

Configuración de servidor web con apache

Por: John A. Pérez B. ~ 20186748

Este tutorial es un extracto del siguiente video:

<https://youtu.be/W-7XGJK0kFs>

Configuración

Primero instalamos apache, con el comando **yum install -y httpd**



Recycle Bin



filezilla-win



New folder



ftp-cmd

2:54 PM
10/15/2019

```
[root@localhost ~]# yum install -y httpd
Loaded plugins: fastestmirror, langpacks
Loading mirror speeds from cached hostfile
 * base: mirrors.uprm.edu
 * epel: mirror.compeo9.com
 * extras: mirrors.uprm.edu
 * updates: mirrors.uprm.edu
Package httpd-2.4.6-90.el7.centos.x86_64 already installed and latest version
Nothing to do
[root@localhost ~]#
```



1 / 4

Luego habilitamos los puertos 80, y 443 ambos tcp. con el comando
firewall-cmd --add-port=[puerto] --permanent



Recycle Bin



filezilla-win



New folder



ftp-cmd

2:54 PM
10/15/2019

```
centOs-server-20186748 [Running] - Oracle VM VirtualBox
File Machine View Input Devices Help
[root@localhost ~]# yum install -y httpd
Loaded plugins: fastestmirror, langpacks
Loading mirror speeds from cached hostfile
 * base: mirrors.uprm.edu
 * epel: mirror.compevo.com
 * extras: mirrors.uprm.edu
 * updates: mirrors.uprm.edu
Package httpd-2.4.6-98.el7.centos.x86_64 already installed and latest version
Nothing to do
[root@localhost ~]# firewall-cmd --add-port=80/tcp --permanent
Warning: ALREADY_ENABLED: 80:tcp
success
[root@localhost ~]# firewall-cmd --add-port=443/tcp --permanent
Warning: ALREADY_ENABLED: 443:tcp
success
[root@localhost ~]# _
```



1 / 4

2:54 PM

Para probar que apache está instalado funcionando correctamente,
colocamos la dirección de nuestro servidor en el navegador web.
Donde deberíamos ver la página por defecto de apache

File Machine View Input Devices Help

Apache HTTP Server Test Page powered by CentOS - Windows Internet Explorer

http://192.168.1.1/ Bing

Search (Alt+Enter to search in a new tab)

Favorites Suggested Sites Web Slice Gallery

Apache HTTP Server Test Page powered by Cent...

Testing 123...

This page is used to test the proper operation of the [Apache HTTP server](#) after it has been installed. If you can read this page it means that this site is working properly. This server is powered by [CentOS](#).

Just visiting?

The website you just visited is either experiencing problems or is undergoing routine maintenance.

If you would like to let the administrators of this website know that you've seen this page instead of the page you expected, you should send them e-mail. In general, mail sent to the name "webmaster" and directed to the website's domain should reach the appropriate person.

For example, if you experienced problems while visiting www.example.com, you should send e-mail to "webmaster@example.com".

Are you the Administrator?

You should add your website content to the directory `/var/www/html/`.

To prevent this page from ever being used, follow the instructions in the file `/etc/httpd/conf.d/welcome.conf`.

Internet | Protected Mode: On 100% 2:55 PM 10/15/2019

Right Ctrl

Windows Start File Explorer Internet Explorer Chrome

File Machine View Input Devices Help

Applications Places



Home



Trash



ftp-test



filezilla-ftp



ftp-centos



Subiendo nuestra web al servidor

Dentro de **/var/www/html/** creamos un directorio con el nombre de nuestra web



Recycle Bin



filezilla-win



New folder



ftp-cmd

2:55 PM
10/15/2019

Right Ctrl

[root@localhost ~]# mkdir /var/www/html/centos-server.com
[root@localhost ~]#

Right Ctrl



1 / 4



2:55 PM

Luego en el directorio **/etc/httpd/conf** accedemos al archivo
httpd.conf



Recycle Bin



filezilla-win



New folder



ftp-cmd

2:56 PM
10/15/2019

```
[root@localhost ~]# mkdir /var/www/html/centos-server.com
[root@localhost ~]# ls
anaconda-ks.cfg  Desktop  thinclient_drives
[root@localhost ~]# ls /var/www/html/
centos-server.com
[root@localhost ~]# vi /etc/httpd/conf/httpd.conf
```



En la opción **DocumentRoot** colocamos la dirección hacia el directorio de nuestra web



Recycle Bin



filezilla-win



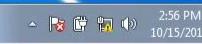
New folder



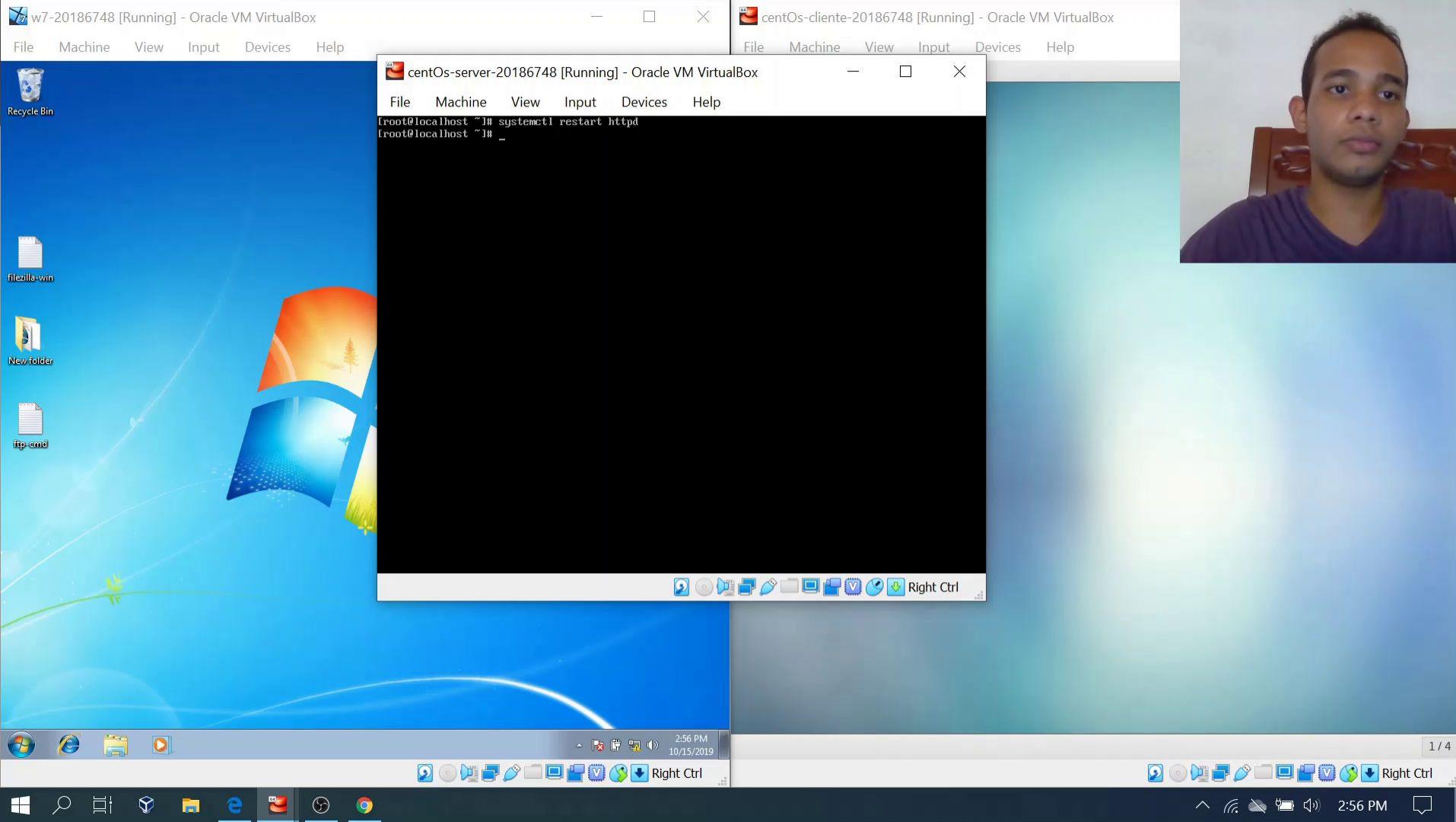
ftp-cmd



```
#  
# 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 "/var/www/html/centos-server.com"  
  
#  
# Relax access to content within /var/www.  
#  
<Directory "/var/www">  
    AllowOverride None  
    # Allow open access:  
    Require all granted  
</Directory>  
  
# Further relax access to the default document root:  
<Directory "/var/www/html/centos-server.com">  
    #  
    # Possible values for the Options directive are "None", "All",  
    # or any combination of:  
    #   Indexes FollowSymLinks SymLinksIfOwnerMatch ExecCGI MultiViews  
    #  
    # Note that "MultiViews" must be named *explicitly* --- "Options All"  
    # doesn't give it to you.  
    #  
    # The Options directive is both complicated and important. Please see  
    # http://httpd.apache.org/docs/2.4/mod/core.html#options  
    # for more information.  
    #  
    Options Indexes FollowSymLinks  
  
    #  
    # AllowOverride controls what directives may be placed in .htaccess files.  
    # It can be "All", "None", or any combination of the keywords:  
    #  
    #
```



Reiniciamos el servicio con **systemctl restart httpd**, para guardar los cambios



Para subir nuestra web al servidor, es necesario que hayamos configurado el protocolo **ftp**, luego simplemente transferimos la web desde el cliente al servidor. Y la colocamos en el directorio de nuestra página web. *

*Por defecto se interpreta el archivo index.html como página principal

windows-ftp@192.168.1.1 - FileZilla

File Edit View Transfer Server Bookmarks Help

Host: 192.168.1.1 Username: windows-ftp Password: ········ Port: Quickconnect

Status: Insecure server, it does not support FTP over TLS.

Status: Logged in

Status: Retrieving directory listing...

Status: Calculating timezone offset of server...

Status: Timezone offset of server is 0 seconds.

Status: Directory listing of '/var/ftp/pub' successful

Local site: C:\Users\w7-20186748\Desktop\New folder\

Remote site: /var/ftp/pub

Filename	Filesize	Filetype	Last modified	Permissions	Owner/Gro...
..					
index.css	793	Cascading Sty... 10/15/2019 2:10:41...		-rw-----	1002 1002
index.html	3,773	HTML Docum... 10/15/2019 2:10:41...		-rw-r--r--	1003 1003

Selected 1 file. Total size: 3,773 bytes

Server/Local file	Direction	Remote file	Size	Priority	Status
-------------------	-----------	-------------	------	----------	--------

Queued files Failed transfers Successful transfers



Luego trasladamos el archivo al directorio de la web, y aplicamos los permisos para que se pueda visualizar por los demás usuarios

403 Forbidden - Windows Internet Explorer
http://192.168.1.1/
Favorites Suggested Sites Web Slice Gallery
403 Forbidden

Forbidden

You don't have permission to access /index.html on this server.

centOs-server-20186748 [Running] - Oracle VM VirtualBox
File Machine View Input Devices Help
[root@localhost centos-server.com]# mv /var/ftp/pub/index.html .
[root@localhost centos-server.com]# ls
index.html
[root@localhost centos-server.com]# chmod 777 index.html
[root@localhost centos-server.com]#



Al ingresar nuevamente la dirección del servidor en el navegador, deberíamos observar nuestra página web.*

*A partir de este punto usaremos firefox en el cliente linux como cliente web, debido a que los elementos web más recientes no son soportados en la versión de explorer de nuestro cliente windows



Centos Web Server



Inicio

Descarga

Contacto

Configuración de los directorios

Primero creamos un directorio dentro del directorio de nuestra web, al que le asignaremos los permisos correspondientes para que pueda ser visualizado por los clientes



centOs-cliente-20186748 [Running] - Oracle VM VirtualBox

File Machine View Input Devices Help

 Applications Places Firefox

centOs-server-20186748 [Running] - Oracle VM VirtualBox

File Machine View Input Devices Help

```
[root@localhost centos-server.com]# mkdir files
[root@localhost centos-server.com]# ls
files index.html
[root@localhost centos-server.com]# chmod 77 files
[root@localhost centos-server.com]# chmod 777 files
[root@localhost centos-server.com]# _
```

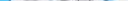
Inicio

Descarga

Contact

Document - Mozilla Firefox

1 / 4

Right Ctrl

The taskbar at the bottom of the screen displays several icons: the Windows logo, a magnifying glass for search, a square icon for Task View, a folder icon for File Explorer, the Microsoft Edge browser, a red folder icon for File Explorer, a red Task View icon, and the Google Chrome browser.

3:01 PM

Para cambiar el diseño por defecto de estos directorios, hemos diseñado una nueva hoja de estilo la cual le colocaremos a los directorios. Primero la transferimos a nuestro servidor, y la colocamos en en directorio de la web.

windows-ftp@192.168.1.1 - FileZilla

File Edit View Transfer Server Bookmarks Help

Host: 192.168.1.1 Username: windows-ftp Password: Port: Quickconnect

Status: Logged in
Status: Starting upload of C:\Users\w7-20186748\Desktop\New folder\index.html
Status: File transfer successful, transferred 3,773 bytes in 1 second
Status: Retrieving directory listing of "/var/ftp/pub" ...
Status: Directory listing of "/var/ftp/pub" successful
Status: Disconnected from server

Local site: C:\Users\w7-20186748\Desktop\New folder\

Remote site: /var/ftp/pub

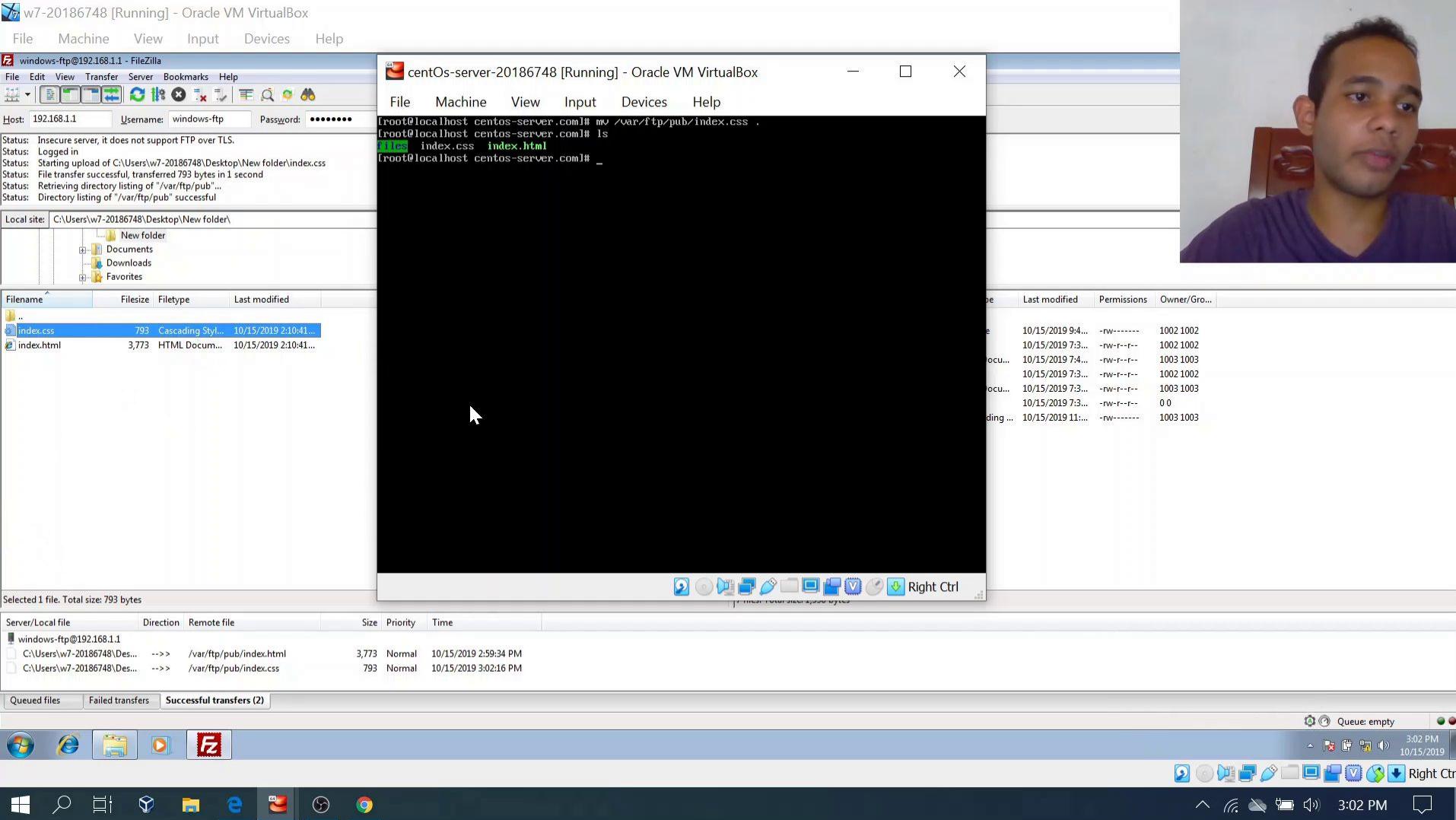
Filename	Filesize	Filetype	Last modified	Permissions	Owner/Gro...
index.css	793	Cascading Sty...	10/15/2019 2:10:41...	-rw-----	1002 1002
index.html	3,773	HTML Docum...	10/15/2019 2:10:41...	-rw-r--r--	1003 1003

Selected 1 file. Total size: 793 bytes

Server/Local file	Direction	Remote file	Size	Priority	Time
windows-ftp@192.168.1.1		/var/ftp/pub/index.html	3,773	Normal	10/15/2019 2:59:34 PM
C:\Users\w7-20186748\Desktop\New folder\index.html	>>>				

Queued files Failed transfers Successful transfers (1)





En el archivo de configuración httpd.conf, dentro del dir_module, agregamos la opción **IndexStyleSheet** y la dirección de nuestra hoja de estilos

windows-ftp@192.168.1.1 - FileZilla

File Edit View Transfer Server Bookmarks Help

Host: 192.168.1.1 Username: windows-ftp Password: *****

Status: Starting upload of C:\Users\w7-20186748\Desktop\New folder\index.css

Status: File transfer successful, transferred 793 bytes in 1 second

Status: Retrieving directory listing of "/var/ftp/pub/..."

Status: Directory listing of "/var/ftp/pub/" successful

Status: Disconnected from server

Status: Connection closed by server

Local site: C:\Users\w7-20186748\Desktop\New folder\

New folder
Documents
Downloads
Favorites

Filename	Filesize	Filetype	Last modified
..			
index.css	793	Cascading Style Sheet	10/15/2019 2:10:41...
index.html	3,773	HTML Document	10/15/2019 2:10:41...

Selected 1 file. Total size: 793 bytes

Server/Local file	Direction	Remote file	Size	Priority	Time
windows-ftp@192.168.1.1					
C:\Users\w7-20186748\Desktop\index.css	->	/var/ftp/pub/index.css	3,773	Normal	10/15/2019 2:59:34 PM
C:\Users\w7-20186748\Desktop\index.html	->	/var/ftp/pub/index.html	793	Normal	10/15/2019 3:02:16 PM

Queued files Failed transfers Successful transfers (2)



centOs-server-20186748 [Running] - Oracle VM VirtualBox

File Machine View Input Devices Help

```

#
# AllowOverride controls what directives may be placed in .htaccess files.
# It can be 'All', 'None', or any combination of the keywords:
# Options FileInfo AuthConfig Limit
#
# AllowOverride None

#
# Controls who can get stuff from this server.
#
# Require all granted
</Directory>

#
# DirectoryIndex: sets the file that Apache will serve if a directory
# is requested.
#
<IfModule dir_module>
    DirectoryIndex index.html
    IndexStyleSheet "http://192.168.1.1/index.css"
</IfModule>

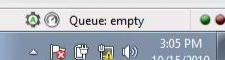
#
# The following lines prevent .htaccess and .htpasswd files from being
# viewed by Web clients.
#
<Files ".ht*">
    Require all denied
</Files>

#
# 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.
-- INSERT --

```

Selected 1 file. Total size: 793 bytes

Right Ctrl



3:05 PM
10/15/2019

3:05 PM
10/15/2019

Al ir a la dirección de nuestros archivos dentro de la web. veremos el directorio con el estilo que hemos creado.

Index of /files - Mozilla Firefox

Index of /files



① 192.168.1.1/files/

Index of /files

Name	Last modified	Size	Description
Parent Directory		-	



Configurando directorio para descargar archivos desde la web

Para iniciar con las descargas, vamos a generar algunos archivos de texto de prueba

```
centOs-server-20186748 [Running] - Oracle VM VirtualBox
File Machine View Input Devices Help
IndexStyleSheet "http://192.168.1.1/index.css"
</IfModule>
#
# The following lines prevent .htaccess and .htpasswd files from being
# viewed by Web clients.
#
<Files ".ht*">
    Require all denied
</Files>

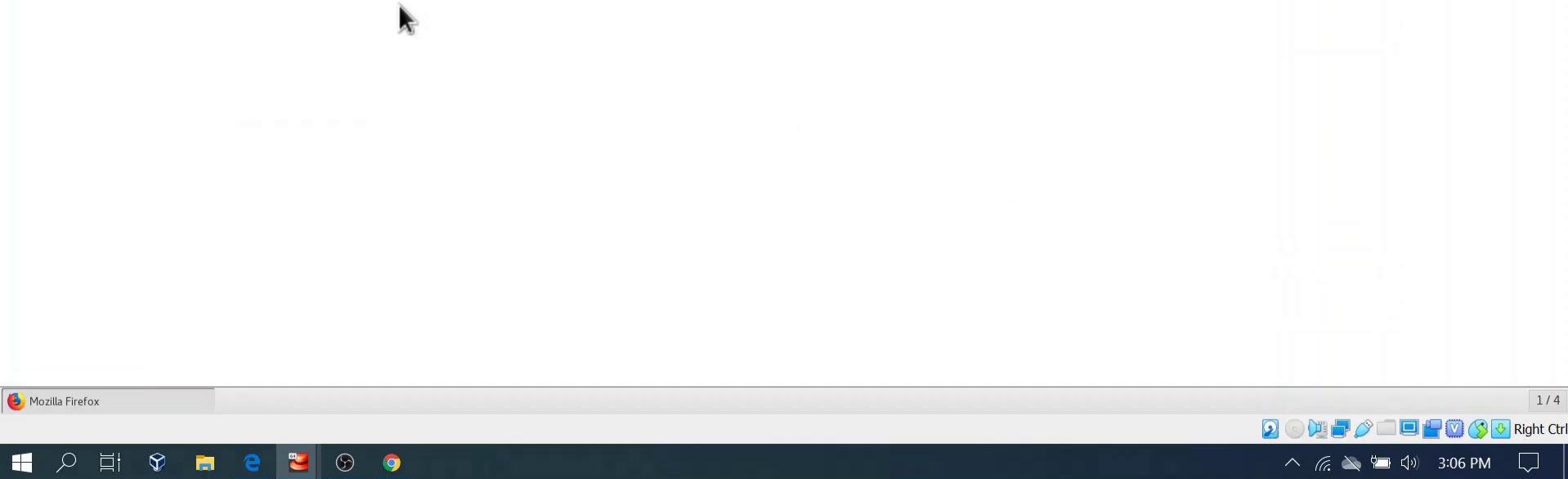
#
# ErrorLog: The location of the error log file.
# If you do not specify an ErrorLog directive within a <VirtualHost>
# container, error messages relating to that virtual host will be
# logged here. If you <do> define an error logfile for a <VirtualHost>
# container, that host's errors will be logged there and not here.
/etc/httpd/conf/httpd.conf" 354L, 11840C written
```

Name

Parent Dir

	Name	Description
	index.css	
	index.html	
	test1.txt	
	test2.txt	
	test3.txt	
	test4.txt	
	test5.txt	
	test6.txt	
	test7.txt	
	test8.txt	
	test9.txt	
	test10.txt	
	test11.txt	
	test12.txt	
	test13.txt	
	test14.txt	
	test15.txt	
	test16.txt	
	test17.txt	
	test18.txt	
	test19.txt	
	test20.txt	
	test21.txt	
	test22.txt	
	test23.txt	
	test24.txt	
	test25.txt	
	test26.txt	
	test27.txt	
	test28.txt	
	test29.txt	
	test30.txt	
	test31.txt	
	test32.txt	
	test33.txt	
	test34.txt	
	test35.txt	
	test36.txt	
	test37.txt	
	test38.txt	
	test39.txt	
	test40.txt	
	test41.txt	
	test42.txt	
	test43.txt	
	test44.txt	
	test45.txt	
	test46.txt	
	test47.txt	
	test48.txt	
	test49.txt	
	test50.txt	
	test51.txt	
	test52.txt	
	test53.txt	
	test54.txt	
	test55.txt	
	test56.txt	
	test57.txt	
	test58.txt	
	test59.txt	
	test60.txt	
	test61.txt	
	test62.txt	
	test63.txt	
	test64.txt	
	test65.txt	
	test66.txt	
	test67.txt	
	test68.txt	
	test69.txt	
	test70.txt	
	test71.txt	
	test72.txt	
	test73.txt	
	test74.txt	
	test75.txt	
	test76.txt	
	test77.txt	
	test78.txt	
	test79.txt	
	test80.txt	
	test81.txt	
	test82.txt	
	test83.txt	
	test84.txt	
	test85.txt	
	test86.txt	
	test87.txt	
	test88.txt	
	test89.txt	
	test90.txt	
	test91.txt	
	test92.txt	
	test93.txt	
	test94.txt	
	test95.txt	
	test96.txt	
	test97.txt	
	test98.txt	
	test99.txt	
	test100.txt	
	test101.txt	
	test102.txt	
	test103.txt	
	test104.txt	
	test105.txt	
	test106.txt	
	test107.txt	
	test108.txt	
	test109.txt	
	test110.txt	
	test111.txt	
	test112.txt	
	test113.txt	
	test114.txt	
	test115.txt	
	test116.txt	
	test117.txt	
	test118.txt	
	test119.txt	
	test120.txt	
	test121.txt	
	test122.txt	
	test123.txt	
	test124.txt	
	test125.txt	
	test126.txt	
	test127.txt	
	test128.txt	
	test129.txt	
	test130.txt	
	test131.txt	
	test132.txt	
	test133.txt	
	test134.txt	
	test135.txt	
	test136.txt	
	test137.txt	
	test138.txt	
	test139.txt	
	test140.txt	
	test141.txt	
	test142.txt	
	test143.txt	
	test144.txt	
	test145.txt	
	test146.txt	
	test147.txt	
	test148.txt	
	test149.txt	
	test150.txt	
	test151.txt	
	test152.txt	
	test153.txt	
	test154.txt	
	test155.txt	
	test156.txt	
	test157.txt	
	test158.txt	
	test159.txt	
	test160.txt	
	test161.txt	
	test162.txt	
	test163.txt	
	test164.txt	
	test165.txt	
	test166.txt	
	test167.txt	
	test168.txt	
	test169.txt	
	test170.txt	
	test171.txt	
	test172.txt	
	test173.txt	
	test174.txt	
	test175.txt	
	test176.txt	
	test177.txt	
	test178.txt	
	test179.txt	
	test180.txt	
	test181.txt	
	test182.txt	
	test183.txt	
	test184.txt	
	test185.txt	
	test186.txt	
	test187.txt	
	test188.txt	
	test189.txt	
	test190.txt	
	test191.txt	
	test192.txt	
	test193.txt	
	test194.txt	
	test195.txt	
	test196.txt	
	test197.txt	
	test198.txt	
	test199.txt	
	test200.txt	
	test201.txt	
	test202.txt	
	test203.txt	
	test204.txt	
	test205.txt	
	test206.txt	
	test207.txt	
	test208.txt	
	test209.txt	
	test210.txt	
	test211.txt	
	test212.txt	
	test213.txt	
	test214.txt	
	test215.txt	
	test216.txt	
	test217.txt	
	test218.txt	
	test219.txt	
	test220.txt	
	test221.txt	
	test222.txt	
	test223.txt	
	test224.txt	
	test225.txt	
	test226.txt	
	test227.txt	
	test228.txt	
	test229.txt	
	test230.txt	
	test231.txt	
	test232.txt	
	test233.txt	
	test234.txt	
	test235.txt	
	test236.txt	
	test237.txt	
	test238.txt	
	test239.txt	
	test240.txt	
	test241.txt	
	test242.txt	
	test243.txt	
	test244.txt	
	test245.txt	
	test246.txt	
	test247.txt	
	test248.txt	
	test249.txt	
	test250.txt	
	test251.txt	
	test252.txt	
	test253.txt	
	test254.txt	
	test255.txt	
	test256.txt	
	test257.txt	
	test258.txt	
	test259.txt	
	test260.txt	
	test261.txt	
	test262.txt	
	test263.txt	
	test264.txt	
	test265.txt	
	test266.txt	
	test267.txt	
	test268.txt	
	test269.txt	
	test270.txt	
	test271.txt	
	test272.txt	
	test273.txt	
	test274.txt	
	test275.txt	
	test276.txt	
	test277.txt	
	test278.txt	
	test279.txt	
	test280.txt	
	test281.txt	
	test282.txt	
	test283.txt	
	test284.txt	
	test285.txt	
	test286.txt	
	test287.txt	
	test288.txt	
	test289.txt	
	test290.txt	
	test291.txt	
	test292.txt	
	test293.txt	
	test294.txt	
	test295.txt	
	test296.txt	
	test297.txt	
	test298.txt	
	test299.txt	
	test300.txt	
	test301.txt	
	test302.txt	
	test303.txt	
	test304.txt	
	test305.txt	
	test306.txt	
	test307.txt	
	test308.txt	
	test309.txt	
	test310.txt	
	test311.txt	
	test312.txt	
	test313.txt	
	test314.txt	
	test315.txt	
	test316.txt	
	test317.txt	
	test318.txt	
	test319.txt	
	test320.txt	
	test321.txt	
	test322.txt	
	test323.txt	
	test324.txt	
	test325.txt	
	test326.txt	
	test327.txt	
	test328.txt	
	test329.txt	
	test330.txt	
	test331.txt	
	test332.txt	
	test333.txt	
	test334.txt	
	test335.txt	
	test336.txt	
	test337.txt	
	test338.txt	
	test339.txt	
	test340.txt	
	test341.txt	
	test342.txt	
	test343.txt	
	test344.txt	
	test345.txt	
	test346.txt	
	test347.txt	
	test348.txt	
	test349.txt	
	test350.txt	
	test351.txt	
	test352.txt	
	test353.txt	
	test354.txt	
	test355.txt	
	test356.txt	
	test357.txt	
	test358.txt	
	test359.txt	
	test360.txt	
	test361.txt	
	test362.txt	
	test363.txt	
	test364.txt	
	test365.txt	
	test366.txt	
	test367.txt	
	test368.txt	
	test369.txt	
	test370.txt	
	test371.txt	
	test372.txt	
	test373.txt	
	test374.txt	
	test375.txt	
	test376.txt	
	test377.txt	
	test378.txt	
	test379.txt	
	test380.txt	
	test381.txt	
	test382.txt	
	test383.txt	
	test384.txt	
	test385.txt	
	test386.txt	
	test387.txt	
	test388.txt	
	test389.txt	
	test390.txt	
	test391.txt	
	test392.txt	
	test393.txt	
	test394.txt	
	test395.txt	
	test396.txt	
	test397.txt	
	test398.txt	
	test399.txt	
	test400.txt	
	test401.txt	
	test402.txt	
	test403.txt	
	test404.txt	
	test405.txt	
	test406.txt	
	test407.txt	
	test408.txt	
	test409.txt	
	test410.txt	
	test411.txt	
	test412.txt	
	test413.txt	
	test414.txt	
	test415.txt	
	test416.txt	
	test417.txt	

Al momento de intentar abrir un archivo, este solo nos redirecciona al contenido del mismo, como vemos en la siguiente imagen.



Para hacer que estos se descargen, generaremos un archivo llamado **.htaccess**, al cual le colocaremos la siguiente información **AddType application/octet-stream .[extensión]**

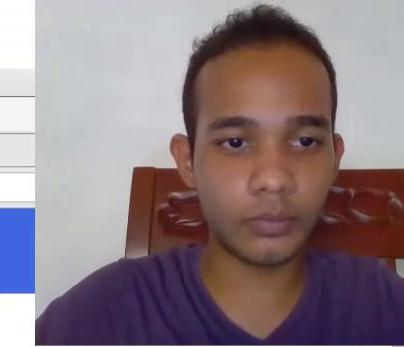
Name	Description
Parent Dir	
test1.txt	
test2.txt	
test3.txt	
test4.txt	
test5.txt	
test6.txt	
test7.txt	
wtf	
test8.txt	2019-10-15 15:06 0
test9.txt	2019-10-15 15:06 0
test10.txt	2019-10-15 15:06 0

Luego en las configuraciones del servidor cambiamos la opción **AllowOverride** en el directorio de nuestra web a **YES** y reiniciamos el servicio **httpd**

Index of /files			
Name	Type	Last Modified	Description
Parent Dir			
test1.txt	text/plain	2019-10-15 15:06	
test2.txt	text/plain	2019-10-15 15:06	
test3.txt	text/plain	2019-10-15 15:06	
test4.txt	text/plain	2019-10-15 15:06	
test5.txt	text/plain	2019-10-15 15:06	
test6.txt	text/plain	2019-10-15 15:06	
test7.txt	text/plain	2019-10-15 15:06	
test8.txt	text/plain	2019-10-15 15:06	
test9.txt	text/plain	2019-10-15 15:06	
test10.txt	text/plain	2019-10-15 15:06	

centOs-server-20186748 [Running] - Oracle VM VirtualBox

```
# Further relax access to the default document root:  
<Directory "/var/www/html/centos-server.com">  
    #  
    # Possible values for the Options directive are "None", "All",  
    # or any combination of:  
    #   Indexes FollowSymLinks SymLinksIfOwnerMatch ExecCGI MultiViews  
    #  
    # Note that "MultiViews" must be named *explicitly* --- "Options All"  
    # doesn't give it to you.  
    #  
    # The Options directive is both complicated and important. Please see  
    # http://httpd.apache.org/docs/2.4/mod/core.html#options  
    # for more information.  
    #  
    Options Indexes FollowSymLinks  
    #  
    # AllowOverride controls what directives may be placed in .htaccess files.  
    # It can be "All", "None", or any combination of the keywords:  
    #   Options FileInfo AuthConfig Limit  
    #  
    AllowOverride All  
    #  
    # Controls who can get stuff from this server.  
    #  
    Require all granted  
</Directory>  
test4.  
#  
# DirectoryIndex: sets the file that Apache will serve if a directory  
# is requested.  
test5.  
#  
#  
test6."/etc/httpd/conf/httpd.conf" 354L, 11839C written  
[root@localhost ~]# systemctl restart httpd  
test7.  
#  
#  
test8.txt  
2019-10-15 15:06  
0  
Right Ctrl
```



Luego borramos el historial de la web para que se aplique esta nueva
política

Index of /files - Mozilla Firefo

① 192.168.1.1/files

Index of /files

Name		Size	Description
Parent Directory		-	
test1.txt		9	
test2.txt		0	
test3.txt		0	
test4.txt		0	
test5.txt		0	
test6.txt		0	
test7.txt	2019-10-15 15:06	0	
test8.txt	2019-10-15 15:06	0	
test9.txt	2019-10-15 15:06	0	
test10.txt	2019-10-15 15:06	0	



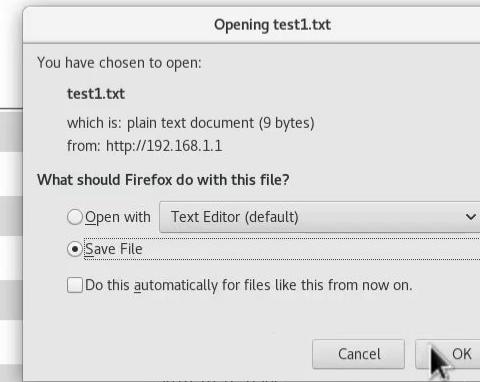
Ahora al dar clic a un archivo vemos que la opción que este nos da es de descargar

Index of /files x +

(i) 192.168.1.1/files/

Index of /files

	Name	
	Parent Directory	
	test1.txt	
	test2.txt	
	test3.txt	
	test4.txt	
	test5.txt	
	test6.txt	2019-10-15 15:06
	test7.txt	2019-10-15 15:06
	test8.txt	2019-10-15 15:06
	test9.txt	2019-10-15 15:06
	test10.txt	2019-10-15 15:06



Size	Description
-	
9	
0	
0	
0	
0	
0	
0	
0	
0	



Configurando dominios virtuales

Lo primero que necesitamos hacer es asignar a apache como propietario de nuestro directorio web con el comando **chown**

Index of /files			
		Name	Description
		Parent Director	
		test1.txt	
		test2.txt	
		test3.txt	
		test4.txt	
		test5.txt	
		test6.txt	
		test7.txt	
		test8.txt	
		test9.txt	2019-10-15 15:06 0
		test10.txt	2019-10-15 15:06 0

centOs-server-20186748 [Running] - Oracle VM VirtualBox

```
[root@localhost ~]# chown -R apache:apache /var/www/html/centos-server.com
[root@localhost ~]# _
```



Luego dentro del directorio **httpd** generamos dos directorios, uno para los sitios web disponibles y otro para los activos



centOs-cliente-20186748 [Running] - Oracle VM VirtualBox

File Machine View Input Devices Help

Applications Places Firefox

[root@localhost ~]# ls
anaconda-ks.cfg Desktop thinclient_drives
[root@localhost ~]# mkdir /etc/httpd/sites-available /etc/httpd/sites-enabled

Name	Description
 Parent Director	
 test1.txt	
 test2.txt	
 test3.txt	
 test4.txt	
 test5.txt	
 test6.txt	
 test7.txt	
 test8.txt	
 test9.txt	2019-10-15 15:06 0
 test10.txt	2019-10-15 15:06 0

 Index of /files - Mozilla Firefox

En la parte final del archivo **httpd.conf** agregamos dos opciones para permitir al servidor visualizar los archivos de configuración que crearemos en los directorio que habíamos creado antes



G4 centOs-cliente-20186748 [Running] - Oracle VM VirtualBox

File Machine View Input Devices Help

 Applications Places Firefox

Firefox

centOs-server-20186748 [Running] - Oracle VM VirtualBox

File Machine View Input Devices Help

(i) 192.168.1.1/files/

```
# The mod_mime_magic module allows the server to use various hints from the
# contents of the file itself to determine its type. The MIMEMagicFile
# directive tells the module where the hint definitions are located.
#
# MIMEMagicFile conf/magic
</IfModule>

#
# Customizable error responses come in three flavors:
# 1) plain text 2) local redirects 3) external redirects
#
# Some examples:
#ErrorDocument 500 "The server made a boo boo."
#ErrorDocument 404 /missing.html
#ErrorDocument 404 "/cgi-bin/missing_handler.pl"
#ErrorDocument 402 http://www.example.com/subscription_info.html
#
# EnableMMAP and EnableSendfile: On systems that support it,
# memory-mapping or the sendfile syscall may be used to deliver
# files. This usually improves server performance, but must
# be turned off when serving from networked-mounted
# filesystems or if support for these functions is otherwise
# broken on your system.
# Defaults if commented: EnableMMAP On, EnableSendfile Off
#
#EnableMMAP off
EnableSendfile on

# Supplemental configuration
#
# Load config files in the "/etc/httpd/conf.d" directory, if any.
IncludeOptional conf.d/*.conf
IncludeOptional sites-enabled/*.*conf

-- INSERT --
```

Description

Name	Parent Directory
test1.txt	
test2.txt	
test3.txt	
test4.txt	
test5.txt	
test6.txt	
test7.txt	
test8.txt	
test9.txt	
test10.txt	

Right Ctrl

 Index of /files - Mozilla Firefox

Luego creamos un archivo de configuración, dentro del directorio que creamos para los sitios disponibles.

Index of /files



centOs-server-20186748 [Running] - Oracle VM VirtualBox



① 192.168.1.1/files/

File Machine View Input Devices Help

```
[root@localhost sites-available]# ls
test.com.conf
[root@localhost sites-available]# mv test.com.conf centos-server.com.conf
[root@localhost sites-available]# ls
centos-server.com.conf
[root@localhost sites-available]#
```

Name

	Parent Director
	test1.txt
	test2.txt
	test3.txt
	test4.txt
	test5.txt
	test6.txt
	test7.txt
	test8.txt
	test9.txt
	test10.txt

Description



2019-10-15 15:06

0

2019-10-15 15:06

0

Dentro del archivo procedemos a agregar las configuraciones básicas para los dominios virtuales, es decir el nombre del dominio, y el directorio raíz del mismo.

Index of /files



centOs-server-20186748 [Running] - Oracle VM VirtualBox

```
NameVirtualHost *:80
<VirtualHost *:80>
    ServerName centos-server.com
    DocumentRoot /var/www/html/centos-server.com
</VirtualHost>
```

Name

	Parent Director
	test1.txt
	test2.txt
	test3.txt
	test4.txt
	test5.txt
	test6.txt
	test7.txt
	test8.txt
	test9.txt
	test10.txt

Description



2019-10-15 15:06

0

2019-10-15 15:06

0

Por último creamos un enlace virtual de nuestro archivo de configuración hacia el directorio de los sitios activos con el comando **ln -s** y los directorios de sitios disponibles y activos

[root@localhost httpd]# ls -sfn /etc/httpd/sites-available/ /etc/httpd/sites-enabled

Name	Description
Parent Director	
test1.txt	
test2.txt	
test3.txt	
test4.txt	
test5.txt	
test6.txt	
test7.txt	
test8.txt	
test9.txt	2019-10-15 15:06 0
test10.txt	2019-10-15 15:06 0

Para probar nuestro dominio es necesario haber configurado un servidor dns, pero como aun no lo hemos configurado podemos agregar las entradas de forma manual en el archivo hosts, dentro de etc

Index of /files



① 192.168.1.1/files/

```
127.0.0.1 localhost.localdomain localhost4 localhost4.localdomain4
::1 localhost.localdomain localhost6 localhost6.localdomain6
192.168.1.1 centos-server.com
```

Name

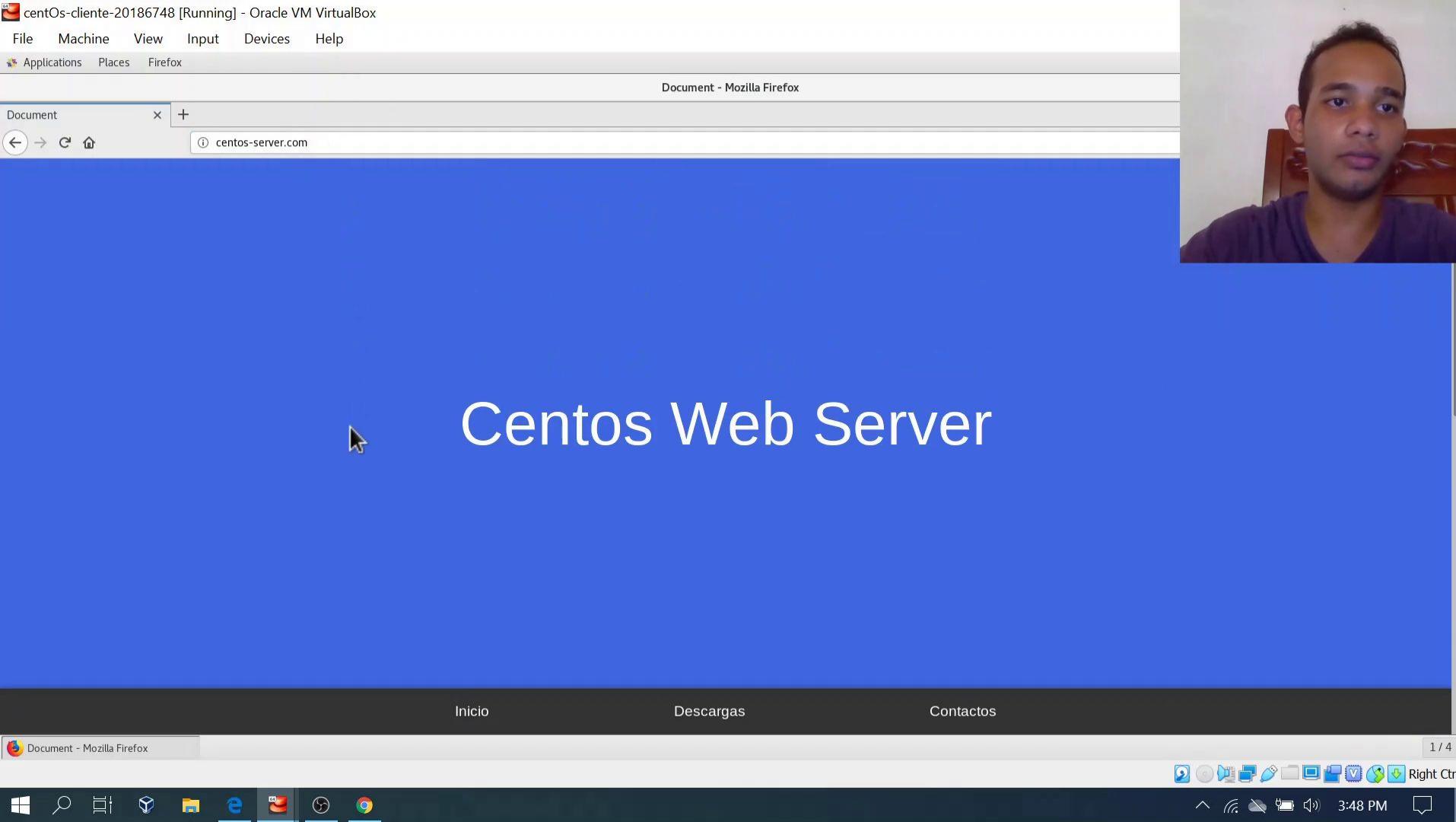
	Parent Director
	test1.txt
	test2.txt
	test3.txt
	test4.txt
	test5.txt
	test6.txt
	test7.txt
	test8.txt
	test9.txt
	test10.txt

Description

"/etc/hosts" 3L, 188C



Ahora al acceder a nuestro sitio web con el dominio que habíamos definido deberíamos de ser redireccionados a nuestra página inicial



Configurando el control de acceso

Dentro del directorio donde se encuentra la página que bloquearemos generamos un archivo **.htpasswd**. En este caso bloquearemos el directorio de descargas de archivos.



centOs-cliente-20186748 [Running] - Oracle VM VirtualBox

File Machine View Input Devices Help

 Applications Places Firefox

centOs-server-20186748 [Running] - Oracle VM VirtualBox

File Machine View Input Devices Help

```
[root@localhost httpd]# cd /var/www/html/centos-server.com/
[root@localhost centos-server.com]# ls
index.css index.html
[root@localhost centos-server.com]# cd files/
[root@localhost files]# ls
test10.txt test2.txt test4.txt test6.txt test8.txt
test1.txt test3.txt test5.txt test7.txt test9.txt
[root@localhost files]# ls -a .htaccess
.htaccess
[root@localhost files]# ls -a
. .htaccess test1.txt test3.txt test5.txt test7.txt test9.txt
.. test0.txt test2.txt test4.txt test6.txt test8.txt
[root@localhost files]# touch .htpasswd
-bash: touch: command not found
[root@localhost files]# touch .htpasswd
[root@localhost files]# _
```

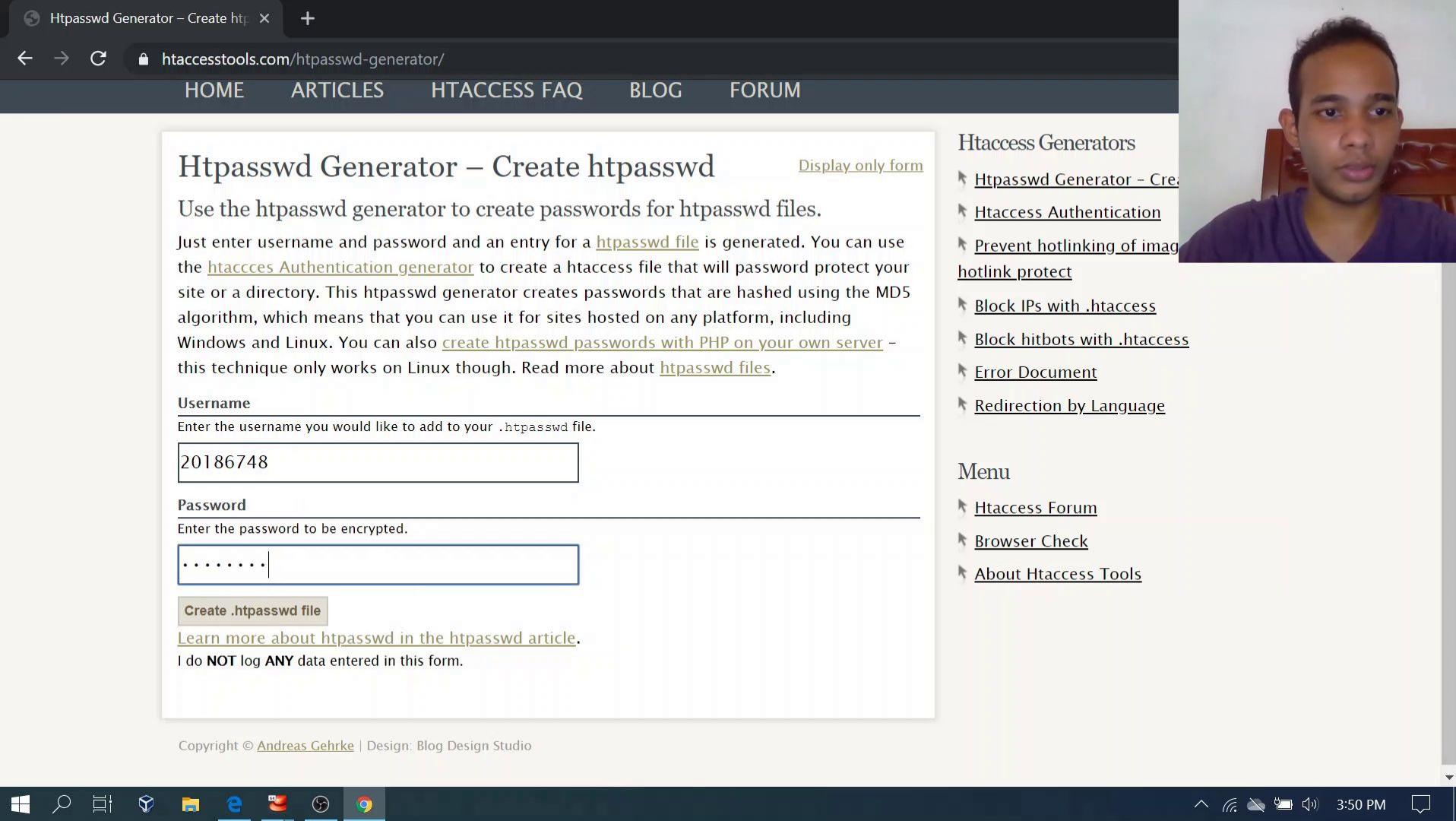
Name	Description
Parent Director	
test1.txt	
test2.txt	
test3.txt	
test4.txt	
test5.txt	
test6.txt	
test7.txt	
test8.txt	
test9.txt	2019-10-15 15:06 0
test10.txt	2019-10-15 15:06 0

 Index of /files - Mozilla Firefox

1 / 4



Ahora procedemos a generar un usuario y su contraseña encriptada en un formato legible para nuestro servidor. Para esto utilizaremos [**https://www.htaccesstools.com/htpasswd-generator**](https://www.htaccesstools.com/htpasswd-generator), donde colocaremos nuestro usuario y una la contraseña.



Htpasswd Generator – Create htpasswd

[Display only form](#)

Use the htpasswd generator to create passwords for htpasswd files.

Just enter username and password and an entry for a [htpasswd file](#) is generated. You can use the [htacces Authentication generator](#) to create a htaccess file that will password protect your site or a directory. This htpasswd generator creates passwords that are hashed using the MD5 algorithm, which means that you can use it for sites hosted on any platform, including Windows and Linux. You can also [create htpasswd passwords with PHP on your own server](#) – this technique only works on Linux though. Read more about [htpasswd files](#).

Username

Enter the username you would like to add to your .htpasswd file.

Password

Enter the password to be encrypted.

Create .htpasswd file

[Learn more about htpasswd in the htpasswd article.](#)

I do **NOT** log **ANY** data entered in this form.

Htaccess Generators

- ↳ [Htpasswd Generator – Cre...](#)
- ↳ [Htaccess Authentication](#)
- ↳ [Prevent hotlinking of imag...](#)
- ↳ [htlink_protect](#)
- ↳ [Block IPs with .htaccess](#)
- ↳ [Block hitbots with .htaccess](#)
- ↳ [Error Document](#)
- ↳ [Redirection by Language](#)

Menu

- ↳ [Htaccess Forum](#)
- ↳ [Browser Check](#)
- ↳ [About Htaccess Tools](#)

Al dar clic en generar archivo htpasswd deberíamos ver una caja de texto con nuestro usuario y la contraseña encriptada

Htpasswd Generator – Create htpasswd

htaccess tools.com/htpasswd-generator/

HOME ARTICLES HTACCESS FAQ BLOG FORUM

Htpasswd Generator – Create htpasswd

Use the htpasswd generator to create passwords for htpasswd files.

Just enter username and password and an entry for a [htpasswd file](#) is generated. You can use the [htacces Authentication generator](#) to create a htaccess file that will password protect your site or a directory. This htpasswd generator creates passwords that are hashed using the MD5 algorithm, which means that you can use it for sites hosted on any platform, including Windows and Linux. You can also [create htpasswd passwords with PHP on your own server](#) – this technique only works on Linux though. Read more about [htpasswd files](#).

.htpasswd entry created

Copy the text below into your .htpasswd file.

Remember: One entry per line.

```
20186748:$apr1$mTHBqJsX$17Zf1lonf0asnIt00WTrD0
```

[Learn more about htpasswd in the htpasswd article.](#)

I do NOT log ANY data entered in this form.

Waiting for ssl.google-analytics.com...



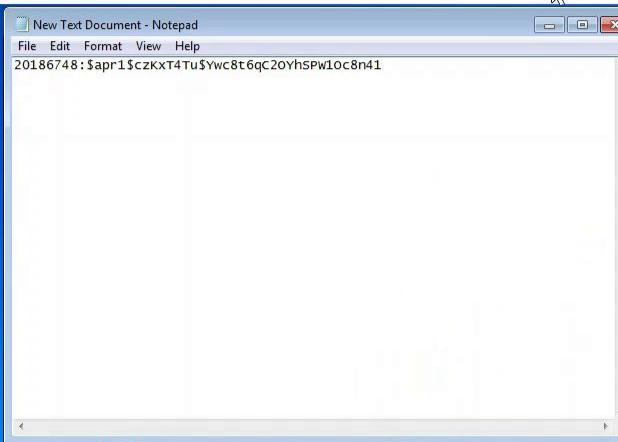
Htaccess Generators

- [Htpasswd Generator – Cre...](#)
- [Htaccess Authentication](#)
- [Prevent hotlinking of imag...](#)
- [hotlink_protect](#)
- [Block IPs with .htaccess](#)
- [Block hitbots with .htaccess](#)
- [Error Document](#)
- [Redirection by Language](#)

Menu

- [Htaccess Forum](#)
- [Browser Check](#)
- [About Htaccess Tools](#)

Lo siguiente es copiar todo el texto y colocarlo en un archivo en
nuestro cliente ftp, para transferirlo al servidor

New Rich
Text Doc...3:51 PM
10/15/2019
Right Ctrl

Una vez generado el archivo. utilizamos el método que deseemos para transferirlo de nuestro computador al servidor web



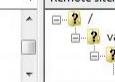
Status: Starting upload of C:\Users\w7-20186748\Desktop\New folder\index.css
 Status: File transfer successful, transferred 793 bytes in 1 second
 Status: Retrieving directory listing of "/var/ftp/pub/..."
 Status: Directory listing of "/var/ftp/pub/" successful
 Status: Disconnected from server
 Status: Connection closed by server

Local site: C:\Users\w7-20186748\Desktop\



Filename	Filesize	Filetype	Last modified
..			
New folder		File folder	10/15/2019 2:11:48...
filezilla-win.txt	0	Text Document	10/15/2019 11:41:5...
ftp-cmd.txt	16	Text Document	10/15/2019 11:42:2...
New Rich Text D...	7	Rich Text Docu...	10/15/2019 3:50:52...
New Text Docu...	46	Text Document	10/15/2019 3:51:33...

Remote site: /var/ftp/pub



Filename	Filesize	Filetype	Last modified	Permissions	Owner/Gro...
..					
backup.tar.gz	693	GZ File	10/15/2019 9:4...	-rw-----	1002 1002
filezilla-ftp	0	File	10/15/2019 7:3...	-rw-r--r--	1002 1002
filezilla-win.txt	0	Text Docu...	10/15/2019 7:4...	-rw-r--r--	1003 1003
ftp-centos	36	File	10/15/2019 7:3...	-rw-r--r--	1002 1002
ftp-cmd.txt	16	Text Docu...	10/15/2019 7:3...	-rw-r--r--	1003 1003
ftp-test	0	File	10/15/2019 7:3...	-rw-r--r--	0 0
index.css	793	Cascading ...	10/15/2019 11:...	-rw-----	1003 1003

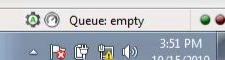
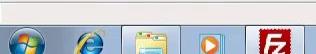


Selected 1 file. Total size: 46 bytes

7 files. Total size: 1,538 bytes

Server/Local file	Direction	Remote file	Size	Priority	Time
windows-ftp@192.168.1.1					
C:\Users\w7-20186748\Desktop\New folder\index.css	>>>	/var/ftp/pub/index.html	3,773	Normal	10/15/2019 2:59:34 PM
C:\Users\w7-20186748\Desktop\New folder\index.css	>>>	/var/ftp/pub/index.css	793	Normal	10/15/2019 3:02:16 PM

Queued files Failed transfers Successful transfers (2)


 3:51 PM 10/15/2019
 Queue: empty
 Right Ctrl


Lo siguiente que debemos hacer es transferir el archivo que colocamos en nuestro servidor al directorio donde se encuentra la página que estaremos restringiendo



Status: Insecure server, it does not support FTP over TLS.
 Status: Logged in
 Status: Starting upload of C:\Users\w7-20186748\Desktop\New Text Document.txt
 Status: File transfer successful, transferred 46 bytes in 1 second
 Status: Retrieving directory listing of "/var/ftp/pub"..."
 Status: Directory listing of "/var/ftp/pub" successful

Local site: C:\Users\w7-20186748\Desktop\

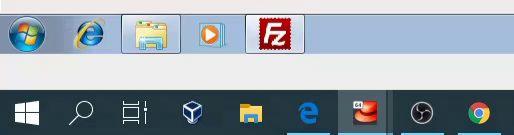


Filename	Filesize	Filetype	Last modified
..			
New folder		File folder	10/15/2019 2:11:48...
filezilla-win.txt	0	Text Document	10/15/2019 11:41:5...
ftp-cmd.txt	16	Text Document	10/15/2019 11:42:2...
New Rich Text D...	7	Rich Text Docu...	10/15/2019 3:50:52...
New Text Docu...	46	Text Document	10/15/2019 3:51:33...

Selected 1 file. Total size: 46 bytes

Server/Local file	Direction	Remote file	Size	Priority	Time
windows-ftp@192.168.1.1					
C:\Users\w7-20186748\Desktop\New Text Document.txt	>>>	/var/ftp/pub/index.html	3,773	Normal	10/15/2019 2:59:34 PM
C:\Users\w7-20186748\Desktop\New Text Document.txt	>>>	/var/ftp/pub/index.css	793	Normal	10/15/2019 3:02:16 PM

Queued files Failed transfers Successful transfers (3)



```
w7-20186748 [Running] - Oracle VM VirtualBox
File Machine View Input Devices Help
File Edit View Transfer Server Bookmarks Help
Host: 192.168.1.1 Username: windows-ftp Password: *****
Status: Insecure server, it does not support FTP over TLS.
Status: Logged in
Status: Starting upload of C:\Users\w7-20186748\Desktop\New Text Document.txt
Status: File transfer successful, transferred 46 bytes in 1 second
Status: Retrieving directory listing of "/var/ftp/pub"...
Status: Directory listing of "/var/ftp/pub" successful

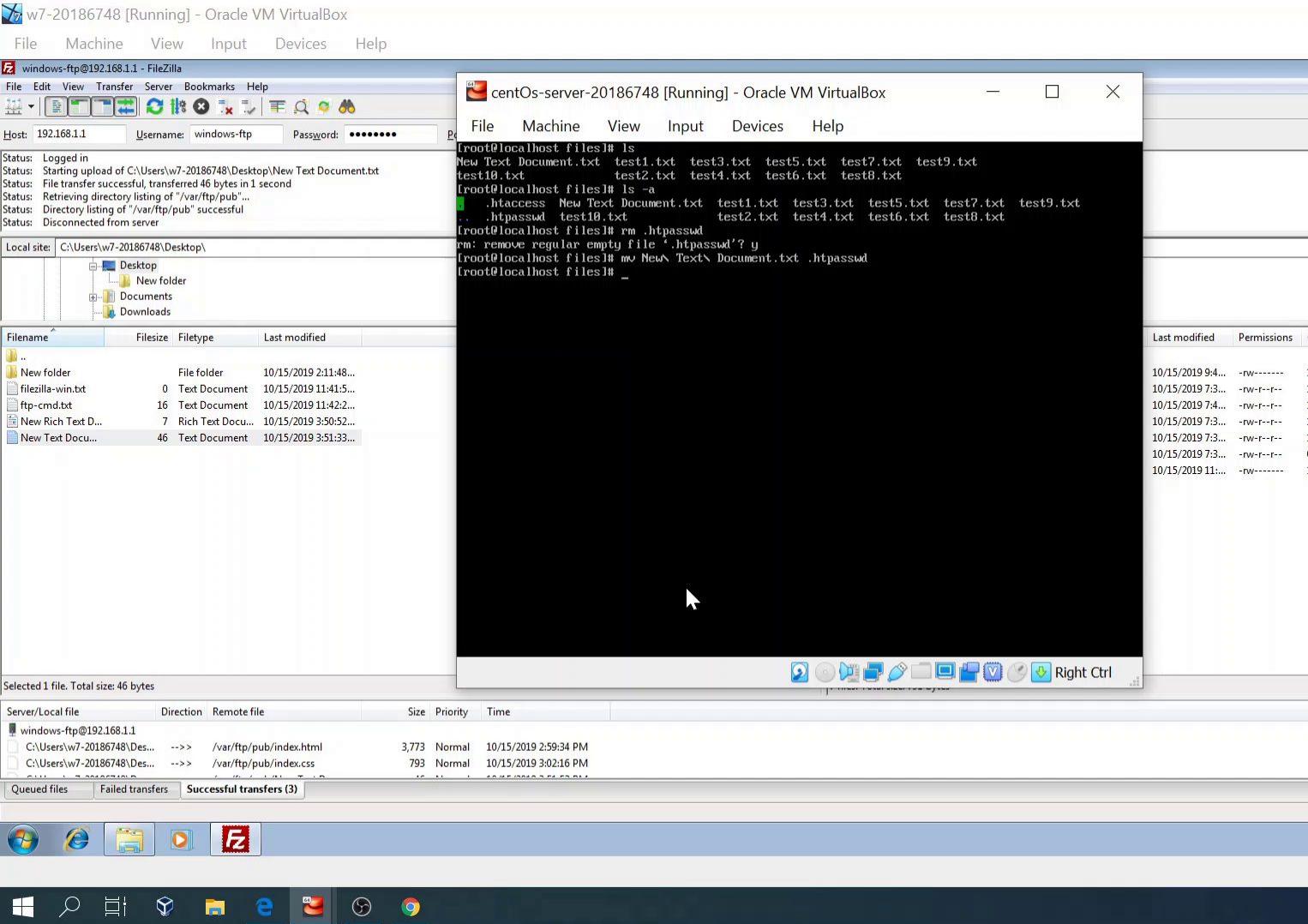
Local site: C:\Users\w7-20186748\Desktop\

centOs-server-20186748 [Running] - Oracle VM VirtualBox
File Machine View Input Devices Help
File Edit View Transfer Server Bookmarks Help
root@localhost ~# cd /var/www/html/centos-server.com/
root@localhost centos-server.com# ls
index.html index.css
root@localhost centos-server.com# cd files/
root@localhost files# ls
test10.txt test2.txt test4.txt test6.txt test8.txt
test1.txt test3.txt test5.txt test7.txt test9.txt
root@localhost files# ls -a .htaccess
.root .htaccess
root@localhost files# ls -a .htaccess test1.txt test3.txt test5.txt test7.txt test9.txt
.. test10.txt test2.txt test4.txt test6.txt test8.txt
root@localhost files# touch .htpasswd
-bash: touch: command not found
root@localhost files# touch .htpasswd
root@localhost files# ls
test10.txt test2.txt test4.txt test6.txt test8.txt
test1.txt test3.txt test5.txt test7.txt test9.txt
root@localhost files# ls -a .htaccess test10.txt test2.txt test4.txt test6.txt test8.txt
.. .htpasswd test1.txt test3.txt test5.txt test7.txt test9.txt
root@localhost files# ls
test10.txt test2.txt test4.txt test6.txt test8.txt
test1.txt test3.txt test5.txt test7.txt test9.txt
root@localhost files# mv /etc/f
favicon.png firewalld/ fonts/ fstab
filesystems flatpak/ fprintd.conf fuse.conf
root@localhost files# mv /var/ftp/pub/New\ Text\ Document.txt .
root@localhost files# ls
New Text Document.txt test1.txt test3.txt test5.txt test7.txt test9.txt
test10.txt test2.txt test4.txt test6.txt test8.txt
root@localhost files# _
```

	Last modified	Permissions	Owner/Gro...
10/15/2019 9:4...	-rw-----	1002 1002	
10/15/2019 7:3...	-rw-r--r--	1002 1002	
10/15/2019 7:4...	-rw-r--r--	1003 1003	
10/15/2019 7:3...	-rw-r--r--	1002 1002	
10/15/2019 7:3...	-rw-r--r--	1003 1003	
10/15/2019 7:3...	-rw-r--r--	0 0	
10/15/2019 11:...	-rw-----	1003 1003	



Ahora simplemente copiamos el contenido de nuestro archivo de texto a nuestro .htpasswd, o simplemente le cambiamos el nombre a nuestro archivo por .htpasswd



Por último comprobamos que el archivo se haya generado correctamente con los datos establecidos. para esto simplemente lo abrimos



w7-20186748 [Running] - Oracle VM VirtualBox

File Machine View Input Devices Help

windows-ftp@192.168.1.1 - FileZilla

File Edit View Transfer Server Bookmarks Help

Host: 192.168.1.1 Username: windows-ftp Password: ······

Status: Logged in
Status: Starting upload of C:\Users\w7-20186748\Desktop\New Text Document.txt
Status: File transfer successful, transferred 46 bytes in 1 second
Status: Retrieving directory listing of '/var/ftp/pub'...
Status: Directory listing of '/var/ftp/pub' successful
Status: Disconnected from server

Local site: C:\Users\w7-20186748\Desktop

Desktop New folder Documents Downloads

Filename	Filesize	Filetype	Last modified
..			
New folder		File folder	10/15/2019 2:11:48...
filezilla-win.txt	0	Text Document	10/15/2019 11:41:5...
ftp-cmd.txt	16	Text Document	10/15/2019 11:42:2...
New Rich Text D...	7	Rich Text Docu...	10/15/2019 3:50:52...
New Text Docu...	46	Text Document	10/15/2019 3:51:33...

Selected 1 file. Total size: 46 bytes

centOs-server-20186748 [Running] - Oracle VM VirtualBox

File Machine View Input Devices Help

20186748:\$apr1\$czKxT4Tu\$YwC0t6qC20YhSPWl0c8n41

".htpasswd" [noeol] 1L, 46C

Server/Local file Direction Remote file Size Priority Time

Server/Local file	Direction	Remote file	Size	Priority	Time
windows-ftp@192.168.1.1					
C:\Users\w7-20186748\Desktop\New Text Document.txt	>>>	/var/ftp/pub/index.html	3,773	Normal	10/15/2019 2:59:34 PM
C:\Users\w7-20186748\Desktop\New Text Document.txt	>>>	/var/ftp/pub/index.css	793	Normal	10/15/2019 3:02:16 PM

Queued files Failed transfers Successful transfers (3)

Windows Taskbar icons: FileZilla, Internet Explorer, File Explorer, Google Chrome.

Ahora nos vamos a nuestro archivo **.htaccess**, y colocamos las opciones de autenticación, definiendo el tipo de autenticación, el nombre, donde se encuentra el archivo **.htpasswd**, y al final requerimos un usuario válido

500 Internal Server Error - Mozilla Firefox

500 Internal Server Error +centos-server.com/files/

Internal Server Error

The server encountered an internal error or misconfiguration and was unable to complete your request.

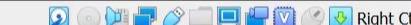
Please contact the server administrator at root@localhost to inform them of the time this error occurred.

More information about this error may be available in the server error log.

centOs-server-20186748 [Running] - Oracle VM VirtualBox

```
File Machine View Input Devices Help
AuthType Basic
AuthName "Solo Personal autorizado"
AuthUserFile /var/www/html/centos-server.com/files/.htpasswd
Require valid-user
AddType application/octet-stream .txt
```

-- INSERT --



Para aplicar los cambios en nuestro cliente procedemos a borrar el historial de navegación

Index of /files - Mozilla Firefox

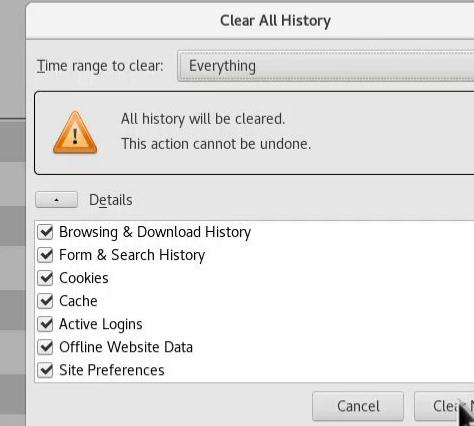
Index of /files



centos-server.com/files/

Index of /files

Name		Size	Description
	Parent Directory	-	
	test1.txt	9	
	test2.txt	0	
	test3.txt	0	
	test4.txt	0	
	test5.txt	0	
	test6.txt	0	
	test7.txt	0	2019-10-15 15:06
	test8.txt	0	2019-10-15 15:06
	test9.txt	0	2019-10-15 15:06
	test10.txt	0	2019-10-15 15:06



Al reiniciar nuevamente la página e intentar acceder al directorio restringido, vemos que nos pide nuestras credenciales.

• Document x +

 centos-server.com/files

Authentication Required

 http://centos-server.com is requesting your username and password. The site says: "Solo Personal autorizado"

User Name:

Password:

Waiting for centos-server.com...

Inicio

Descargas

Contactos

Document - Mozilla Firefox

1 / 4



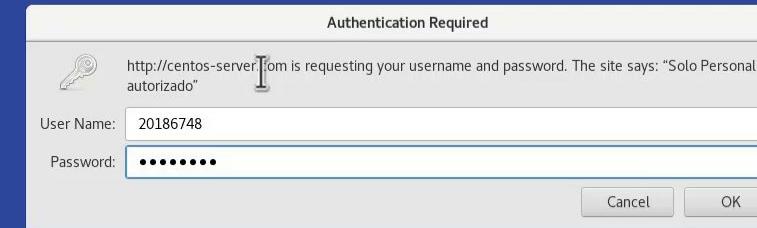
Para probar nuestra autenticación, simplemente colocamos los datos de usuario que habíamos definidos en el archivo **.htpasswd**

+ Document

x

+

centos-server.com/files



Waiting for centos-server.com...

Inicio

Descargas

Contactos

Document - Mozilla Firefox

1 / 4



Si todo se ha configurado correctamente, al momento de colocar nuestras credenciales correctamente, deberíamos haber accedido a la página que habíamos restringido.

Index of /files - Mozilla Fire

 centos-server.com/files

2018674

• • • • •

Don't Say

Index of /file

		Last modified	Size	Description
	Parent Directory		-	
	test1.txt	2019-10-15 15:06	9	
	test2.txt	2019-10-15 15:05	0	
	test3.txt	2019-10-15 15:05	0	
	test4.txt	2019-10-15 15:06	0	
	test5.txt	2019-10-15 15:06	0	
	test6.txt	2019-10-15 15:06	0	
	test7.txt	2019-10-15 15:06	0	
	test8.txt	2019-10-15 15:06	0	
	test9.txt	2019-10-15 15:06	0	
	test10.txt	2019-10-15 15:06	0	