

UNIVERSIDAD NACIONAL AUTÓNOMA DE MEXICO



FACULTAD DE ESTUDIOS SUPERIORES ARAGÓN

"Proyecto Final"

ORGANIZAC.Y ADMON.CENTROS COMPUTO.

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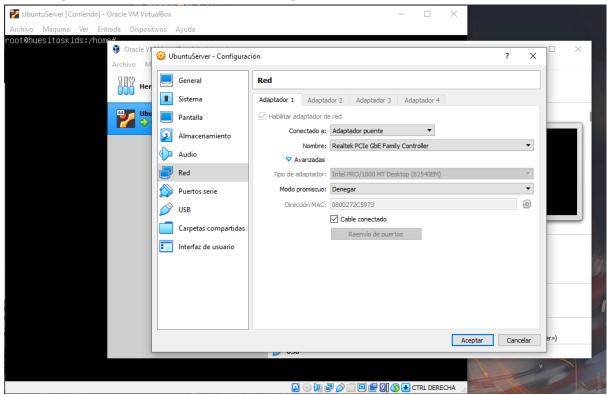
Grupo:

2809

CICLO ESCOLAR: 2021-II

ssh usuario@182.249.60.247

Se configura virtual box para que nos asigne una ip dentro de nuestra red local



instalación net tools

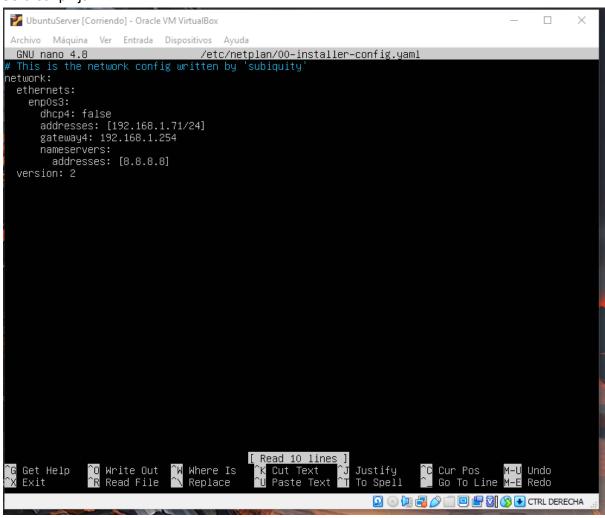
```
root@ninioshuesos:/etc/ssh# sudo apt install net-tools
Reading package lists... Done
Building dependency tree
Reading state information... Done
The following NEW packages will be installed:
    net-tools
0 upgraded, 1 newly installed, 0 to remove and 116 not upgraded.
Need to get 196 kB of archives.
After this operation, 864 kB of additional disk space will be used.
Get:1 http://mx.archive.ubuntu.com/ubuntu focal/main amd64 net-tools amd64 1.60+git20180626.aebd88e-
1ubuntu1 [196 kB]
Fetched 196 kB in 1s (198 kB/s)
Selecting previously unselected package net-tools.
(Reading database ... 71201 files and directories currently installed.)
Preparing to unpack .../net-tools.1.60+git20180626.aebd88e-1ubuntu1...
Setting up net-tools (1.60+git20180626.aebd88e-1ubuntu1) ...
Setting up net-tools (1.60+git20180626.aebd88e-1ubuntu1) ...
Processing triggers for man-db (2.9.1-1) ...
root@ninioshuesos:/etc/ssh# o_
```

ip asignada por virtualbox:

```
root@ninioshuesos:/etc/ssh# ifconfig
enp0s3: flags=4163<UP,BRDADCAST,RUNNING,MULTICAST> mtu 1500
    inet 10.0.2.15 netmask 255.255.255.0 broadcast 10.0.2.255
    inet6 fe80::a00:27ff:fe6d:94b prefixlen 64 scopeid 0x20<link>
    ether 08:00:27:6d:09:4b txqueuelen 1000 (Ethernet)
    RX packets 827 bytes 1108125 (1.1 MB)
    RX errors 0 dropped 0 overruns 0 frame 0
    TX packets 734 bytes 53985 (53.9 KB)
    TX errors 0 dropped 0 overruns 0 carrier 0 collisions 0

10: flags=73<UP,L00PBACK,RUNNING> mtu 65536
    inet 127.0.0.1 netmask 255.0.0.0
    inet6 ::1 prefixlen 128 scopeid 0x10<host>
    loop txqueuelen 1000 (Local Loopback)
    RX packets 114 bytes 9362 (9.3 KB)
    RX errors 0 dropped 0 overruns 0 frame 0
    TX packets 114 bytes 9362 (9.3 KB)
    TX errors 0 dropped 0 overruns 0 carrier 0 collisions 0
```

Se crea ip fija:



Se abren puertos para la ip fija:

No.	Descripción	IP LAN	Tipo de protocolo	Puerto LAN	Puerto publico	Habilitar	Modificar/Borrar
1	puerto 22	192.168.1.71(PC192-168-1-71)	TCP&UDP	22	22	Habilitado	Modificar Borrar
2	puerto 1194	192.168.1.71(PC192-168-1-71)	TCP&UDP	1194	1194	Habilitado	Modificar Borrar
3	puerto 80	192.168.1.71(PC192-168-1-71)	TCP&UDP	80	80	Habilitado	Modificar Borrar

ip ya fijada:

```
root@huesitoskids:/home# ifconfig
enp0s3: flags=4163<UP,BROADCAST,RUNNING,MULTICAST> mtu 1500
    inet 192.168.1.71    netmask 255.255.255.0    broadcast 192.168.1.255
    inet6 fe80::a00:27ff:fe2c:5973    prefixlen 64    scopeid 0x20<link>
    inet6 2806:107e:15:4e00:a00:27ff:fe2c:5973    prefixlen 64    scopeid 0x0<global>
    ether 08:00:27:2c:59:73    txqueuelen 1000    (Ethernet)
    RX packets 151693    bytes 129339979 (129.3 MB)
    RX errors 0    dropped 0    overruns 0    frame 0
    TX packets 42125    bytes 4160341 (4.1 MB)
    TX errors 0    dropped 0    overruns 0    carrier 0    collisions 0

lo: flags=73<UP,LOOPBACK,RUNNING> mtu 65536
    inet 127.0.0.1    netmask 255.0.0.0
    inet6::1    prefixlen 128    scopeid 0x10<host>
    loop    txqueuelen 1000    (Local Loopback)
    RX packets 186    bytes 16006 (16.0 KB)
    RX errors 0    dropped 0    overruns 0    frame 0
    TX packets 186    bytes 16006 (16.0 KB)
    TX errors 0    dropped 0    overruns 0    carrier 0    collisions 0

Proot@huesitoskids:/home# _
```

Instalamos ssh

con el comando apt-get install openssh

Creamos nuevos usuarios de ubuntu server adduser username

Dar permiso de administrador a usuarios ubuntu.

usermod -aG sudo nombredeusuario.

Se instala apache con el comando:

apt-get install apache2

Se configura firewall

```
root@huesitoskids:/etc/apache2/sites–available# ufw app list
Available applications:
  Apache
  Apache Full
  Apache Secure
 OpenSSH
root@huesitoskids:/etc/apache2/sites–available# ufw allow Apache
Rule added
Rule added (v6)
root@huesitoskids:/etc/apache2/sites—available# ufw status
Status: active
Τo
                           Action
                                        From
                           ALLOW
                                        Anywhere
22/tcp
                           ALLOW
                                        Anywhere
                           ALLOW
Apache
                                        Anywhere
22 (v6)
                                        Anywhere (v6)
                           ALLOW
22/tcp (v6)
                           ALLOW
                                        Anywhere (v6)
Apache (v6)
                           ALLOW
                                        Anywhere (v6)
root@huesitoskids:/etc/apache2/sites–available#
```

Comprobamos que apache funcione ingresando con nuestra ip publica del servidor

▲ No es seguro | 189.249.60.227



Apache2 Ubuntu Default Page

ubuntu

It works!

This is the default welcome page used to test the correct operation of the Apache2 server after installation on Ubuntu systems. It is based on the equivalent page on Debian, from which the Ubuntu Apache packaging is derived. If you can read this page, it means that the Apache HTTP server installed at this site is working properly. You should replace this file (located at /var/www/html/index.html) before continuing to operate your HTTP server.

If you are a normal user of this web site and don't know what this page is about, this probably means that the site is currently unavailable due to maintenance. If the problem persists, please contact the site's administrator.

Configuration Overview

Ubuntu's Apache2 default configuration is different from the upstream default configuration, and split into several files optimized for interaction with Ubuntu tools. The configuration system is **fully documented in /usr/share/doc/apache2/README.Debian.gz**. Refer to this for the full documentation. Documentation for the web server itself can be found by accessing the **manual** if the apache2-doc package was installed on this server.

The configuration layout for an Apache2 web server installation on Ubuntu systems is as follows:

- apache2.conf is the main configuration file. It puts the pieces together by including all remaining configuration files when starting up the web server.
- ports.conf is always included from the main configuration file. It is used to determine the listening ports for incoming connections, and this file can be customized anytime.
- Configuration files in the mods-enabled/, conf-enabled/ and sites-enabled/ directories contain
 particular configuration sinpets which manage modules, global configuration fragments, or virtual
 host configurations, respectively.
- They are activated by symlinking available configuration files from their respective *-available/counterparts. These should be managed by using our helpers a2enmod, a2dismod, a2ensite, a2dissite, and a2enconf, a2disconf . See their respective man pages for detailed information.
- The binary is called apache2. Due to the use of environment variables, in the default
 configuration, apache2 needs to be started/stopped with /etc/init.d/apache2 or apache2ct1.
 Calling /usr/bin/apache2 directly will not work with the default configuration.

Modificamos nuestra página web

ingresando a la dirección var/www/html y editamos el archivo index.html

Comprobamos que la página se muestre:

```
← → C 🛕 No es seguro | 189.249.60.227
```

Bienvenidos sean todos ustedes a la pagina web sencilla de los huesitos kids

Obtenemos el hash

```
brian@huesitoskids:/var/www/html$ ls
index.html
brian@huesitoskids:/var/www/html$ shasum -a 256 index.html
7e92dff26f79fae7155017745bdf0db5ef7af4cd1a86fb96f91b8fd1fec74b4e index.html
```

Descargamos nuestro archivo index.html por ftp

```
C:\Users\Master>sftp brian@189.249.60.227
brian@189.249.60.227's password:
Connected to 189.249.60.227.
sftp> ls
sftp> pwd
Remote working directory: /home/brian
sftp> cd
sftp> cd ..
sftp> pwd
Remote working directory: /
sftp> get var/www/html/index.html
Fetching /var/www/html/index.html to index.html
/var/www/html/index.html
                                                                             1.5KB/s
                                                               100% 162
                                                                                       00:00
sftp> exit
```

Creamos un proyecto en Github y clonamos el repositorio del proyecto .

```
Master@DESKTOP-C318GOI MINGW64 ~/desktop

$ git clone https://github.com/VictorRuizEst98/ProyectoCentrosDeComputo.git
Cloning into 'ProyectoCentrosDeComputo'...
remote: Enumerating objects: 9, done.
remote: Counting objects: 100% (9/9), done.
remote: Compressing objects: 100% (7/7), done.
remote: Total 9 (delta 1), reused 3 (delta 0), pack-reused 0
Receiving objects: 100% (9/9), done.
Resolving deltas: 100% (1/1), done.
```

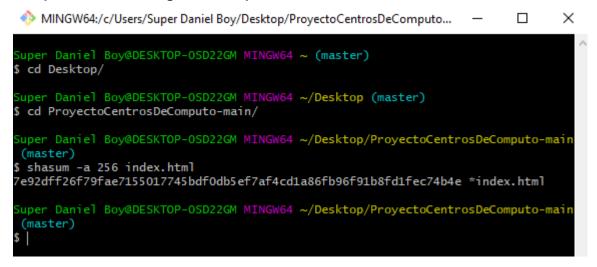
Subimos el archivo index al repositorio de Github

```
ESKTOP-C3I8G0I MINGW64 ~/desktop/ProyectoCentrosDeComputo (main)
$ 1s
README.md index.html
Master@DESKTOP-C318G0I MINGW64 ~/desktop/ProyectoCentrosDeComputo (main)
$ git add
warning: LF will be replaced by CRLF in index.html.
The file will have its original line endings in your working directory
Master@DESKTOP-C3I8G0I MINGW64 ~/desktop/ProyectoCentrosDeComputo (main)
$ git commit -m "Carga de archivo index.html"
[main 62d91e7] Carga de archivo index.html
1 file changed, 1 insertion(+), 1 deletion(-)
Master@DESKTOP-C3I8G0I MINGW64 ~/desktop/ProyectoCentrosDeComputo (main)
$ gid add .
bash: gid: command not found
Master@DESKTOP-C3I8G0I MINGW64 ~/desktop/ProyectoCentrosDeComputo (main)
$ git push
Enumerating objects: 5, done.
Counting objects: 100% (5/5), done.
Delta compression using up to 8 threads
Compressing objects: 100% (3/3), done.
Writing objects: 100% (3/3), 340 bytes | 340.00 KiB/s, done.
Total 3 (delta 1), reused 0 (delta 0), pack-reused 0
remote: Resolving deltas: 100% (1/1), completed with 1 local object.
To https://github.com/VictorRuizEst98/ProyectoCentrosDeComputo.git
   5e794ce..62d91e7 main -> main
Master@DESKTOP-C318GOI MINGW64 ~/desktop/ProyectoCentrosDeComputo (main)
$ git add .
Master@DESKTOP-C3I8G0I MINGW64 ~/desktop/ProyectoCentrosDeComputo (main)
$ git commit -m "Carga de archivo Integridad del Index"
[main Oa74a35] Carga de archivo Integridad del Index
1 file changed, 2 insertions(+)
create mode 100644 IntegridaddeIndex.txt
Master@DESKTOP-C318GOI MINGW64 ~/desktop/ProyectoCentrosDeComputo (main)
$ git push
Enumerating objects: 4, done.
Counting objects: 100% (4/4), done.
Delta compression using up to 8 threads
Compressing objects: 100% (3/3), done.
Writing objects: 100% (3/3), 427 bytes | 427.00 KiB/s, done.
Total 3 (delta 0), reused 0 (delta 0), pack-reused 0
To https://github.com/VictorRuizEst98/ProyectoCentrosDeComputo.git
   62d91e7..0a74a35 main -> main
```

Descargamos el index.html desde github para comprobar su integridad

brayan-mendoza Carga de archivo	brayan-mendoza Carga de archivo Integridad del Index	
☐ IntegridaddeIndex.txt	Carga de archivo Integridad del Index	43 seconds ago
☐ README.md	Update README.md	1 hour ago
index.html	Carga de archivo index.html	4 minutes ago

Comprobamos su integridad comparando con lo obtenido anteriormente.



SHA de la pagina 7e92dff26f79fae7155017745bdf0db5ef7af4cd1a86fb96f91b8fd1fec74b4e index.html