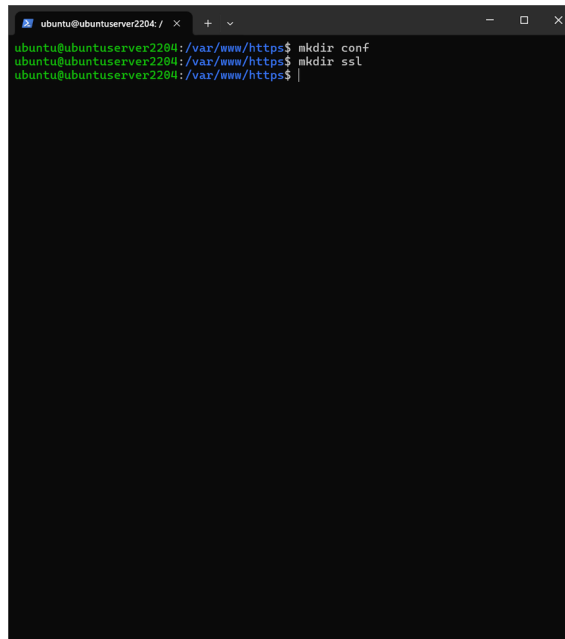


Despliegue aplicaciones web - Anton Blagodarnyy

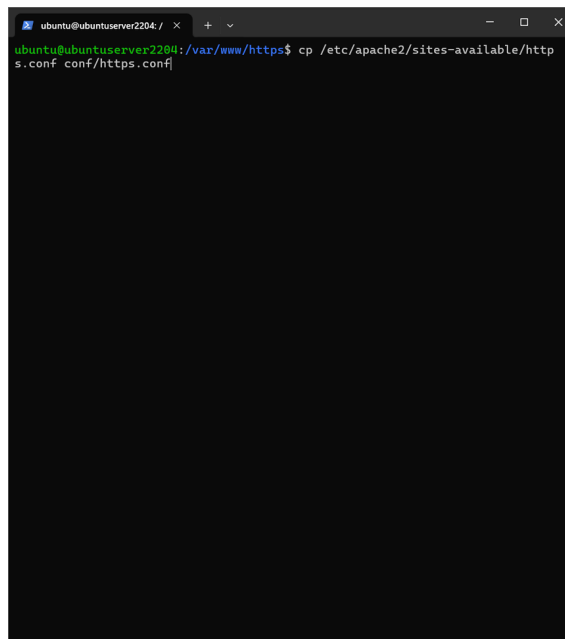
Tarea 3 _ Tema 2

1.-Creamos las carpetas que van a contener la clave y la configuración.



```
ubuntu@ubuntu2204: /var/www/https$ mkdir conf
ubuntu@ubuntu2204: /var/www/https$ mkdir ssl
ubuntu@ubuntu2204: /var/www/https$
```

2.-Copiamos el archivo de configuración.



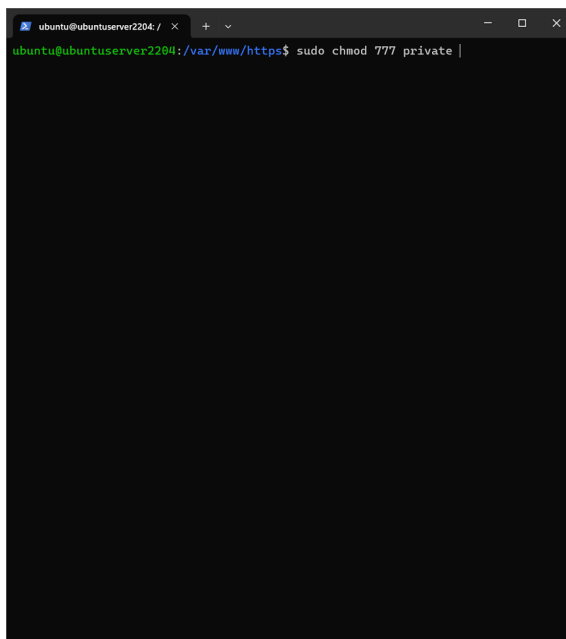
```
ubuntu@ubuntu2204: /var/www/https$ cp /etc/apache2/sites-available/httpd.conf conf/https.conf
ubuntu@ubuntu2204: /var/www/https$
```

3.-Copiamos el certificado y su clave. NOTA:La ruta del comando no corresponde con la ruta de la clave por que hice la captura del comando después de hacer un clear después de haberlo ejecutado.

```
ubuntu@ubuntu-server2204: / x + v - □ x
ubuntu@ubuntu-server2204: /var/www/https$ cp apache-selfsigned.crt /var/www/https/ssl
```

```
ubuntu@ubuntu-server2204: / x + v - □ x
ubuntu@ubuntu-server2204: /var/www/https$ cp apache-selfsigned.key /var/www/https/ssl
```

4.-Para poder acceder a la carpeta con el certificado debemos de cambiar los permisos de la misma.



```
ubuntu@ubuntu2204: /$ sudo chmod 777 private |
```

6.-Redactamos el dockerfile.



```
GNU nano 6.2 Dockerfile
# Usa como base la misma versión de Ubuntu que la VM
FROM ubuntu:22.04

# Información del mantenedor
LABEL maintainer="USUARIO_DOCKER_HUB"

# Actualización del sistema e instalación de Apache, OpenSSL, PHP y módulos
RUN apt-get update && apt-get install -y \
    apache2 \
    libapache2-mod-ssl \
    openssl \
    apache2-utils \
    php \
    libapache2-mod-php \
    php-mysql \
    && apt-get clean

# Crear directorios necesarios
RUN mkdir -p /var/www/https/Raiz /var/www/https/Raiz/vips \
    && mkdir -p /usr/local/apache/passwd

# Copiar los archivos de configuración y SSL al contenedor
COPY ./conf/https.conf /etc/apache2/sites-available/https.conf
COPY ./ssl/certificate.crt /etc/ssl/certs/apache-selfsigned.crt
COPY ./ssl/private.key /etc/ssl/private/apache-selfsigned.key

# Configuración de autenticación básica
RUN htpasswd -cb /usr/local/apache/passwd/passwords username password && \
    echo "GroupName: username" > /usr/local/apache/passwd/groups

# Habilitar módulos necesarios, soporte PHP y la configuración de HTTPS
RUN a2enmod ssl rewrite headers auth_basic php7.4 && \
    a2ensite https.conf && \
    a2dissite 000-default.conf

# Exponer puertos HTTP y HTTPS
EXPOSE 80 443

# Copiar el contenido del sitio web
```

```
ubuntu@ubuntu2204: / x + Dockerfile
GNU nano 6.2
libapache2-mod-ssl \
openssl \
apache2-utils \
php \
libapache2-mod-php \
php-mysql \
&& apt-get clean

# Crear directorios necesarios
RUN mkdir -p /var/www/https/Raiz /var/www/https/Raiz/vips \
&& mkdir -p /usr/local/apache/passwd

# Copiar los archivos de configuración y SSL al contenedor
COPY ./conf/https.conf /etc/apache2/sites-available/https.conf
COPY ./ssl/certificate.crt /etc/ssl/certs/apache-selfsigned.crt
COPY ./ssl/private.key /etc/ssl/private/apache-selfsigned.key

# Configuración de autenticación básica
RUN htpasswd -cb /usr/local/apache/passwd/passwords username password && \
echo "GroupName: username" > /usr/local/apache/passwd/groups

# Habilitar módulos necesarios, soporte PHP y la configuración de HTTPS
RUN a2enmod ssl rewrite headers auth_basic php7.4 && \
a2ensite https.conf && \
a2dissite 000-default.conf

# Exponer puertos HTTP y HTTPS
EXPOSE 80 443

# Copiar el contenido del sitio web
COPY ./Raiz /var/www/https/Raiz

# Ajustar permisos y propietario de los directorios
RUN chown -R www-data:www-data /var/www/https && \
chmod -R 755 /var/www/https

# Comando por defecto para ejecutar Apache en primer plano
CMD ["apachectl", "-D", "FOREGROUND"]

Help Write Out Where Is Cut Execute
Exit Read File Replace Paste Justify
```

7.-Hacemos el build y ejecutamos el contenedor y vemos que funciona con el servidor propio de apache desactivado.

```
ubuntu@ubuntu2204: / x +
unpause Unpause all processes within one or more containers
update Update configuration of one or more containers
wait Block until one or more containers stop, then print their exit codes

Global Options:
--config string Location of client config files (default "/home/ubuntu/.docker")
-c, --context string Name of the context to use to connect to the daemon (overrides
DOCKER_HOST env var and default context set with "docker context use")
-D, --debug Enable debug mode
-H, --host list Daemon socket to connect to
-l, --log-level string Set the logging level ("debug", "info", "warn", "error", "fatal")
(default "info")
--tls Use TLS; implied by --tlsverify
--tlscacert string Trust certs signed only by this CA (default
"/home/ubuntu/.docker/ca.pem")
--tlscert string Path to TLS certificate file (default "/home/ubuntu/.docker/cert.pem")
--tlskey string Path to TLS key file (default "/home/ubuntu/.docker/key.pem")
--tlsverify Use TLS and verify the remote
-v, --version Print version information and quit

Run 'docker COMMAND --help' for more information on a command.

For more help on how to use Docker, head to https://docs.docker.com/go/guides/

ubuntu@ubuntu2204:/var/www/https$ docker build -t antonlagodarnyy .
[+] Building 1.9s (17/17) FINISHED
=> [internal] load build definition from Dockerfile 0.0s
=> => transferring dockerfile: 1.33kB 0.0s
=> [internal] load metadata for docker.io/library/php:8.1-apache 0.0s
=> [auth] library/php:pull token for registry-1.docker.io 0.0s
=> [internal] load dockerignore 0.0s
=> transferring context: 2B 0.0s
=> [1/11] FROM docker.io/library/php:8.1-apache@sha256:c8c9f3429a44974cdef762ddee7b99a97a61ea 0.0s
=> [internal] load build context 0.0s
=> transferring context: 2.81kB 0.0s
=> CACHED [ 2/11] WORKDIR /var/www/https/Raiz/ 0.0s
=> CACHED [ 3/11] RUN a2enmod ssl && a2enmod rewrite && a2enmod authz_groupfile 0.0s
=> [ 4/11] COPY conf/https.conf /etc/apache2/sites-available/https.conf 0.0s
=> [ 5/11] COPY ssl/apache-selfsigned.crt /var/www/https/ssl/apache-selfsigned.crt 0.0s
=> [ 6/11] COPY ssl/apache-selfsigned.key /var/www/https/ssl/apache-selfsigned.key 0.0s
=> [ 7/11] COPY Raiz/ /var/www/https/Raiz/ 0.0s
=> [ 8/11] RUN chown -R www-data:www-data /var/www/https/Raiz/ && chmod -R 755 /var/www/ht 0.2s
=> [ 9/11] RUN echo "ServerName localhost" >> /etc/apache2/apache2.conf && echo "SSLUseSta 0.2s
=> [10/11] RUN a2dissite 000-default.conf 0.2s
=> [11/11] RUN a2ensite https.conf 0.2s
=> exporting to image 0.1s
=> exporting layers 0.1s
=> writing image sha256:e329aba54743e4af2bd822698d97ba398207bd51e4baefb3c98b8fb392e159a 0.0s
=> naming to docker.io/library/antonlagodarnyy 0.0s
ubuntu@ubuntu2204:/var/www/https$ docker run -d -p 443:443 --name antonlagodarnyy antonlagodarnyy
ff5391a4aafed9221a86c372c9ac1133b589f7363bd24ae789b1777a818d93fa
ubuntu@ubuntu2204:/var/www/https$
```

2772 Apache Chestnut ChatGPT Como usar el comando Pagina principal

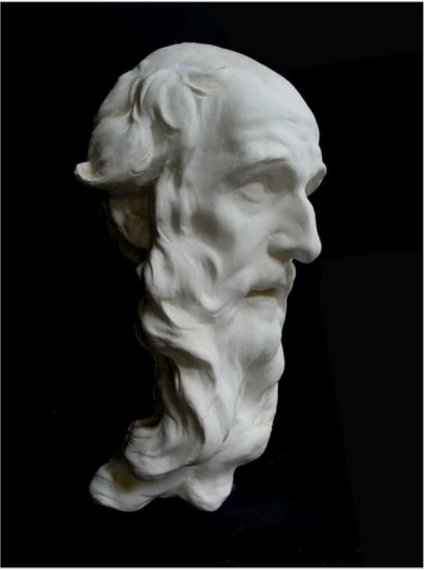
No es seguro https://192.168.56.101

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Welcome

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8.-NOTA:Despues de ejecutar el contenedor por primera vez me daba errores el certificado y los modulos por lo que tuve que modificar los archivos:

-https.conf:

```
GNU nano 6.2 conf/https.conf
#VirtualHost *:443>
# The ServerName directive sets the request scheme, hostname and port that
# the server uses to identify itself. This is used when creating
# redirection URLs. In the context of virtual hosts, the ServerName
# specifies what hostname must appear in the request's Host: header to
# match this virtual host. For the default virtual host (this file) this
# value is not decisive as it is used as a last resort host regardless.
# However, you must set it for any further virtual host explicitly.
#ServerName www.example.com
ServerName www.https.com
ServerAlias www.https.edu

ServerAdmin webmaster@localhost
DocumentRoot /var/www/https/Raiz

<Directory /var/www/https>
    Options +Indexes
    RewriteEngine On
    RewriteBase /
    RewriteRule "buscar/([a-z]+) index.php?buscar=$1
</Directory>

<Directory /var/www/https/Raiz>
    Options +Indexes
    AllowOverride All
    Require all granted
</Directory>

<Directory /var/www/https/Raiz/vips>
    AuthType Basic
    AuthName "By Invitation Only"
    AuthBasicProvider file
    AuthUserFile "/usr/local/apache/passwd/passwords"
    AuthGroupFile "/usr/local/apache/passwd/groups"
    Require group GroupName
</Directory>

SSLEngine on
SSLCertificateFile /var/www/https/ssl/apache-selfsigned.crt
SSLCertificateKeyFile /var/www/https/ssl/apache-selfsigned.key

SSLUseStapling off

# 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.
```

-Dockerfile:

```
GNU nano 6.2 Dockerfile
# Imagen base de Apache con soporte para PHP
FROM php:8.1-apache

# Establecer el directorio de trabajo
WORKDIR /var/www/https/Raiz/

# Habilitar módulos necesarios de Apache
RUN a2enmod ssl \
    && a2enmod rewrite \
    && a2enmod authz_groupfile

# Copiar configuración personalizada del sitio web
COPY conf/https.conf /etc/apache2/sites-available/https.conf

# Copiar certificados SSL al directorio correspondiente
COPY ssl/apache-selfsigned.crt /var/www/https/ssl/apache-selfsigned.crt
COPY ssl/apache-selfsigned.key /var/www/https/ssl/apache-selfsigned.key

# Copiar los archivos de la página web al directorio raíz configurado
COPY Raiz/ /var/www/https/Raiz/

# Ajustar permisos para que Apache pueda acceder a los archivos
RUN chown -R www-data:www-data /var/www/https/Raiz/ \
    && chmod -R 755 /var/www/https/Raiz/

# Configuración adicional de Apache
RUN echo "ServerName localhost" >> /etc/apache2/apache2.conf \
    && echo "SSLUseStapling off" >> /etc/apache2/conf-available/ssl-params.conf

# Habilitar el sitio por defecto y deshabilitar el sitio 000-default
RUN a2dissite 000-default.conf

# Habilitar el archivo de configuración del sitio
RUN a2ensite https.conf

# Exponer el puerto 443 para HTTPS
EXPOSE 443

# Comando para iniciar Apache
CMD ["apache2-foreground"]
```

9.-Push del contenedor a dockerhub:

```
ubuntu@ubuntu-server2204:/var/www/html$ docker tag antonblagodarnyy/antonblagodarnyy:latest
ubuntu@ubuntu-server2204:/var/www/html$ docker push antonblagodarnyy/antonblagodarnyy:latest
invalid reference format
Command 'latest' not found, did you mean:
  command 'atest' from deb direwolf (1.6+dfsg-2)
  command 'lptest' from deb lpr (1:2008.05.17.3+nmu1)
  command 'aatest' from deb libaa-bin (1.4p5-50build1)
  command 'l2test' from deb bluez (5.64-0ubuntu1.3)
Try: sudo apt install <deb name>
ubuntu@ubuntu-server2204:/var/www/html$ docker push antonblagodarnyy/antonblagodarnyy:latest
The push refers to repository [docker.io/antonblagodarnyy/antonblagodarnyy]
4c9092872524: Pushed
35298470b2ab: Pushed
292d9de3aea9: Pushed
15286f17711b: Pushed
ad8dea353028: Pushed
0414c5021d0d: Pushed
481659acf161: Pushed
fb887cb2e6b5: Pushed
13d74af481ac: Pushed
97fd4950272d: Pushed
5f70bf18a086: Mounted from library/php
201072fdce5f: Mounted from library/php
637f81b233dc: Mounted from library/php
3c258c1b43c5: Mounted from library/php
3dcfd973cae4: Mounted from library/php
3c94897215de: Mounted from library/php
daa3a103d4ee: Mounted from library/php
0ccc536f9eaf: Mounted from library/php
9b9b275393b8: Mounted from library/php
f5424978e85c: Mounted from library/php
67d5a3d34aa5: Mounted from library/php
393e289fd64b: Mounted from library/php
c220e4431a69: Mounted from library/php
c0f1022b22a9: Mounted from library/php
latest: digest: sha256:0560d68ac696e88136e44685e6f0b88de8e92892c191130c734baabb42ce28df size: 5320
ubuntu@ubuntu-server2204:/var/www/html$
```

10.-Contenedor subido:

<https://hub.docker.com/repository/docker/antonblagodarnyy/antonblagodarnyy/general>

The screenshot shows the Docker Hub interface for the repository `antonblagodarnyy/antonblagodarnyy`. The page includes a navigation bar with tabs for General, Tags, Builds, Collaborators, Webhooks, and Settings. The 'General' tab is active, displaying the repository name, a 'Public view' button, and a 'Docker commands' section with the command `docker push antonblagodarnyy/antonblagodarnyy:tagname`. Below this, the 'Tags' section shows a table with one tag, 'latest', which is an 'Image' type, pushed '3 minutes ago'. The 'Automated builds' section is also visible, along with a 'Repository overview' section at the bottom.

Tag	OS	Type	Pulled	Pushed
latest		Image	2 minutes ago	3 minutes ago