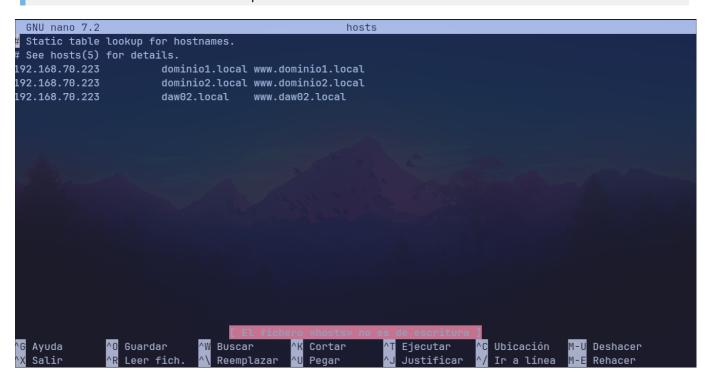
# Actividades Unidad 02

1. Configurar un host virtual basado en nombres denominado daw02 que permita el acceso a una página web localizada en el directorio tododaw02. Hacerla accesible a través de las siguientes URL que identifican a la empresa: www.daw02.local y daw02.local.

Paso 1:

Modificamos el host de nuestra máquina local



### Paso 2:

Creamos el directorio para daw02.local sudo mkdir -p /var/www/html/todo-daw02/public html



# Paso 3:

Creamos el index.html para dicho dominio

## Paso 4:

Damos permisos al usuario www-data sudo chown -R www-data: /var/www/html/todo-daw02



# Paso 5:

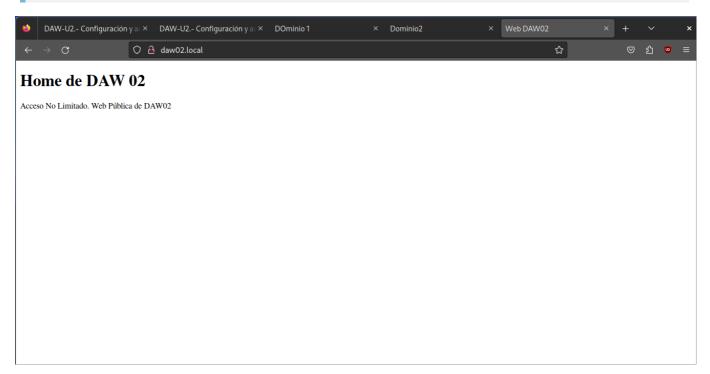
Creamos el archivo de conf para el dominio sudo nano /etc/apache2/sites-available/daw02.local.conf

# Paso 6:

Habilitamos el sitio con sudo a2ensite y realizamos el configTest

#### Paso 7:

Desde el navegador de nuestra máquina principal entramos a la dirección daw02.local



# 2.Permitir el protocolo HTTPS en el host virtual daw02 y comprobar que funciona.

#### Paso 1:

Activamos el modulo SSL a2enmod ssl y reiniciamos apache2. Instalamos openssl. Creamos el certificado y lo autofirmamos.

```
sc@ubuntuserver:/etc/apache2/cert-ssl$ ls
741253f3.0 apache.pem empresaRoger.csr roger.crt roger.key
rsc@ubuntuserver:/etc/apache2/cert–ssl$ sudo openssl req –new –nodes –keyout daw02.key –out daw02.cs
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]:Granada
Locality Name (eg, city) []:Granada
Organization Name (eg, company) [Internet Widgits Pty Ltd]:DAWO2
Organizational Unit Name (eg, section) []:SL
Common Name (e.g. server FQDN or YOUR name) []:dawO2
Email Address []:dawO2@daw.es
Please enter the following 'extra' attributes
to be sent with your certificate request
A challenge password []:1234
An optional company name []:DAWO2ALT
rsc@ubuntuserver:/etc/apache2/cert–ss1$ ls
741253f3.O apache.pem dawO2.csr dawO2.key empresaRoger.csr roger.crt roger.key
 sc@ubuntuserver:/etc/apache2/cert-ss1$ _
```

```
rsc@ubuntuserver:/etc/apache2/cert-ssl$ ls
741259f3.0 apache.pem daw02.csr daw02.key empresaRoger.csr roger.crt roger.key
rsc@ubuntuserver:/etc/apache2/cert-ssl$ sudo openssl x509 daw02.csr -out daw02.crt -req -signkey da
w02.key -days 3650
x509: Use -help for summary.
rsc@ubuntuserver:/etc/apache2/cert-ssl$ sudo openssl x509 -in daw02.csr -out daw02.crt -req -signkey
daw02.key -days 3650
Certificate request self-signature ok
subject=C = ES, ST = Granada, L = Granada, O = DAW02, OU = SL, CN = daw02, emailAddress = daw02@daw.
es
rsc@ubuntuserver:/etc/apache2/cert-ssl$ _

**Roger***
**Roger***
**Roger***
**Roger***
**Roger***
**Roger***
**Roger***
**Roger**
*
```

#### Paso 2:

Creamos el archivo para el sitio daw02-ssl. y añadimos el certificado y la clave privada.

```
GNU nano 6.2
                                 /etc/apache2/sites-available/daw02-ssl.conf
≼IfModule mod_ssl.c>
        <VirtualHost *:443>
                DocumentRoot /var/www/html/todo-daw02/public_html
                 ServerName daw02.local
                ServerAlias www.daw02.local
                 # 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
                 # 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
                     SSL Engine Switch:
                    Enable/Disable SSL for this virtual host.
                SSLEngine on
                     A self-signed (snakeoil) certificate can be created by installing
                     the ssl-cert package. See
                     /usr/share/doc/apache2/README.Debian.gz for more info.
                SSLCertificateFile
                                          /etc/apache2/cert-ss1/daw02.crt
                 SSLCertificateKeyFile /etc/apache2/cert-ssl/daw02.key
                                           [ Read 133 lines ]
                 Write Out
                                Where Is
                                                               Execute
                                                                           °C Location
                                                                                          M-U
                                                                                              Undo
  Help
                                               Cut
                 Read File
   Exit
                                 Replace
                                                Paste
                                                               Justify
                                                                              Go To Line
                                                                                              Redo
```

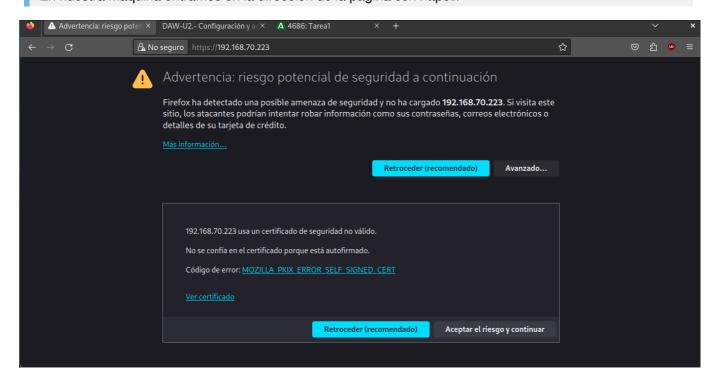
#### Paso 3:

Habilitamos el soporte SSL y el sitio daw02-ssl. Reiniciamos apache.

```
rsc@ubuntuserver:~$ sudo a2ensite dawO2–ssl.conf
Enabling site daw02–ssl.
To activate the new configuration, you need to run:
 systemctl reload apache2
 rsc@ubuntuserver:~$ sudo systemctl reload apache2
Job for apache2.service failed.
See "systemctl status apache2.service" and "journalctl –xeu apache2.service" for details.
 sc@ubuntuserver:~$ sudo systemctl status apache2
  apache2.service – The Apache HTTP Server
Loaded: loaded (/lib/systemd/system/apache2.service; enabled; vendor preset: enabled)
      Active: active (running) since Mon 2023-10-23 08:47:47 UTC; 4min 4s ago
        Docs: https://httpd.apache.org/docs/2.4/
     Process: 634 ExecStart=/usr/sbin/apachectl start (code=exited, status=0/SUCCESS)
   Process: 1195 ExecReload=/usr/sbin/apachectl graceful (
Main PID: 792 (apache2)
Tasks: 6 (limit: 2221)
      Memory: 35.4M
          CPU: 453ms
      CGroup: /system.slice/apache2.service
                  –792 /usr/sbin/apache2 –k start
–918 /usr/sbin/apache2 –k start
–919 /usr/sbin/apache2 –k start
                   -920 /usr/sbin/apache2 –k start
                   921 /usr/sbin/apache2 –k start
                   -922 /usr/sbin/apache2 –k start
oct 23 08:47:28 ubuntuserver systemd[1]: Starting The Apache HTTP Server...
oct 23 08:47:46 ubuntuserver apachect1[667]: AHOO558: apache2: Could not reliably determine the ser>
oct 23 08:47:47 ubuntuserver systemd[1]: Started The Apache HTTP Server.
oct 23 08:51:39 ubuntuserver systemd[1]: Reloading The Apache HTTP Server...
oct 23 08:51:39 ubuntuserver apachectl[1198]: AH00526: Syntax error on line 8 of /etc/apache2/ports>
oct 23 08:51:39 ubuntuserver apachectl[1198]: Cannot define multiple Listeners on the same IP:port
oct 23 08:51:39 ubuntuserver apachectl[1195]: Action 'graceful' failed.
oct 23 08:51:39 ubuntuserver apachectl[1195]: The Apache error log may have more information.
oct 23 08:51:39 ubuntuserver systemd[1]: apache2.service: Control process exited, code=exited, stat>
oct 23 08:51:39 ubuntuserver systemd[1]:
 °sc@ubuntuserver:~$ _
```

#### Paso 4:

En nuestra máquina entramos en la dirección de la pagina con https://



Aceptamos y veremos la web.

