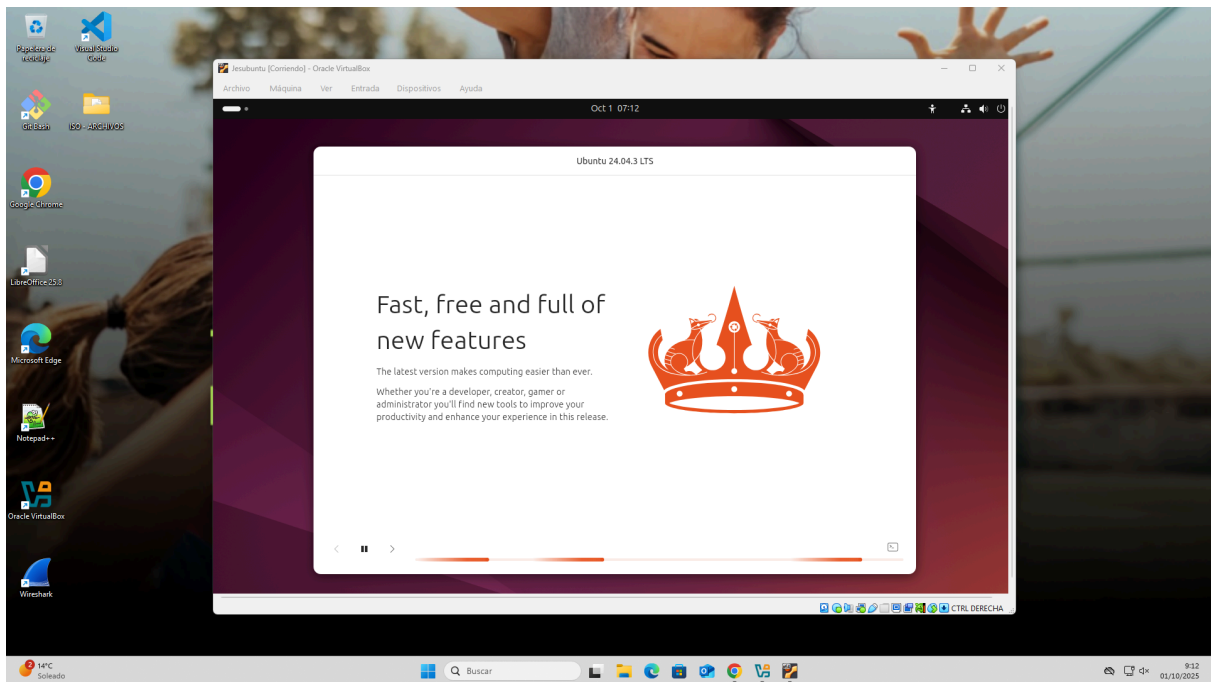
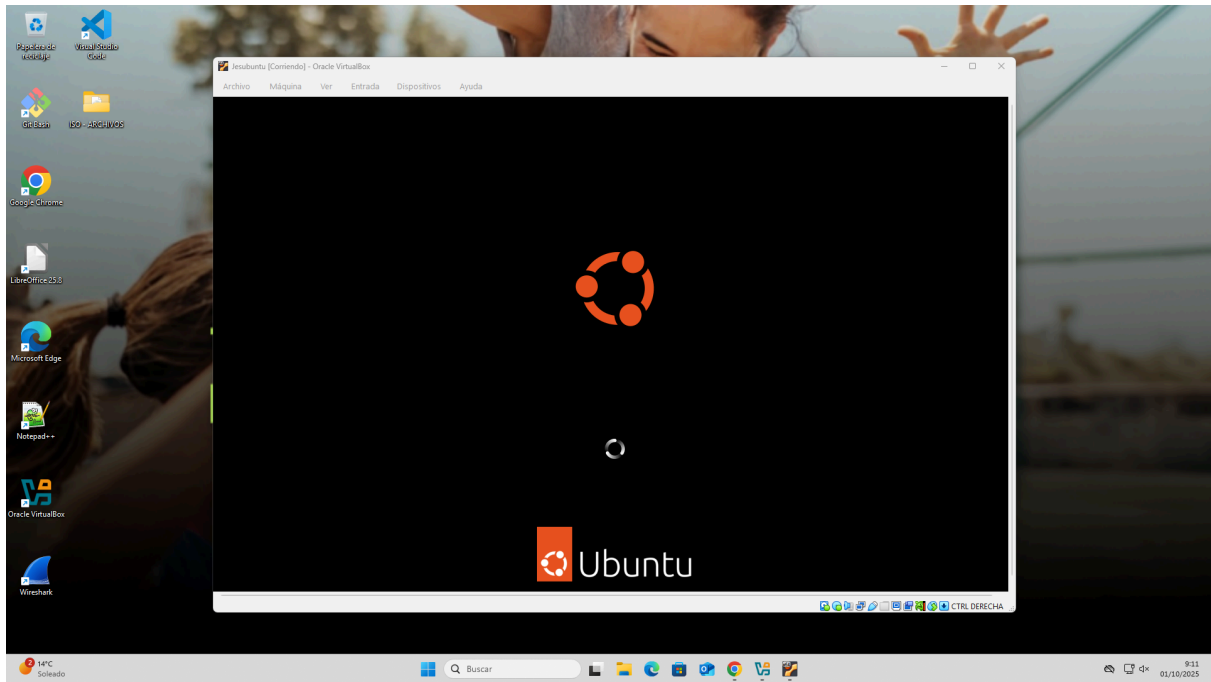
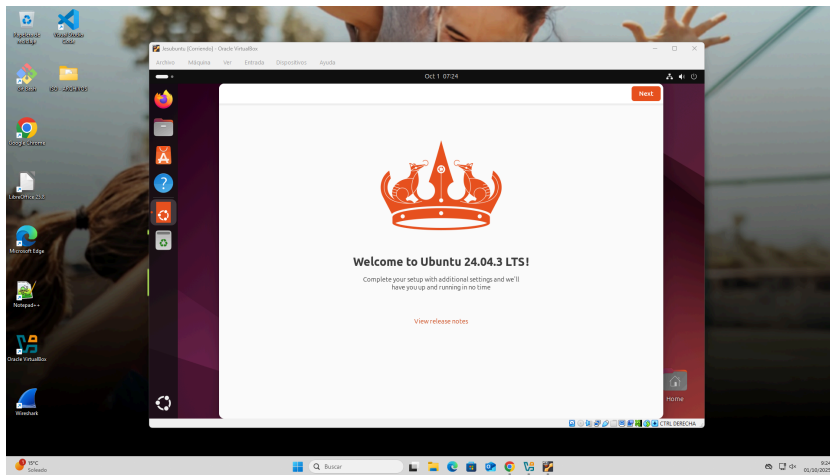


Arquitectura en la nube





Actualización del sistema

```
Oct 1 07:30
Jesus@Jesubuntu: ~
To run a command as administrator (user "root"), use "sudo <command>".
See "man sudo_root" for details.

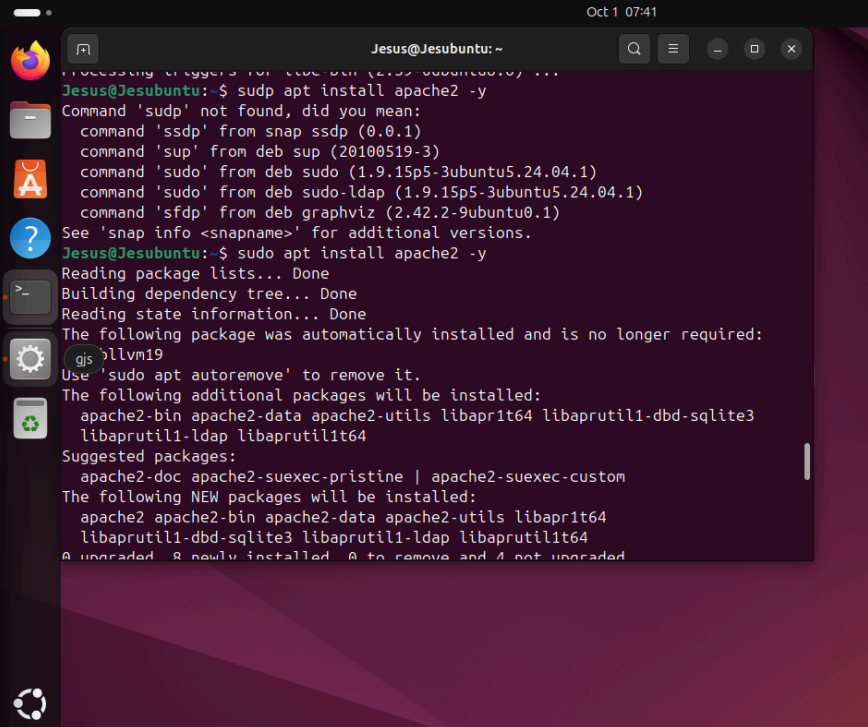
Jesus@Jesubuntu:~$ sudo apt update
[sudo] password for Jesus:
Hit:1 http://security.ubuntu.com/ubuntu noble-security InRelease
Hit:2 http://es.archive.ubuntu.com/ubuntu noble InRelease
Hit:3 http://es.archive.ubuntu.com/ubuntu noble-updates InRelease
Hit:4 http://es.archive.ubuntu.com/ubuntu noble-backports InRelease
Reading package lists... Done
Building dependency tree... Done
Reading state information... Done
64 packages can be upgraded. Run 'apt list --upgradable' to see them.

Jesus@Jesubuntu:~$ sudo apt upgrade -y
Reading package lists... Done
Building dependency tree... Done
Reading state information... Done
Calculating upgrade... Done
The following package was automatically installed and is no longer required:
  libllvm19
Use 'sudo apt autoremove' to remove it.
The following NEW packages will be installed:
  libllvm20
The following upgrades have been deferred due to phasing:
```

Instalación Apache2:

Instalar Apache

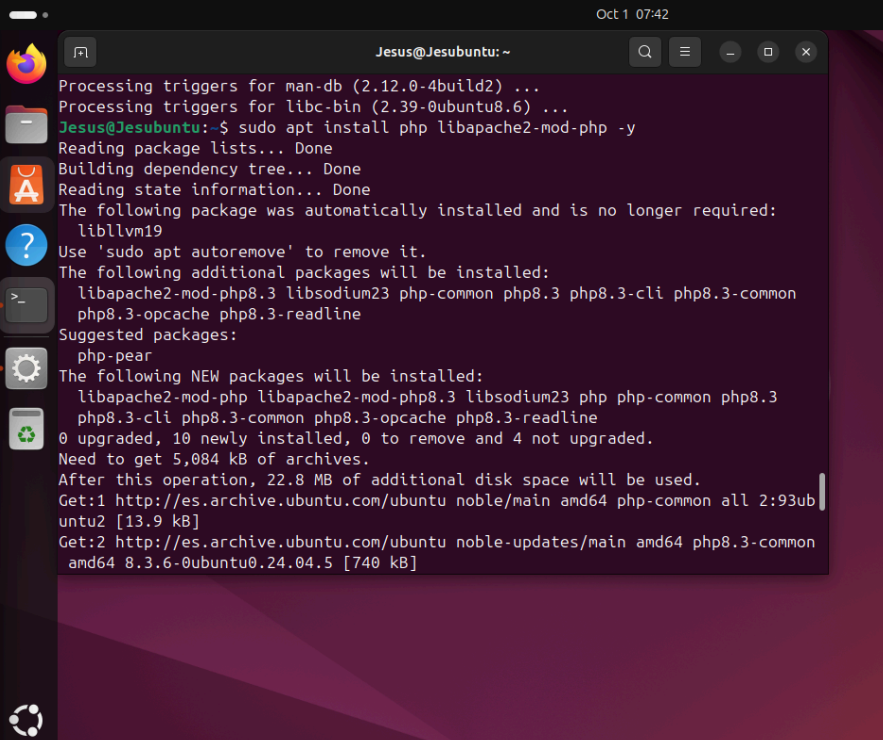
sudo apt install apache2 -y



```
Oct 1 07:41
Jesus@Jesubuntu: ~
Processing triggers for libc-bin (2.39-0ubuntu8.6) ...
Jesus@Jesubuntu:~$ sudo apt install apache2 -y
Command 'sudp' not found, did you mean:
  command 'ssdp' from snap ssdp (0.0.1)
  command 'sup' from deb sup (20100519-3)
  command 'sudo' from deb sudo (1.9.15p5-3ubuntu5.24.04.1)
  command 'sudo' from deb sudo-ldap (1.9.15p5-3ubuntu5.24.04.1)
  command 'sfdp' from deb graphviz (2.42.2-9ubuntu0.1)
See 'snap info <snapname>' for additional versions.
Jesus@Jesubuntu:~$ sudo apt install apache2 -y
Reading package lists... Done
Building dependency tree... Done
Reading state information... Done
The following package was automatically installed and is no longer required:
  libllvm19
Use 'sudo apt autoremove' to remove it.
The following additional packages will be installed:
  apache2-bin apache2-data apache2-utils libapr1t64 libaprutil1-dbd-sqlite3
  libaprutil1-ldap libaprutil1t64
Suggested packages:
  apache2-doc apache2-suexec-pristine | apache2-suexec-custom
The following NEW packages will be installed:
  apache2 apache2-bin apache2-data apache2-utils libapr1t64
  libaprutil1-dbd-sqlite3 libaprutil1-ldap libaprutil1t64
A upgraded, 8 newly installed, 0 to remove and 4 not upgraded.
```

Instalar PHP

sudo apt install php libapache2-mod-php -y



```
Oct 1 07:42
Jesus@Jesubuntu: ~
Processing triggers for man-db (2.12.0-4build2) ...
Processing triggers for libc-bin (2.39-0ubuntu8.6) ...
Jesus@Jesubuntu:~$ sudo apt install php libapache2-mod-php -y
Reading package lists... Done
Building dependency tree... Done
Reading state information... Done
The following package was automatically installed and is no longer required:
  libllvm19
Use 'sudo apt autoremove' to remove it.
The following additional packages will be installed:
  libapache2-mod-php8.3 libsodium23 php-common php8.3 php8.3-cli php8.3-common
  php8.3-opcache php8.3-readline
Suggested packages:
  php-pear
The following NEW packages will be installed:
  libapache2-mod-php libapache2-mod-php8.3 libsodium23 php php-common php8.3
  php8.3-cli php8.3-common php8.3-opcache php8.3-readline
0 upgraded, 10 newly installed, 0 to remove and 4 not upgraded.
Need to get 5,084 kB of archives.
After this operation, 22.8 MB of additional disk space will be used.
Get:1 http://es.archive.ubuntu.com/ubuntu noble/main amd64 php-common all 2:93ub
untu2 [13.9 kB]
Get:2 http://es.archive.ubuntu.com/ubuntu noble-updates/main amd64 php8.3-common
amd64 8.3.6-0ubuntu0.24.04.5 [740 kB]
```

Iniciar Apache

sudo service apache2 start

```
Processing triggers for libapache2-mod-php8.3 (8.3.0-0ubuntu0.24.04.3) ...  
Jesus@Jesubuntu:~$ sudo service apache2 start
```

Verificar estado de Apache

sudo systemctl status apache2

```
Jesus@Jesubuntu:~$ sudo systemctl status apache2  
● apache2.service - The Apache HTTP Server  
   Loaded: loaded (/usr/lib/systemd/system/apache2.service; enabled; preset: 2  
   Active: active (running) since Wed 2025-10-01 07:42:51 UTC; 2min 56s ago  
     Docs: https://httpd.apache.org/docs/2.4/  
  Process: 14923 ExecStart=/usr/sbin/apachectl start (code=exited, status=0/S  
 Main PID: 14929 (apache2)  
    Tasks: 6 (limit: 4603)  
  Memory: 10.6M (peak: 11.6M)  
     CPU: 52ms  
   CGroup: /system.slice/apache2.service  
           └─14929 /usr/sbin/apache2 -k start  
             └─14932 /usr/sbin/apache2 -k start  
               └─14933 /usr/sbin/apache2 -k start  
                 └─14934 /usr/sbin/apache2 -k start  
                   └─14935 /usr/sbin/apache2 -k start  
                     └─14936 /usr/sbin/apache2 -k start  
  
Oct 01 07:42:51 Jesubuntu systemd[1]: Starting apache2.service - The Apache HTTP  
Oct 01 07:42:51 Jesubuntu apachectl[14928]: AH00558: apache2: Could not reliabl  
Oct 01 07:42:51 Jesubuntu systemd[1]: Started apache2.service - The Apache HTTP  
lines 1-20/20 (END)
```

Crear archivo PHP info

echo "<?php phpinfo(); ?>" | sudo tee /var/www/html/info.php

```
Jesus@Jesubuntu:~$ echo "<?phpinfo();?>" |sudo tee /var/www/html/info.php  
<?phpinfo();?>  
Jesus@Jesubuntu:~$
```

Probar desde terminal

curl http://localhost/info.php

```

Jesus@Jesubuntu:~$ sudo apt install curl
Reading package lists... Done
Building dependency tree... Done
Reading state information... Done
The following package was automatically installed and is no longer required:
  libllvm19
Use 'sudo apt autoremove' to remove it.
The following NEW packages will be installed:
  curl
0 upgraded, 1 newly installed, 0 to remove and 4 not upgraded.
Need to get 226 kB of archives.
After this operation, 534 kB of additional disk space will be used.
Get:1 http://es.archive.ubuntu.com/ubuntu noble-updates/main amd64 curl amd64 8.5.0-2ubuntu10.6 [226 kB]
Fetched 226 kB in 1s (287 kB/s)
Selecting previously unselected package curl.
(Reading database ... 150985 files and directories currently installed.)
Preparing to unpack .../curl_8.5.0-2ubuntu10.6_amd64.deb ...
Unpacking curl (8.5.0-2ubuntu10.6) ...
Setting up curl (8.5.0-2ubuntu10.6) ...
Processing triggers for man-db (2.12.0-4build2) ...
Jesus@Jesubuntu:~$ curl http://localhost/info.php
<?phpinfo();?>
Jesus@Jesubuntu:~$

```

Nginx + HTML

Detener Apache (si está corriendo)

sudo service apache2 stop

```

Jesus@Jesubuntu:~$ sudo service apache2 stop

```

Instalar Nginx

sudo apt install nginx -y

```

Jesus@Jesubuntu:~$ sudo apt install nginx -y
Reading package lists... Done
Building dependency tree... Done
Reading state information... Done
The following package was automatically installed and is no longer required:
  libllvm19
Use 'sudo apt autoremove' to remove it.
The following additional packages will be installed:
  nginx-common
Suggested packages:
  fcgiwrap nginx-doc
The following NEW packages will be installed:

```

Iniciar Nginx

sudo service nginx start

```

Jesus@Jesubuntu:~$ sudo service nginx start

```

Verificar estado de Nginx

sudo systemctl status nginx

```

Jesus@Jesubuntu:~$ sudo systemctl status nginx
● nginx.service - A high performance web server and a reverse proxy server
   Loaded: loaded (/usr/lib/systemd/system/nginx.service; enabled; preset: en>
   Active: active (running) since Wed 2025-10-01 08:05:18 UTC; 2min 28s ago
     Docs: man:nginx(8)
   Process: 16813 ExecStartPre=/usr/sbin/nginx -t -q -g daemon on; master_proc>
   Process: 16815 ExecStart=/usr/sbin/nginx -g daemon on; master_process on; (>
  Main PID: 16846 (nginx)
    Tasks: 5 (limit: 4603)
   Memory: 3.7M (peak: 8.5M)
      CPU: 30ms
   CGroup: /system.slice/nginx.service
           └─16846 "nginx: master process /usr/sbin/nginx -g daemon on; maste>
             └─16849 "nginx: worker process"
               └─16850 "nginx: worker process"
                 └─16851 "nginx: worker process"
                   └─16852 "nginx: worker process"

Oct 01 08:05:18 Jesubuntu systemd[1]: Starting nginx.service - A high performan>
Oct 01 08:05:18 Jesubuntu systemd[1]: Started nginx.service - A high performan>
lines 1-19/19 (END)

```

Crear página HTML simple

```

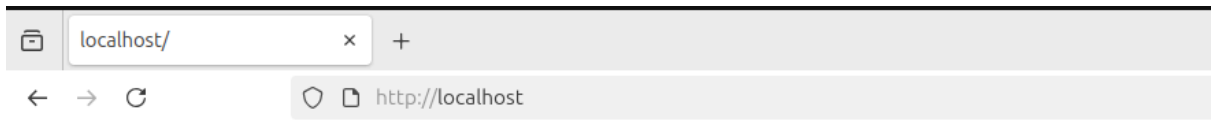
echo "<h1>Hola Mundo desde Nginx</h1><p>Servidor funcionando correctamente</p>" |
sudo tee /var/www/html/index.html

```

```

Jesus@Jesubuntu:~$ echo "<h1>Hola Mundo desde Nginx</h1><p>Servidor funcionando
correctamente</p>" | sudo tee /var/www/html/index.html
<h1>Hola Mundo desde Nginx</h1><p>Servidor funcionando correctamente</p>

```



Hola Mundo desde Nginx

Servidor funcionando correctamente

Probar desde terminal

curl <http://localhost>

```
Jesus@Jesubuntu:~$ curl http://localhost
```