo systemctl enable ecommerce' and its output. The output indicates that a symlink has been created for the service to start at boot.

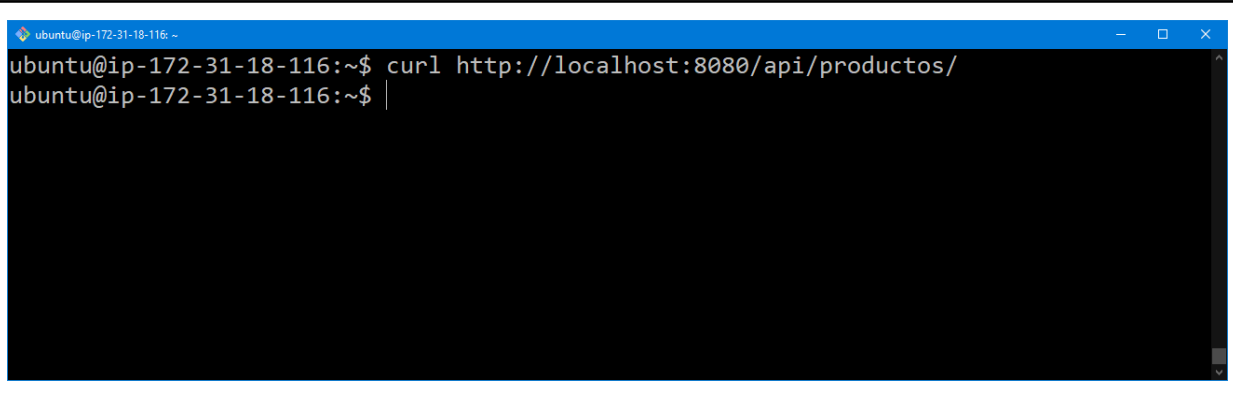
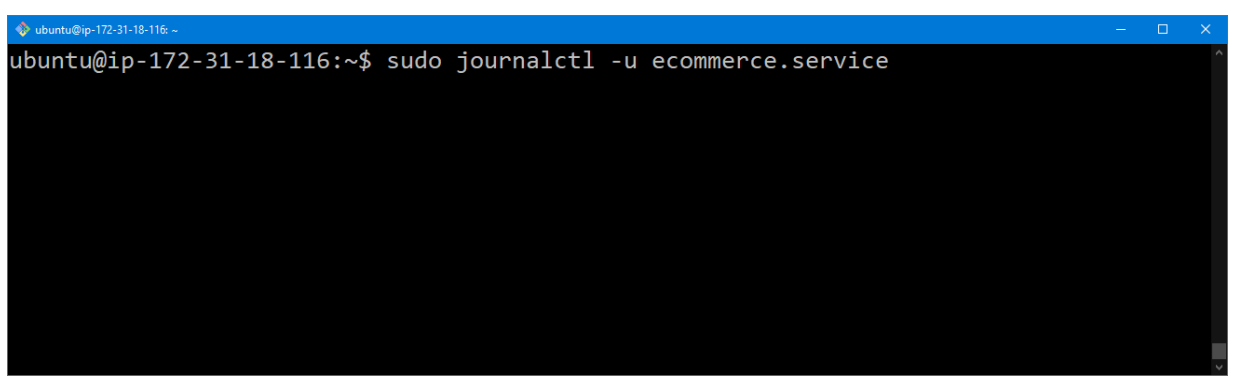
```
ubuntu@ip-172-31-18-116: ~  
ubuntu@ip-172-31-18-116:~$ sudo systemctl enable ecommerce  
Created symlink /etc/systemd/system/multi-user.target.wants/ecommerce.service → /etc/systemd/system/ecommerce.service.  
ubuntu@ip-172-31-18-116:~$
```

Iniciar el servicio:

**sudo service ecommerce start**

A terminal window with a blue title bar showing the command 'sudo service ecommerce start' being entered.

```
ubuntu@ip-172-31-18-116: ~  
ubuntu@ip-172-31-18-116:~$ sudo service ecommerce start
```

<p>Validar que el servicio responde:</p> <p><b>curl http://localhost:8080/api/productos/</b></p>	 A terminal window with a blue title bar showing 'ubuntu@ip-172-31-18-116: ~'. The command 'curl http://localhost:8080/api/productos/' has been entered and the cursor is at the end of the line.
<p>Si el servicio no responde, se puede revisar el log del servicio con el comando:</p> <p><b>sudo journalctl -u ecommerce.service</b></p> <p>Si muestra mucho contenido pueden usar la tecla q para salir. Tecla G para ir al final Tecla g para ir al principio</p>	 A terminal window with a blue title bar showing 'ubuntu@ip-172-31-18-116: ~'. The command 'sudo journalctl -u ecommerce.service' has been entered and the cursor is at the end of the line.

Instalar el servidor nginx (proxy) para mapear el puerto 80 al puerto 8080

**sudo apt install nginx**

Presionar la **Y** para continuar con la instalación

```
ubuntu@ip-172-31-18-116: ~$ sudo apt install nginx
Reading package lists... Done
Building dependency tree... Done
Reading state information... Done
The following additional packages will be installed:
  nginx-common
Suggested packages:
  fcgiwrap nginx-doc ssl-cert
The following NEW packages will be installed:
  nginx nginx-common
0 upgraded, 2 newly installed, 0 to remove and 0 not upgraded.
Need to get 552 kB of archives.
After this operation, 1596 kB of additional disk space will be used.
Do you want to continue? [Y/n] Y
```

Validar que el servicio nginx está levantado:

**sudo service nginx status**

También se puede validar con la dirección ip en el navegador y veremos la página default de nginx.

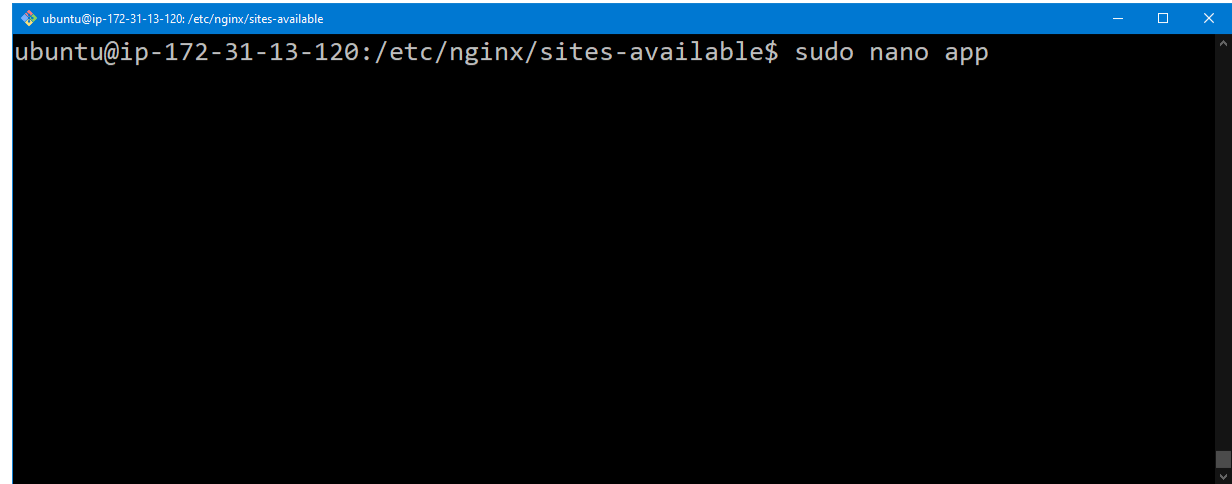
```
ubuntu@ip-172-31-18-116:~$ sudo service nginx status
● nginx.service - A high performance web server and a reverse proxy server
   Loaded: loaded (/usr/lib/systemd/system/nginx.service; enabled; preset: enabled)
   Active: active (running) since Tue 2024-07-09 21:35:24 UTC; 43s ago
     Docs: man:nginx(8)
   Process: 2351 ExecStartPre=/usr/sbin/nginx -t -q -g daemon on; master_process on; (code=exited, status=0/SUCCESS)
   Process: 2353 ExecStart=/usr/sbin/nginx -g daemon on; master_process on; (code=exited, status=0/SUCCESS)
  Main PID: 2354 (nginx)
    Tasks: 2 (limit: 1130)
   Memory: 1.7M (peak: 1.9M)
      CPU: 12ms
   CGroup: /system.slice/nginx.service
           └─2354 "nginx: master process /usr/sbin/nginx -g daemon on; master_process on;"
             └─2355 "nginx: worker process"

Jul 09 21:35:24 ip-172-31-18-116 systemd[1]: Starting nginx.service - A high performance web server and a reverse proxy server:
Jul 09 21:35:24 ip-172-31-18-116 systemd[1]: Started nginx.service - A high performance web server and a reverse proxy server:
lines 1-16/16 (END)
```

<p>Cambiarse al directorio de configuración de nginx:</p> <p><b>cd /etc/nginx/sites-available/</b></p>	

Crear archivo de configuración:

**sudo nano app**



```
ubuntu@ip-172-31-13-120: /etc/nginx/sites-available
ubuntu@ip-172-31-13-120:/etc/nginx/sites-available$ sudo nano app
```

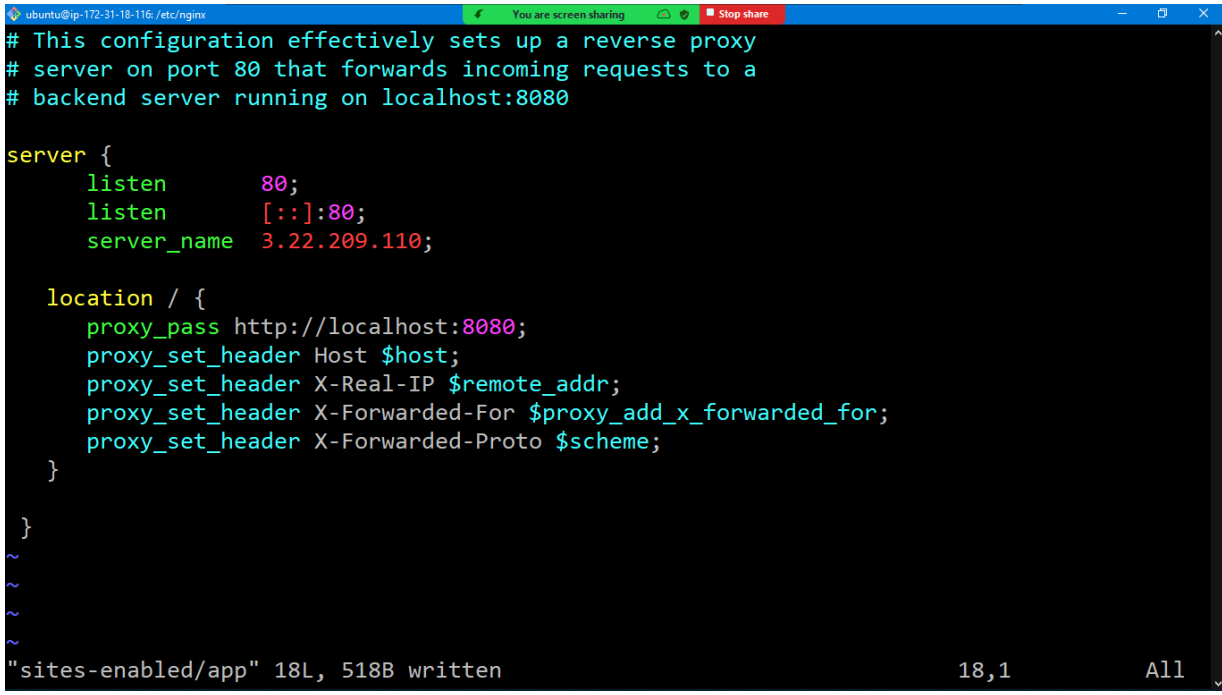
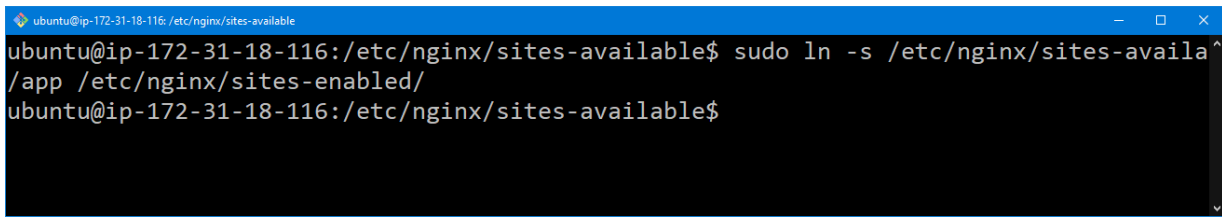
Pegar la siguiente información

Cambiar el **localhost** de server\_name por la dirección ip del servidor

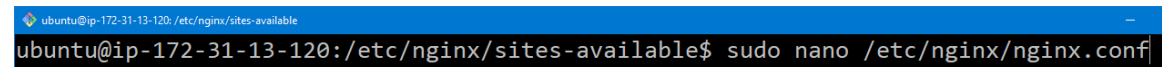
```
# This configuration effectively sets up a reverse proxy
# server on port 80 that forwards incoming requests to a
# backend server running on localhost:8080

server {
    listen 80;
    listen [::]:80;
    server_name localhost;

    location / {
        proxy_pass http://localhost:8080;
        proxy_set_header Host $host;
        proxy_set_header X-Real-IP $remote_addr;
        proxy_set_header X-Forwarded-For $proxy_add_x_forwarded_for;
        proxy_set_header X-Forwarded-Proto $scheme;
    }
}
```

	 <pre>ubuntu@ip-172-31-18-116: /etc/nginx # This configuration effectively sets up a reverse proxy # server on port 80 that forwards incoming requests to a # backend server running on localhost:8080  server {     listen      80;     listen      [::]:80;     server_name 3.22.209.110;      location / {         proxy_pass http://localhost:8080;         proxy_set_header Host \$host;         proxy_set_header X-Real-IP \$remote_addr;         proxy_set_header X-Forwarded-For \$proxy_add_x_forwarded_for;         proxy_set_header X-Forwarded-Proto \$scheme;     } }  ~ ~ ~ "sites-enabled/app" 18L, 518B written      18,1      All</pre>
<p>Crear el enlace en los sitios habilitados:</p> <p><b>sudo ln -s /etc/nginx/sites-available/app /etc/nginx/sites-enabled/</b></p>	 <pre>ubuntu@ip-172-31-18-116: /etc/nginx/sites-available ubuntu@ip-172-31-18-116:/etc/nginx/sites-available\$ sudo ln -s /etc/nginx/sites-available/app /etc/nginx/sites-enabled/ ubuntu@ip-172-31-18-116:/etc/nginx/sites-available\$</pre>

Cambiar la configuración principal de nginx:  
**sudo nano /etc/nginx/nginx.conf**

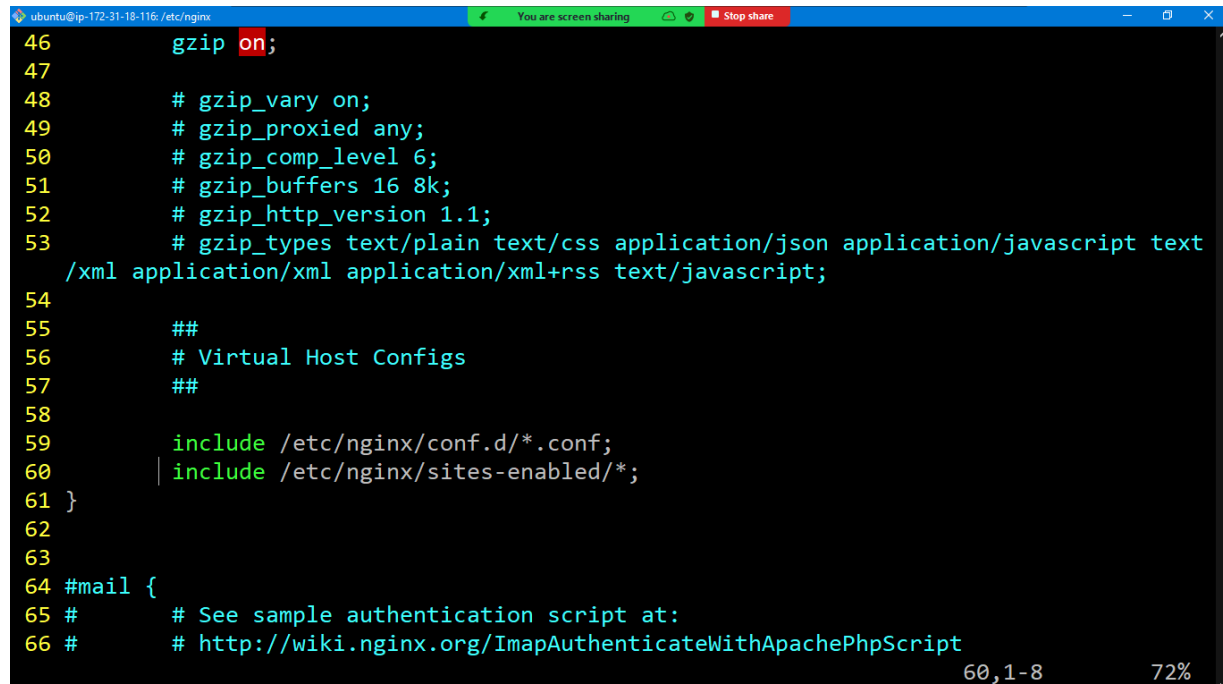
A terminal window with a blue title bar containing the text 'ubuntu@ip-172-31-13-120: /etc/nginx/sites-available'. The terminal has a black background and shows the command 'sudo nano /etc/nginx/nginx.conf' entered at the prompt. A vertical scrollbar is visible on the right side of the terminal window.

```
ubuntu@ip-172-31-13-120: /etc/nginx/sites-available$ sudo nano /etc/nginx/nginx.conf
```



En la sección http **verificar** que se encuentre la línea 60, si no se encuentra se debe agregar después de la línea:  
**include /etc/nginx/conf.d/\*.conf;**

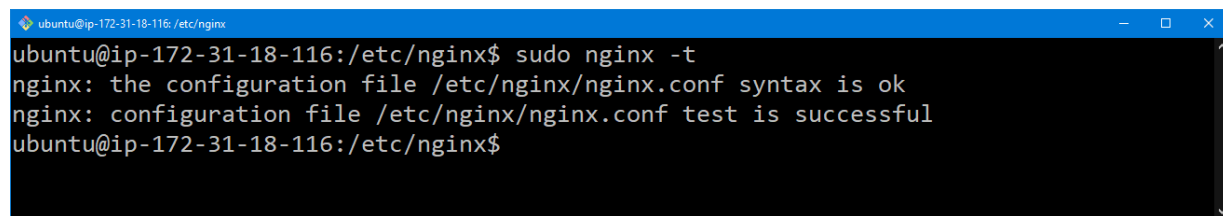
**include /etc/nginx/sites-enabled/\*;**



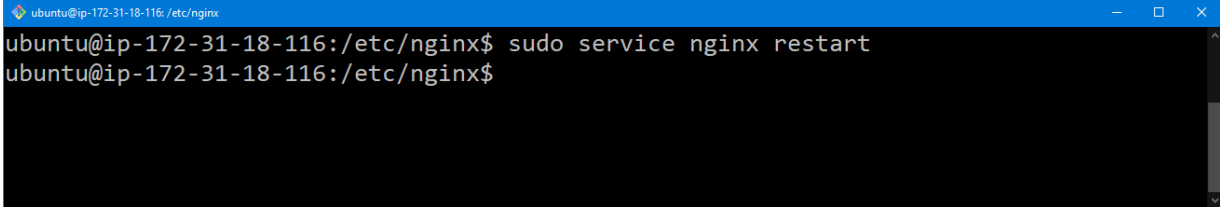
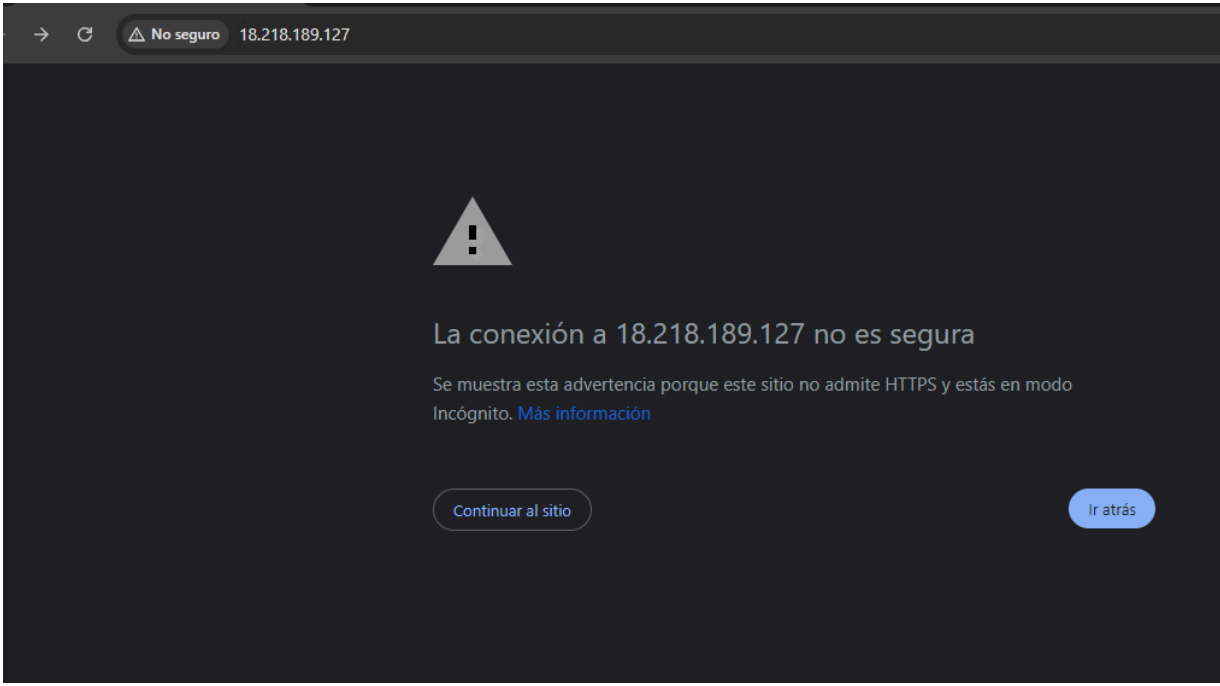
```
46     gzip on;
47
48     # gzip_vary on;
49     # gzip_proxied any;
50     # gzip_comp_level 6;
51     # gzip_buffers 16 8k;
52     # gzip_http_version 1.1;
53     # gzip_types text/plain text/css application/json application/javascript text
    /xml application/xml application/xml+rss text/javascript;
54
55     ##
56     # Virtual Host Configs
57     ##
58
59     include /etc/nginx/conf.d/*.conf;
60     include /etc/nginx/sites-enabled/*;
61 }
62
63
64 #mail {
65 #     # See sample authentication script at:
66 #     # http://wiki.nginx.org/ImapAuthenticateWithApachePhpScript
67 }
```

Para validar la sintaxis de las configuraciones de nginx utilizamos:

**sudo nginx -t**



```
ubuntu@ip-172-31-18-116:/etc/nginx$ sudo nginx -t
nginx: the configuration file /etc/nginx/nginx.conf syntax is ok
nginx: configuration file /etc/nginx/nginx.conf test is successful
ubuntu@ip-172-31-18-116:/etc/nginx$
```

<p>Reiniciar servicio de nginx:</p> <p><b>sudo service nginx restart</b></p>	 <pre>ubuntu@ip-172-31-18-116: /etc/nginx\$ sudo service nginx restart ubuntu@ip-172-31-18-116: /etc/nginx\$</pre>
<p>Probar la aplicación</p> <p>En caso de mostrar mensaje de sitio inseguro darle en Continuar al sitio.</p>	<p><a href="http://ip">http://ip</a></p>  <p>→ ↻ ⚠ No seguro 18.218.189.127</p> <p>⚠</p> <p>La conexión a 18.218.189.127 no es segura</p> <p>Se muestra esta advertencia porque este sitio no admite HTTPS y estás en modo Incógnito. <a href="#">Más información</a></p> <p>Continuar al sitio Ir atrás</p>