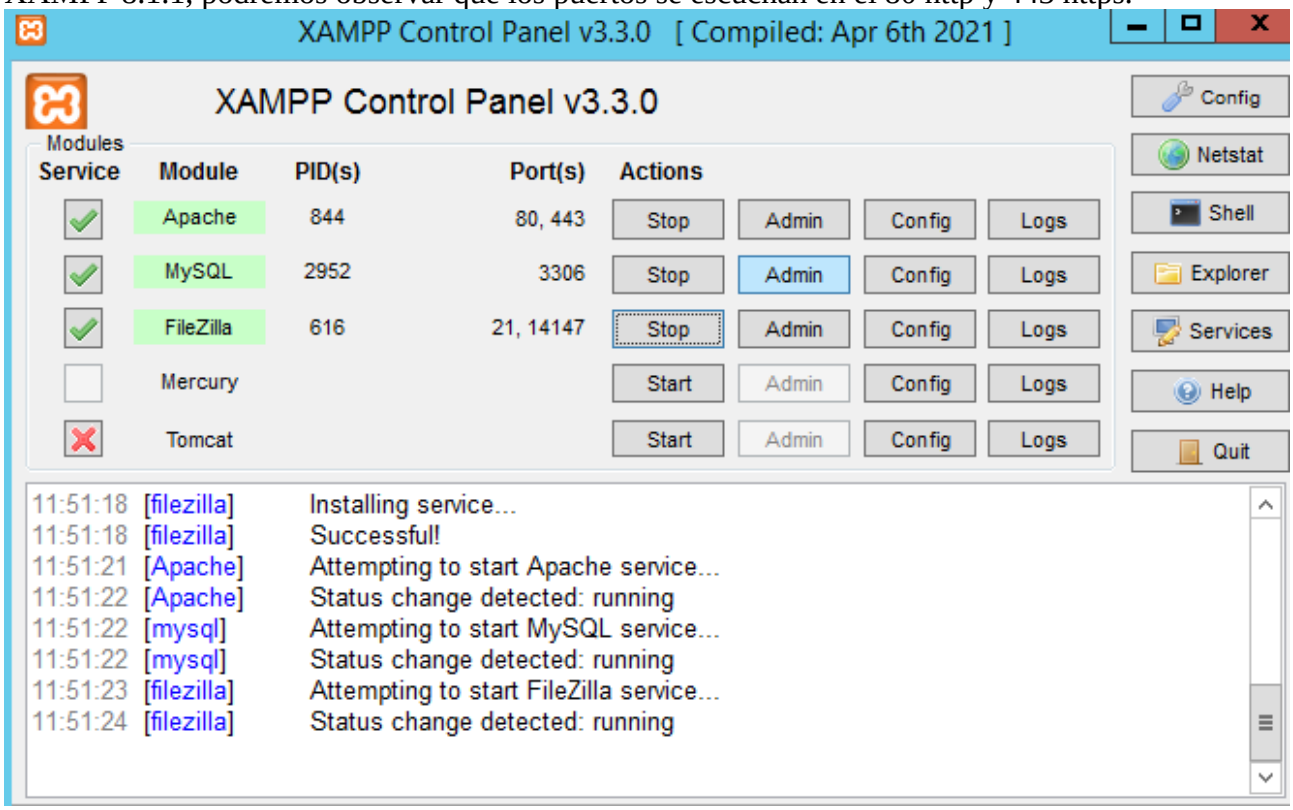
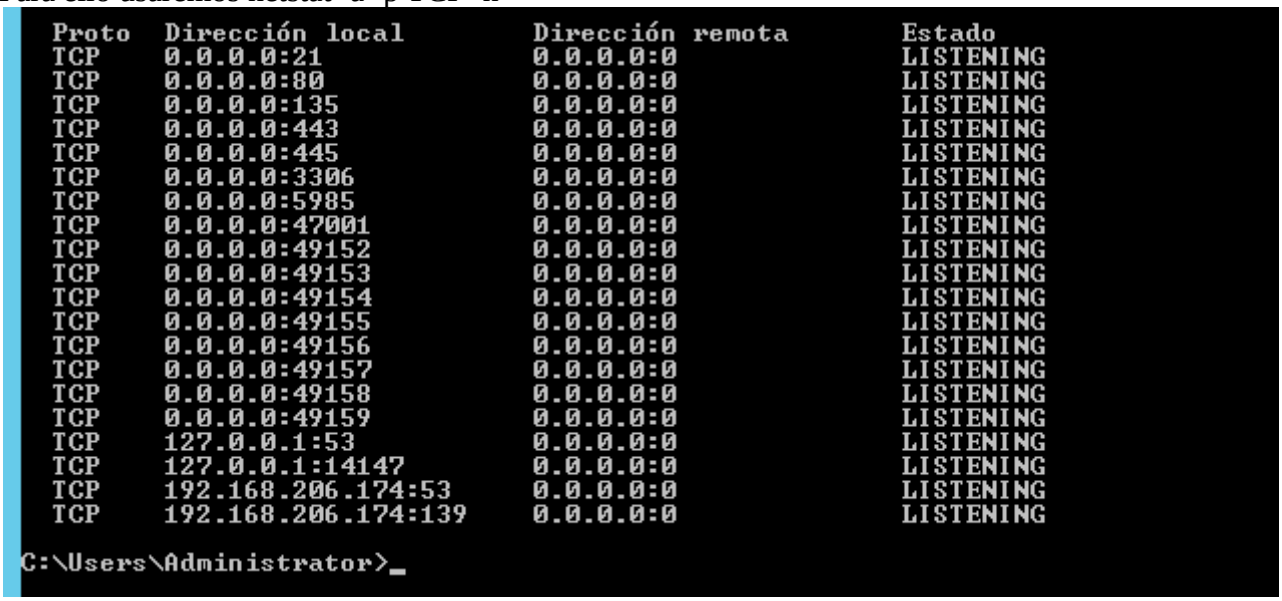
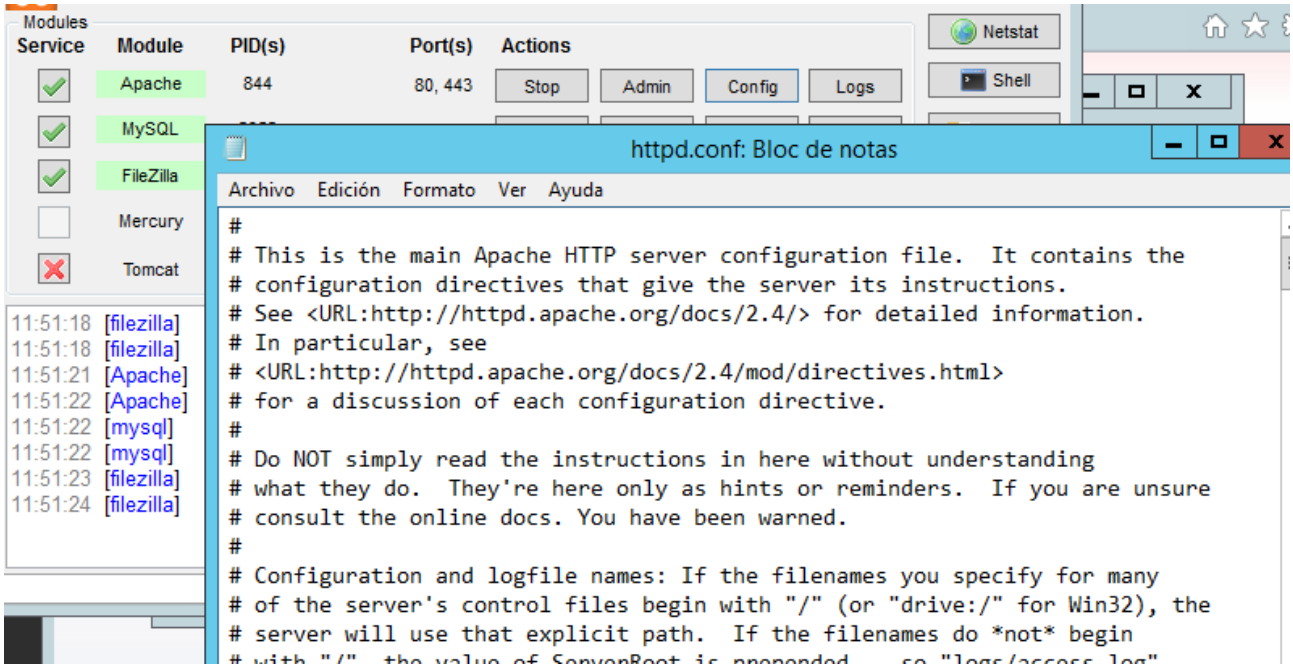
Instalacion apache en windows
Accedemos a la pagina https://www.apachefriends.org/es/download.html y descargamos la version XAMPP 8.1.1, podremos observar que los puertos se escuchan en el 80 http y 443 https.



Para ello usaremos netstat -a -p TCP -n

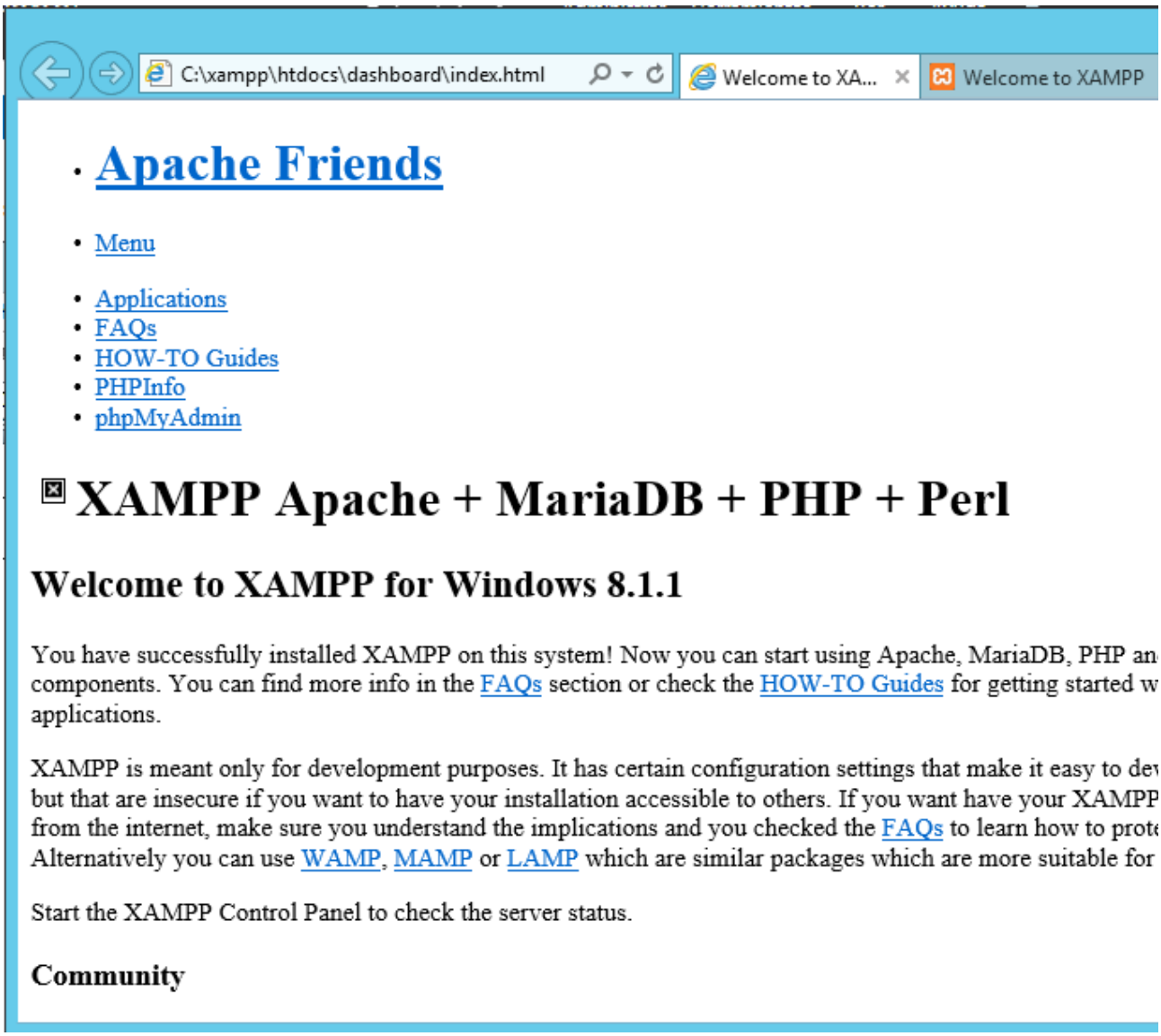


El directorio de Configuracion de apache se encuentra en Apache>Config>Apache(httpd.conf)



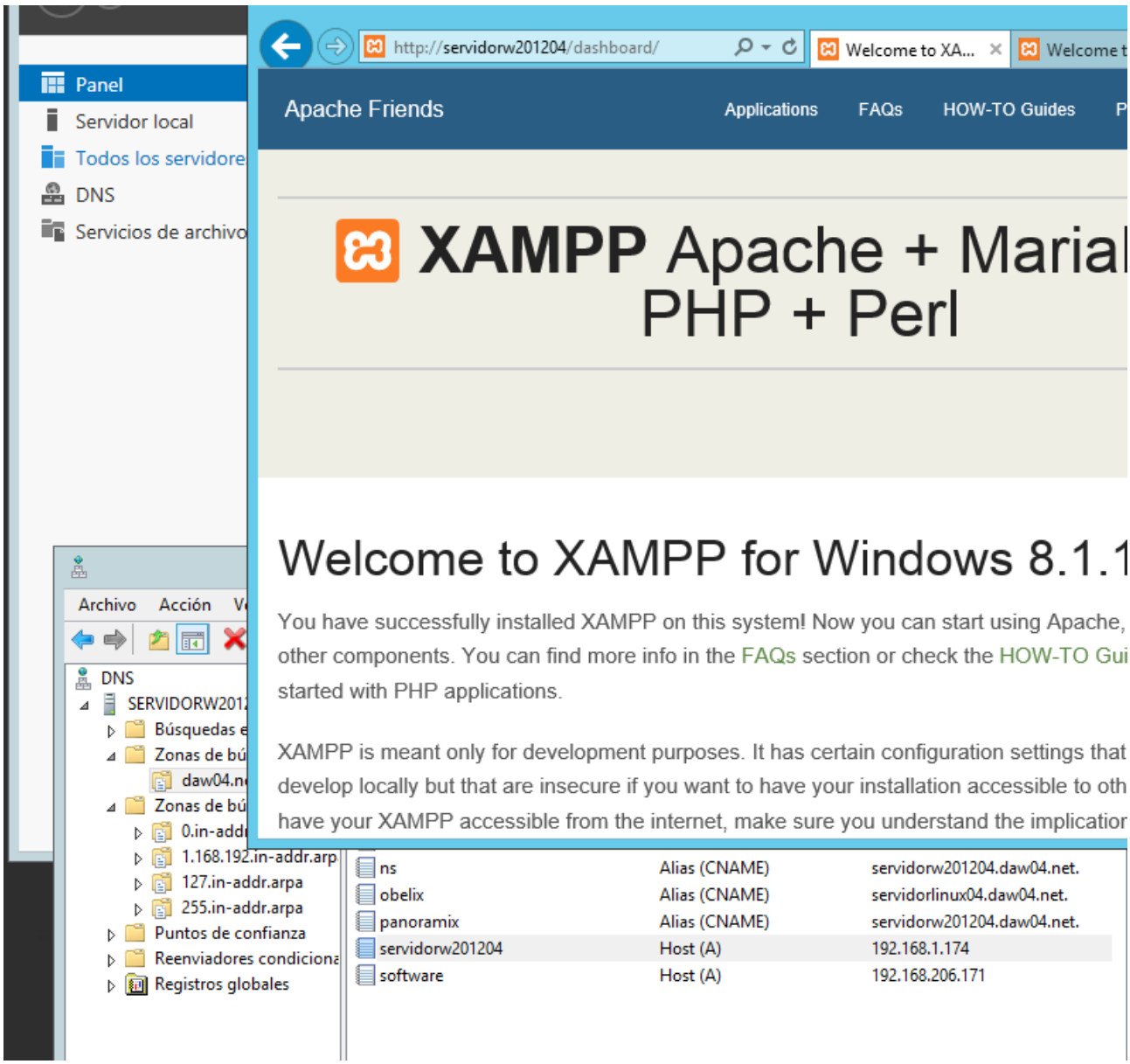
Habilitamos una regla en Herramientas> Firewall de Windows con seguridad avanzada para que permita las conexiones con apache. Para ello seguimos los siguientes pasos:
a. Accede a Inicio, Panel de control, Seguridad, Dejar pasar un programa a través de firewall de Windows.
b. Pincha en Agregar Programa.
c. Pincha en Examina y selecciona C:/xampp/Apache/bin/httpd.exe
d. Acepta los cambios.

Comprobamos el fichero index.html en el explorador de windows y en el navegador



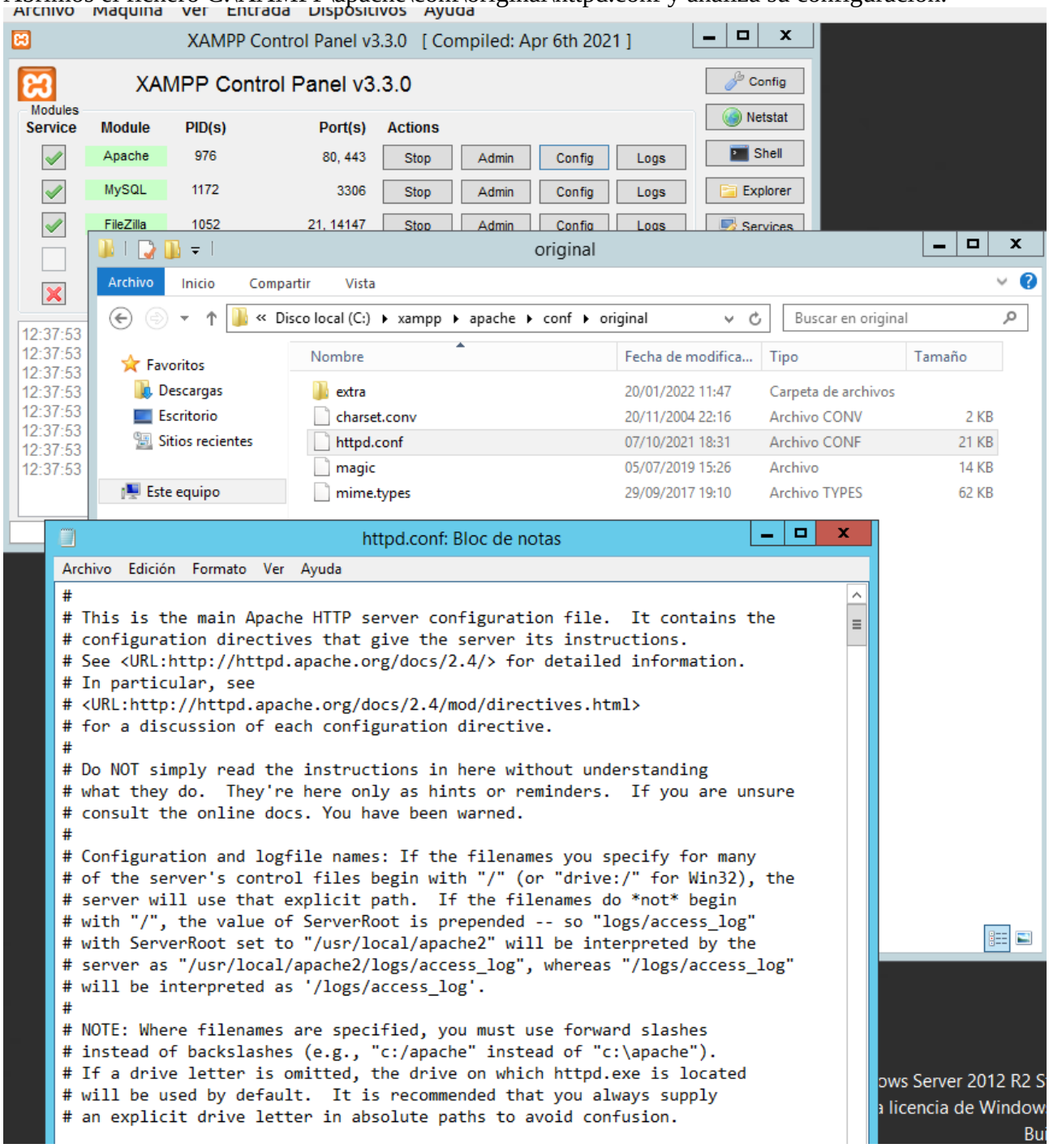
Probamos con la ip:

Y ahora con una zona de resolucion directa:


Panel
Servidor local
Todos los servidore
DNS
Servicios de archivo
http://servidorw201204/dashboard/
Welcome to XA...
Apache Friends
Applications
FAQs
HOW-TO Guides
XAMPP Apache + Maria
PHP + Perl
Welcome to XAMPP for Windows 8.1.1
You have successfully installed XAMPP on this system! Now you can start using Apache,
other components. You can find more info in the FAQs section or check the HOW-TO Gui
started with PHP applications.
XAMPP is meant only for development purposes. It has certain configuration settings that
develop locally but that are insecure if you want to have your installation accessible to oth
have your XAMPP accessible from the internet, make sure you understand the implicatior
Archivo
Acción
DNS
Búsquedas e
Zonas de bú
Zonas de bú
0.in-add
1.168.192.in-addr.arp
127.in-addr.arpa
255.in-addr.arpa
Puntos de confianza
Reenviadores condiciona
Registros globales
ns Alias (CNAME) servidorw201204.daw04.net.
obelix Alias (CNAME) servidorlinux04.daw04.net.
panoramix Alias (CNAME) servidorw201204.daw04.net.
servidorw201204 Host (A) 192.168.1.174
software Host (A) 192.168.206.171

Practica 5.4

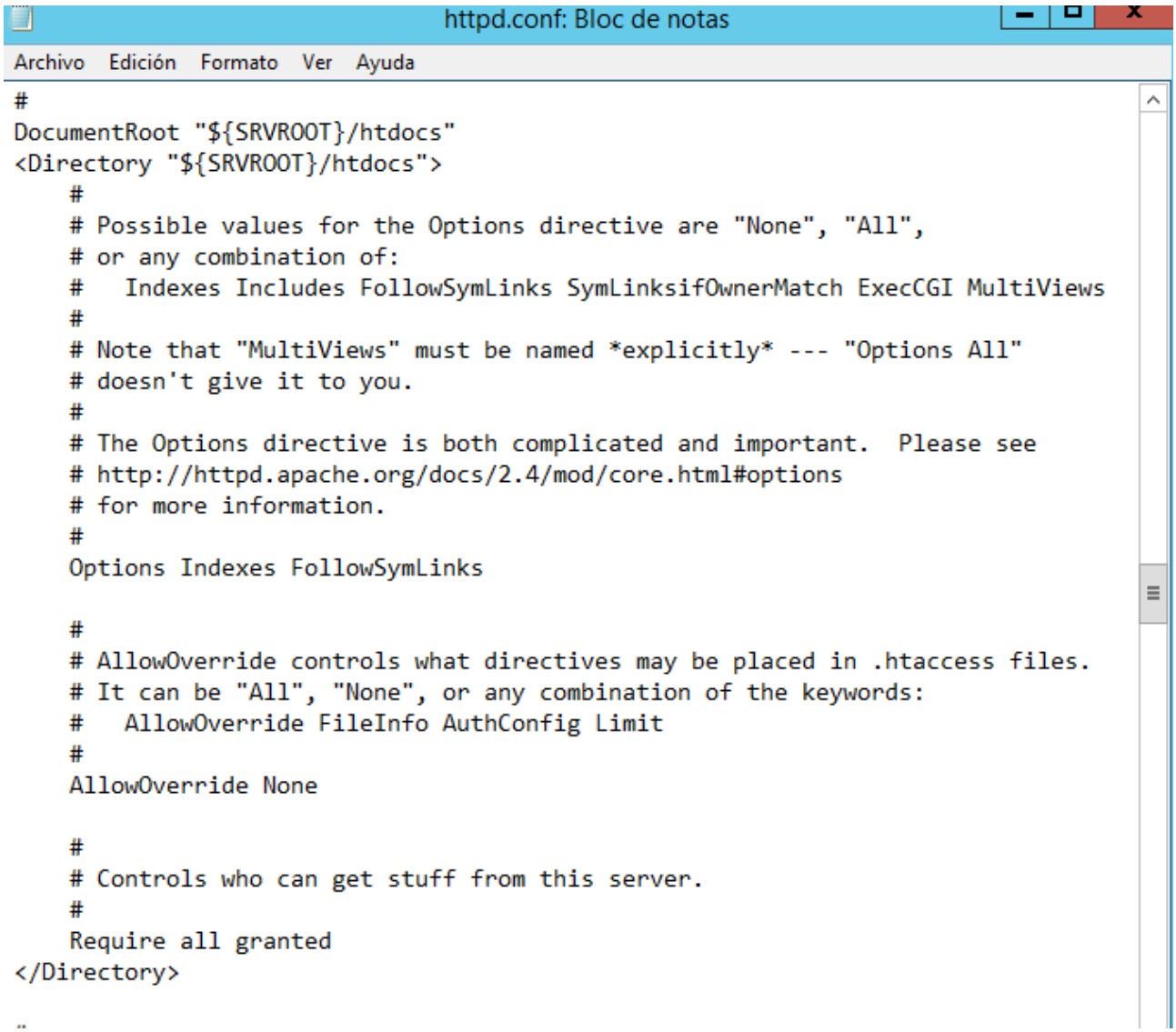
Abrimos el fichero C:\XAMPP\apache\conf\original\httpd.conf y analiza su configuracion.



Comprobamos el valor de la directica ServerRoot
Y comprobamos el puertp en el que esccha las peticiones Apache del puerto 80

```
ServerRoot "${SRVROOT}"

#
# Mutex: Allows you to set the mutex mechanism and mutex file directory
# for individual mutexes, or change the global defaults
#
# Uncomment and change the directory if mutexes are file-based and the default
# mutex file directory is not on a local disk or is not appropriate for some
# other reason.
#
# Mutex default:logs

#
# Listen: Allows you to bind Apache to specific IP addresses and/or
# ports, instead of the default. See also the <VirtualHost>
# directive.
#
# Change this to Listen on specific IP addresses as shown below to
# prevent Apache from glomming onto all bound IP addresses.
#
#Listen 12.34.56.78:80
Listen 80
```

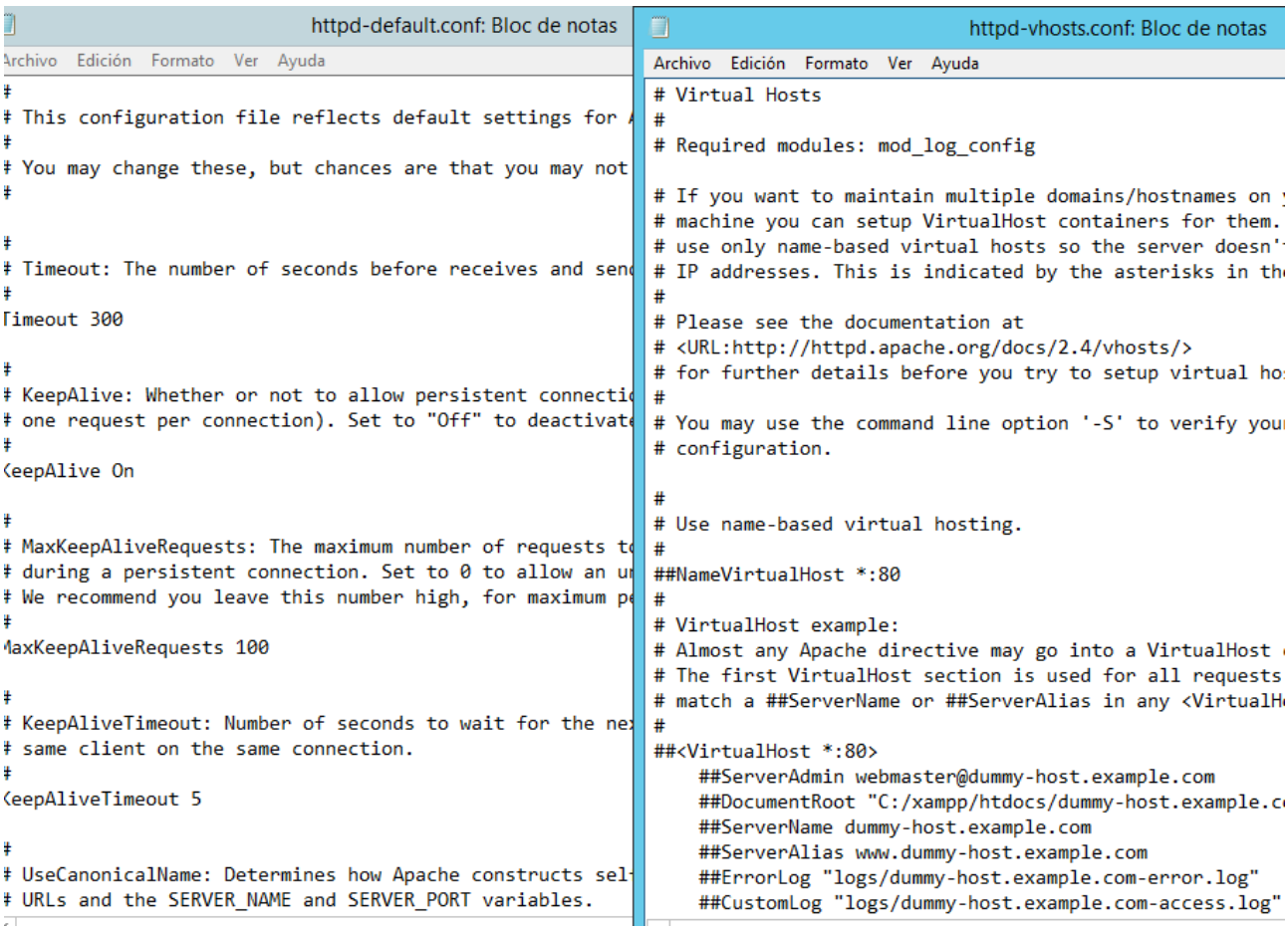
El valor de DocumentRoot es C:\XAMPP\htdocs y la directiva contenedora que se utiliza para determinar c´omo Apache sirve el contenido del directorio C:\XAMPP\htdocs,



Observa que existen varias directivas include comentadas para incluir nuevas funcionalidades

```
# Server-pool management (MPM specific)
#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)
#Include conf/extra/httpd-dav.conf

# Various default settings
#Include conf/extra/httpd-default.conf

# Configure mod_proxy_html to understand HTML4/XHTML1
<IfModule proxy_html_module>
```

Consultamos los ficheros C:\XAMPP\apache\conf\extra\httpd-default y C:\XAMPP\apache\conf \ extra\httpd-vhosts para ver como podrias modificar directivas por defecto y añadir servidores virtuales



httpd-default.conf: Bloc de notas

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```
#
# This configuration file reflects default settings for A
#
# You may change these, but chances are that you may not
#


#
# Timeout: The number of seconds before receives and send
#
Timeout 300

#
# KeepAlive: Whether or not to allow persistent connecti
# one request per connection). Set to "Off" to deactivat
#
KeepAlive On

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

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

#
# UseCanonicalName: Determines how Apache constructs sel
# URLs and the SERVER_NAME and SERVER_PORT variables.
```

httpd-vhosts.conf: Bloc de notas

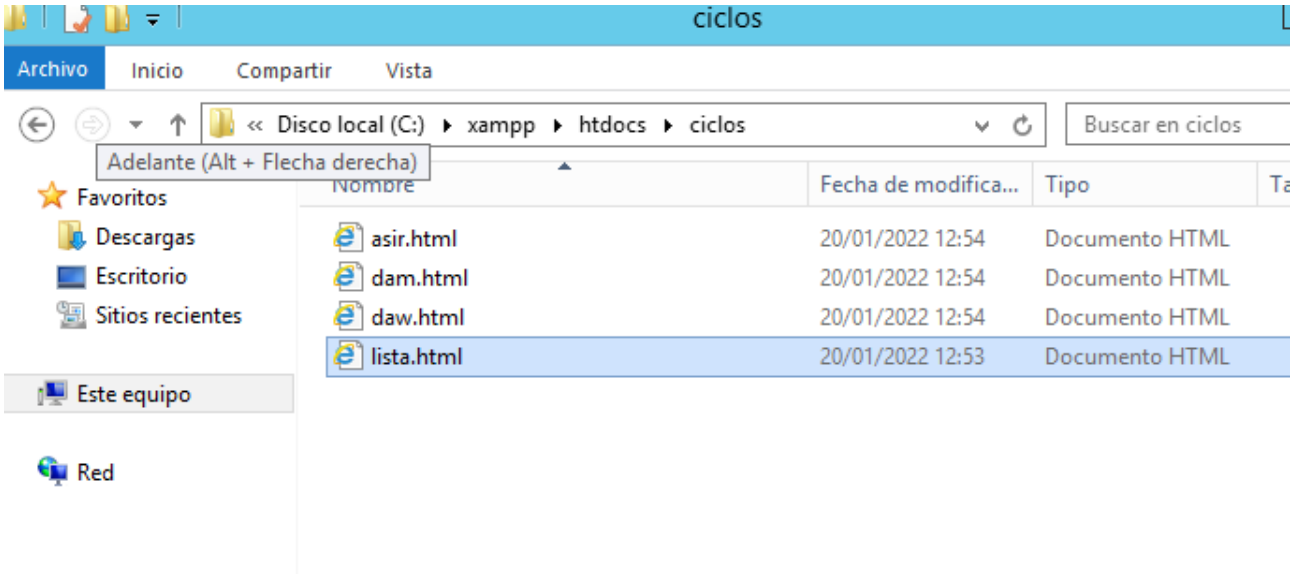
Archivo Edición Formato Ver Ayuda

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

# If you want to maintain multiple domains/hostnames on
# machine you can setup VirtualHost containers for them.
# use only name-based virtual hosts so the server doesn'
# IP addresses. This is indicated by the asterisks in th
#
# Please see the documentation at
# <URL:http://httpd.apache.org/docs/2.4/vhosts/>
# for further details before you try to setup virtual ho
#
# You may use the command line option '-S' to verify you
# configuration.

#
# Use name-based virtual hosting.
#
##NameVirtualHost *:80
#
# VirtualHost example:
# Almost any Apache directive may go into a VirtualHost
# The first VirtualHost section is used for all requests
# match a ##ServerName or ##ServerAlias in any <VirtualH
#
##<VirtualHost *:80>
    ##ServerAdmin webmaster@dummy-host.example.com
    ##DocumentRoot "C:/xampp/htdocs/dummy-host.example.c
    ##ServerName dummy-host.example.com
    ##ServerAlias www.dummy-host.example.com
    ##ErrorLog "logs/dummy-host.example.com-error.log"
    ##CustomLog "logs/dummy-host.example.com-access.log"
```

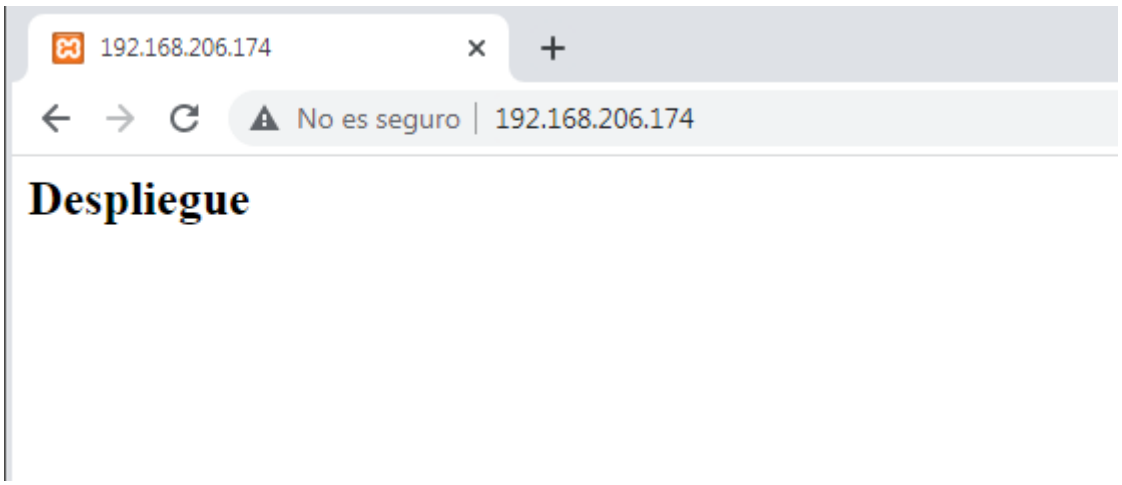
Practica 5.6

_____

Accedemos a C:\XAMPP\htdocs y creamos los siguientes ficheros y directorios con el contenido que quieras, ..\htdocs\despligue.html ..\htdocs\fp.html ..\htdocs\ciclos\lista.html ..\htdocs\ciclos\asir.html ..\htdocs\ciclos\daw.html ..\htdocs\ciclos\dam.html



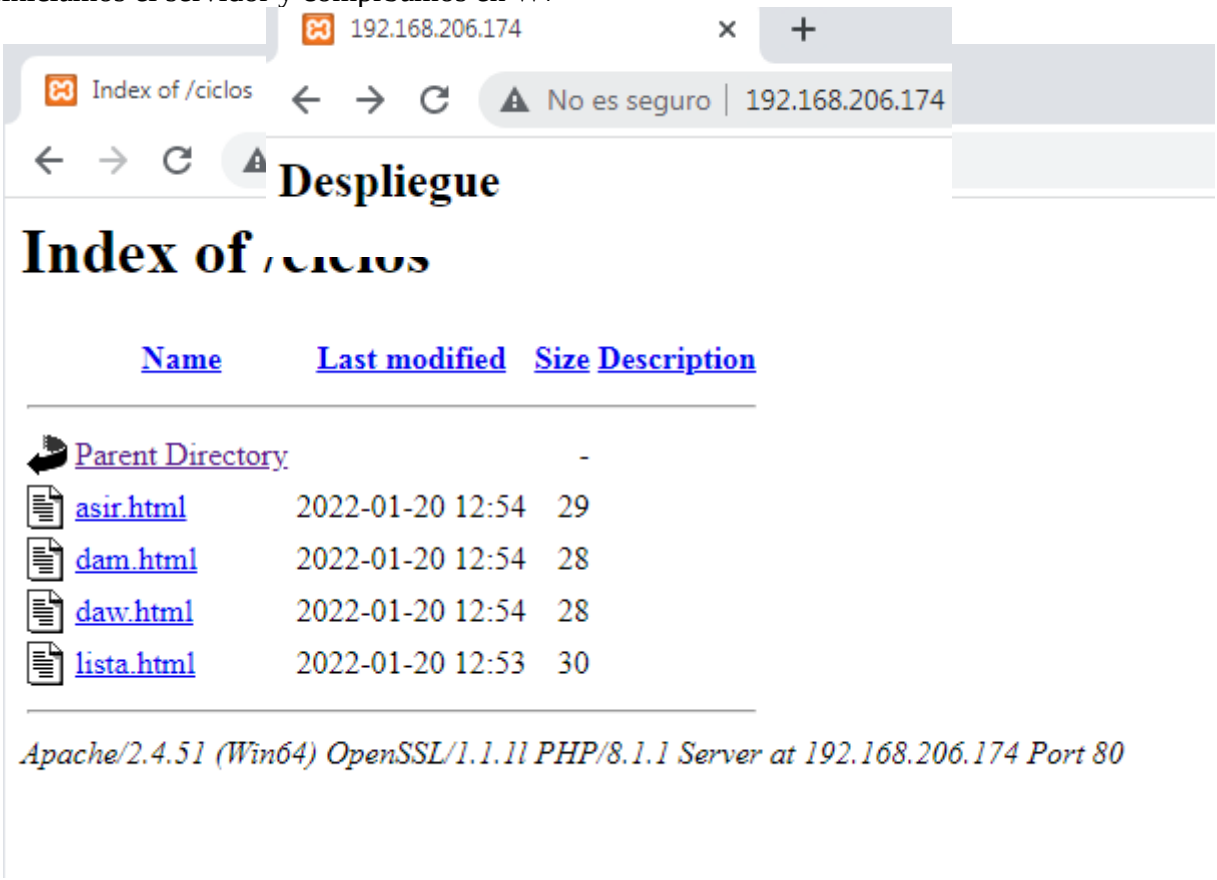
Desde W7 establecemos esas conexiones



Entramos en C:\XAMPP\apache\conf\original\httpd.conf y creamos las directivas necesarias
La de despliegue:

```
    <Directory "C:/xampp/htdocs">
        #
        # Possible values for the Options directive are "None", "All",
        # or any combination of:
        #   Indexes Includes FollowSymLinks SymLinksifOwnerMatch ExecCG
        #
        # Note that "MultiViews" must be named *explicitly* --- "Option
        # doesn't give it to you.
        #
        # The Options directive is both complicated and important.  Ple
        # http://httpd.apache.org/docs/2.4/mod/core.html#options
        # for more information.
        #
            DirectoryIndex despliegue.html
        Options Indexes FollowSymLinks Includes ExecCGI

        #
```

```
</Directory>
<Directory "C:/Program Files/Apache Software Fundation/Apache2.2/htdocs/ciclos">
 Options FollowSymLinks
 AllowOverride None
 Order allow, deny
 Allow from alll
</Directory>
```

```
Alias /apuntes C:/Users/Administrador/apuntes
<Directory "C:/Users/Administrador/apuntes>
    Options Indexes FollowSymLinks
    AllowOverride None
    Order allow,deny
    Allow from all
</Directory>
```

Reiniciamos el servidor y comprbamos en W7