Tarea 1: Configuración de Apache

```
sebas@SebasUbuntuPC:~$ sudo docker run -it -d --name contenedor -p 8080:80 -p 9443:443 php:7.4-apache
Unable to find image 'php:7.4-apache' locally
7.4-apache: Pulling from library/php
a2abf6c4d29d: Pull complete
c5608244554d: Pull complete
2d07066487a0: Pull complete
1b6dfaf1958c: Pull complete
32c5e6a60073: Pull complete
90cf855b27cc: Pull complete
8b0f1068c586: Pull complete
5355461305e8: Pull complete
ad1eec592342: Pull complete
e03fbc76cb78: Pull complete
1f5796e48b39: Pull complete
72fbe8e1d4e7: Pull complete
96edece66175: Pull complete
Digest: sha256:729ad01c7d8e10fd992a6d4f3eb05dce3fb69bdf5c4fb4a9de4be4f4f5ae4dcc
Status: Downloaded newer image for php:7.4-apache
52e84852b037cbf5ea5eb13df3448217975bfa19bd07bceb3f6f696e3ca5f788
sebas@SebasUbuntuPC:~$ sudo docker ps
CONTAINER ID   IMAGE            COMMAND            CREATED        STATUS         PORTS
                               NAMES
52e84852b037   php:7.4-apache   "docker-php-entrypoi…"   19 seconds ago   Up 16 seconds   0.0.0.0:8080->80/tcp, :::8080->80/tcp, 0.0.0.0:9443->443/tcp
, :::9443->443/tcp   contenedor
sebas@SebasUbuntuPC:~$
```

```
sebas@SebasUbuntuPC:~$ sudo docker exec -it contenedor /bin/bash
root@52e84852b037:/var/www/html# adduser sebasdespliegue
Adding user `sebasdespliegue' ...
Adding new group `sebasdespliegue' (1000) ...
Adding new user `sebasdespliegue' (1000) with group `sebasdespliegue' ...
Creating home directory `/home/sebasdespliegue' ...
Copying files from `/etc/skel' ...
New password:
Retype new password:
passwd: password updated successfully
Changing the user information for sebasdespliegue
Enter the new value, or press ENTER for the default
        Full Name []:
        Room Number []:
        Work Phone []:
        Home Phone []:
        Other []:
Is the information correct? [Y/n] y
root@52e84852b037:/var/www/html#
```

```
root@52e84852b037:/var/www/html# su sebasdespliegue
sebasdespliegue@52e84852b037:/var/www/html$ cd /home/sebasdespliegue/
sebasdespliegue@52e84852b037:~$ pwd
/home/sebasdespliegue
sebasdespliegue@52e84852b037:~$ mkdir CarpetaPersonal
sebasdespliegue@52e84852b037:~$ echo "<h1> Hola desde la carpeta del usuar
io sebasdespliegue </h1>" > index.html
sebasdespliegue@52e84852b037:~$ ls
CarpetaPersonal  index.html
sebasdespliegue@52e84852b037:~$ mv index.html CarpetaPersonal/
sebasdespliegue@52e84852b037:~$ cd CarpetaPersonal/
sebasdespliegue@52e84852b037:~/CarpetaPersonal$ ls
index.html
sebasdespliegue@52e84852b037:~/CarpetaPersonal$
```

Nos salimos del usuario y volvemos a ser root.

```
root@52e84852b037:/var/www/html# cd /etc/apache2/
root@52e84852b037:/etc/apache2# cd mods-available/
root@52e84852b037:/etc/apache2/mods-available# a2enmod userdir
Enabling module userdir.
To activate the new configuration, you need to run:
  service apache2 restart
root@52e84852b037:/etc/apache2/mods-available# service apache2 restart
Restarting Apache httpd web server: apache2Terminated
root@52e84852b037:/etc/apache2/mods-available# sebas@SebasUbuntuPC:~$
```

```
sebas@SebasUbuntuPC:~$ sudo docker start contenedor
contenedor
sebas@SebasUbuntuPC:~$ sudo docker exec -it contenedor /bin/bash
root@52e84852b037:/var/www/html# cd /etc/apache2/
root@52e84852b037:/etc/apache2# ls
apache2.conf     envvars           mods-enabled      sites-enabled
conf-available   magic             ports.conf
conf-enabled     mods-available    sites-available
root@52e84852b037:/etc/apache2# cd mods-available/
root@52e84852b037:/etc/apache2/mods-available# nano userdir.conf
```

```
  GNU nano 5.4                    userdir.conf *
<IfModule mod_userdir.c>
        UserDir CarpetaPersonal
        UserDir disabled root

        <Directory /home/*/CarpetaPersonal>
                AllowOverride FileInfo AuthConfig Limit Indexes
                Options MultiViews Indexes SymLinksIfOwnerMatch IncludesN>
                Require method GET POST OPTIONS
        </Directory>
</IfModule>

# vim: syntax=apache ts=4 sw=4 sts=4 sr noet
```

```
root@52e84852b037:/etc/apache2/mods-available# a2dismod userdir
Module userdir disabled.
To activate the new configuration, you need to run:
  service apache2 restart
root@52e84852b037:/etc/apache2/mods-available# service apache2 restart
Restarting Apache httpd web server: apache2Terminated
root@52e84852b037:/etc/apache2/mods-available# sebas@SebasUbuntuPC:~$
```
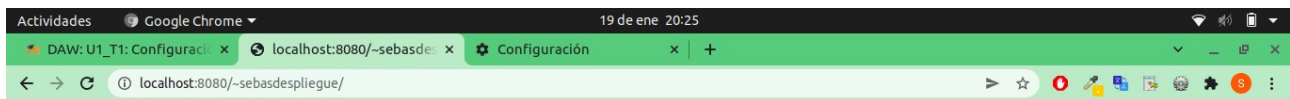
```
sebas@SebasUbuntuPC:~$ sudo docker start contenedor
contenedor
sebas@SebasUbuntuPC:~$ sudo docker exec -it contenedor /bin/bash
root@52e84852b037:/var/www/html#
```
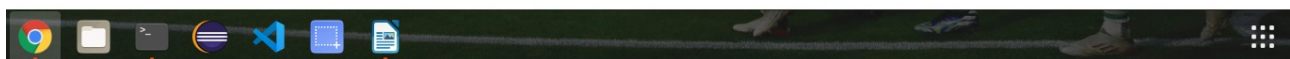
```
root@52e84852b037:/var/www/html# a2enmod userdir
Enabling module userdir.
To activate the new configuration, you need to run:
  service apache2 restart
root@52e84852b037:/var/www/html# service apache2 restart
Restarting Apache httpd web server: apache2Terminated
root@52e84852b037:/var/www/html# sebas@SebasUbuntuPC:~$ sudo docker exec
exec -it contenedor /bisudo docker start contenedor
contenedor
```

DAW: U1_T1: Configuració ✕   localhost:8080/~sebasdes ✕   ⚙ Configuración   ✕ | +

← → C   ⓘ localhost:8080/~sebasdespliegue/

Hola desde la carpeta del usuario sebasdespliegue

```
root@52e84852b037:/var/www/html# cd /etc/apache2/
root@52e84852b037:/etc/apache2# mkdir psswd
root@52e84852b037:/etc/apache2# htpasswd -c passwd/passwords sebasdesplieg
ue
htpasswd: cannot create file passwd/passwords
root@52e84852b037:/etc/apache2# mkdir passwd
root@52e84852b037:/etc/apache2# htpasswd -c passwd/passwords sebasdesplieg
ue
New password:
Re-type new password:
Adding password for user sebasdespliegue
root@52e84852b037:/etc/apache2#
```

```
root@52e84852b037:/etc/apache2# cat passwd/passwords
sebasdespliegue:$apr1$LeaP76oD$CdUvC0Vf1NMa8/xIhzOB9.
root@52e84852b037:/etc/apache2#
```

```
         Require all denied
</Directory>

<Directory /usr/share>
        AllowOverride None
        Require all granted
</Directory>

<Directory /var/www/>
        Options Indexes FollowSymLinks
        AllowOverride None
        Require all granted
</Directory>
<Directory "/home/sebasdespliegue/CarpetaPersonal">
   AuthType Basic
   AuthName "CarpetaPersonal"
   AuthBasicProvider file
   AuthUserFile "/etc/apache2/passwd/passwords"
   Require user sebasdespliegue
</Directory>
#<Directory /srv/>
#        Options Indexes FollowSymLinks
#        AllowOverride None
#        Require all granted
#</Directory>




# AccessFileName: The name of the file to look for in each directory
# for additional configuration directives.  See also the AllowOverride
```
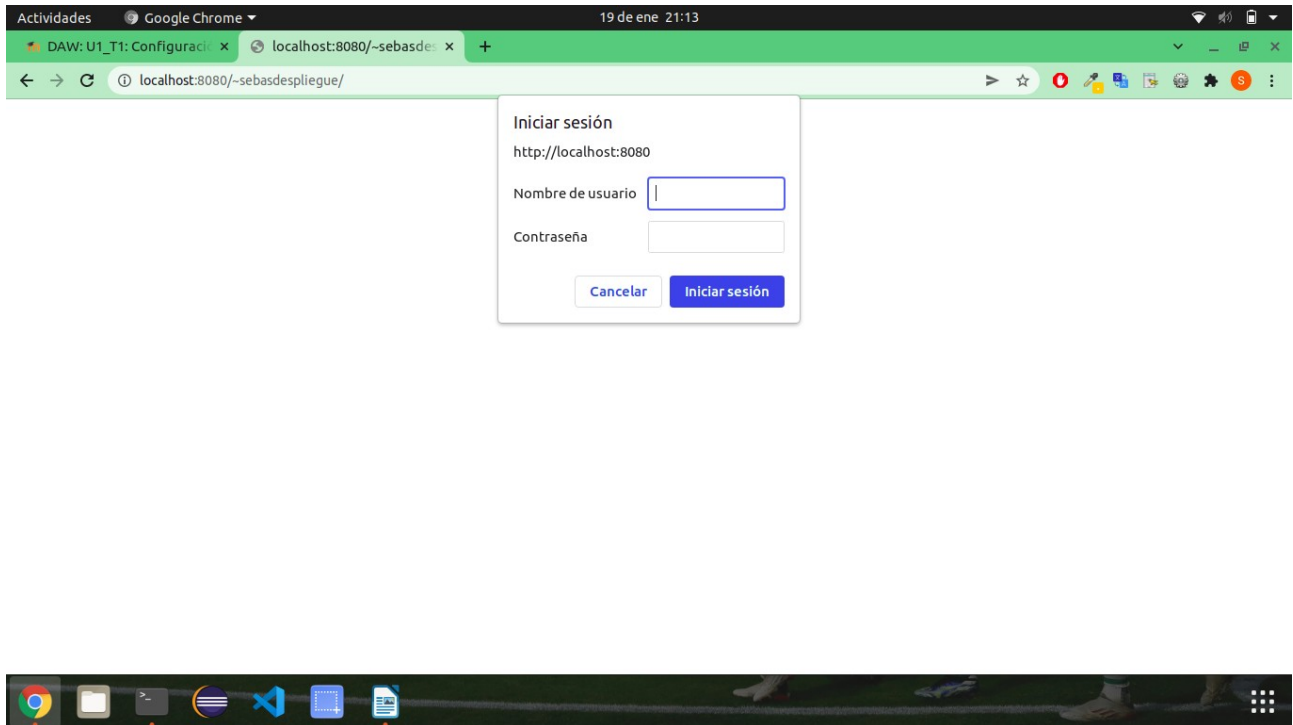
```
^G Help        ^O Write Out  ^W Where Is   ^K Cut        ^T Execute
^X Exit        ^R Read File   ^\ Replace    ^U Paste      ^J Justify
```

```
root@52e84852b037:/etc/apache2# cd mods-enabled/
root@52e84852b037:/etc/apache2/mods-enabled# ls
access_compat.load  authz_user.load  filter.load       reqtimeout.conf
alias.conf          autoindex.conf   mime.conf         reqtimeout.load
alias.load          autoindex.load   mime.load         setenvif.conf
auth_basic.load     deflate.conf     mpm_prefork.conf  setenvif.load
authn_core.load     deflate.load     mpm_prefork.load  status.conf
authn_file.load     dir.conf         negotiation.conf  status.load
authz_core.load     dir.load         negotiation.load  userdir.conf
authz_host.load     env.load         php7.load         userdir.load
root@52e84852b037:/etc/apache2/mods-enabled# a2enmod auth_digest
Considering dependency authn_core for auth_digest:
Module authn_core already enabled
Enabling module auth_digest.
To activate the new configuration, you need to run:
  service apache2 restart
root@52e84852b037:/etc/apache2/mods-enabled# service apach2 restart
apach2: unrecognized service
root@52e84852b037:/etc/apache2/mods-enabled# service apache2 restart
```

```
sebas@SebasUbuntuPC:~$ sudo docker start contenedor
[sudo] contraseña para sebas:
contenedor
sebas@SebasUbuntuPC:~$ sudo docker exec -it contenedor /bin/bash
root@52e84852b037:/var/www/html#
```

DAW: U1_T1: Configuraci ✕   localhost:8080/~sebasdes ✕   +

← → C ⓘ localhost:8080/~sebasdespliegue/

Iniciar sesión

http://localhost:8080

Nombre de usuario |

Contraseña

Cancelar   **Iniciar sesión**

```
root@52e84852b037:/var/www/html# openssl
OpenSSL> req -x509 -nodes -days 365 -newkey rsa:2048 -keyout /etc/ssl/priv
ate/sebasdespliegue.key -out /etc/ssl/certs/sebasdespliegue.crt
Generating a RSA private key
.............................................................................
.......................................++++++
...............++++++
writing new private key to '/etc/ssl/private/sebasdespliegue.key'
-----
You are about to be asked to enter information that will be incorporated
into your certificate request.
What you are about to enter is what is called a Distinguished Name or a DN
.
There are quite a few fields but you can leave some blank
For some fields there will be a default value,
If you enter '.', the field will be left blank.
-----
Country Name (2 letter code) [AU]:ES
State or Province Name (full name) [Some-State]:Sevilla
Locality Name (eg, city) []:Castilleja de la Cuesta
Organization Name (eg, company) [Internet Widgits Pty Ltd]:IES Alixar
Organizational Unit Name (eg, section) []:Depto Informatica
Common Name (e.g. server FQDN or YOUR name) []:sebas
Email Address []:alum.sbermudezh@iesalixar.org
OpenSSL>
```

```
root@52e84852b037:/var/www/html# a2enmod ssl
Considering dependency setenvif for ssl:
Module setenvif already enabled
Considering dependency mime for ssl:
Module mime already enabled
Considering dependency socache_shmcb for ssl:
Enabling module socache_shmcb.
Enabling module ssl.
See /usr/share/doc/apache2/README.Debian.gz on how to configure SSL and cr
eate self-signed certificates.
To activate the new configuration, you need to run:
  service apache2 restart
root@52e84852b037:/var/www/html# service apache2 restart
Restarting Apache httpd web server: apache2Terminated
root@52e84852b037:/var/www/html# sebas@SebasUbuntuPC:~$
```

```
root@52e84852b037:/etc/apache2# cd sites-available/
root@52e84852b037:/etc/apache2/sites-available# ls
000-default.conf  default-ssl.conf
root@52e84852b037:/etc/apache2/sites-available# cp 000-default.conf bermud
ezherrera.edu.conf
root@52e84852b037:/etc/apache2/sites-available# ls
000-default.conf  bermudezherrera.edu.conf  default-ssl.conf
root@52e84852b037:/etc/apache2/sites-available#
```

```
onf
root@52e84852b037:/etc/apache2/sites-available# cd /var/www/html/
root@52e84852b037:/var/www/html# mkdir bermudezherrera
root@52e84852b037:/var/www/html# ls
bermudezherrera
root@52e84852b037:/var/www/html#
```

```
<VirtualHost *:80>
        # The ServerName directive sets the request scheme, hostname and >
        # the server uses to identify itself. This is used when creating
        # redirection URLs. In the context of virtual hosts, the ServerNa>
        # specifies what hostname must appear in the request's Host: head>
        # match this virtual host. For the default virtual host (this fil>
        # value is not decisive as it is used as a last resort host regar>
        # However, you must set it for any further virtual host explicitl>
        #ServerName www.example.com

        ServerAdmin alum.sbermudezh@iesalixar.org
        ServerName bermudezherrera.edu
        ServerAlias www.bermudezherrera.edu
        DirectoryIndex index.html
        DocumentRoot /var/www/html/bermudezherrera

        # Available loglevels: trace8, ..., trace1, debug, info, notice, >
        # error, crit, alert, emerg.
        # It is also possible to configure the loglevel for particular
        # modules, e.g.
        #LogLevel info ssl:warn

        ErrorLog ${APACHE_LOG_DIR}/error.log
        CustomLog ${APACHE_LOG_DIR}/access.log combined

        # For most configuration files from conf-available/, which are
        # enabled or disabled at a global level, it is possible to
        # include a line for only one particular virtual host. For exampl>
        # following line enables the CGI configuration for this host only
        # after it has been globally disabled with "a2disconf".
        #Include conf-available/serve-cgi-bin.conf
```

```
^G Help        ^O Write Out  ^W Where Is   ^K Cut        ^T Execute
^X Exit        ^R Read File  ^\ Replace    ^U Paste      ^J Justify
```

sebas@SebasUbuntuPC: ~

```
  GNU nano 5.4                                    bermudezherrera.edu.conf
        # Available loglevels: trace8, ..., trace1, debug, info, notice, warn,
        # error, crit, alert, emerg.
        # It is also possible to configure the loglevel for particular
        # modules, e.g.
        #LogLevel info ssl:warn

        ErrorLog ${APACHE_LOG_DIR}/error.log
        CustomLog ${APACHE_LOG_DIR}/access.log combined

        # For most configuration files from conf-available/, which are
        # enabled or disabled at a global level, it is possible to
        # include a line for only one particular virtual host. For example the
        # following line enables the CGI configuration for this host only
        # after it has been globally disabled with "a2disconf".
        #Include conf-available/serve-cgi-bin.conf
</VirtualHost>

# vim: syntax=apache ts=4 sw=4 sts=4 sr noet


<VirtualHost *:443>
        ServerName bermudezherrera.edu
        ServerAlias www.bermudezherrera.edu
        DirectoryIndex index.html
        DocumentRoot /var/www/html/bermudezherrera
        ServerSignature Off
        SSLEngine on
        SSLCertificateFile /etc/ssl/certs/sebasdespliegue.crt
        SSLCertificateKeyFile /etc/ssl/private/sebasdespliegue.key
</VirtualHost>

                                    [ Wrote 46 lines ]
^G Help          ^O Write Out     ^W Where Is      ^K Cut        ^T Execute    ^C Location    M-U Undo    M-A Set Mark    M-] To Bracket
^X Exit          ^R Read File     ^\ Replace       ^U Paste      ^J Justify    ^_ Go To Line  M-E Redo    M-6 Copy        ^Q Where Was
```

```
root@52e84852b037:/var/www/html/bermudezherrera# nano index.html
```

sebas@SebasUbuntuPC: ~

```
  GNU nano 5.4                         /var/www/html/bermudezherrera/index.html *
<!DOCTYPE html>
<html>
<head>
<title>Apache</title>
</head>
<body>

<h1>SEBASDESPLIEGUE</h1>
<p>Hola desde /var/www/html/bermudezherrera/index.html</p>

</body>
</html>


^G Help          ^O Write Out     ^W Where Is      ^K Cut        ^T Execute    ^C Location    M-U Undo    M-A Set Mark    M-] To Bracket
^X Exit          ^R Read File     ^\ Replace       ^U Paste      ^J Justify    ^_ Go To Line  M-E Redo    M-6 Copy        ^Q Where Was
```

```
root@52e84852b037:/var/www/html/bermudezherrera# ls -la
total 12
drwxr-xr-x 2 root      root     4096 Jan 26 19:05 .
drwxrwxrwx 1 www-data www-data 4096 Jan 19 20:27 ..
-rw-r--r-- 1 root      root      168 Jan 24 15:04 index.html
root@52e84852b037:/var/www/html/bermudezherrera#
root@52e84852b037:/var/www/html/bermudezherrera# chown -R www-data:www-data berm
udezherrera
chown: cannot access 'bermudezherrera': No such file or directory
root@52e84852b037:/var/www/html/bermudezherrera# chown -R www-data:www-data berm
udezherrera/index.html
chown: cannot access 'bermudezherrera/index.html': No such file or directory
root@52e84852b037:/var/www/html/bermudezherrera# chown -R www-data:www-data inde
x.html
root@52e84852b037:/var/www/html/bermudezherrera# ls -la
total 12
drwxr-xr-x 2 root      root     4096 Jan 26 19:05 .
drwxrwxrwx 1 www-data www-data 4096 Jan 19 20:27 ..
-rw-r--r-- 1 www-data www-data  168 Jan 24 15:04 index.html
root@52e84852b037:/var/www/html/bermudezherrera#
```
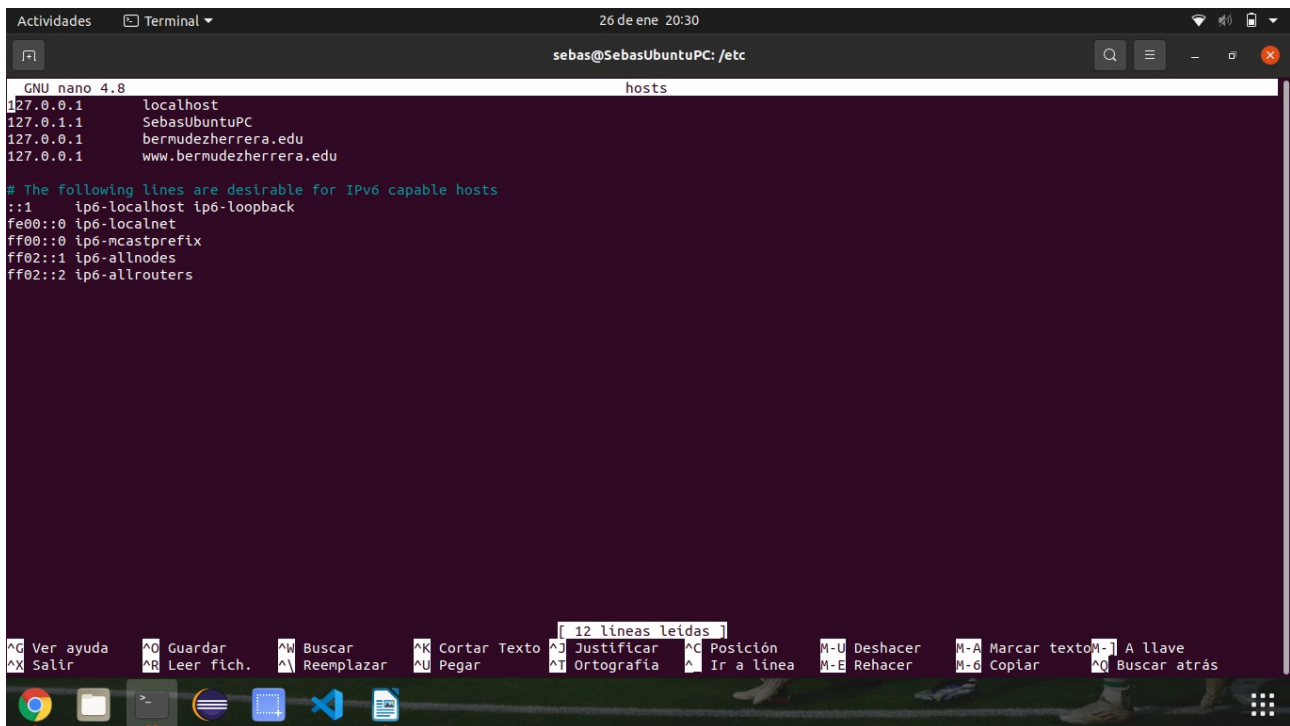
```
root@52e84852b037:/var/www/html# ls /etc/apache2/mods-enabled/
access_compat.load   authz_user.load   mime.conf          setenvif.conf
alias.conf           autoindex.conf    mime.load          setenvif.load
alias.load           autoindex.load    mpm_prefork.conf   socache_shmcb.load
auth_basic.load      deflate.conf      mpm_prefork.load   ssl.conf
auth_digest.load     deflate.load      negotiation.conf   ssl.load
authn_core.load      dir.conf          negotiation.load   status.conf
authn_file.load      dir.load          php7.load          status.load
authz_core.load      env.load          reqtimeout.conf    userdir.conf
authz_host.load      filter.load       reqtimeout.load    userdir.load
root@52e84852b037:/var/www/html# a2ensite bermudezherrera.edu
Enabling site bermudezherrera.edu.
To activate the new configuration, you need to run:
  service apache2 reload
root@52e84852b037:/var/www/html# service apache2 reload
Reloading Apache httpd web server: apache2.
root@52e84852b037:/var/www/html#
```
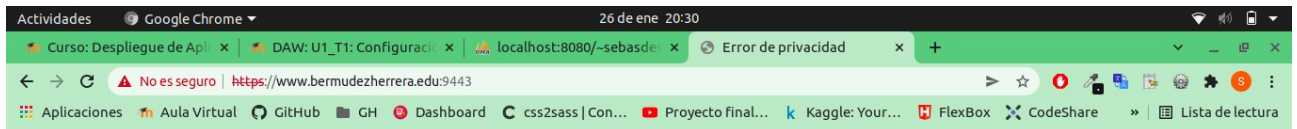
Desde el anfitrión:
Sudo nano ect/hosts

GNU nano 4.8   hosts
127.0.0.1   localhost
127.0.1.1   SebasUbuntuPC
127.0.0.1   bermudezherrera.edu
127.0.0.1   www.bermudezherrera.edu

The following lines are desirable for IPv6 capable hosts
::1   ip6-localhost ip6-loopback
fe00::0 ip6-localnet
ff00::0 ip6-mcastprefix
ff02::1 ip6-allnodes
ff02::2 ip6-allrouters

```
<VirtualHost *:80>
        # The ServerName directive sets the request scheme, hostname and >
        # the server uses to identify itself. This is used when creating
        # redirection URLs. In the context of virtual hosts, the ServerNa>
        # specifies what hostname must appear in the request's Host: head>
        # match this virtual host. For the default virtual host (this fil>
        # value is not decisive as it is used as a last resort host regar>
        # However, you must set it for any further virtual host explicitl>
        #ServerName www.example.com

        ServerAdmin alum.sbermudezh@iesalixar.org
        ServerName bermudezherrera.edu
        ServerAlias www.bermudezherrera.edu
        Redirect permanent / https://bermudezherrera.edu:9443/
        DirectoryIndex index.html
        DocumentRoot /var/www/html/bermudezherrera

        # Available loglevels: trace8, ..., trace1, debug, info, notice, >
        # error, crit, alert, emerg.
        # It is also possible to configure the loglevel for particular
        # modules, e.g.
        #LogLevel info ssl:warn

        ErrorLog ${APACHE_LOG_DIR}/error.log
        CustomLog ${APACHE_LOG_DIR}/access.log combined

        # For most configuration files from conf-available/, which are
        # enabled or disabled at a global level, it is possible to
        # include a line for only one particular virtual host. For exampl>
        # following line enables the CGI configuration for this host only
        # after it has been globally disabled with "a2disconf".
                            [ Wrote 47 lines ]
^G Help          ^O Write Out  ^W Where Is   ^K Cut       ^T Execute
^X Exit          ^R Read File  ^\ Replace    ^U Paste     ^J Justify
```

Curso: Despliegue de Apli × | DAW: U1_T1: Configuraci × | localhost:8080/~sebasde × | Error de privacidad × +

← → C ⚠ No es seguro | https://www.bermudezherrera.edu:9443

Aplicaciones Aula Virtual GitHub GH Dashboard css2sass | Con... Proyecto final... k Kaggle: Your... FlexBox CodeShare » Lista de lectura

La conexión no es privada

Es posible que los atacantes estén intentando robar tu información de **www.bermudezherrera.edu** (por ejemplo, contraseñas, mensajes o tarjetas de crédito).

Más información

NET::ERR_CERT_AUTHORITY_INVALID

💡 Para disfrutar del máximo nivel de seguridad en Chrome, activa la protección mejorada.

Configuración avanzada   Volver para estar a salvo

Curso: Despliegue de Apli × | DAW: U1_T1: Configuraci × | localhost:8080/~sebasde × | Apache × +

← → C ⚠ No es seguro | https://www.bermudezherrera.edu:9443

Aplicaciones Aula Virtual GitHub GH Dashboard css2sass | Con... Proyecto final... k Kaggle: Your... FlexBox CodeShare » Lista de lectura
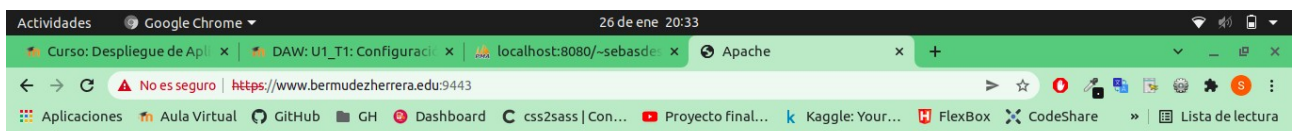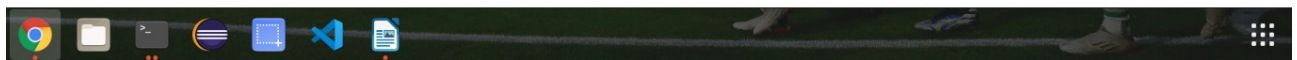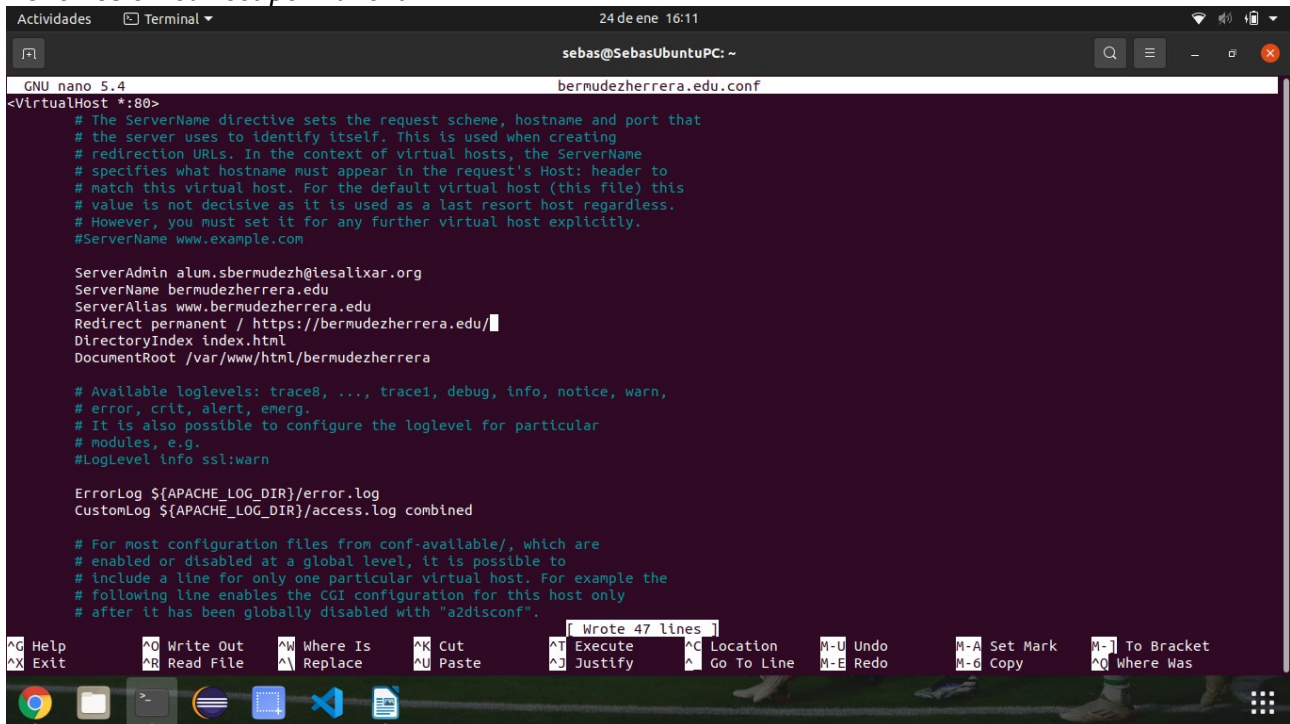
SEBASDESPLIEGUE

Hola desde /var/www/html/bermudezherrera/index.html
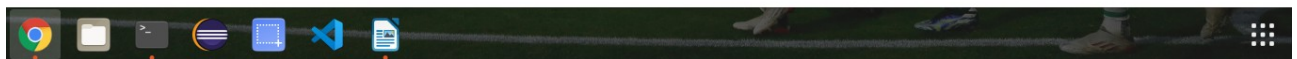
Ponemos el redirect permanent

Accedemos http://www.bermudezherrera.edu/8080 *y nos dirige al puerto 9443.*

SEBASDESPLIEGUE

Hola desde /var/www/html/bermudezherrera/index.html