COMO CONFIGURAR HOSTS VIRTUALES EN APACHE2

1. Creamos un docker mapeando el puerto 80:80 para que el host y otras maquinas externas puedan acceder a este y creamos un volume para poder trabajar con archivos entre el contenedor y el host.

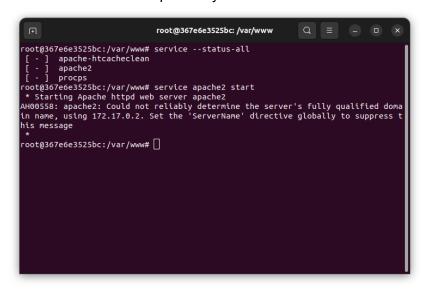
```
root@367e6e3525bc:/

smr2@alumnosmr:~$ docker run -p 80:80 -it --name http-server --volume /home/smr2
/http:/var/www/html/ ubuntu
root@367e6e3525bc:/#
```

2. Instalamos apache2, nano y net-tools previamente actualizando APT.

```
Q
                                root@367e6e3525bc: /
smr2@alumnosmr:~$ docker run -p 80:80 -it --name http-server --volume /home/smr2
/http:/var/www/html/ ubuntu
root@367e6e3525bc:/# apt update; apt upgrade -y; apt install apache2 -y; apt ins
tall nano;apt install net-tools
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/main amd64 Packages [477
kB]
Get:4 http://archive.ubuntu.com/ubuntu noble-updates InRelease [126 kB]
Get:5 http://archive.ubuntu.com/ubuntu noble-backports 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 MB]
Get:8 http://security.ubuntu.com/ubuntu noble-security/restricted amd64 Packages
[446 kB]
Get:9 http://security.ubuntu.com/ubuntu noble-security/universe amd64 Packages [
366 kB]
Get:10 http://security.ubuntu.com/ubuntu noble-security/multiverse amd64 Package
s [13.7 kB]
Get:11 http://archive.ubuntu.com/ubuntu noble/main amd64 Packages [1808 kB]
Get:12 http://archive.ubuntu.com/ubuntu noble/multiverse amd64 Packages [331 kB]
Get:13 http://archive.ubuntu.com/ubuntu noble-updates/multiverse amd64 Packages
[17.8 kB]
Get:14 http://archive.ubuntu.com/ubuntu noble-updates/main amd64 Packages [678 k
```

3. Iniciamos el servicio apache2 y accedemos al localhost a ver si funciona correctamente





4. Creamos una carpeta en el directorio var/www y copiamos el fichero principal de nuestra web al directorio

```
root@367e6e3525bc: /var/www
                                                            Q
Need to get 204 kB of archives.
After this operation, 811 kB of additional disk space will be used.
Get:1 http://archive.ubuntu.com/ubuntu noble/main amd64 net-tools amd64 2.10-0.1
ubuntu4 [204 kB]
Fetched 204 kB in 0s (436 kB/s)
debconf: delaying package configuration, since apt-utils is not installed
Selecting previously unselected package net-tools.
(Reading database ... 7923 files and directories currently installed.)
Preparing to unpack .../net-tools_2.10-0.1ubuntu4_amd64.deb ...
Unpacking net-tools (2.10-0.1ubuntu4) ...
Setting up net-tools (2.10-0.1ubuntu4) ...
root@367e6e3525bc:/# ls
bin
                                      lib64 proc sbin.usr-is-merged usr
                                             sbin tmp
root@367e6e3525bc:/# cd var/
backups/ lib/ lock/
                           mail/
                                    run/
                                             tmp/
cache/ local/
                                    spool/
                 log/
                           opt/
                                             www/
root@367e6e3525bc:/# cd var/www
root@367e6e3525bc:/var/www# mkdir host-virtual
root@367e6e3525bc:/var/www# ls
root@367e6e3525bc:/var/www#
```

```
root@367e6e3525bc: /var/www/host-virtual
  Ħ
root@367e6e3525bc:~# ../
bash: ../: Is a directory
root@367e6e3525bc:~# cd ../
root@367e6e3525bc:/# ls
bin
                                       lib64 proc sbin.usr-is-merged usr
                                              sbin tmp
root@367e6e3525bc:/# cp var/www/h
host-virtual/ html/
root@367e6e3525bc:/# cp var/www/html var/
backups/ lib/
                  lock/
                           mail/
                                    run/
cache/ local/
                 log/
                                     spool/
                           opt/
                                              www/
root@367e6e3525bc:/# cp var/www/html var/www/h
host-virtual/ html/
root@367e6e3525bc:/# cp var/www/html var/www/host-virtual
cp: -r not specified; omitting directory 'var/www/html'
root@367e6e3525bc:/# cp var/www/html/index.html var/www/host-virtual
root@367e6e3525bc:/# cd var/www/h
host-virtual/ html/
root@367e6e3525bc:/# cd var/www/host-virtual/
root@367e6e3525bc:/var/www/host-virtual# ls
index.html
root@367e6e3525bc:/var/www/host-virtual#
```

5. Accedemos a la ruta donde estan los archivos de apache2 y podemos encontrar varios ficheros de configuración en texto plano

```
root@367e6e3525bc: /etc/apache2
host-virtual/ html/
root@367e6e3525bc:/# cp var/www/html var/
backups/ lib/ lock/ mail/
                                   run/
                                              tmp/
cache/ local/
                 log/
                          opt/
                                    spool/
                                              www/
root@367e6e3525bc:/# cp var/www/html var/www/h
host-virtual/ html/
root@367e6e3525bc:/# cp var/www/html var/www/host-virtual
cp: -r not specified; omitting directory 'var/www/html'
root@367e6e3525bc:/# cp var/www/html/index.html var/www/host-virtual
root@367e6e3525bc:/# cd var/www/h
host-virtual/ html/
root@367e6e3525bc:/# cd var/www/host-virtual/
root@367e6e3525bc:/var/www/host-virtual# ls
index.html
root@367e6e3525bc:/var/www/host-virtual# cd ..
root@367e6e3525bc:/var/www# cd ..
root@367e6e3525bc:/var# cd ..
root@367e6e3525bc:/# cd ./etc/apache2 ls
bash: cd: too many arguments
root@367e6e3525bc:/# cd ./etc/apache2
root@367e6e3525bc:/etc/apache2# ls
apache2.conf conf-enabled magic conf-available envvars mods-
                                               ports.conf
root@367e6e3525bc:/etc/apache2#
```

6. Una vez ya dentro del directorio nos meteremos al directorio sites-available y encontraremos el archivo de configuración de host 000-default.conf y accedemos con <u>"nano 000-default.conf"</u>

7. Configuramos la ruta del documento actual la cual es la que hemos creado previamente y el nombre del servidor

```
root@367e6e3525bc: /etc/apache2/sites-available
 GNU nano 7.2
                                        httpserver.conf *
<VirtualHost *:80>
        # The ServerName directive sets the request scheme, hostname and port t>
        # redirection URLs. In the context of virtual hosts, the ServerName
# specifies what hostname must appear in the request's Host: header to
        # However, you must set it for any further virtual host explicitly. #ServerName www.example.com
        ServerName httpserver.org
        ServerAdmin 2865684@alu.murciaeduca.es
        DocumentRoot /var/www/host-virtual
        # error, crit, alert, emerg.
        # It is also possible to configure the loglevel for particular
              ^O Write Out ^W Where Is
                                             ^K Cut
                                                                            ^C Location
^G Help
                                                             ^T Execute
  Exit
              ^R Read File ^\ Replace
                                             ^U
                                                Paste
                                                                Justify
                                                                               Go To Line
```

8. Actualizamos la ruta del fichero web de apache haciendo el comando a2ensite con el nombre de nuestro fichero



9. Ahora nos metemos en cd ./etc/hosts y con la misma ip añadimos un nuevo host "httpserver.org"

