TERCERA PRACTICA ARQUITECTURA EN LA NUBE

Instalación del Servidor I AMP

1. Actualizar el Sistema

```
vboxuser@UbuntuDesktop:~$ sudo apt update
[sudo] password for vboxuser:
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
82 packages can be upgraded. Run 'apt list --upgradable' to see them.
```

```
vboxuser@UbuntuDesktop:~$ 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 packages will be upgraded:
  bind9-dnsutils bind9-host bind9-libs bluez bluez-cups bluez-obexd cloud-init
  coreutils dconf-cli dconf-gsettings-backend dconf-service fwupd gdm3
  gir1.2-gdm-1.0 gir1.2-gtk-4.0 gir1.2-nm-1.0
  gnome-shell-extension-desktop-icons-ng libbluetooth3 libdconf1 libegl-mesa0
  libfwupd2 libgbm1 libgdm1 libgl1-mesa-dri libglx-mesa0 libgtk-4-1
  libgtk-4-bin libgtk-4-common libgtk-4-media-gstreamer libgtop-2.0-11
```

2. Instalación Apache Servidor Web

```
vboxuser@UbuntuDesktop:~$ 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.
```

3. Instalar MySQL (Base de datos)

```
vboxuser@UbuntuDesktop:~$ sudo apt install mysql-server -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:
   libaio1t64 libcgi-fast-perl libcgi-pm-perl libevent-core-2.1-7t64
```

```
vboxuser@UbuntuDesktop:~$ sudo mysql_secure_installation

Securing the MySQL server deployment.

Connecting to MySQL using a blank password.

VALIDATE PASSWORD COMPONENT can be used to test passwords and improve security. It checks the strength of password and allows the users to set only those passwords which are secure enough. Would you like to setup VALIDATE PASSWORD component?

Press y|Y for Yes, any other key for No: n
```

4. Instalar PHP

```
vboxuser@UbuntuDesktop:~$ sudo apt install php php-mysql libapache2-mod-php php-
curl php-gd php-mbstring php-xml php-xmlrpc php-intl php-zip -y
Reading package lists... Done
Building dependency tree... Done
Reading state information... Done
The following package was automatically installed and is no longer required:
   liblvm19
Use 'sudo apt autoremove' to remove it.
The following additional packages will be installed:
   libapache2-mod-php8.3 libsodium23 libxmlrpc-epi0t64 libzip4t64 php-common
   php8.3 php8.3-cli php8.3-common php8.3-curl php8.3-gd php8.3-intl
   php8.3-mbstring php8.3-mysql php8.3-opcache php8.3-readline php8.3-xml
   php8.3-xmlrpc php8.3-zip
Suggested packages:
```

```
vboxuser@UbuntuDesktop:~$ php -v
PHP 8.3.6 (cli) (built: Jul 14 2025 18:30:55) (NTS)
Copyright (c) The PHP Group
Zend Engine v4.3.6, Copyright (c) Zend Technologies
  with Zend OPcache v8.3.6, Copyright (c), by Zend Technologies
```

vboxuser@UbuntuDesktop:~\$ sudo systemctl restart apache2

Crear Base de Datos para WordPress

1. Acceder a MySQL y Crear Base de Datos y Usuario

```
vboxuser@UbuntuDesktop:~$ sudo mysql
Welcome to the MySQL monitor. Commands end with; or \g.
Your MySQL connection id is 10
Server version: 8.0.43-0ubuntu0.24.04.2 (Ubuntu)
Copyright (c) 2000, 2025, Oracle and/or its affiliates.
Oracle is a registered trademark of Oracle Corporation and/or its
affiliates. Other names may be trademarks of their respective
owners.
Type 'help;' or '\h' for help. Type '\c' to clear the current input statement.
mysql> CREATE DATABASE wordpress;
Query OK, 1 row affected (0.02 sec)
Query OK, 0 rows affected (0.01 sec)
mysql> GRANT ALL PRIVILEGES ON wordpress.* TO "wpuser"@"localhost";
Query OK, 0 rows affected (0.01 sec)
mysql> FLUSH PRIVILEGES;
Query OK, 0 rows affected (0.01 sec)
mysql> EXIT;
Bye
```

Instalar WordPress

1. Descargar WordPress

2. Copiar Archivos a Apache

```
vboxuser@UbuntuDesktop:/tmp$ sudo rm -rf /var/www/html/*
vboxuser@UbuntuDesktop:/tmp$ sudo cp -r wordpress/* /var/www/html/
```

3. Permisos

```
vboxuser@UbuntuDesktop:/tmp$ sudo chown -R www-data:www-data /var/www/html/
vboxuser@UbuntuDesktop:/tmp$ sudo chmod -R 755 /var/www/html/
```

4. Configurar wp-config.php

```
vboxuser@UbuntuDesktop:/tmp$ sudo cp /var/www/html/wp-config-sample.php /var/www/html/w
p-config.php
vboxuser@UbuntuDesktop:/tmp$ sudo nano /var/www/html/wp-config.php
```

5. Finalizar en el navegador

¡Lo lograste!

WordPress ya está instalado. ¡Gracias, y que lo disfrutes!

Nombre de wpuser wsuario

Contraseña La contraseña que has elegido.

<u>Acceder</u>

Hacer WordPress Accesible desde Internet con Ngrok

1. Instalar Ngrok en Ubuntu

```
vboxuser@UbuntuDesktop:/tmp$ cd ~
vboxuser@UbuntuDesktop:~$ wget https://bin.equinox.io/c/bNyj1mQVY4c/ngrok-v3-stable-lin
--2025-10-17 08:53:30-- https://bin.equinox.io/c/bNyj1mQVY4c/ngrok-v3-stable-linux-amd
64.tgz
Resolving bin.equinox.io (bin.equinox.io)... 35.71.179.82, 99.83.220.108, 75.2.60.68, .
Connecting to bin.equinox.io (bin.equinox.io)|35.71.179.82|:443... connected.
HTTP request sent, awaiting response... 200 OK
Length: 9315483 (8.9M) [application/octet-stream]
Saving to: 'ngrok-v3-stable-linux-amd64.tgz'
in 4.2s
2025-10-17 08:53:35 (2.09 MB/s) - 'ngrok-v3-stable-linux-amd64.tgz' saved [9315483/9315
vboxuser@UbuntuDesktop:~$ tar -xvzf ngrok-v3-stable-linux-amd64.tgz
narok
vboxuser@UbuntuDesktop:~$ sudo mv ngrok/usr/local/bin/
[sudo] password for vboxuser:
mv: missing destination file operand after 'ngrok/usr/local/bin/'
Try 'mv --help' for more information.
vboxuser@UbuntuDesktop:~$ sudo mv ngrok /usr/local/bin/
vboxuser@UbuntuDesktop:~$ sudo snap install ngrok
ngrok (v3/stable) 3.29.0 from Ngrok (ngrok-publisher) installed
```

2. Verificar instalación

```
vboxuser@UbuntuDesktop:~$ ngrok version
ngrok version 3.30.0
```

3. Autenticar Ngrok

```
vboxuser@UbuntuDesktop:~$ ngrok config add-authtoken 34BdSDOAZlFrUi2ebaNjgQDisUS_bTtLo5
SgjLDuBm4QH7mq
Authtoken saved to configuration file: /home/vboxuser/.config/ngrok/ngrok.yml
```

4. Iniciar túnel HTTP

http://127.0.0.1:4040

https://peckiest-nonostensively-milissa.ngrok-free.dev

5. Probar acceso

