

Ciclo: **DAW** Módulo: **Despliegue de aplicaciones web** Grupo: **742A**  
Fecha: **03/02/2025** Prueba Específica: **Parcia segunda evaluación**  
Alumno/a Víctor García Murillo.....

**3 - Ejercicios prácticos** (5 puntos) La entrega consistirá en un pdf que tenga capturas de pantalla justificando lo solicitado. Se os proporcionará lo siguiente:

- Ova con Ubuntu Server 24.04.
- Ova con Ubuntu Desktop.

Los puntos a realizar son:

FTP (1,5 puntos):

1. Instala FTP pasivo en el servidor de Linux que permita unos puertos entre el 12000 y el 12300 (0,5 puntos)

```
GNU nano 7.2 /etc/vsftpd.conf *
# files.
listen_ipv6=YES
#
# Allow anonymous FTP? (Disabled by default).
anonymous_enable=NO
#
# Uncomment this to allow local users to log in.
local_enable=YES
#
# Uncomment this to enable any form of FTP write command.
write_enable=YES

# Puertos permitidos
pasv_enable=YES
pasv_min_port=12000
pasv_max_port=12300
```

2. Añade un usuario llamado daw2025 y limita el ftp para que solo puedan ver su propio directorio chroot (0,25 puntos).

```
examen@examenubuntuserver:~$ sudo adduser daw2025
info: Adding user `daw2025' ...
info: Selecting UID/GID from range 1000 to 59999 ...
info: Adding new group `daw2025' (1001) ...
info: Adding new user `daw2025' (1001) with group `daw2025 (1001)' ...
info: Creating home directory `/home/daw2025' ...
info: Copying files from `/etc/skel' ...
New password:
BAD PASSWORD: No password supplied
Retype new password:
No password has been supplied.
passwd: Authentication token manipulation error
passwd: password unchanged
Try again? [y/N]
Changing the user information for daw2025
Enter the new value, or press ENTER for the default
Full Name []:
```

```

GNU nano 7.2 /etc/vsftpd.conf *
#banned_email_file=/etc/vsftpd.banned_emails
#
# You may restrict local users to their home directories. See the FAQ for
# the possible risks in this before using chroot_local_user or
# chroot_list_enable below.
chroot_local_user=YES
allow_writeable_chroot=YES
#
# You may specify an explicit list of local users to chroot() to their home

examen@examenubuntuserver:~$ sudo systemctl enable vsftpd.service && sudo system
ctl restart vsftpd.service
Synchronizing state of vsftpd.service with SysV service script with /usr/lib/sys
temd/systemd-sysv-install.
Executing: /usr/lib/systemd/systemd-sysv-install enable vsftpd
examen@examenubuntuserver:~$ sudo systemctl status vsftpd.service
● vsftpd.service - vsftpd FTP server
   Loaded: loaded (/usr/lib/systemd/system/vsftpd.service; enabled; preset: ena
   Active: active (running) since Mon 2025-02-03 12:08:28 UTC; 18s ago
   Process: 27252 ExecStartPre=/bin/mkdir -p /var/run/vsftpd/empty (code=exite
   Main PID: 27255 (vsftpd)
      Tasks: 1 (limit: 2269)
     Memory: 708.0K (peak: 1.5M)
          CPU: 7ms
       CGroup: /system.slice/vsftpd.service
              └─27255 /usr/sbin/vsftpd /etc/vsftpd.conf

feb 03 12:08:28 examenubuntuserver systemd[1]: Starting vsftpd.service - vsftpd
feb 03 12:08:28 examenubuntuserver systemd[1]: Started vsftpd.service - vsftpd
lines 1-13/13 (END)

```

### 3. Comprueba que funciona por comandos (0,75)

Al intentar acceder con el usuario daw2025 no me deja, pero con el usuario administrador sí.

```

examen@examenubuntuserver:~$ ftp 10.0.2.15
Connected to 10.0.2.15.
220 (vsFTPd 3.0.5)
Name (10.0.2.15:examen): examen
331 Please specify the password.
Password:
230 Login successful.
Remote system type is UNIX.
Using binary mode to transfer files.
ftp> ls
229 Entering Extended Passive Mode (|||12199|)
150 Here comes the directory listing.
drwxr-xr-x  2 1000    1000          4096 Jan 19 17:25 Desktop
drwxr-xr-x  2 1000    1000          4096 Jan 19 17:25 Documents
drwxr-xr-x  2 1000    1000          4096 Jan 19 17:25 Downloads
drwxr-xr-x  2 1000    1000          4096 Jan 19 17:25 Music
drwxr-xr-x  2 1000    1000          4096 Jan 19 17:25 Pictures
drwxr-xr-x  2 1000    1000          4096 Jan 19 17:25 Public
drwxr-xr-x  2 1000    1000          4096 Jan 19 17:25 Templates
drwxr-xr-x  2 1000    1000          4096 Jan 19 17:25 Videos
-rw-rw-r--  1 1000    1000          1320 Dec 22 19:10 jcameron-key.asc
drwx-----  3 1000    1000          4096 Feb 03 12:19 snap
226 Directory send OK.

```

## HTTP/HTTPS (3,5 puntos)

1. Instala en Ubuntu server el servicio de Apache (0,25 puntos)

```
examen@examenubuntuserver:~$ sudo apt install apache2 -y
Leyendo lista de paquetes... Hecho
Creando árbol de dependencias... Hecho
Leyendo la información de estado... Hecho
apache2 ya está en su versión más reciente (2.4.58-1ubuntu8.5).
El paquete indicado a continuación se instaló de forma automática y ya no es necesario.
  libllvm17t64
Utilice «sudo apt autoremove» para eliminarlo.
0 actualizados, 0 nuevos se instalarán, 0 para eliminar y 0 no actualizados.
```

```
examen@examenubuntuserver:~$ sudo ufw allow "Apache"
Rules updated
Rules updated (v6)
```

```
examen@examenubuntuserver:~$ sudo systemctl restart apache2 && sudo systemctl status apache2
● apache2.service - The Apache HTTP Server
   Loaded: loaded (/usr/lib/systemd/system/apache2.service; enabled; preset: yes)
   Active: active (running) since Mon 2025-02-03 12:17:33 UTC; 19ms ago
     Docs: https://httpd.apache.org/docs/2.4/
   Process: 28895 ExecStart=/usr/sbin/apachectl start (code=exited, status=0/SUCCESS)
   Main PID: 28900 (apache2)
    Tasks: 55 (limit: 2269)
   Memory: 5.3M (peak: 5.5M)
      CPU: 14ms
   CGroup: /system.slice/apache2.service
           └─28900 /usr/sbin/apache2 -k start
             └─28901 /usr/sbin/apache2 -k start
               └─28904 /usr/sbin/apache2 -k start

feb 03 12:17:33 examenubuntuserver systemd[1]: Starting apache2.service - The Apache HTTP Server:
feb 03 12:17:33 examenubuntuserver apachectl[28899]: AH00558: apache2: Could not reliably determine the server's fully qualified domain name, using 127.0.0.1. Set the 'ServerName' directive globally to suppress this message
feb 03 12:17:33 examenubuntuserver systemd[1]: Started apache2.service - The Apache HTTP Server:
lines 1-17/17 (END)
```

2. Incluye un Virtualhost adicional al que se pueda acceder desde el puerto 3535 y cuya carpeta en el ubuntu sea /var/www/html/examen. Crea un index.html dentro de esa carpeta y visualízalo desde un navegador web a través de HTTP. (1,25 puntos)

```
GNU nano 7.2 /etc/apache2/ports.conf *
# If you just change the port or add more ports here, you
# have to change the VirtualHost statement in
# /etc/apache2/sites-enabled/000-default.conf

Listen 80
Listen 3535
```

```

GNU nano 7.2 /etc/apache2/sites-available/examen.conf *
<VirtualHost *:3535>
    # The ServerName directive sets the request scheme, hostname
    # the server uses to identify itself. This is used when cre
    # redirection URLs. In the context of virtual hosts, the Se
    # specifies what hostname must appear in the request's Host
    # match this virtual host. For the default virtual host (th
    # value is not decisive as it is used as a last resort host
    # However, you must set it for any further virtual host exp
    #ServerName www.example.com

    ServerName ExamenVictor
    DocumentRoot /var/www/html/examen
  
```

```

examen@examenubuntuserver:~$ ls /var/www/html/examen/index.html
/var/www/html/examen/index.html
  
```

```

examen@examenubuntuserver:/etc/apache2/sites-available$ sudo a2ensite examen.conf
Enabling site examen.
To activate the new configuration, you need to run:
    systemctl reload apache2
  
```



3. Sigue los pasos necesarios para que ese contenido únicamente sea accedido introduciendo el usuario examen y la contraseña 1234 (mediante htaccess y htpasswd) (1 punto)

```

GNU nano 7.2 .htaccess
AuthType Basic
AuthName "Este directorio está protegido para el examen"
AuthUserFile .htpasswd
Require valid-user
  
```

```

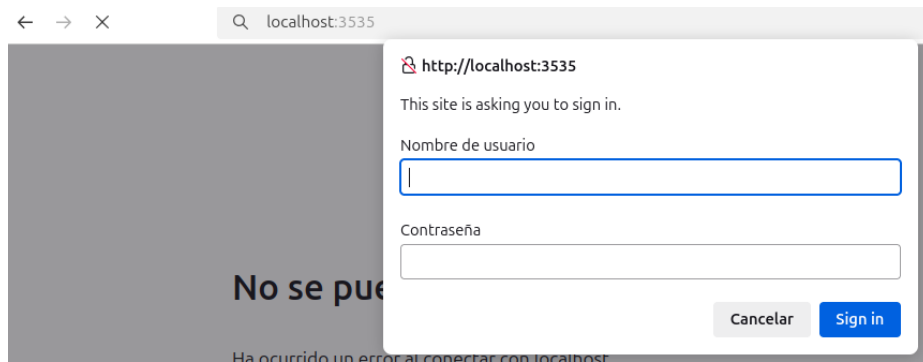
examen@examenubuntuserver:/var/www/html/examen$ ls -an
total 24
drwxr-xr-x 2 0 0 4096 feb  3 12:39 .
drwxr-xr-x 3 0 0 4096 feb  3 12:29 ..
-rw-r--r-- 1 0 0  115 feb  3 12:38 .htaccess
-rw-r--r-- 1 0 0 10665 feb  3 12:33 index.html
  
```

```
GNU nano 7.2 /etc/apache2/apache2.conf *

# Sets the default security model of the Apache2 HTTPD server. It does
# not allow access to the root filesystem outside of /usr/share and /var/www.
# The former is used by web applications packaged in Debian,
# the latter may be used for local directories served by the web server. If
# your system is serving content from a sub-directory in /srv you must allow
# access here, or in any related virtual host.
<Directory /var/www/html/examen>
    Options Indexes FollowSymLinks
    AllowOverride All
    Require all granted
</Directory>
```

```
examen@examenubuntuserver:~$ htpasswd -n examen
New password:
Re-type new password:
examen:$apr1$4CjmjXL$JzrqJMTFgrckqjIdIA7WF1
```

```
GNU nano 7.2 /etc/apache2/.htpasswd
examen:$apr1$4CjmjXL$JzrqJMTFgrckqjIdIA7WF1
```



 http://localhost:3535

This site is asking you to sign in.

Nombre de usuario

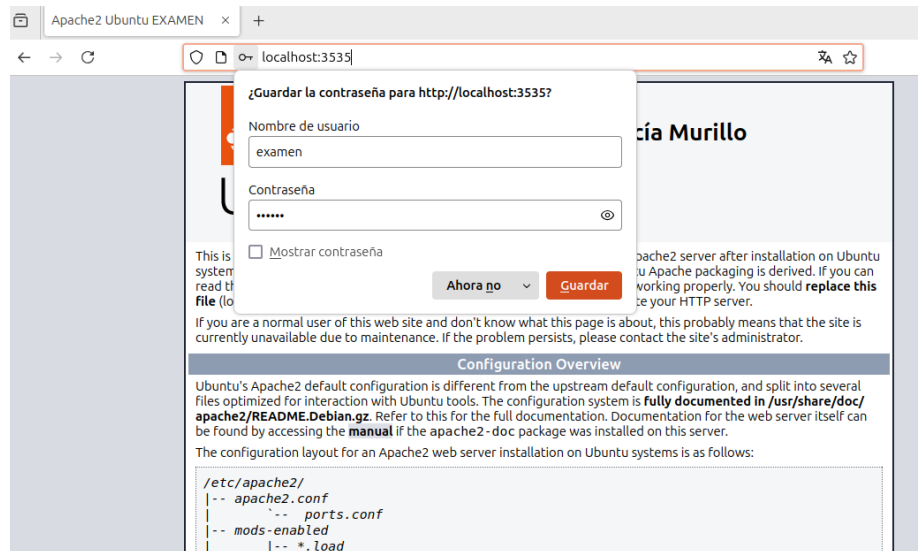
examen

Contraseña

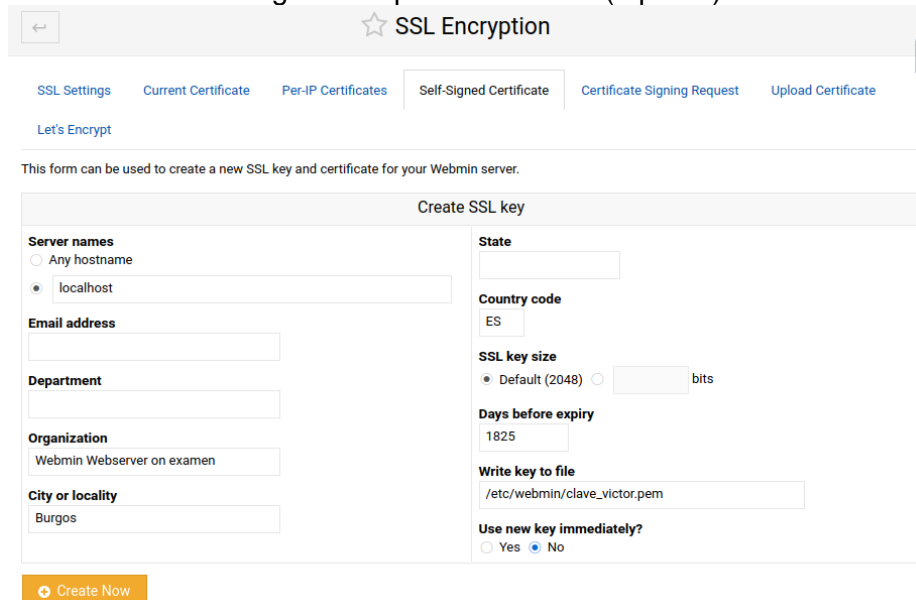
examen

Cancelar

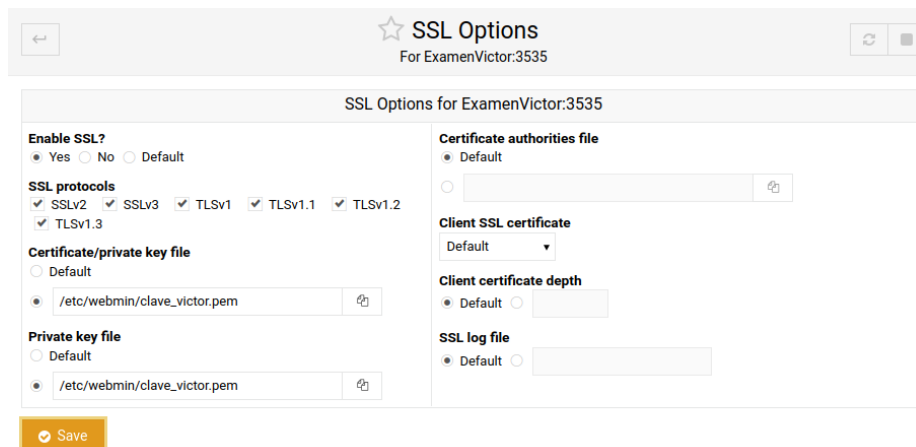
Sign in



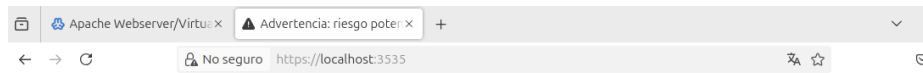
4. Crea un certificado SSL y configura Apache para que pueda utilizarlo. Muestra cómo desde el navegador se puede acceder: (1 punto)



SSL Encryption  
 SSL Settings Current Certificate Per-IP Certificates Self-Signed Certificate Certificate Signing Request Upload Certificate  
 Let's Encrypt  
 This form can be used to create a new SSL key and certificate for your Webmin server.  
**Create SSL key**  
 Server names  
☐ Any hostname  
☒ localhost  
 Email address  
 Department  
 Organization  
 Webmin Webserver on examen  
 City or locality  
 Burgos  
 State  
 Country code  
 ES  
 SSL key size  
☒ Default (2048) ☐ bits  
 Days before expiry  
 1825  
 Write key to file  
 /etc/webmin/clave\_victor.pem  
 Use new key immediately?  
☐ Yes ☒ No  
 Create Now



SSL Options  
 For ExamenVictor:3535  
**SSL Options for ExamenVictor:3535**  
 Enable SSL?  
☒ Yes ☐ No ☐ Default  
 SSL protocols  
☒ SSLv2 ☒ SSLv3 ☒ TLSv1 ☒ TLSv1.1 ☒ TLSv1.2  
☒ TLSv1.3  
 Certificate/private key file  
☐ Default  
☒ /etc/webmin/clave\_victor.pem  
 Private key file  
☐ Default  
☒ /etc/webmin/clave\_victor.pem  
 Certificate authorities file  
☒ Default  
☐   
 Client SSL certificate  
 Default  
 Client certificate depth  
☒ Default ☐   
 SSL log file  
☒ Default ☐   
 Save



## Advertencia: riesgo potencial de seguridad a continuación

Firefox ha detectado una posible amenaza de seguridad y no ha cargado **localhost**. Si visita este sitio, los atacantes podrían intentar robar información como sus contraseñas, correos electrónicos o detalles de su tarjeta de crédito.

[Más información...](#)

Retroceder (recomendado)

Avanzado...

