

WSL



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1. Instalación de WSL y configuración de subservicio de ubuntu

```

peperosa@A6Alumno06:/mnt/c/WINDOWS/system32$ wsl
Subsistema de Windows para Linux no tiene distribuciones instaladas.
Para resolverlo, instale una distribución con las instrucciones siguientes:

Use 'wsl.exe --list --online' para enumerar las distribuciones disponibles
y "wsl.exe --install <Distro>" para instalar.
PS C:\WINDOWS\system32> wsl.exe --install
Descargando: Ubuntu
Instalando: Ubuntu
Distribución instalada correctamente. Se puede iniciar a través de "wsl.exe -d Ubuntu"
Iniciando Ubuntu...
Provisioning the new WSL instance Ubuntu
This might take a while...
Create a default Unix user account: pepeUbuntu
Invalid username. A valid username must start with a lowercase letter or underscore, and can contain lowercase letters,
digits, underscores, and dashes.
Create a default Unix user account: pepe rosa
Invalid username. A valid username must start with a lowercase letter or underscore, and can contain lowercase letters,
digits, underscores, and dashes.
Create a default Unix user account: peperosa
New password:
Retype new password:
passwd: password updated successfully
To run a command as administrator (user "root"), use "sudo <command>".
See "man sudo_root" for details.

peperosa@A6Alumno06:/mnt/c/WINDOWS/system32$ |

```

Aquí instalamos **wsl** que es un **subsistema linux en windows**.

```

peperosa@A6Alumno06:/mnt/c/WINDOWS/system32$ sudo apt update && upgrade -y
[sudo] password for peperosa:
Get:1 http://security.ubuntu.com/ubuntu noble-security InRelease [126 kB]
Hit:2 http://archive.ubuntu.com/ubuntu noble InRelease
Get:3 http://security.ubuntu.com/ubuntu noble-security/main amd64 Packages [1171 kB]
Get:4 http://archive.ubuntu.com/ubuntu noble-updates InRelease [126 kB]
Get:5 http://security.ubuntu.com/ubuntu noble-security/main Translation-en [198 kB]
Get:6 http://security.ubuntu.com/ubuntu noble-security/main amd64 Components [21.6 kB]
Get:7 http://security.ubuntu.com/ubuntu noble-security/main amd64 c-n-f Metadata [8744 B]
Get:8 http://security.ubuntu.com/ubuntu noble-security/universe amd64 Packages [880 kB]
Get:9 http://security.ubuntu.com/ubuntu noble-security/universe Translation-en [195 kB]
Get:10 http://security.ubuntu.com/ubuntu noble-security/universe amd64 Components [52.3 kB]
Get:11 http://security.ubuntu.com/ubuntu noble-security/universe amd64 c-n-f Metadata [18.0 kB]
Get:12 http://security.ubuntu.com/ubuntu noble-security/restricted amd64 Packages [1872 kB]
Get:13 http://security.ubuntu.com/ubuntu noble-security/restricted Translation-en [423 kB]
Get:14 http://security.ubuntu.com/ubuntu noble-security/restricted amd64 Components [212 B]
Get:15 http://security.ubuntu.com/ubuntu noble-security/restricted amd64 c-n-f Metadata [520 B]
Get:16 http://security.ubuntu.com/ubuntu noble-security/multiverse amd64 Packages [28.0 kB]
Get:17 http://security.ubuntu.com/ubuntu noble-security/multiverse Translation-en [5228 B]
Get:18 http://security.ubuntu.com/ubuntu noble-security/multiverse amd64 Components [212 B]
Get:19 http://security.ubuntu.com/ubuntu noble-security/multiverse amd64 c-n-f Metadata [384 B]
Get:20 http://archive.ubuntu.com/ubuntu noble-backports InRelease [126 kB]
Get:21 http://archive.ubuntu.com/ubuntu noble/universe amd64 Packages [15.0 MB]
Get:22 http://archive.ubuntu.com/ubuntu noble/universe Translation-en [5982 kB]
Get:23 http://archive.ubuntu.com/ubuntu noble/universe amd64 Components [3871 kB]
Get:24 http://archive.ubuntu.com/ubuntu noble/universe amd64 c-n-f Metadata [301 kB]
Get:25 http://archive.ubuntu.com/ubuntu noble/multiverse amd64 Packages [269 kB]
Get:26 http://archive.ubuntu.com/ubuntu noble/multiverse Translation-en [118 kB]
Get:27 http://archive.ubuntu.com/ubuntu noble/multiverse amd64 Components [35.0 kB]
Get:28 http://archive.ubuntu.com/ubuntu noble/multiverse amd64 c-n-f Metadata [8328 B]
Get:29 http://archive.ubuntu.com/ubuntu noble-updates/main amd64 Packages [1443 kB]
Get:30 http://archive.ubuntu.com/ubuntu noble-updates/main Translation-en [282 kB]
Get:31 http://archive.ubuntu.com/ubuntu noble-updates/main amd64 Components [175 kB]
Get:32 http://archive.ubuntu.com/ubuntu noble-updates/main amd64 c-n-f Metadata [15.3 kB]
Get:33 http://archive.ubuntu.com/ubuntu noble-updates/universe amd64 Packages [1485 kB]
Get:34 http://archive.ubuntu.com/ubuntu noble-updates/universe Translation-en [299 kB]
Get:35 http://archive.ubuntu.com/ubuntu noble-updates/universe amd64 Components [377 kB]
Get:36 http://archive.ubuntu.com/ubuntu noble-updates/universe amd64 c-n-f Metadata [31.1 kB]
Get:37 http://archive.ubuntu.com/ubuntu noble-updates/restricted amd64 Packages [1957 kB]
Get:38 http://archive.ubuntu.com/ubuntu noble-updates/restricted Translation-en [441 kB]
Get:39 http://archive.ubuntu.com/ubuntu noble-updates/restricted amd64 Components [212 B]
Get:40 http://archive.ubuntu.com/ubuntu noble-updates/restricted amd64 c-n-f Metadata [544 B]
Get:41 http://archive.ubuntu.com/ubuntu noble-updates/multiverse amd64 Packages [32.0 kB]
Get:42 http://archive.ubuntu.com/ubuntu noble-updates/multiverse Translation-en [5500 B]
Get:43 http://archive.ubuntu.com/ubuntu noble-updates/multiverse amd64 Components [940 B]
Get:44 http://archive.ubuntu.com/ubuntu noble-updates/multiverse amd64 c-n-f Metadata [488 B]
Get:45 http://archive.ubuntu.com/ubuntu noble-backports/main amd64 Packages [40.4 kB]
Get:46 http://archive.ubuntu.com/ubuntu noble-backports/main Translation-en [9208 B]
Get:47 http://archive.ubuntu.com/ubuntu noble-backports/main amd64 Components [7132 B]
Get:48 http://archive.ubuntu.com/ubuntu noble-backports/main amd64 c-n-f Metadata [368 B]
Get:49 http://archive.ubuntu.com/ubuntu noble-backports/universe amd64 Packages [28.9 kB]
Get:50 http://archive.ubuntu.com/ubuntu noble-backports/universe Translation-en [17.5 kB]
Get:51 http://archive.ubuntu.com/ubuntu noble-backports/universe amd64 Components [11.0 kB]
Get:52 http://archive.ubuntu.com/ubuntu noble-backports/universe amd64 c-n-f Metadata [1444 B]
Get:53 http://archive.ubuntu.com/ubuntu noble-backports/restricted amd64 Components [216 B]
Get:54 http://archive.ubuntu.com/ubuntu noble-backports/restricted amd64 c-n-f Metadata [116 B]
Get:55 http://archive.ubuntu.com/ubuntu noble-backports/multiverse amd64 Components [212 B]
Get:56 http://archive.ubuntu.com/ubuntu noble-backports/multiverse amd64 c-n-f Metadata [116 B]
Fetched 37.5 MB in 4s (8620 kB/s)
Reading package lists... Done
Building dependency tree... Done
Reading state information... Done
38 packages can be upgraded. Run 'apt list --upgradable' to see them.
upgrade: command not found

```

Hacemos el comando **sudo apt update**, que quiere decir que actualizamos lo máximo posible el sistema linux recién instalado, cometí el error de intentar hacer a la vez también el upgrade y no me reconoce el comando.

```

paperos@A6A:~/mnt/c/Windows/system32$ 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:
  libllvm9
Use 'sudo apt autoremove' to remove it.
The following NEW packages will be installed:
  libllvm20
The following packages will be upgraded:
  coreutils dconf-gsettings-backend dconf-service dpkg landscape-client landscape-common libc-bin libc6 libcupsys2t64
  libdconf1 libegl-mesa0 libgbm1 libglx-mesa0 libpam-modules libpam-modules-bin libpam-runtime
  libpam0g libpython3.12-minimal libpython3.12-stdlib libpython3.12t64 libsqlite3-0 libtiff6 libxml2 locales
  mesa-libgalium mesa-vulkan-drivers openssh-client python3-software-properties python3.12 python3.12-minimal
  software-properties-common systemd-hwdb vim vim-common vim-runtime vim-tiny xxd
38 upgraded, 1 newly installed, 0 to remove and 0 not upgraded.
22 standard LTS security updates
Modifying 89.7 MB of archives.
After this operation, 144 MB of additional disk space will be used.
Get:1 http://archive.ubuntu.com/ubuntu noble-updates/main amd64 coreutils amd64 9.4-3ubuntu6.1 [1413 kB]
Get:2 http://archive.ubuntu.com/ubuntu noble-updates/main amd64 dpkg amd64 1.22.6ubuntu6.5 [1282 kB]
Get:3 http://archive.ubuntu.com/ubuntu noble-updates/main amd64 libc6 amd64 2.39-8ubuntu8.6 [3263 kB]
Get:4 http://archive.ubuntu.com/ubuntu noble-updates/main amd64 libc-bin amd64 2.39-8ubuntu8.6 [682 kB]
Get:5 http://archive.ubuntu.com/ubuntu noble-updates/main amd64 libpam0g amd64 1.5.3-3ubuntu5.5 [67.8 kB]
Get:6 http://archive.ubuntu.com/ubuntu noble-updates/main amd64 libpam-modules-bin amd64 1.5.3-3ubuntu5.5 [51.9 kB]
Get:7 http://archive.ubuntu.com/ubuntu noble-updates/main amd64 libpam-modules amd64 1.5.3-3ubuntu5.5 [286 kB]
Get:8 http://archive.ubuntu.com/ubuntu noble-updates/main amd64 libpython3.12t64 amd64 3.12.3-1ubuntu0.8 [2355 kB]
Get:9 http://archive.ubuntu.com/ubuntu noble-updates/main amd64 python3.12 amd64 3.12.3-1ubuntu0.8 [651 kB]
Get:10 http://archive.ubuntu.com/ubuntu noble-updates/main amd64 libpython3.12-stdlib amd64 3.12.3-1ubuntu0.8 [2068 kB]
Get:11 http://archive.ubuntu.com/ubuntu noble-updates/main amd64 python3.12-minimal amd64 3.12.3-1ubuntu0.8 [2334 kB]
Get:12 http://archive.ubuntu.com/ubuntu noble-updates/main amd64 libpython3.12-minimal amd64 3.12.3-1ubuntu0.8 [836 kB]
Get:13 http://archive.ubuntu.com/ubuntu noble-updates/main amd64 libsqlite3-0 amd64 3.45.1-1ubuntu2.5 [701 kB]
Get:14 http://archive.ubuntu.com/ubuntu noble-updates/main amd64 libpam-runtime all 1.5.3-3ubuntu5.5 [49.8 kB]
Get:15 http://archive.ubuntu.com/ubuntu noble-updates/main amd64 libx11-2 amd64 2.9.14+dfsg-1.3ubuntu13.5 [763 kB]
Get:16 http://archive.ubuntu.com/ubuntu noble-updates/main amd64 locales all 2.39-8ubuntu8.6 [4229 kB]
Get:17 http://archive.ubuntu.com/ubuntu noble-updates/main amd64 systemd-hwdb all 255.1.5 [3518 kB]
Get:18 http://archive.ubuntu.com/ubuntu noble-updates/main amd64 vim amd64 2:9.1.0016-1ubuntu7.9 [1881 kB]
Get:19 http://archive.ubuntu.com/ubuntu noble-updates/main amd64 vim-common all 2:9.1.0016-1ubuntu7.9 [386 kB]
Get:20 http://archive.ubuntu.com/ubuntu noble-updates/main amd64 vim-tiny amd64 2:9.1.0016-1ubuntu7.9 [803 kB]
Get:21 http://archive.ubuntu.com/ubuntu noble-updates/main amd64 vim-runtime all 2:9.1.0016-1ubuntu7.9 [7281 kB]
Get:22 http://archive.ubuntu.com/ubuntu noble-updates/main amd64 xxd amd64 2:9.1.0016-1ubuntu7.9 [63.8 kB]
Get:23 http://archive.ubuntu.com/ubuntu noble-updates/main amd64 openssh-client amd64 1:9.6p1-3ubuntu13.14 [906 kB]
Get:24 http://archive.ubuntu.com/ubuntu noble-updates/main amd64 dconf-gsettings-backend amd64 0.40.0-4ubuntu0.1 [22.1 kB]
Get:25 http://archive.ubuntu.com/ubuntu noble-updates/main amd64 dconf-service amd64 0.40.0-4ubuntu0.1 [27.6 kB]
Get:26 http://archive.ubuntu.com/ubuntu noble-updates/main amd64 libdconf1 amd64 0.40.0-4ubuntu0.1 [39.6 kB]
Get:27 http://archive.ubuntu.com/ubuntu noble-updates/main amd64 landscape-client amd64 24.02-1ubuntu5.6 [124 kB]
Get:28 http://archive.ubuntu.com/ubuntu noble-updates/main amd64 landscape-common amd64 24.02-1ubuntu5.6 [93.2 kB]
Get:29 http://archive.ubuntu.com/ubuntu noble-updates/main amd64 libcupsys2t64 amd64 2.4.7-1.2ubuntu7.4 [272 kB]
Get:30 http://archive.ubuntu.com/ubuntu noble-updates/main amd64 libegl-mesa-dri amd64 25.0.7-1ubuntu8.24.04.2 [35.8 kB]
Get:31 http://archive.ubuntu.com/ubuntu noble-updates/main amd64 libegl-mesa0 amd64 25.0.7-1ubuntu8.24.04.2 [141 kB]
Get:32 http://archive.ubuntu.com/ubuntu noble-updates/main amd64 libgbm1 amd64 1:20.1.2-1ubuntu1-24.04.2 [30.6 MB]
Get:33 http://archive.ubuntu.com/ubuntu noble-updates/main amd64 libgbm1-mesa0 amd64 25.0.7-1ubuntu8.24.04.2 [124 kB]
Get:34 http://archive.ubuntu.com/ubuntu noble-updates/main amd64 libgbm1 amd64 25.0.7-1ubuntu8.24.04.2 [32.7 kB]
Get:35 http://archive.ubuntu.com/ubuntu noble-updates/main amd64 mesa-libgallium amd64 25.0.7-1ubuntu8.24.04.2 [10.3 MB]
Get:36 http://archive.ubuntu.com/ubuntu noble-updates/main amd64 libtiff6 amd64 4.5.1+git23972-1ubuntu2.4 [199 kB]
Get:37 http://archive.ubuntu.com/ubuntu noble-updates/main amd64 mesa-vulkan-drivers amd64 25.0.7-1ubuntu8.24.04.2 [15.3 MB]
Get:38 http://archive.ubuntu.com/ubuntu noble-updates/main amd64 software-properties-common all 0.99.49.3 [14.4 kB]
Get:39 http://archive.ubuntu.com/ubuntu noble-updates/main amd64 python3-software-properties all 0.99.49.3 [29.9 kB]
Fetched 89.7 MB in 1s (64.8 MB/s)
Extracting templates from packages: 100%
Preconfiguring packages ...
(Reading database ... 40754 files and directories currently installed.)
Preparing to unpack .../coreutils_9.4-3ubuntu6.1_amd64.deb ...
Unpacking coreutils (9.4-3ubuntu6.1) over (9.4-3ubuntu6) ...

```

Después para corregir utilzo el comando **upgrade -y** para descargar si alguno no se había instalado los paquetes más recientes.

2. Apache2

```
peperosa@A6Alumno06:/mnt/c/WINDOWS/system32$ 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:
  libllym19
Use 'sudo apt autoremove' to remove it.
The following additional packages will be installed:
  apache2-bin apache2-data apache2-utils libaprutil1-dbd-sqlite3 libaprutil1-ldap libaprutil1t64 liblua5.4-0 ssl-cert
Suggested packages:
  apache2-doc apache2-suexec-pristine | apache2-suexec-custom www-browser ufw
The following NEW packages will be installed:
  apache2 apache2-bin apache2-data apache2-utils libaprutil1-dbd-sqlite3 libaprutil1-ldap libaprutil1t64 liblua5.4-0 ssl-cert
0 upgraded, 0 newly installed, 0 to remove and 0 not upgraded.
Need to get 2086 kB of archives.
After this operation, 8090 kB of additional disk space will be used.
Get:1 http://archive.ubuntu.com/ubuntu noble-updates/main amd64 libaprutil1t64 amd64 1.7.2-3.lubuntu0.1 [108 kB]
Get:2 http://archive.ubuntu.com/ubuntu noble/main amd64 libaprutil1t64 amd64 1.6.3-1.lubuntu7 [91.9 kB]
Get:3 http://archive.ubuntu.com/ubuntu noble/main amd64 libaprutil1t64-dbd-sqlite3 amd64 1.6.3-1.lubuntu7 [11.2 kB]
Get:4 http://archive.ubuntu.com/ubuntu/noble/main amd64 libaprutil1t64-dbd-ldap amd64 1.6.3-1.lubuntu7 [9116 B]
Get:5 http://archive.ubuntu.com/ubuntu/noble/main amd64 liblua5.4-0 amd64 5.4.6-3build2 [166 kB]
Get:6 http://archive.ubuntu.com/ubuntu/noble-updates/main amd64 apache2-bin amd64 2.4.58-1ubuntu8.8 [1331 kB]
Get:7 http://archive.ubuntu.com/ubuntu/noble-updates/main amd64 apache2-data all 2.4.58-1ubuntu8.8 [163 kB]
Get:8 http://archive.ubuntu.com/ubuntu/noble-updates/main amd64 apache2-utils amd64 2.4.58-1ubuntu8.8 [97.7 kB]
Get:9 http://archive.ubuntu.com/ubuntu/noble-updates/main amd64 apache2 amd64 2.4.58-1ubuntu8.8 [90.2 kB]
Get:10 http://archive.ubuntu.com/ubuntu/noble/main amd64 ssl-cert all 1.1.2ubuntul [17.8 kB]
Fetched 2086 kB in 0s (5357 kB/s)
Preconfiguring packages...
Selecting previously unselected package libapr1t64:amd64.
(Reading database ... 40761 files and directories currently installed.)
Preparing to unpack .../0-libapr1t64_1.7.2-3.lubuntu0.1_amd64.deb ...
Unpacking libapr1t64:amd64 (1.7.2-3.lubuntu0.1) ...
Selecting previously unselected package libaprutil1t64:amd64.
Preparing to unpack .../1-libaprutil1t64_1.6.3-1.lubuntu7_amd64.deb ...
Unpacking libaprutil1t64:amd64 (1.6.3-1.lubuntu7) ...
Selecting previously unselected package libaprutil1-dbd-sqlite3:amd64.
Preparing to unpack .../2-libaprutil1-dbd-sqlite3_1.6.3-1.lubuntu7_amd64.deb ...
Unpacking libaprutil1-dbd-sqlite3:amd64 (1.6.3-1.lubuntu7) ...
Selecting previously unselected package libaprutil1-ldap:amd64.
Preparing to unpack .../3-libaprutil1-ldap_1.6.3-1.lubuntu7_amd64.deb ...
Unpacking libaprutil1-ldap:amd64 (1.6.3-1.lubuntu7) ...
Selecting previously unselected package liblua5.4-0:amd64.
Preparing to unpack .../4-liblua5.4-0_5.4.6-3build2_amd64.deb ...
Unpacking liblua5.4-0:amd64 (5.4.6-3build2) ...
Selecting previously unselected package apache2-bin.
Preparing to unpack .../5-apache2-bin_2.4.58-1ubuntu8.8_amd64.deb ...
Unpacking apache2-bin (2.4.58-1ubuntu8.8) ...
Selecting previously unselected package apache2-data.
Preparing to unpack .../6-apache2-data_2.4.58-1ubuntu8.8_all.deb ...
Unpacking apache2-data (2.4.58-1ubuntu8.8) ...
Selecting previously unselected package apache2-utils.
Preparing to unpack .../7-apache2-utils_2.4.58-1ubuntu8.8_amd64.deb ...
Unpacking apache2-utils (2.4.58-1ubuntu8.8) ...
Selecting previously unselected package apache2.
Preparing to unpack .../8-apache2_2.4.58-1ubuntu8.8_amd64.deb ...
Unpacking apache2 (2.4.58-1ubuntu8.8) ...
Selecting previously unselected package ssl-cert.
Preparing to unpack .../9-ssl-cert_1.1.2ubuntul_all.deb ...
Unpacking ssl-cert (1.1.2ubuntul) ...
Setting up ssl-cert (1.1.2ubuntul) ...
Created symlink /etc/systemd/system/multi-user.target.wants/ssl-cert.service → /usr/lib/systemd/system/ssl-cert.service.
Setting up libapr1t64:amd64 (1.7.2-3.lubuntu0.1) ...
Setting up liblua5.4-0:amd64 (5.4.6-3build2) ...
Setting up apache2-data (2.4.58-1ubuntu8.8) ...
Setting up libaprutil1t64:amd64 (1.6.3-1.lubuntu7) ...
Setting up libaprutil1-ldap:amd64 (1.6.3-1.lubuntu7) ...
Setting up libaprutil1-dbd-sqlite3:amd64 (1.6.3-1.lubuntu7) ...
Setting up apache2-utils (2.4.58-1ubuntu8.8) ...
Setting up apache2-bin (2.4.58-1ubuntu8.8) ...
Setting up apache2 (2.4.58-1ubuntu8.8) ...
Enabling module rpm_event.
Enabling module authz_core.
Enabling module authz_host.
Enabling module authn_core.
Enabling module auth_basic.
Enabling module access_compat.
Enabling module authn_file.
Enabling module authz_user.
Enabling module alias.
Enabling module dir.
Enabling module autoindex.
Enabling module env.
Enabling module mime.
Enabling module negotiation.
Enabling module setenvif.
Enabling module filter.
Enabling module deflate.
Enabling module status.
Enabling module reqtimeout.
Enabling conf charset.
Enabling conf localized-error-pages.
Enabling conf other-vhosts-access-log.
Enabling conf security.
Enabling conf serve-cgi-bin.
Enabling site 000-default.
Created symlink /etc/systemd/system/multi-user.target.wants/apache2.service → /usr/lib/systemd/system/apache2.service.
Created symlink /etc/systemd/system/multi-user.target.wants/apache-htcacheclean.service → /usr/lib/systemd/system/apache-htcacheclean.service.
Processing triggers for man-db (2.12.0-4build2) ...
Processing triggers for libc-bin (2.39-0ubuntu0.6) ...
peperosa@A6Alumno06:/mnt/c/WINDOWS/system32$ |
```

En este paso **instalamos** el servidor web de apache2.

```

paperera@M6Alumino06:/mnt/c/MIM00MS/system32$ 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:
  liblxml9
Use 'sudo apt autoremove' to remove it.
The following additional packages will be installed:
  libapache2-mod-php8.3 php-common php8.3 php8.3-cli php8.3-common php8.3-ocache php8.3-readline
Suggested packages:
  php-pear
The following NEW packages will be installed:
  libapache2-mod-php libapache2-mod-php8.3 php php-common php8.3 php8.3-cli php8.3-common php8.3-ocache php8.3-readline
0 upgraded, 9 newly installed, 0 to remove and 0 not upgraded.
Need to get 4922 kB of archives.
After this operation, 22.4 MB of additional disk space will be used.
Get:1 http://archive.ubuntu.com/ubuntu noble/main amd64 php-common all 2:8.93ubuntu2 [13.9 kB]
Get:2 http://archive.ubuntu.com/ubuntu noble-updates/main amd64 php8.3-common and64 8.3.6-0ubuntu9.24.94.5 [748 kB]
Get:3 http://archive.ubuntu.com/ubuntu noble-updates/main amd64 php8.3-ocache and64 8.3.6-0ubuntu9.24.94.5 [371 kB]
Get:4 http://archive.ubuntu.com/ubuntu noble-updates/main amd64 php8.3-readline and64 8.3.6-0ubuntu9.24.94.5 [13.5 kB]
Get:5 http://archive.ubuntu.com/ubuntu noble-updates/main amd64 php8.3-cli and64 8.3.6-0ubuntu9.24.94.5 [1915 kB]
Get:6 http://archive.ubuntu.com/ubuntu noble-updates/main amd64 libapache2-mod-php8.3 and64 8.3.6-0ubuntu9.24.94.5 [1851 kB]
Get:7 http://archive.ubuntu.com/ubuntu noble/main amd64 libapache2-mod-php all 2:8.3+93ubuntu2 [4224 B]
Get:8 http://archive.ubuntu.com/ubuntu noble-updates/main amd64 php8.3 all 8.3.6-0ubuntu9.24.94.5 [9174 B]
Get:9 http://archive.ubuntu.com/ubuntu noble/main amd64 php all 2:8.3+93ubuntu2 [4876 B]
Fetched 4922 kB in 8s (15.0 kB/s)
Selecting previously unselected package php-common.
(Reading database ... 41486 files and directories currently installed.)
Preparing to unpack .../0-php-common_243a93ubuntu2_all.deb ...
Unpacking php-common (2:8.93ubuntu2) ...
Selecting previously unselected package php8.3-common.
Preparing to unpack .../1-php8.3-common_8.3.6-0ubuntu9.24.94.5_and64.deb ...
Unpacking php8.3-common (8.3.6-0ubuntu9.24.94.5) ...
Selecting previously unselected package php8.3-ocache.
Preparing to unpack .../2-php8.3-ocache_8.3.6-0ubuntu9.24.94.5_and64.deb ...
Unpacking php8.3-ocache (8.3.6-0ubuntu9.24.94.5) ...
Selecting previously unselected package php8.3-readline.
Preparing to unpack .../3-php8.3-readline_8.3.6-0ubuntu9.24.94.5_and64.deb ...
Unpacking php8.3-readline (8.3.6-0ubuntu9.24.94.5) ...
Selecting previously unselected package php8.3-cli.
Preparing to unpack .../4-php8.3-cli_8.3.6-0ubuntu9.24.94.5_and64.deb ...
Unpacking php8.3-cli (8.3.6-0ubuntu9.24.94.5) ...
Selecting previously unselected package libapache2-mod-php3.
Preparing to unpack .../5-libapache2-mod-php8.3_8.3.6-0ubuntu9.24.94.5_and64.deb ...
Unpacking libapache2-mod-php8.3 (8.3.6-0ubuntu9.24.94.5) ...
Selecting previously unselected package libapache2-mod-php.
Preparing to unpack .../6-libapache2-mod-php_243a8.3+93ubuntu2_all.deb ...
Unpacking libapache2-mod-php (2:8.3+93ubuntu2) ...
Selecting previously unselected package php8.3.
Preparing to unpack .../7-php8.3_8.3.6-0ubuntu9.24.94.5_all.deb ...
Unpacking php8.3 (8.3.6-0ubuntu9.24.94.5) ...
Selecting previously unselected package php.
Preparing to unpack .../8-php_243a8.3+93ubuntu2_all.deb ...
Unpacking php (2:8.3+93ubuntu2) ...
Setting up php-common (2:8.93ubuntu2) ...
Created symlink /etc/systemd/system/timers.target.wants/phpsessionclean.timer → /usr/lib/systemd/system/phpsessionclean.timer.
Setting up php8.3-common (8.3.6-0ubuntu9.24.94.5) ...
Creating config file /etc/php/8.3/mods-available/calendar.ini with new version
Creating config file /etc/php/8.3/mods-available/ctype.ini with new version
Creating config file /etc/php/8.3/mods-available/exif.ini with new version
Creating config file /etc/php/8.3/mods-available/fileinfo.ini with new version
Creating config file /etc/php/8.3/mods-available/ffi.ini with new version
Creating config file /etc/php/8.3/mods-available/ftp.ini with new version
Creating config file /etc/php/8.3/mods-available/gettext.ini with new version
Creating config file /etc/php/8.3/mods-available/iconv.ini with new version
Creating config file /etc/php/8.3/mods-available/pdo.ini with new version
Creating config file /etc/php/8.3/mods-available/phar.ini with new version
Creating config file /etc/php/8.3/mods-available/posix.ini with new version
Creating config file /etc/php/8.3/mods-available/shmop.ini with new version
Creating config file /etc/php/8.3/mods-available/sockets.ini with new version
Creating config file /etc/php/8.3/mods-available/sysvmsg.ini with new version
Creating config file /etc/php/8.3/mods-available/sysvsem.ini with new version
Creating config file /etc/php/8.3/mods-available/sysvshm.ini with new version
Creating config file /etc/php/8.3/mods-available/tokenizer.ini with new version
Setting up php8.3-readline (8.3.6-0ubuntu9.24.94.5) ...
Creating config file /etc/php/8.3/mods-available/readline.ini with new version
Setting up php8.3-ocache (8.3.6-0ubuntu9.24.94.5) ...
Creating config file /etc/php/8.3/mods-available/ocache.ini with new version
Setting up php8.3-cli (8.3.6-0ubuntu9.24.94.5) ...
update-alternatives: using /usr/bin/php8.3 to provide /usr/bin/php (php) in auto mode
update-alternatives: using /usr/bin/phar8.3 to provide /usr/bin/phar (phar) in auto mode
update-alternatives: using /usr/bin/phar.phar to provide /usr/bin/phar.phar (phar.phar) in auto mode
Creating config file /etc/php/8.3/cli/php.ini with new version
Setting up libapache2-mod-php8.3 (8.3.6-0ubuntu9.24.94.5) ...
Creating config file /etc/php/8.3/apache2/php.ini with new version
Module mpm_event disabled.
Enabling module mpm_prefork.
apache2_switch_mpm Switch to prefork
apache2_invoke: Enable module php8.3
Setting up php8.3 (8.3.6-0ubuntu9.24.94.5) ...
Setting up libapache2-mod-php (2:8.3+93ubuntu2) ...
Setting up php (2:8.3+93ubuntu2) ...
Processing triggers for man-db (2.12.0-4ubuntu2) ...
Processing triggers for php8.3-cli (8.3.6-0ubuntu9.24.94.5) ...
Processing triggers for libapache2-mod-php8.3 (8.3.6-0ubuntu9.24.94.5) ...

```

Instalamos **php** y su módulo de apache.

```

peperosa@A6Alumno06:/mnt/c/WINDOWS/system32$ sudo service apache2 start
peperosa@A6Alumno06:/mnt/c/WINDOWS/system32$ sudo systemctl status apache2
● apache2.service - The Apache HTTP Server
   Loaded: loaded (/usr/lib/systemd/system/apache2.service; enabled; preset: enabled)
   Active: active (running) since Tue 2025-09-30 10:13:39 CEST; 1min 58s ago
     Docs: https://httpd.apache.org/docs/2.4/
 Process: 9676 ExecStart=/usr/sbin/apachectl start (code=exited, status=0/SUCCESS)
 Main PID: 9679 (apache2)
    Tasks: 6 (limit: 9350)
   Memory: 10.5M (peak: 12.3M)
      CPU: 39ms
     CGroup: /system.slice/apache2.service
             ├─9679 /usr/sbin/apache2 -k start
             ├─9682 /usr/sbin/apache2 -k start
             ├─9683 /usr/sbin/apache2 -k start
             ├─9684 /usr/sbin/apache2 -k start
             ├─9685 /usr/sbin/apache2 -k start
             └─9686 /usr/sbin/apache2 -k start

Sep 30 10:13:39 A6Alumno06 systemd[1]: Starting apache2.service - The Apache HTTP Server...
Sep 30 10:13:39 A6Alumno06 systemd[1]: Started apache2.service - The Apache HTTP Server.
peperosa@A6Alumno06:/mnt/c/WINDOWS/system32$ |

```

Aquí estamos **iniciando** el programa de **apache2** y estamos viendo si se ha iniciado de forma correcta (**status**).

```

peperosa@A6Alumno06:/mnt/c/WINDOWS/system32$ echo "<?php phpinfo(); ?>" | sudo tee /var/www/html/info.php
<?php phpinfo(); ?>

```

Creamos un archivo llamado php info.

System	
Build Date	Jul 14 2025 18:30:55
Build System	Linux
Server API	Apache 2.0 Handler
Virtual Directory Support	disabled
Configuration File (php.ini) Path	/etc/php/8.3/apache2
Loaded Configuration File	/etc/php/8.3/apache2/php.ini
Scan this dir for additional .ini files	/etc/php/8.3/apache2/conf.d
Additional .ini files parsed	/etc/php/8.3/apache2/conf.d/10-opcache.ini, /etc/php/8.3/apache2/conf.d/10-pdo.ini, /etc/php/8.3/apache2/conf.d/20-calendar.ini, /etc/php/8.3/apache2/conf.d/20-datetime.ini, /etc/php/8.3/apache2/conf.d/20-dom.ini, /etc/php/8.3/apache2/conf.d/20-xml.ini, /etc/php/8.3/apache2/conf.d/20-zip.ini, /etc/php/8.3/apache2/conf.d/20-zipigzip.ini, /etc/php/8.3/apache2/conf.d/20-zipng.ini, /etc/php/8.3/apache2/conf.d/20-zipx.ini, /etc/php/8.3/apache2/conf.d/20-ftp.ini, /etc/php/8.3/apache2/conf.d/20-gdtext.ini, /etc/php/8.3/apache2/conf.d/20-iconv.ini, /etc/php/8.3/apache2/conf.d/20-phar.ini, /etc/php/8.3/apache2/conf.d/20-pspell.ini, /etc/php/8.3/apache2/conf.d/20-session.ini, /etc/php/8.3/apache2/conf.d/20-syslog.ini, /etc/php/8.3/apache2/conf.d/20-sysvmsg.ini, /etc/php/8.3/apache2/conf.d/20-sysvshm.ini, /etc/php/8.3/apache2/conf.d/20-tidzini.ini
PHP API	20230831
PHP Extension	20230831
Zend Extension	420230831
Zend Extension Build	API420230831.NTS
PHP Extension Build	AP20230831.NTS
Debug Build	no
Thread Safety	disabled
Zend Signal Handling	enabled
Zend Memory Manager	enabled
Zend Multibyte Support	disabled
Zend Max Execution Timers	disabled
IPv6 Support	enabled
DTrace Support	disabled
Registered PHP Streams	https, ftps, compress,zlib, php, file, glob, data, http, ftp, phar
Registered Stream Socket Transports	tcp, udp, unix, udg, ssl, tls, tlsv1.0, tlsv1.1, tlsv1.2, tlsv1.3
Registered Stream Filters	zlib*, string.rot13, string.toupper, string.tolower, convert*, consumed, dechunk, convert.iconv*

This program makes use of the Zend Scripting Language Engine:
Zend Engine v4.3.6, Copyright (c) Zend Technologies with Zend OPcache v8.3.6, Copyright (c), by Zend Technologies

zendengine

Lo buscamos en la barra del navegador y aparece esto que son las especificaciones del archivo que hemos creado.

3. Nginx

```
peperosa@A6Alumno06:/mnt/c/WINDOWS/system32$ 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:
libl LLVM19
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:
nginx nginx-common
0 upgraded, 2 newly installed, 0 to remove and 0 not upgraded.
Need to get 564 kB of archives.
After this operation, 1596 kB of additional disk space will be used.
Get:1 http://archive.ubuntu.com/ubuntu noble-updates/main amd64 nginx-common all 1.24.0-2ubuntu7.5 [43.4 kB]
Get:2 http://archive.ubuntu.com/ubuntu noble-updates/main amd64 nginx amd64 1.24.0-2ubuntu7.5 [520 kB]
Fetched 564 kB in 1s (661 kB/s)
Preconfiguring packages ...
Selecting previously unselected package nginx-common.
(Reading database ... 41618 files and directories currently installed.)
Preparing to unpack .../nginx-common_1.24.0-2ubuntu7.5_all.deb ...
Unpacking nginx-common (1.24.0-2ubuntu7.5) ...
Selecting previously unselected package nginx.
Preparing to unpack .../nginx_1.24.0-2ubuntu7.5_amd64.deb ...
Unpacking nginx (1.24.0-2ubuntu7.5) ...
Setting up nginx-common (1.24.0-2ubuntu7.5) ...
Created symlink /etc/systemd/system/multi-user.target.wants/nginx.service → /usr/lib/systemd/system/nginx.service.
Could not execute systemctl: at /usr/bin/deb-systemd-invoke line 148.
Setting up nginx (1.24.0-2ubuntu7.5) ...
Not attempting to start NGINX, port 80 is already in use.
Processing triggers for man-db (2.12.0-4build2) ...
peperosa@A6Alumno06:/mnt/c/WINDOWS/system32$ |
```

En este paso **instalamos** el servidor web **nginx**.

```

peperosa@A6Alumno06:/mnt/c/WINDOWS/system32$ sudo service nginx start
Job for nginx.service failed because the control process exited with error code.
See "systemctl status nginx.service" and "journalctl -xeu nginx.service" for details.
peperosa@A6Alumno06:/mnt/c/WINDOWS/system32$ systemctl status nginx.service
● nginx.service - A high performance web server and a reverse proxy server
   Loaded: loaded (/usr/lib/systemd/system/nginx.service; enabled; preset: enabled)
     Active: failed (Result: exit-code) since Tue 2025-09-30 10:25:10 CEST; 53s ago
       Docs: man:nginx(8)
    Process: 9964 ExecStartPre=/usr/sbin/nginx -t -q -g daemon on; master_process on; (code=exited, status=0/SUCCESS)
   Process: 9965 ExecStart=/usr/sbin/nginx -g daemon on; master_process on; (code=exited, status=1/FAILURE)
      CPU: 11ms

Sep 30 10:25:09 A6Alumno06 nginx[9965]: nginx: [emerg] bind() to 0.0.0.0:80 failed (98: Address already in use)
Sep 30 10:25:09 A6Alumno06 nginx[9965]: nginx: [emerg] bind() to [::]:80 failed (98: Address already in use)
Sep 30 10:25:09 A6Alumno06 nginx[9965]: nginx: [emerg] bind() to 0.0.0.0:80 failed (98: Address already in use)
Sep 30 10:25:09 A6Alumno06 nginx[9965]: nginx: [emerg] bind() to [::]:80 failed (98: Address already in use)
Sep 30 10:25:10 A6Alumno06 nginx[9965]: nginx: [emerg] bind() to 0.0.0.0:80 failed (98: Address already in use)
Sep 30 10:25:10 A6Alumno06 nginx[9965]: nginx: [emerg] bind() to [::]:80 failed (98: Address already in use)
Sep 30 10:25:10 A6Alumno06 nginx[9965]: nginx: [emerg] still could not bind()
Sep 30 10:25:10 A6Alumno06 systemd[1]: nginx.service: Control process exited, code=exited, status=1/FAILURE
Sep 30 10:25:10 A6Alumno06 systemd[1]: Failed to start nginx.service - Failed with result 'exit-code'.
Sep 30 10:25:10 A6Alumno06 systemd[1]: Failed to start nginx.service - A high performance web server and a reverse proxy server.
peperosa@A6Alumno06:/mnt/c/WINDOWS/system32$ sudo service nginx start
Job for nginx.service failed because the control process exited with error code.
See "systemctl status nginx.service" and "journalctl -xeu nginx.service" for details.
peperosa@A6Alumno06:/mnt/c/WINDOWS/system32$ sudo service nginx restart
Job for nginx.service failed because the control process exited with error code.
See "systemctl status nginx.service" and "journalctl -xeu nginx.service" for details.
peperosa@A6Alumno06:/mnt/c/WINDOWS/system32$ sudo systemctl stop apache2
peperosa@A6Alumno06:/mnt/c/WINDOWS/system32$ sudo service nginx start
peperosa@A6Alumno06:/mnt/c/WINDOWS/system32$ sudo systemctl status nginx.service
● 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 2025-09-30 10:30:51 CEST; 1min 5s ago
       Docs: man:nginx(8)
    Process: 10015 ExecStartPre=/usr/sbin/nginx -t -q -g daemon on; master_process on; (code=exited, status=0/SUCCESS)
   Process: 10016 ExecStart=/usr/sbin/nginx -g daemon on; master_process on; (code=exited, status=0/SUCCESS)
  Main PID: 10018 (nginx)
    Tasks: 17 (limit: 9350)
   Memory: 12.0M (peak: 13.3M)
      CPU: 26ms
     CGroup: /system.slice/nginx.service
             └─10018 nginx: master process /usr/sbin/nginx -g daemon on; master_process on;

Sep 30 10:30:51 A6Alumno06 systemd[1]: Starting nginx.service - A high performance web server and a reverse proxy server...
Sep 30 10:30:51 A6Alumno06 systemd[1]: Started nginx.service - A high performance web server and a reverse proxy server.
peperosa@A6Alumno06:/mnt/c/WINDOWS/system32$ 

```

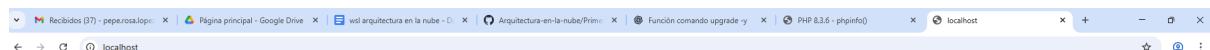
En este paso intentamos **encender el servicio web nginx** pero nos daba **error** y miramos el **status**, buscamos y encontramos el error en que no habíamos apagado el servicio de apache dos por lo que estaba ocupando o bloqueando el puerto que tiene por defecto también nginx por lo que **apagamos apache2 y arrancamos nginx**, miramos el status y ya va bien, podríamos utilizar los dos metiendolos en la configuración de archivos de uno de los dos servicios con un nano y cambiarles el puerto por uno vacío y activar los dos simultáneamente.

```

peperosa@A6Alumno06:/mnt/c/WINDOWS/system32$ 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>
peperosa@A6Alumno06:/mnt/c/WINDOWS/system32$ 

```

Creamos un archivo con una pagina sevilla para visualizar con nginx



Hola Mundo desde Nginx

Servidor funcionando correctamente



Así queda al buscarlo en el navegador.

4. IP en WSL

```
peperosa@A6Alumno06:/mnt/c/WINDOWS/system32$ ip addr show eth0 | grep inet
    inet 172.30.211.226/20 brd 172.30.223.255 scope global eth0
        inet6 fe80::215:5dff:fe7d:767c/64 scope link
peperosa@A6Alumno06:/mnt/c/WINDOWS/system32$ |
```

Aquí por último estamos visualizando la **dirección ip** que tenemos en **wsl**.

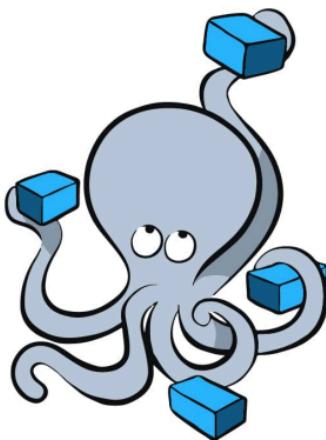
5. Observaciones

No tengo los comandos **curl** porque directamente he buscado en la barra del navegador el localhost para visualizar la página creada. De todas maneras como no lo había hecho porque no lo había visto en el proceso, lo he metido al final del todo y funciona igual.

```
peperosa@A6Alumno06:/mnt/c/WINDOWS/system32$ curl http://localhost
<h1>Hola Mundo desde Nginx</h1><p>Servidor funcionando correctamente</p>
peperosa@A6Alumno06:/mnt/c/WINDOWS/system32$ |
```

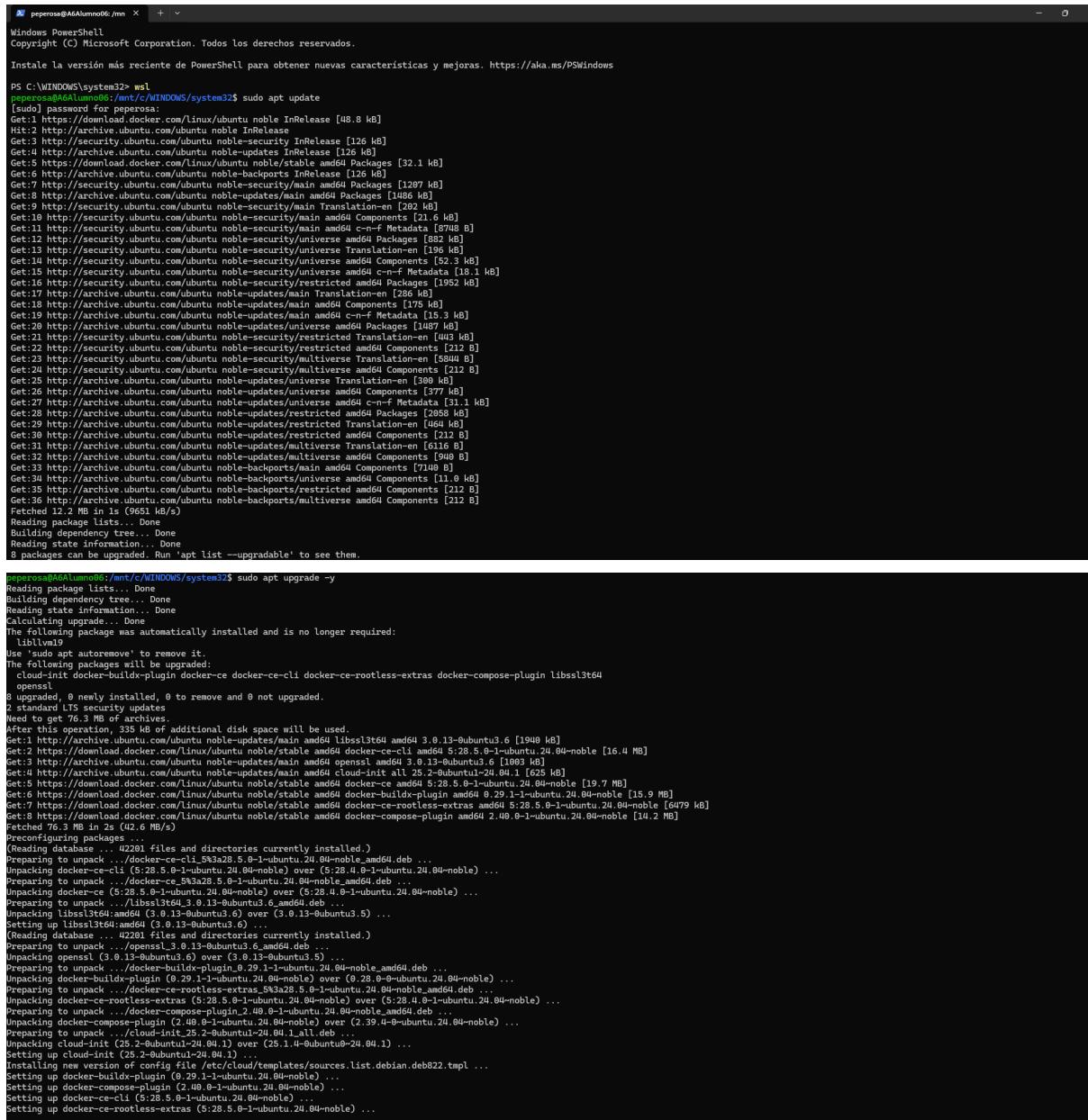
También tuve el problema de no poder encender un servicio web (nginx) al estar el otro servicio web encendido, luego vi que venía explicado más abajo en la documentación del trabajo, aunque al buscarlo como explico en el pie de captura me hablaron de poder **cambiar la configuración del puerto default con un nano** y así poder encender de todas formas el servicio.

6.Docker



docker
Compose

Para continuar con la actividad teníamos que descargar docker en el ubuntu que teníamos en el wls y desde dentro del docker hacer un nuevo ubuntu que levantase los servicios anteriormente vistos.



```

peperosa@AGAlumno06:/mnt/c/WINDOWS/system32> wsl
Windows PowerShell
Copyright (C) Microsoft Corporation. Todos los derechos reservados.

Instale la versión más reciente de PowerShell para obtener nuevas características y mejoras. https://aka.ms/PSWindows

PS C:\WINDOWS\system32> sudo apt update
[sudo] password for peperosa:
Get:1 https://download.docker.com/linux/ubuntu noble InRelease [48.8 kB]
Hit:2 https://archive.ubuntu.com/ubuntu noble-security InRelease [126 kB]
Get:3 http://security.ubuntu.com/ubuntu noble-updates InRelease [126 kB]
Get:5 https://download.docker.com/linux/ubuntu noble/stable amd64 Packages [32.1 kB]
Get:6 http://archive.ubuntu.com/ubuntu noble-backports InRelease [126 kB]
Get:7 http://security.ubuntu.com/ubuntu noble-security/main amd64 Packages [1207 kB]
Get:9 http://archive.ubuntu.com/ubuntu noble-security/main Translation-en [203 kB]
Get:10 http://security.ubuntu.com/ubuntu noble-security/main amd64 Components [21.6 kB]
Get:11 http://security.ubuntu.com/ubuntu noble-security/main amd64 Metadata [8748 kB]
Get:12 http://security.ubuntu.com/ubuntu noble-security/universe amd64 Packages [882 kB]
Get:13 http://security.ubuntu.com/ubuntu noble-security/universe Translation-en [196 kB]
Get:14 http://security.ubuntu.com/ubuntu noble-security/universe amd64 Components [52.3 kB]
Get:15 http://security.ubuntu.com/ubuntu noble-security/universe amd64 Metadata [18.1 kB]
Get:16 http://security.ubuntu.com/ubuntu noble-security/restricted amd64 Packages [1952 kB]
Get:17 http://archive.ubuntu.com/ubuntu noble-updates/restricted Translation-en [40 kB]
Get:18 http://archive.ubuntu.com/ubuntu noble-updates/main amd64 Components [175 kB]
Get:19 http://archive.ubuntu.com/ubuntu noble-updates/main amd64 c-n-f Metadata [15.3 kB]
Get:20 http://archive.ubuntu.com/ubuntu noble-updates/universe amd64 Packages [1487 kB]
Get:21 http://security.ubuntu.com/ubuntu noble-security/restricted Translation-en [4W3 kB]
Get:22 http://security.ubuntu.com/ubuntu noble-security/restricted amd64 Components [212 kB]
Get:23 http://security.ubuntu.com/ubuntu noble-security/multiverse Translation-en [508 kB]
Get:24 http://security.ubuntu.com/ubuntu noble-security/multiverse amd64 Components [212 kB]
Get:25 http://archive.ubuntu.com/ubuntu noble-updates/universe Translation-en [300 kB]
Get:26 http://archive.ubuntu.com/ubuntu noble-updates/universe amd64 Components [377 kB]
Get:27 http://archive.ubuntu.com/ubuntu noble-updates/universe amd64 c-n-f Metadata [31.1 kB]
Get:28 http://archive.ubuntu.com/ubuntu noble-updates/restricted amd64 Packages [2085 kB]
Get:29 http://archive.ubuntu.com/ubuntu noble-updates/restricted Translation-en [464 kB]
Get:30 http://archive.ubuntu.com/ubuntu noble-updates/restricted amd64 Components [212 kB]
Get:31 http://archive.ubuntu.com/ubuntu noble-updates/restricted Translation-en [68 kB]
Get:32 http://archive.ubuntu.com/ubuntu noble-updates/multiverse amd64 Components [909 kB]
Get:33 http://archive.ubuntu.com/ubuntu noble-backports/main amd64 Components [7100 kB]
Get:34 http://archive.ubuntu.com/ubuntu noble-backports/universe amd64 Components [11.0 kB]
Get:35 http://archive.ubuntu.com/ubuntu noble-backports/restricted amd64 Components [212 kB]
Get:36 http://archive.ubuntu.com/ubuntu noble-backports/multiverse amd64 Components [212 kB]
Fetched 12.2 kB in 1s (9651 kB/s)
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:
  liblomm19
Use 'sudo apt autoremove' to remove it.
The following packages will be upgraded:
  cloud-init docker-buildx-plugin docker-ce docker-ce-rootless-extras docker-compose-plugin libssl3t64
  openssh-client
8 upgraded, 0 newly installed, 0 to remove and 0 not upgraded.
2 standard LTS security updates
Need to get 76.3 MB of archives.
After this operation, 335 kB of additional disk space will be used.
Get:1 http://archive.ubuntu.com/ubuntu noble-updates/main amd64 libssl3t64 amd64 3.0.13-0ubuntu0.6 [1948 kB]
Get:2 https://download.docker.com/linux/ubuntu noble/stable amd64 docker-ce-cl1 amd64 5:28.5.0-1~ubuntu.24.04~noble [16.4 MB]
Get:3 https://download.docker.com/linux/ubuntu noble-updates/main amd64 docker-ce-cl1 amd64 5:28.5.0-1~ubuntu.24.04~noble [16.4 MB]
Get:4 http://archive.ubuntu.com/ubuntu noble-updates/main amd64 cloud-init all 25.2+ubuntus-24.04.1 [625 kB]
Get:5 https://download.docker.com/linux/ubuntu noble/stable amd64 docker-ce amd64 5:28.5.0-1~ubuntu.24.04~noble [19.7 MB]
Get:6 https://download.docker.com/linux/ubuntu noble/stable amd64 docker-buildx-plugin amd64 0.29.1-1~ubuntu.24.04~noble [15.9 MB]
Get:7 https://download.docker.com/linux/ubuntu noble/stable amd64 docker-ce-rootless-extras amd64 5:28.5.0-1~ubuntu.24.04~noble [6479 kB]
Get:8 https://download.docker.com/linux/ubuntu noble/stable amd64 docker-compose-plugin amd64 2.48.0-1~ubuntu.24.04~noble [14.2 MB]
Fetched 76.3 MB in 2s (42.6 MB/s)

Preconfiguring packages (42081).
(Reading database ... 42081 files and directories currently installed.)
Preparing to unpack .../docker-ce-cl1_5_3a28.5.0-1~ubuntu.24.04~noble_amd64.deb ...
Unpacking docker-ce-cl1 (5:28.5.0-1~ubuntu.24.04~noble) over (5:28.5.0-1~ubuntu.24.04~noble) ...
Preparing to unpack .../docker-ce-3_0.13-0ubuntu3.6_amd64.deb ...
Unpacking docker-ce (5:28.5.0-1~ubuntu.24.04~noble) over (5:28.4.0-1~ubuntu.24.04~noble) ...
Preparing to unpack .../libssl3t64_3.0.13-0ubuntu3.6_amd64.deb ...
Unpacking libssl3t64 (3.0.13-0ubuntu3.6) ...
Setting up libssl3t64 amd64 (3.0.13-0ubuntu3.6)
(Reading database ... 42081 files and directories currently installed.)
Preparing to unpack .../openssl1.3.0.13-0ubuntu3.6_amd64.deb ...
Unpacking openssl (3.0.13-0ubuntu3.6) over (3.0.13-0ubuntu3.6) ...
Preparing to unpack .../docker-buildx-plugin_0.29.1-1~ubuntu.24.04~noble_amd64.deb ...
Unpacking docker-buildx-plugin (0.29.1-1~ubuntu.24.04~noble) over (0.28.0-0~ubuntu.24.04~noble) ...
Preparing to unpack .../cloud-init_25.2-0ubuntu1-24.04.1_all.deb ...
Unpacking cloud-init (25.2-0ubuntu1-24.04.1) over (25.1.4-ubuntu24.04.1) ...
Setting up cloud-init (25.2-0ubuntu1-24.04.1)
Installing new version of config file /etc/cloud/templates/sources.list.debian.deb822.tmpl ...
Setting up openssh-client (8.0-1ubuntu2.20.1-0ubuntu.24.04~noble) ...
Setting up docker-buildx-plugin (2.48.0-1~ubuntu.24.04~noble) ...
Setting up docker-compose-plugin (2.39.0-0~ubuntu.24.04~noble) ...
Setting up docker-ce-cl1 (5:28.5.0-1~ubuntu.24.04~noble) ...
Setting up docker-ce-rootless-extras (5:28.5.0-1~ubuntu.24.04~noble) ...

```

En estas dos capturas nos estamos iniciando en wsl, actualizando el ubuntu y upgradeando, para que todo se descargue apropiadamente.

```

peperosa@A6Alumno06:/mnt/c/WINDOWS/system32$ sudo apt install apt-transport-https ca-certificates curl software-properties-common -y
Reading package lists... Done
Building dependency tree... Done
Reading state information... Done
ca-certificates is already the newest version (0.20240208).
curl is already the newest version (8.5.0-2ubuntu10.6).
software-properties-common is already the newest version (0.99.49.3).
software-properties-common set to manually installed.
The following packages were automatically installed and are no longer required:
  libl10n19
Use 'sudo apt autoremove' to remove it.
The following NEW packages will be installed:
  apt-transport-https
0 upgraded, 1 newly installed, 0 to remove and 0 not upgraded.
Need to get 3978 B of archives.
After this operation, 15.5 MB of additional disk space will be used.
Get:1 http://archive.ubuntu.com/ubuntu noble-updates/universe amd64 apt-transport-https all 2.8.3 [3978 B]
Fetched 3970 B in 0s (15.5 kB/s)
Selecting previously unselected package apt-transport-https.
(Reading database ... 42204 files and directories currently installed.)
Preparing to unpack .../apt-transport-https_2.8.3_all.deb ...
Unpacking apt-transport-https (2.8.3) ...
Setting up apt-transport-https (2.8.3) ...
peperosa@A6Alumno06:/mnt/c/WINDOWS/system32$ curl -fsSL https://download.docker.com/linux/ubuntu/gpg | sudo gpg --dearmor -o /usr/share/keyrings/docker-archive-keyring.gpg
peperosa@A6Alumno06:/mnt/c/WINDOWS/system32$ echo "deb \${lsb\_id} http://download.docker.com/linux/ubuntu \$lsb\_release -cs" | sudo tee /etc/apt/sources.list.d/docker.list > /dev/null
peperosa@A6Alumno06:/mnt/c/WINDOWS/system32$ sudo apt update
E: Malformed entry 1 in list file /etc/apt/sources.list.d/docker.list (URI parse)
E: The list of sources is invalid, not readable.
peperosa@A6Alumno06:/mnt/c/WINDOWS/system32$ curl -fsSL https://download.docker.com/linux/ubuntu/gpg | sudo gpg --dearmor -o /usr/share/keyrings/docker-archive-keyring.gpg
Hit:1 https://download.docker.com/linux/ubuntu noble InRelease
Hit:2 http://security.ubuntu.com/ubuntu noble-security InRelease
Hit:3 http://archive.ubuntu.com/ubuntu noble InRelease
Hit:4 http://archive.ubuntu.com/ubuntu noble-updates InRelease
Hit:5 http://archive.ubuntu.com/ubuntu noble-backports InRelease
Reading package lists... Done
Building dependency tree... Done
Reading state information... Done
All packages are up to date.

```

En esta diapositiva estamos como preparando ubuntu para más tarde descargar docker, son más que nada archivos necesarios y llaves de seguridad para su correcto funcionamiento, y con el comando echo de donde se van a descargar esos ficheros.

```

peperosa@A6Alumno06:/mnt/c/WINDOWS/system32$ sudo apt install docker-ce docker-ce-cli containerd.io
Reading package lists... Done
Building dependency tree... Done
Reading state information... Done
docker-ce is already the newest version (5:28.5.0-1~ubuntu.24.04~noble).
docker-ce-cli is already the newest version (5:28.5.0-1~ubuntu.24.04~noble).
containerd.io is already the newest version (1.7.28-0~ubuntu.24.04~noble).
The following package was automatically installed and is no longer required:
  libl10n19
Use 'sudo apt autoremove' to remove it.
0 upgraded, 0 newly installed, 0 to remove and 0 not upgraded.
peperosa@A6Alumno06:/mnt/c/WINDOWS/system32$ docker-buildx-plugin docker-compose-plugin -y
docker-buildx-plugin: command not found
peperosa@A6Alumno06:/mnt/c/WINDOWS/system32$ docker-buildx-plugin docker-compose-plugin -y
docker-buildx-plugin: command not found
peperosa@A6Alumno06:/mnt/c/WINDOWS/system32$ sudo apt install docker-ce docker-ce-cli containerd.io
Reading package lists... Done
Building dependency tree... Done
Reading state information... Done
docker-ce is already the newest version (5:28.5.0-1~ubuntu.24.04~noble).
docker-ce-cli is already the newest version (5:28.5.0-1~ubuntu.24.04~noble).
containerd.io is already the newest version (1.7.28-0~ubuntu.24.04~noble).
The following package was automatically installed and is no longer required:
  libl10n19
Use 'sudo apt autoremove' to remove it.
0 upgraded, 0 newly installed, 0 to remove and 0 not upgraded.
peperosa@A6Alumno06:/mnt/c/WINDOWS/system32$ docker-buildx-plugin docker-compose-plugin -y
docker-buildx-plugin: command not found
peperosa@A6Alumno06:/mnt/c/WINDOWS/system32$ sudo apt install docker-buildx-plugin docker-compose-plugin -y
Reading package lists... Done
Building dependency tree... Done
Reading state information... Done
docker-buildx-plugin is already the newest version (0.29.1-1~ubuntu.24.04~noble).
docker-compose-plugin is already the newest version (2.40.0-1~ubuntu.24.04~noble).
The following package was automatically installed and is no longer required:
  libl10n19
Use 'sudo apt autoremove' to remove it.
0 upgraded, 0 newly installed, 0 to remove and 0 not upgraded.
peperosa@A6Alumno06:/mnt/c/WINDOWS/system32$ sudo docker pull ubuntu
Using default tag: latest
latest: Pulling from library/ubuntu
ala21c96bc16: Pull complete
Digest: sha256:728785b59223d755e3e5c5af178fab1be7031f3522c5ccd7a0b32b80d8248123
Status: Downloaded newer image for ubuntu:latest
docker.io/library/ubuntu:latest

```

En esta ya descargamos docker con el primer comando, el contenedor y todos sus plugins, en esta parte cometí el error de no poner los comandos con sudo apt install y por eso no los reconoce y tengo que repetir el comando alguna que otra vez de más. Y con el último comando descargamos una imagen de ubuntu para poder utilizarla dentro del contenedor.

```

peperosa@A6Alumno06:/mnt/c/WINDOWS/system32$ sudo systemctl status docker
● docker.service - Docker Application Container Engine
   Loaded: loaded (/usr/lib/systemd/system/docker.service; enabled; preset: enabled)
     Active: active (running) since jue 2025-10-07 08:48:42 CEST; 19min ago
TriggeredBy: ● docker.socket
   Docs: https://docs.docker.com
Main PID: 1622 (dockerd)
  Tasks: 17
    Memory: 139.9M (peak: 160.5M)
      CPU: 2.543s
      CGroup: /user.slice/docker.service
              └─1622 /usr/bin/dockerd -H fd:// --containerd=/run/containerd/containerd.sock

Oct 07 08:48:41 A6Alumno06 dockerd[1622]: time="2025-10-07T08:48:41.630695210+02:00" level=info msg="Creating a contain>
Oct 07 08:48:41 A6Alumno06 dockerd[1622]: time="2025-10-07T08:48:41.814794269+02:00" level=info msg="[graphdriver] usin>
Oct 07 08:48:41 A6Alumno06 dockerd[1622]: time="2025-10-07T08:48:41.815705594+02:00" level=info msg="Loading containerse>
Oct 07 08:48:41 A6Alumno06 dockerd[1622]: time="2025-10-07T08:48:41.815705594+02:00" level=info msg="Docker daemon is t>
Oct 07 08:48:42 A6Alumno06 dockerd[1622]: time="2025-10-07T08:48:42.901679711+02:00" level=info msg="Docker daemon is co>
Oct 07 08:48:42 A6Alumno06 dockerd[1622]: time="2025-10-07T08:48:42.811727268+02:00" level=info msg="Initializing buildk>
Oct 07 08:48:42 A6Alumno06 dockerd[1622]: time="2025-10-07T08:48:42.851096161+02:00" level=info msg="Completed buildkit"
Oct 07 08:48:42 A6Alumno06 dockerd[1622]: time="2025-10-07T08:48:42.855014726+02:00" level=info msg="Docker has complet>
Oct 07 08:48:42 A6Alumno06 dockerd[1622]: time="2025-10-07T08:48:42.855082286+02:00" level=info msg="API listen on /run/>
Oct 07 08:48:42 A6Alumno06 systemd[1]: Started docker.service - Docker Application Container Engine.
[lines 1-22/22 (END)]
F14 Stopped sudo systemctl status docker

```

En este caso comprobamos que el servicio de docker que habíamos activado esté funcionando correctamente y esté en pie.

```
peperosa@A6Alumno06:/mnt/c/WINDOWS/system32$ docker info
Client: Docker Engine - Community
  Version: 28.5.0
  Context: default
  Debug Mode: false
  Plugins:
    buildx: Docker Buildx (Docker Inc.)
      Version: v0.29.1
      Path: /usr/libexec/docker/cli-plugins/docker-buildx
    compose: Docker Compose (Docker Inc.)
      Version: v2.40.0
      Path: /usr/libexec/docker/cli-plugins/docker-compose

Server:
  Containers: 2
    Running: 0
    Paused: 0
    Stopped: 2
  Images: 3
  Server Version: 28.5.0
  Storage Driver: overlay2
    Backing Filesystem: extfs
    Supports d_type: true
    Using metacopy: false
    Native Overlay Diff: true
    userxattr: false
  Logging Driver: json-file
  Cgroup Driver: systemd
  Cgroup Version: 2
  Plugins:
    Volume: local
    Network: bridge host ipvlan macvlan null overlay
    Log: awslogs fluentd gcplogs gelf journalctl json-file local splunk syslog
  CDI spec directories:
    /etc/cdi
    /var/run/cdi
  Swarm: inactive
  Runtimes: io.containerd.runc.v2 runc
  Default Runtime: runc
  Init Binary: docker-init
  containerd version: b98a3aace656320842a23f4a392a33f46af97866
  runc version: v1.3.0-0-g4ca628d1
  init version: de40ad0
  Security Options:
    seccomp
      Profile: builtin
      cgroupns
  Kernel Version: 6.6.87.2-microsoft-standard-WSL2
  Operating System: Ubuntu 24.04.3 LTS
  OSType: linux
  Architecture: x86_64
  CPUs: 16
  Total Memory: 7.619GiB
  Name: A6Alumno06
  ID: e44e8ab1-e3c8-42bc-9ba8-4407c851c6d1
  Docker Root Dir: /var/lib/docker
  Debug Mode: false
  Experimental: false
  Insecure Registries:
    ::1/128
    127.0.0.0/8
  Live Restore Enabled: false
```

Vemos con este comando la configuración de docker.

```

peperosa@A6Alumno06:/mnt/c/WINDOWS/system32$ docker ps -a
CONTAINER ID IMAGE COMMAND CREATED STATUS PORTS NAMES
25a6e038303c 6d79abd4c962 "/bin/bash" 6 days ago Exited (127) 6 days ago
71bcd654736e hello-world "/hello" 6 days ago Exited (0) 6 days ago
peperosa@A6Alumno06:/mnt/c/WINDOWS/system32$ sudo docker run -it ubuntu /bin/bash
root@048b253b6cb9:# exit
exit
peperosa@A6Alumno06:/mnt/c/WINDOWS/system32$ docker exec -it container\_ID /bin/bash
Error response from daemon: No such container: container\_ID
peperosa@A6Alumno06:/mnt/c/WINDOWS/system32$ |

```

- El primer comando te enseña los contenedores que tienes creados dentro de docker.
- El segundo dice que empiece a correr el ubuntu que tiene dentro el docker, es decir te permite entrar a la terminal de ese ubuntu.
- El tercero me equivoque pero según tengo entendido es para acceder a él una vez que ya está corriendo. Simplemente tenía mal como se llamaba mi contenedor, que lo tienes que mirar en la respuesta del primer comando.

```

root@048b253b6cb9:/mnt/c/WINDOWS/system32$ sudo docker run -it ubuntu /bin/bash
[sudo] password for peperosa:
root@048b253b6cb9:/# sudo apt update
[...]
Get:1 http://archive.ubuntu.com/ubuntu noble InRelease [256 kB]
Get:2 http://security.ubuntu.com/ubuntu noble-security InRelease [126 kB]
Get:3 http://archive.ubuntu.com/ubuntu noble-updates InRelease [126 kB]
Get:4 http://archive.ubuntu.com/ubuntu universe InRelease [2478 kB]
Get:5 http://archive.ubuntu.com/ubuntu multiverse InRelease [126 kB]
Get:6 http://archive.ubuntu.com/ubuntu noble/restricted amd64 Packages [117 kB]
Get:7 http://archive.ubuntu.com/ubuntu noble/universe amd64 Packages [19.3 kB]
Get:8 http://security.ubuntu.com/ubuntu universe/restricted amd64 Packages [159 kB]
Get:9 http://security.ubuntu.com/ubuntu universe/multiverse amd64 Packages [1138 kB]
Get:10 http://security.ubuntu.com/ubuntu noble-security/universe amd64 Packages [134.6 kB]
Get:11 http://archive.ubuntu.com/ubuntu noble/multiverse amd64 Packages [331 kB]
Get:12 http://archive.ubuntu.com/ubuntu universe/main amd64 Packages [1888 kB]
Get:13 http://archive.ubuntu.com/ubuntu universe/multiverse amd64 Packages [1882 kB]
Get:14 http://archive.ubuntu.com/ubuntu universe/universe amd64 Packages [1929 kB]
Get:15 http://archive.ubuntu.com/ubuntu noble-updates/multiverse amd64 Packages [38.9 kB]
Get:16 http://archive.ubuntu.com/ubuntu noble-updates/restricted amd64 Packages [2612 kB]
Get:17 http://archive.ubuntu.com/ubuntu universe/universe amd64 Packages [1849 kB]
Get:18 http://archive.ubuntu.com/ubuntu noble-backports/main amd64 Packages [49.4 kB]
Fetched 33.9 MB in 1s (24.1 MB/s)
Reading package lists... Done
Building dependency tree... Done
Reading state information... Done
1 package can be upgraded. Run 'apt list --upgradable' to see it.
root@048b253b6cb9:/# apt upgrade
Reading package lists... Done
Building dependency tree... Done
Building state information... Done
Calculating upgrade... Done
The following packages will be upgraded:
  libssl1.3
1 upgraded, 0 newly installed, 0 to remove and 0 not upgraded.
Need to get 1940 kB of archives.
After this operation, 0 B of additional disk space will be used.
Do you want to continue? [Y/n] Y
Get:1 http://archive.ubuntu.com/ubuntu noble-updates/main amd64 libssl1.3t64 amd64 3.0.13-0ubuntu3.6 [1940 kB]
Fetched 1940 kB in 0s (1873 kB/s)
debconf: delaying package configuration, since apt-utils is not installed
(Reading database ... 3989 files and directories currently installed.)
Preparing to unpack .../libssl1.3t64_3.0.13-0ubuntu3.6_amd64.deb ...
Unpacking libssl1.3t64:amd64 (3.0.13-0ubuntu3.6) over (3.0.13-0ubuntu3.5) ...
Setting up libssl1.3t64:amd64 (3.0.13-0ubuntu3.6) ...
Processing triggers for libxml2-bin (2.39-Subuntu8.6) ...
root@048b253b6cb9:/# apt apache2
E: Invalid operation apache2
root@048b253b6cb9:/# apt install apache2 -y
Reading package lists... Done
Building dependency tree... Done
Building state information... Done
Reading state information... Done
The following additional packages will be installed:
  adduser apache2-bin apache2-data ca-certificates krb5-locales libaprutil1-dbd-sqlite libaprutil1-ldap libaprutil1-dev libcurl4 libcurl4-openssl-dev libexpat libgdbm-compat4 libgdbm4 libgsasl0 libgsasl0-libsasl2-modules-db libgsasl0-libsasl2 libgnutls libgnutls-3.3.8+subuntu8.6 libkeyutils libkrb5-3 libkrb5support0 libltdl=0.4.0-0 libnhtp2-14 libperl5.38t64 librtmp libsspi perl perl-modules-3.38 publicsuffix ssl-cert
libssl2-modules libsspi2-modules-db libsspi2-libsasl2 media-types netbase openssl perl perl-modules-3.38 publicsuffix ssl-cert

```

Nos metemos dentro del ubuntu del docker y ejecutamos los comandos de update y upgrade para su correcto funcionamiento. Importante como estamos como root no tenemos que poner sudo porque ya somos superusuarios.

```

root@048b253b6cb9:/# apt install php libapache2-mod-php -y
Reading package lists... Done
Building dependency tree... Done
Reading state information... Done
The following NEW packages will be installed:
  libapache2-mod-php8.3 libargon2-1 libbsd0 libedit2 libodium23 php-common php8.3 php8.3-cli php8.3-common php8.3-opcache php8.3-readline psmisc tzdata ucf
Suggested packages:
  php-pecl
The following NEW packages will be installed:
  libapache2-mod-php libapache2-mod-php8.3 libargon2-1 libbsd0 libedit2 libodium23 php-common php8.3 php8.3-cli php8.3-common php8.3-opcache php8.3-readline psmisc tzdata ucf
0 upgraded, 0 newly installed, 0 to remove and 0 not upgraded.
Need to get 5755 kB of archives.
Need to get 5755 kB of archives.
After this operation, 0 B of additional disk space will be used.
Get:1 http://archive.ubuntu.com/ubuntu noble/main amd64 libargon2-1 amd64 0-20190702+dfsg-0build1 [20.8 kB]
Get:2 http://archive.ubuntu.com/ubuntu noble-updates/main amd64 libbsd0 amd64 0.12.1-1~build1.1 [41.2 kB]
Get:3 http://archive.ubuntu.com/ubuntu noble/main amd64 tzdata all 2025b-0ubuntu24.84.1 [276 kB]
Get:4 http://archive.ubuntu.com/ubuntu noble/main amd64 libedit2:amd64 libodium23:amd64 3.1-20230824-0build1 [97.6 kB]
Get:5 http://archive.ubuntu.com/ubuntu/nob.../libodium23:amd64 3.1-20230824-0build1 [179 kB]
Get:6 http://archive.ubuntu.com/ubuntu/nob.../libodium23:amd64 psmisc amd64 23.7-1~build1 [139 kB]
Get:7 http://archive.ubuntu.com/ubuntu/nob.../libodium23:amd64 2.9.3-6-Subuntu2 [13.9 kB]
Get:8 http://archive.ubuntu.com/ubuntu/nob.../libodium23:amd64 php8.3-common amd64 8.3.6-Subuntu24.84.5 [709 kB]
Get:9 http://archive.ubuntu.com/ubuntu/nob.../libodium23:amd64 tzdata:amd64 2025b-0ubuntu24.84.5 [371 kB]
Get:10 http://archive.ubuntu.com/ubuntu/nob.../tzdata:amd64 2025b-0ubuntu24.84.5 [13.5 kB]
Get:11 http://archive.ubuntu.com/ubuntu/nob.../tzdata:amd64 2.9.3-6-Subuntu24.84.5 [161 kB]
Get:12 http://archive.ubuntu.com/ubuntu/nob.../tzdata:amd64 2.9.3-6-Subuntu24.84.5 [1915 kB]
Get:13 http://archive.ubuntu.com/ubuntu/nob.../tzdata:amd64 2.9.3-6-Subuntu24.84.5 [24.6 kB]
Get:14 http://archive.ubuntu.com/ubuntu/nob.../tzdata:amd64 2.9.3-6-Subuntu24.84.5 [1051 kB]
Get:15 http://archive.ubuntu.com/ubuntu/nob.../tzdata:amd64 2.9.3-6-Subuntu24.84.5 [9174 kB]
Get:16 http://archive.ubuntu.com/ubuntu/nob.../tzdata:amd64 2.9.3-6-Subuntu24.84.5 [4076 kB]
Fetched 5755 kB in 0s (0 B/s)
debconf: delaying package configuration, since apt-utils is not installed
Selecting previously unselected package libargon2-1:amd64.
(Reading database ... 7852 files and directories currently installed.)
Preparing to unpack .../libargon2-1:amd64_0-20190702+dfsg-0build1_amd64.deb ...
Unpacking libargon2-1:amd64 (0-20190702+dfsg-0build1) ...
Selecting previously unselected package libbsd0:amd64.
Preparing to unpack .../libbsd0_0.12.1-1~build1.1_amd64.deb ...
Unpacking libbsd0_0.12.1-1~build1.1_amd64 [41.2 kB]
Selecting previously unselected package tzdata.
Preparing to unpack .../tzdata_2025b-0ubuntu24.84.1_all.deb ...
Unpacking tzdata (2025b-0ubuntu24.84.1) ...
Selecting previously unselected package libedit2:amd64.
Preparing to unpack .../libedit2_2.9.3-6-Subuntu24.84.5_amd64.deb ...
Unpacking libedit2:amd64 (2.9.3-6-Subuntu24.84.5) ...
Selecting previously unselected package libodium23:amd64.
Preparing to unpack .../libodium23_3.1-20230824-0build1_amd64.deb ...
Unpacking libodium23:amd64 (3.1-20230824-0build1) ...
Selecting previously unselected package psmisc.
Preparing to unpack .../psmisc_23.7-1~build1_amd64.deb ...
Unpacking psmisc (23.7-1~build1) ...

```

```

Please select the geographic area in which you live. Subsequent configuration questions will narrow this down by presenting a list of cities, representing the time zones in which they are located.
1. Africa 2. America 3. Antarctica 4. Arctic 5. Asia 6. Atlantic 7. Australia 8. Europe 9. Indian 10. Pacific 11. Etc 12. Legacy
Please select the city or region corresponding to your time zone.
1. Amsterdam 6. Belgrade 11. Budapest 16. Gibraltar 21. Jersey 26. Lubljana 31. Marshall 36. Oslo 41. Rome 46. Skopje 51. Tirane 56. Vienna 61. Zurich
2. Ankara 7. Berlin 12. Busingen 17. Gomera 22. Hastings 27. London 32. Minsk 37. Paris 42. Sarajevo 47. Skopje 52. Tirane 57. Vilnius
3. Astrakhan 8. Bratislava 13. Chisinau 18. Helsinki 23. Kirov 28. Luxembourg 33. Monaco 38. Podgorica 43. San Marino 48. Sofia 53. Ulyanovsk 58. Volgograd
4. Athens 9. Brussels 14. Copenhagen 19. Isle_of_Man 24. Kyiv 29. Madrid 34. Moscow 39. Prague 44. Sarajevo 49. Stockholm 54. Vaduz 59. Warsaw
5. Belfast 10. Bucharest 15. Dublin 20. Istanbul 25. Lisbon 30. Malta 35. Nicosia 40. Riga 45. Saratov 50. Tallinn 55. Vatican 60. Zagreb
Time zone_29

Current default time zone: 'Europe/Madrid'
Local time is now: Tue Oct 7 09:38:02 GST 2025.
Universal time is now: Tue Oct 7 07:38:02 UTC 2025.
Run dpkg-reconfigure tzdata if you wish to change it.

Setting up ucfc (3.0.943+mul) ...
Reading package lists... Done
Building dependency tree... Done
Reading package details... Done
The following NEW packages will be installed:
  dialog
0 upgraded, 1 newly installed, 0 to remove and 0 not upgraded.
Need to get 226 kB of archives.
After this operation, 539 kB of additional disk space will be used.
Get:1 http://archive.ubuntu.com/ubuntu noble-updates/main amd64 curl amd64 8.5.6-0ubuntu10.6 [226 kB]
Fetched 226 kB in 1s (501 kB/s)
Reading package lists... Done
Building dependency tree... Done
Reading state information... Done
All packages are up to date.
root@61a18f61ea95:/# apt update
Reading package lists... Done
Building dependency tree... Done
Reading state information... Done
The following NEW packages will be installed:
  curl
0 upgraded, 1 newly installed, 0 to remove and 0 not upgraded.
Need to get 226 kB of archives.
After this operation, 539 kB of additional disk space will be used.
Get:1 http://archive.ubuntu.com/ubuntu noble-updates/main amd64 curl amd64 8.5.6-0ubuntu10.6 [226 kB]
Fetched 226 kB in 1s (501 kB/s)
Reading package lists... Done
Building dependency tree... Done
Reading state information... Done
The following NEW packages will be installed:
  dialog
0 upgraded, 1 newly installed, 0 to remove and 0 not upgraded.
Need to get 226 kB of archives.
After this operation, 539 kB of additional disk space will be used.
Get:1 http://archive.ubuntu.com/ubuntu noble-updates/main amd64 curl amd64 8.5.6-0ubuntu10.6 [226 kB]
Fetched 226 kB in 1s (501 kB/s)
dpkgconf: delaying package configuration, since apt-utils is not installed
Selecting previously unselected package curl.
(Reading database ... 8673 files and directories currently installed.)
Preparing to unpack .../curl_8.5.6-0ubuntu10.6_amd64.deb ...
Unpacking curl (8.5.6-0ubuntu10.6) ...
Setting up curl (8.5.6-0ubuntu10.6) ...
root@61a18f61ea95:/# curl http://localhost/info.php
<!DOCTYPE html PUBLIC "-//W3C//DTD XHTML 1.0 Transitional//EN" "DTD/xhtml1-transitional.dtd">
<html xmlns="http://www.w3.org/1999/xhtml"><head>
<style type="text/css">
body {background-color: #fff; color: #222; font-family: sans-serif;}
pre {margin: 0; font-family: monospace; }
a{link {color: #009; text-decoration: none; background-color: #fff; }
a:hover {text-decoration: underline; }
table {border-collapse: collapse; border: 0; width: 934px; box-shadow: 1px 2px 3px rgba(0, 0, 0, 0.2); }
.center {text-align: center; }
.center table {margin: 1em auto; text-align: left; }
.center th {text-align: center !important; }
curl http://localhost/info.php

</table>

```

```

root@61a18f61ea95:/# curl http://localhost/info.php
<!DOCTYPE html PUBLIC "-//W3C//DTD XHTML 1.0 Transitional//EN" "DTD/xhtml1-transitional.dtd">
<html xmlns="http://www.w3.org/1999/xhtml"><head>
<style type="text/css">
body {background-color: #fff; color: #222; font-family: sans-serif;}
pre {margin: 0; font-family: monospace; }
a{link {color: #009; text-decoration: none; background-color: #fff; }
a:hover {text-decoration: underline; }
table {border-collapse: collapse; border: 0; width: 934px; box-shadow: 1px 2px 3px rgba(0, 0, 0, 0.2); }
.center {text-align: center; }
.center table {margin: 1em auto; text-align: left; }
.center th {text-align: center !important; }
curl http://localhost/info.php

</table>

```

```

root@61a18f61ea95:/# curl http://localhost/info.php
<!DOCTYPE html PUBLIC "-//W3C//DTD XHTML 1.0 Transitional//EN" "DTD/xhtml1-transitional.dtd">
<html xmlns="http://www.w3.org/1999/xhtml"><head>
<style type="text/css">
body {background-color: #fff; color: #222; font-family: sans-serif;}
pre {margin: 0; font-family: monospace; }
a{link {color: #009; text-decoration: none; background-color: #fff; }
a:hover {text-decoration: underline; }
table {border-collapse: collapse; border: 0; width: 934px; box-shadow: 1px 2px 3px rgba(0, 0, 0, 0.2); }
.center {text-align: center; }
.center table {margin: 1em auto; text-align: left; }
.center th {text-align: center !important; }
curl http://localhost/info.php

</table>
<div style="text-align: center; margin-top: 10px;">
```

```

</div></body></html>root@61a18f61ea95:/# exit
exit
peperosa@A6Alumno06:/mnt/c/WINDOWS/system32$ sudo docker run -it ubuntu /bin/bash
[sudo] password for peperosa:
root@aa3745fac312:/# apt install nginx -
Reading package lists... Done
Building dependency tree... Done
Reading state information... Done
E: Unable to locate package nginx
root@aa3745fac312:/# apt update
Get:1 http://security.ubuntu.com/ubuntu noble-security InRelease [126 kB]
Get:2 http://archive.ubuntu.com/ubuntu noble InRelease [256 kB]
Get:3 http://security.ubuntu.com/ubuntu noble-security/multiverse amd64 Packages [34.6 kB]
Get:4 http://security.ubuntu.com/ubuntu noble-security/universe amd64 Packages [1138 kB]
Get:5 http://security.ubuntu.com/ubuntu noble-security/restricted amd64 Packages [2478 kB]
Get:6 http://security.ubuntu.com/ubuntu noble-security/main amd64 Packages [1519 kB]
Get:7 http://archive.ubuntu.com/ubuntu noble-updates InRelease [126 kB]
Get:8 http://archive.ubuntu.com/ubuntu noble-backports InRelease [126 kB]
Get:9 http://archive.ubuntu.com/ubuntu noble/main amd64 Packages [1808 kB]
Get:10 http://archive.ubuntu.com/ubuntu noble/restricted amd64 Packages [117 kB]
Get:11 http://archive.ubuntu.com/ubuntu noble/universe amd64 Packages [19.3 MB]
Get:12 http://archive.ubuntu.com/ubuntu noble/multiverse amd64 Packages [331 kB]
Get:13 http://archive.ubuntu.com/ubuntu noble-updates/main amd64 Packages [1882 kB]
Get:14 http://archive.ubuntu.com/ubuntu noble-updates/restricted amd64 Packages [2612 kB]
Get:15 http://archive.ubuntu.com/ubuntu noble-updates/multiverse amd64 Packages [38.9 kB]
Get:16 http://archive.ubuntu.com/ubuntu noble-updates/universe amd64 Packages [1925 kB]
Get:17 http://archive.ubuntu.com/ubuntu noble-backports/main amd64 Packages [49.4 kB]
Get:18 http://archive.ubuntu.com/ubuntu noble-backports/universe amd64 Packages [33.9 kB]
Fetched 33.9 MB in 3s (12.8 MB/s)
Reading package lists... Done
Building dependency tree... Done
Reading state information... Done
1 package can be upgraded. Run 'apt list --upgradable' to see it.
root@aa3745fac312:/# apt upgrade
Reading package lists... Done
Building dependency tree... Done
Reading state information... Done
Calculating upgrade... Done
The following packages will be upgraded:
 libssl3t64
1 upgraded, 0 newly installed, 0 to remove and 0 not upgraded.
Need to get 1940 kB of archives.
After this operation, 0 B of additional disk space will be used.
Do you want to continue? [Y/n] y
Get:1 http://archive.ubuntu.com/ubuntu noble-updates/main amd64 libssl3t64 amd64 3.0.13-0ubuntu3.6 [1940 kB]
Fetched 1940 kB in 0s (7171 kB/s)
debconf: delaying package configuration, since apt-utils is not installed
(Reading database ... 4381 files and directories currently installed.)
Preparing to unpack .../libssl3t64_3.0.13-0ubuntu3.6_amd64.deb ...
Unpacking libssl3t64:amd64 (3.0.13-0ubuntu3.6) over (3.0.13-0ubuntu3.5) ...
Setting up libssl3t64:amd64 (3.0.13-0ubuntu3.6) ...
Processing triggers for libc-bin (2.39-0ubuntu8.6) ...
root@aa3745fac312:/# apt install nginx
Reading package lists... Done
Building dependency tree... Done

```

```

root@aa3745fac312:/# service nginx start
 * Starting nginx nginx
root@aa3745fac312:/# service nginx status
 * nginx is running
root@aa3745fac312:/# echo "<h1>Hola Mundo desde Nginx</h1><p>Servidor funcionando correctamente</p>" |tee /var/www/html/index.html
<h1>Hola Mundo desde Nginx</h1><p>Servidor funcionando correctamente</p>
root@aa3745fac312:/# curl http://localhost
bash: curl: command not found
root@aa3745fac312:/# apt update
Hit:1 http://archive.ubuntu.com/ubuntu noble InRelease
Hit:2 http://archive.ubuntu.com/ubuntu noble-updates InRelease
Hit:3 http://archive.ubuntu.com/ubuntu noble-backports InRelease
Hit:4 http://security.ubuntu.com/ubuntu noble-security InRelease
Reading package lists... Done
Building dependency tree... Done
Reading state information... Done
All packages are up to date.
root@aa3745fac312:/# apt install curl
Reading package lists... Done
Building dependency tree... Done
Reading state information... Done
The following additional packages will be installed:
 ca-certificates krb5-locales libbrotli libcurl4t64 libgssapi-krb5-2 libk5crypto3 libkeyutils1
 libkrb5-3 libkrb5support0 libldap-common libldap2 libnghtp2-14 libpsl5t64 librmp1 libsasl2-2
 libsasl2-modules libsasl2-modules-db libssh-4 openssl publicsuffix
Suggested packages:
 krb5-doc krb5-user libsasl2-modules-gssapi-mit | libsasl2-modules-gssapi-heimdal
 libsasl2-modules-ldap libsasl2-modules-otp libsasl2-modules-sql
The following NEW packages will be installed:
 ca-certificates curl krb5-locales libbrotli libcurl4t64 libgssapi-krb5-2 libk5crypto3
 libkeyutils1 libkrb5-3 libkrb5support0 libldap-common libldap2 libnghtp2-14 libpsl5t64 librmp1
 libsasl2-2 libsasl2-modules libsasl2-modules-db libssh-4 openssl publicsuffix
0 upgraded, 21 newly installed, 0 to remove and 0 not upgraded.
Need to get 3568 kB of archives.
After this operation, 9212 kB of additional disk space will be used.
Do you want to continue? [Y/n] y
Get:1 http://archive.ubuntu.com/ubuntu noble-updates/main amd64 openssl amd64 3.0.13-0ubuntu3.6 [1003 kB]
Get:2 http://archive.ubuntu.com/ubuntu noble/main amd64 ca-certificates all 20240203 [159 kB]
Get:3 http://archive.ubuntu.com/ubuntu noble-updates/main amd64 krb5-locales all 1.20.1-6ubuntu2.6 [14.8 kB]
Get:4 http://archive.ubuntu.com/ubuntu noble-updates/main amd64 libkrb5support0 amd64 1.20.1-6ubuntu2.6 [34.4 kB]
Get:5 http://archive.ubuntu.com/ubuntu noble-updates/main amd64 libk5crypto3 amd64 1.20.1-6ubuntu2.6 [82.0 kB]
Get:6 http://archive.ubuntu.com/ubuntu/noble/main amd64 libkeyutils1 amd64 1.6.3-3build1 [9498 B]
Get:7 http://archive.ubuntu.com/ubuntu noble-updates/main amd64 libkrb5-3 amd64 1.20.1-6ubuntu2.6 [348 kB]
Get:8 http://archive.ubuntu.com/ubuntu noble-updates/main amd64 libgssapi-krb5-2 amd64 1.20.1-6ubuntu2.6 [143 kB]
Get:9 http://archive.ubuntu.com/ubuntu noble-updates/main amd64 libnghtp2-14 amd64 1.59.0-1ubuntu0.2 [74.3 kB]
Get:10 http://archive.ubuntu.com/ubuntu/noble/main amd64 libpsl5t64 amd64 0.21.2-1.iubuild1 [57.1 kB]
Get:11 http://archive.ubuntu.com/ubuntu/noble/main amd64 publicsuffix all 20231001.0357-0.1 [129 kB]
Get:12 http://archive.ubuntu.com/ubuntu/noble/main amd64 libbrotlii amd64 1.1.0-2build2 [331 kB]
Get:13 http://archive.ubuntu.com/ubuntu noble-updates/main amd64 libsasl2-modules-db amd64 2.1.28+dfsg1-5ubuntu3.1 [20.4 kB]
Get:14 http://archive.ubuntu.com/ubuntu noble-updates/main amd64 libsasl2-2 amd64 2.1.28+dfsg1-5ubuntu3.1 [53.2 kB]
Get:15 http://archive.ubuntu.com/ubuntu noble-updates/main amd64 libldap2 amd64 2.6.7+dfsg-1~exp1ubuntu8.2 [196 kB]
Get:16 http://archive.ubuntu.com/ubuntu/noble/main amd64 librmp1 amd64 2.4+20151223.gitfa8646d.1-2build7 [56.3 kB]
Get:17 http://archive.ubuntu.com/ubuntu noble-updates/main amd64 libssh-4 amd64 0.10.6-2ubuntu0.1 [188 kB]
Get:18 http://archive.ubuntu.com/ubuntu noble-updates/main amd64 libcurl4t64 amd64 8.5.0-2ubuntu10.6 [341 kB]
Get:19 http://archive.ubuntu.com/ubuntu noble-updates/main amd64 curl amd64 8.5.0-2ubuntu10.6 [226 kB]

```

```

root@aa3745fac312:/# curl http://localhost
<h1>Hola Mundo desde Nginx</h1><p>Servidor funcionando correctamente</p>
root@aa3745fac312:/# |

```

Todo esto es el mismo proceso que en la primera parte del trabajo, el único cambio que sufrimos fue que una vez instalados los servicios y puestos en pie teníamos que descargar curl después de una update para poder visualizar desde la terminal los resultados de nuestros documentos en los servicios apache y nginx.