Despliegue de Aplicaciones Web.

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# Práctica 5.4: Ficheros de configuración y directivas en Windows

En esta práctica analizaremos los principales ficheros de configuración y el valor de algunas directivas del servidor web Apache 2.2 instalado en la máquina ServidorW2008XX o ServidorW2012XX.

1. Ficheros de configuración

1.1. Inicia sesión con un usuario con privilegios de administrador en ServidorW2008XX/2012XX.
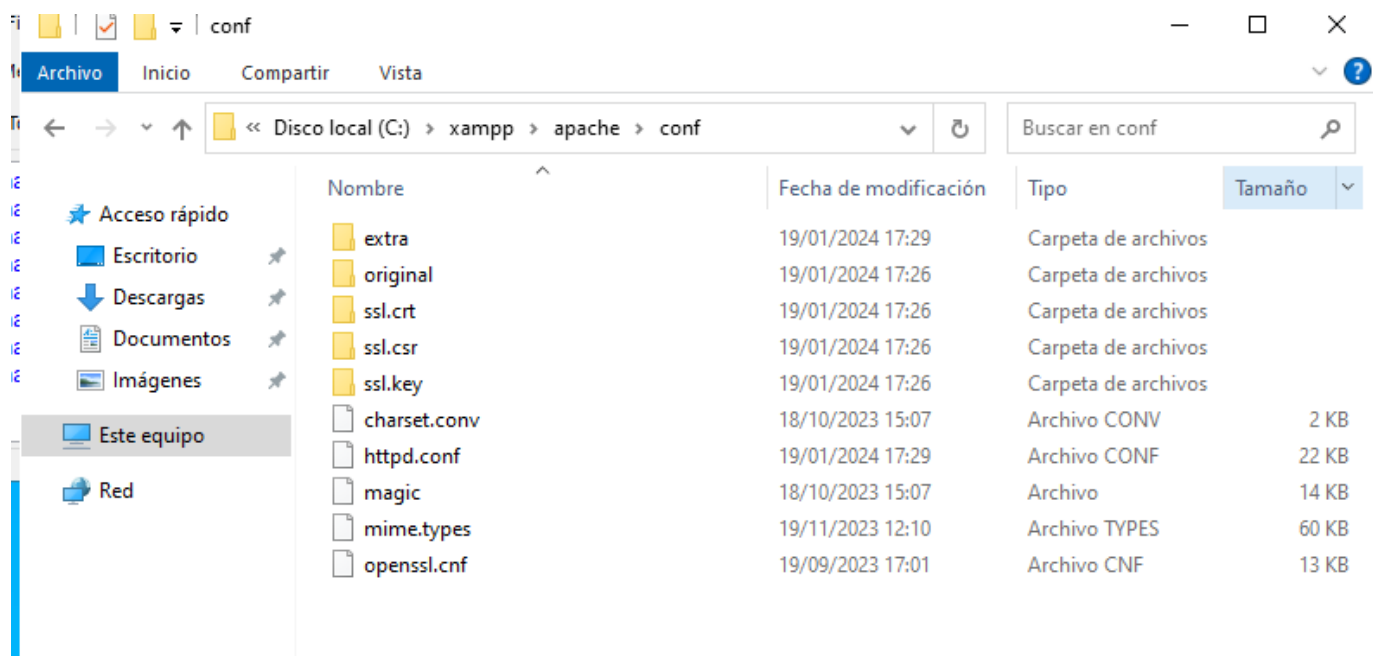

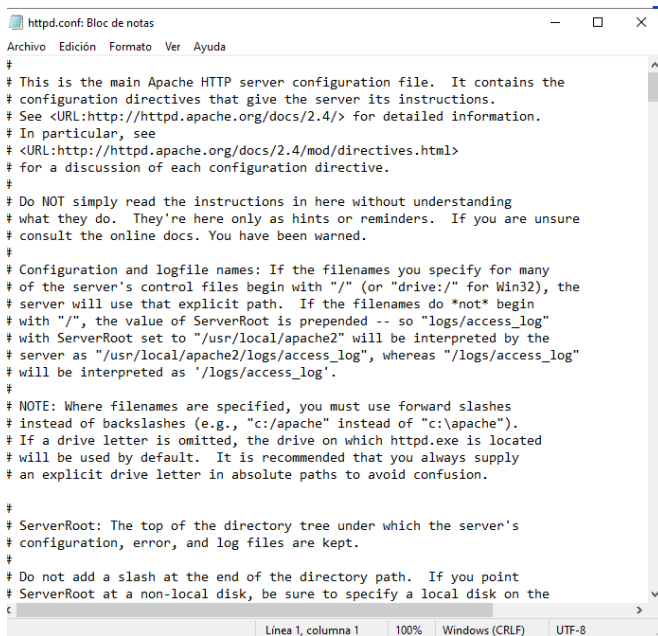1.2. Accede al directorio `C:\Program Files\Apache Software Foundation\Apache2.2\conf`.
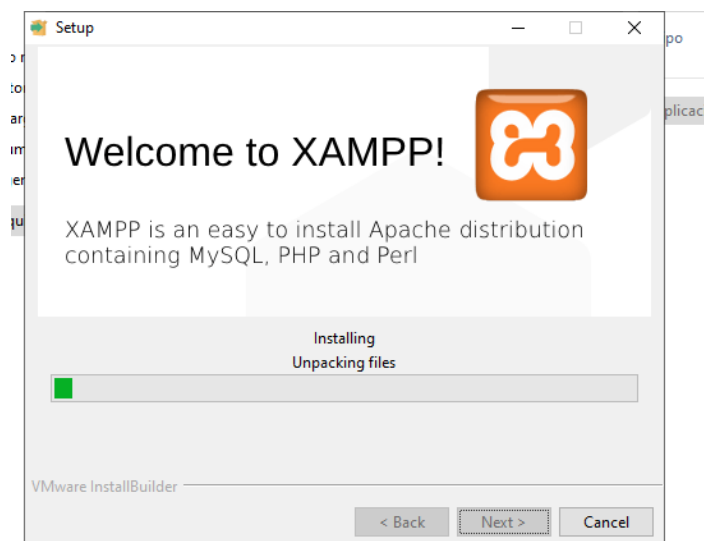
En este caso, accederé por medio de la instalación de XAMPP
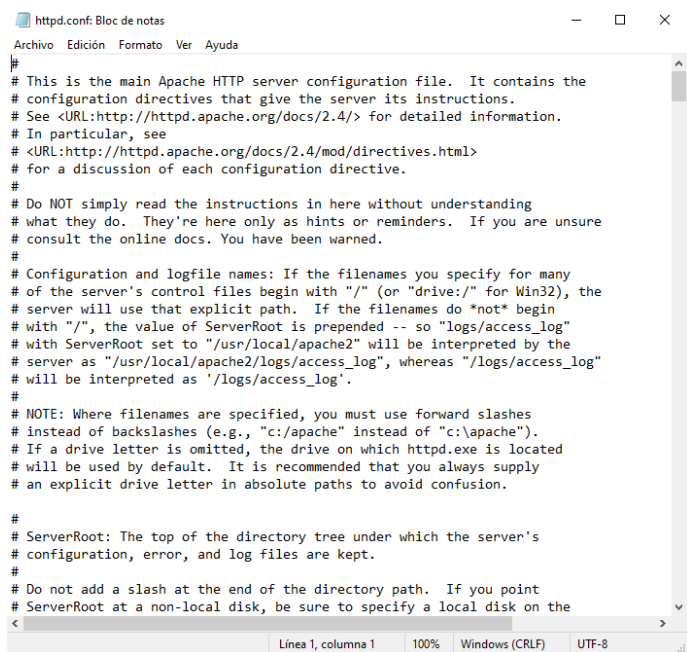
1.3. Observa los ficheros de configuración.

1.4. Abre el fichero `C:\Program Files\Apache Software Foundation\Apache2.2\conf\httpd.conf` y analiza su configuración.

2. Directivas

2.1. Consulta el fichero `C:\Program Files\Apache Software Foundation\Apache2.2\conf\httpd.conf`.

2.2. Comprueba cuál es el valor de la directiva `ServerRoot`.


```
Define SRVROOT "C:/xampp/apache"
```

```
ServerRoot "C:/xampp/apache"
```

2.3. Comprueba cuál es el puerto en el que escucha peticiones Apache (puerto 80).

```
#
#Listen 12.34.56.78:80
Listen 80

# If your host doesn't have a registered DNS name, enter its IP address here.
#
ServerName localhost:80
```

2.4. El valor de la directiva `DocumentRoot` es `C:\Program Files\Apache Software Foundation\Apache2.2` .

```
#
# DocumentRoot: The directory out of which you will serve your
# documents. By default, all requests are taken from this directory, but
# symbolic links and aliases may be used to point to other locations.
#
DocumentRoot "C:/xampp/htdocs"
<Directory "C:/xampp/htdocs">
    #
```

2.5. La directiva contenedora `<Directory> ...</Directory>` se utiliza para determinar cómo Apache sirve el contenido del directorio `C:\Program Files\Apache Software Foundation\Apache2.2\htdocs` .

```
DocumentRoot "C:/xampp/htdocs"
<Directory "C:/xampp/htdocs">
    #

    Require all gra
/Directory>


<Directory />
    AllowOverride none
    Require all denied
</Directory>
..
```

2.6. Observa el valor de la directiva `ErrorLog` .

```
#
# ErrorLog: The location of the error log file.
# If you do not specify an ErrorLog directive within a <VirtualHost>
# container, error messages relating to that virtual host will be
# logged here.  If you *do* define an error logfile for a <VirtualHost>
# container, that host's errors will be logged there and not here.
#
ErrorLog "logs/error.log"
```

2.7. Observa que existen varias directivas `include` comentadas para incluir nuevas funcionalidades.

```
Include conf/extra/httpd-mpm.conf

# Multi-language error messages
#Include conf/extra/httpd-multilang-errordoc.conf

# Fancy directory listings
Include conf/extra/httpd-autoindex.conf

# Language settings
Include conf/extra/httpd-languages.conf

# User home directories
Include conf/extra/httpd-userdir.conf

# Real-time info on requests and configuration
Include conf/extra/httpd-info.conf

# Virtual hosts
Include conf/extra/httpd-vhosts.conf

# Local access to the Apache HTTP Server Manual
#Include conf/extra/httpd-manual.conf

# Distributed authoring and versioning (WebDAV)
#Attention! WEB_DAV is a security risk without a new userspecific configuration for a
#Include conf/extra/httpd-dav.conf
```

2.8. Consulta los ficheros `C:\Program Files\Apache Software Foundation\Apache2.2\conf\extra\httpd-default` y `C:\Program Files\Apache Software Foundation\Apache2.2\conf\extra\httpd-vhosts` para ver cómo podrías modificar directivas por defecto y añadir servidores virtuales.

httpd-default: Bloc de notas

Archivo   Edición   Formato   Ver   Ayuda

```
#
# This configuration file reflects default settings for Apache HTTP Server.
#
# You may change these, but chances are that you may not need to.
#


#
# Timeout: The number of seconds before receives and sends time out.
#
Timeout 300


#
# KeepAlive: Whether or not to allow persistent connections (more than
# one request per connection). Set to "Off" to deactivate.
#
KeepAlive On


#
# MaxKeepAliveRequests: The maximum number of requests to allow
# during a persistent connection. Set to 0 to allow an unlimited amount.
# We recommend you leave this number high, for maximum performance.
#
MaxKeepAliveRequests 100


#
# KeepAliveTimeout: Number of seconds to wait for the next request from the
# same client on the same connection.
#
KeepAliveTimeout 5


#
# UseCanonicalName: Determines how Apache constructs self-referencing
```

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httpd-vhosts: Bloc de notas

Archivo   Edición   Formato   Ver   Ayuda

```
# Virtual Hosts
#
# Required modules: mod_log_config

# If you want to maintain multiple domains/hostnames on your
# machine you can setup VirtualHost containers for them. Most configurations
# use only name-based virtual hosts so the server doesn't need to worry about
# IP addresses. This is indicated by the asterisks in the directives below.
#
# Please see the documentation at
# <URL:http://httpd.apache.org/docs/2.4/vhosts/>
# for further details before you try to setup virtual hosts.
#
# You may use the command line option '-S' to verify your virtual host
# configuration.


#
# Use name-based virtual hosting.
#
##NameVirtualHost *:80
#
# VirtualHost example:
# Almost any Apache directive may go into a VirtualHost container.
# The first VirtualHost section is used for all requests that do not
# match a ##ServerName or ##ServerAlias in any <VirtualHost> block.
#
##<VirtualHost *:80>
    ##ServerAdmin webmaster@dummy-host.example.com
    ##DocumentRoot "C:/xampp/htdocs/dummy-host.example.com"
    ##ServerName dummy-host.example.com
    ##ServerAlias www.dummy-host.example.com
    ##ErrorLog "logs/dummy-host.example.com-error.log"
```

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