

# HTTP

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## Instalar:

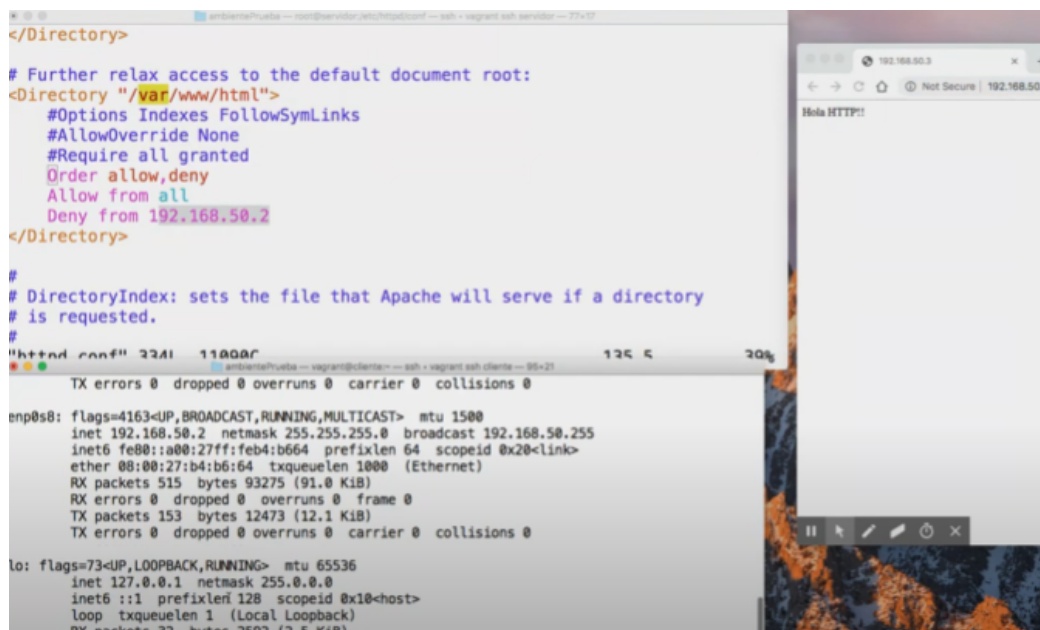
```
rpm -q httpd
yum install httpd
cd /var/www/html/
ls
touch index.html
vim index.html
chmod 755 index.html
service httpd status
service httpd start

ping server.servicios.com
sudo yum install wget
wget server.zuniga.com
curl server.zuniga.com - mostrar texto
```

## Archivo de configuración:

```
cd /etc/httpd/conf
vim httpd.conf
service httpd restart
```

## Negar acceso:



```

# Further relax access to the default
<Directory "/var/www/html">

#   Options Indexes FollowSymLinks
#   AllowOverride None
#   Require all granted
Order allow, deny
Allow from all
Deny from 192.168.50.2
</Directory>

```

## Archivos de claves

### Servidor

```

htpasswd -c /etc/httpd/claves juan
htpasswd -c /etc/httpd/.htpasswd juan
juan
cd /var/www/html/
mkdir protegido
cd /etc/httpd/conf
vim httpd.conf
service httpd restart

```

```

<Directory "/var/www/html/inventario">
AuthType Basic
AuthName "Directorio protegido"
AuthUserFile /etc/httpd/claves
Require valid-user
</Directory>

```

### Creación:

```

cd /var/www/html/protegido
touch pagina.html
vim index.html
chmod 755 miotrositio
service httpd restart

```

## Práctica

En httpd.conf

```
GNU nano 2.9.8 /etc/httpd/conf.d/userdir.conf

#
# UserDir: The name of the directory that is appended onto a user's home
# directory if a ~user request is received.
#
# The path to the end user account 'public_html' directory must be
# accessible to the webserver userid. This usually means that ~userid
# must have permissions of 711, ~userid/public_html must have permissions
# of 755, and documents contained therein must be world-readable.
# Otherwise, the client will only receive a "403 Forbidden" message.
#
<IfModule mod_userdir.c>
    #
    # UserDir is disabled by default since it can confirm the presence
    # of a username on the system (depending on home directory
    # permissions).
    #
    # UserDir disabled

    #
    # To enable requests to ~user/ to serve the user's public_html
    # directory, remove the "UserDir disabled" line above, and uncomment
    # the following line instead:
    #
    UserDir public_html
</IfModule>

#
# Control access to UserDir directories. The following is an example
# for a site where these directories are restricted to read-only.
#
<Directory "/home/*/public_html">
    AllowOverride All
    Options None
    Require method GET POST OPTIONS
</Directory>

<Directory "/home/juang/public_html">
    AllowOverride All
    Options None
    Require method GET POST OPTIONS
    DirectoryIndex juang.html
</Directory>

<Directory "/home/mariam/public_html">
    AllowOverride All
    Options None
    Require method GET POST OPTIONS
    DirectoryIndex mariam.html
</Directory>

<Directory "/home/pedrop/public_html">
    AllowOverride All
    Options None
    Require method GET POST OPTIONS
    DirectoryIndex pedro.html
</Directory>

^G Get Help      ^O Write Out    ^W Where Is     ^K Cut Text     ^J Justify
^X Exit          ^R Read File    ^\ Replace      ^U Uncut Text   ^T To Spell
```

```

# <VirtualHost> definition. These values also pro
# any <VirtualHost> containers you may define later
#
# All of these directives may appear inside <VirtualHost>
# in which case these default settings will be overriden by the
# virtual host being defined.
#
#
# ServerAdmin: Your address, where problems with the server can be
# e-mailed. This address appears on some server-generated
# as error documents. e.g. admin@your-domain.com
#
ServerAdmin root@zuniga.com
#
# ServerName gives the name and port that the server will use to
# This can often be determined automatically, but it is recommended
# it explicitly to prevent problems during startup.
#
# If your host doesn't have a registered DNS name, you can use a
#
ServerName www.zuniga.com:80
#
# Deny access to the entirety of your server's filesystem by default.
# explicitly permit access to web content directories below.
# <Directory> blocks below.

```

```

#
# 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.

<VirtualHost *:80>
    ServerName www.miotrositio.com
    ServerAlias miotrositio.com
    DocumentRoot /var/www/miotrositio
    CustomLog /var/www/miotrositio/request.log combined
</VirtualHost>

<VirtualHost *:80>
    ServerName server.servicios.com
    ServerAlias www.zuniga.com
    DocumentRoot /var/www/html
    CustomLog /var/www/html/request.log combined
</VirtualHost>

IncludeOptional conf.d/*.conf

```

## LISTADO DE COMANDOS PARA EL DESARROLLO DE LOS 5 PUNTOS

```
[root@servidor html]# cd
[root@servidor ~]# cd /etc/httpd/conf
[root@servidor conf]# vim httpd.conf
[root@servidor conf]# service http restart
Redirecting to /bin/systemctl restart http.service
Failed to restart http.service: Unit http.service not found.
[root@servidor conf]# service httpd restart
Redirecting to /bin/systemctl restart httpd.service
Job for httpd.service failed because the control process exited with error code.
See "systemctl status httpd.service" and "journalctl -xe" for details.
[root@servidor conf]# htpasswd -c /etc/httpd/claves juan
New password:
Re-type new password:
Adding password for user juan
[root@servidor conf]# cd /var/www/html/
[root@servidor html]# mkdir protegido
[root@servidor html]# cd protegido
[root@servidor protegido]# cd /etc/httpd/conf
[root@servidor conf]# vim httpd.conf
[root@servidor conf]# service httpd restart
Redirecting to /bin/systemctl restart httpd.service
[root@servidor conf]# cd /var/www/html/protegido
[root@servidor protegido]# touch pagina.html
[root@servidor protegido]# ls
pagina.html
[root@servidor protegido]# vim pagina.html
[root@servidor protegido]# [root@servidor protegido]# ls
pagina.html
[root@servidor protegido]# chmod 755 pagina.html
[root@servidor protegido]# ls
pagina.html
[root@servidor protegido]# service httpd restart
Redirecting to /bin/systemctl restart httpd.service
[root@servidor protegido]# cd /var/www/
[root@servidor www]# ls
cgi-bin  html
[root@servidor www]# mkdir miotrositio
[root@servidor www]# ls
cgi-bin  html  miotrositio
[root@servidor www]# cd /miotrositio
-bash: cd: /miotrositio: No such file or directory
[root@servidor www]# cd /miotrositio/
-bash: cd: /miotrositio/: No such file or directory
[root@servidor www]# cd miotrositio/
[root@servidor miotrositio]# sudo yum install nano -y
Last metadata expiration check: 2:08:10 ago on Tue 21 Feb 2023 01:33:10 AM UTC.
Dependencies resolved.
```

Package	Architecture	Version
---------	--------------	---------

```

Installed:
  nano-2.9.8-1.el8.x86_64

Complete!
[root@servidor miotrositio]# nano index.html
[root@servidor miotrositio]# chmod 755 index.html
[root@servidor miotrositio]# ls -l
ls: cannot access '-': No such file or directory
ls: cannot access 'l': No such file or directory
[root@servidor miotrositio]# ls -l
total 4
-rwxr-xr-x 1 root root 27 Feb 21 03:42 index.html
[root@servidor miotrositio]# cd
[root@servidor ~]# cd /var
[root@servidor var]# cd /www
-bash: cd: /www: No such file or directory
[root@servidor var]# cd www
[root@servidor www]# ls
cgi-bin  html  miotrositio
[root@servidor www]# chmod 755 miotrositio
[root@servidor www]# chown -r apache:apache /var/www/miotrositio
-bash: chown: command not found
[root@servidor www]# chown -R apache:apache /var/www/miotrositio
-bash: chown: command not found
[root@servidor www]# chown -R apache:apache /var/www/miotrositio
[root@servidor www]# chown -R apache:apache /var/www/miotrositio/html
chown: cannot access '/var/www/miotrositio/html': No such file or directory
[root@servidor www]# chown -R apache:apache /var/www/html
[root@servidor www]# chmod 755 /var/www
[root@servidor www]# cd /etc/httpd/conf
[root@servidor conf]# nano httpd.conf
[root@servidor conf]# [root@servidor conf]# nano httpd.conf
[root@servidor conf]# nano httpd.conf
[root@servidor conf]# service httpd restart
Redirecting to /bin/systemctl restart httpd.service

```

## USUARIOS:

```

[root@servidor conf]# cd /home
[root@servidor home]# ls
daniela  vagrant
[root@servidor home]# useradd pedrop
[root@servidor home]# useradd mariam
[root@servidor home]# useradd juang
[root@servidor home]# chmod 755 pedrop
[root@servidor home]# chmod 755 mariam
[root@servidor home]# chmod 755 juang
[root@servidor home]# cd pedrop
[root@servidor pedrop]# mkdir public_html

```

root@servidor:/var/www/html

```
[root@servidor home]# cd pedrop
[root@servidor pedrop]# mkdir public_html
[root@servidor pedrop]# ls
public_html
[root@servidor pedrop]# chmod 755 public_html
[root@servidor pedrop]# ls
public_html
[root@servidor pedrop]# cd public_html
[root@servidor public_html]# nano pedro.html
[root@servidor public_html]# chmod 755 pedro.html
[root@servidor public_html]# ls
pedro.html
[root@servidor public_html]# cd ..
[root@servidor pedrop]# cd ..
[root@servidor home]# ls
daniela  juang  mariam  pedrop  vagrant
[root@servidor home]# cd juang
[root@servidor juang]# mkdir public_html
[root@servidor juang]# chmod 755 public_html
[root@servidor juang]# cd public_html
[root@servidor public_html]# nano juang.html
[root@servidor public_html]# [root@servidor public_html]# chmod 755 juang.html
[root@servidor public_html]# ls
juang.html
[root@servidor public_html]# cd ..
[root@servidor juang]# cd ..
[root@servidor home]# cd mariam
[root@servidor mariam]# mkdir public_html
[root@servidor mariam]# chmod 755 public_html
[root@servidor mariam]# cd public_html
[root@servidor public_html]# nano mariam.html
[root@servidor public_html]# nano mariam.html
[root@servidor public_html]# chmod 755 mariam.html
[root@servidor public_html]# ls
mariam.html
[root@servidor public_html]# nano /etc/httpd/conf.d/userdir.conf
[root@servidor public_html]# service httpd restart
Redirecting to /bin/systemctl restart httpd.service
```



## PROTEGIDOS

```
[root@servidor public_html]# cd /var/www/html/
[root@servidor html]# mkdir inventario
[root@servidor html]# cd /etc/httpd/conf
[root@servidor conf]# vim httpd.conf
[root@servidor conf]# service httpd restart
Redirecting to /bin/systemctl restart httpd.service
[root@servidor conf]# cd /var/www/html/
[root@servidor html]# ls
index.html  inventario  protegido  request.log
[root@servidor html]# cd inventario
[root@servidor inventario]# touch pagina.html
[root@servidor inventario]# vim index.html
[root@servidor inventario]# [root@servidor inventario]# chmod 755 index.html
[root@servidor inventario]# ls
index.html  pagina.html
[root@servidor inventario]# rm pagina.html
rm: remove regular empty file 'pagina.html'? y
[root@servidor inventario]# ls
index.html
[root@servidor inventario]# service httpd restart
Redirecting to /bin/systemctl restart httpd.service
[root@servidor inventario]# cd /var/www/html
[root@servidor html]# ls
index.html  inventario  protegido  request.log
[root@servidor html]#
```

```
[root@servidor www]# cd html
[root@servidor html]# ls
access  index.html  inventario  protegido  request.log
```

```
<Directory "/var/www">
    AllowOverride None
    # Allow open access:
    Require all granted
</Directory>

# Further relax access to the default document root:
<Directory "/var/www/html">
    # Options Indexes FollowSymLinks
    # AllowOverride None
    # Require all granted
    Order allow,deny
    Allow from all
    Deny from 192.168.50.2
</Directory>

<Directory "/var/www/html/protegido">
    AuthType Basic
    AuthName "Directorio protegido"
    AuthUserFile /etc/httpd/claves
    Require valid-user
</Directory>

<Directory "/var/www/html/inventario">
    AuthType Basic
    AuthName "Directorio protegido"
    AuthUserFile /etc/httpd/claves
    Require valid-user
</Directory>

<Directory "/var/www/html/access">
    AllowOverride All
</Directory>
```



## HOSTS

Para Configurar el mismo servidor con dos sitios

### Servidor

*service named restart*

### Cliente:

*vim /etc/resolv.conf*

```
# Generated by NetworkManager
search uao.edu.co
nameserver 192.168.50.3
~
~
```

*ping www.zuniga.com*

### Windows:

*ping [www.zuniga.com](http://www.zuniga.com)*

```
C:\Users\Daniela>ping www.zuniga.com

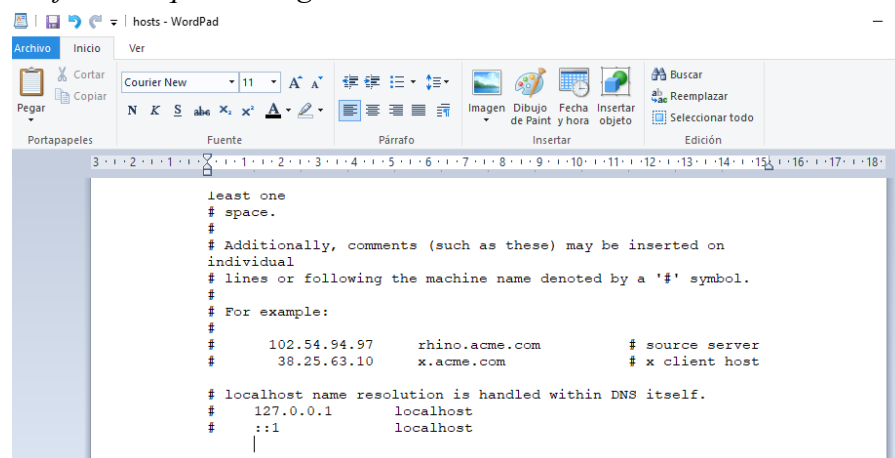
Haciendo ping a www.zuniga.com [216.40.34.37] con 32 bytes de datos:
Respuesta desde 216.40.34.37: bytes=32 tiempo=125ms TTL=43
Respuesta desde 216.40.34.37: bytes=32 tiempo=124ms TTL=43
Respuesta desde 216.40.34.37: bytes=32 tiempo=128ms TTL=43
Respuesta desde 216.40.34.37: bytes=32 tiempo=132ms TTL=43

Estadísticas de ping para 216.40.34.37:
    Paquetes: enviados = 4, recibidos = 4, perdidos = 0
        (0% perdidos),
    Tiempos aproximados de ida y vuelta en milisegundos:
        Mínimo = 124ms, Máximo = 132ms, Media = 127ms

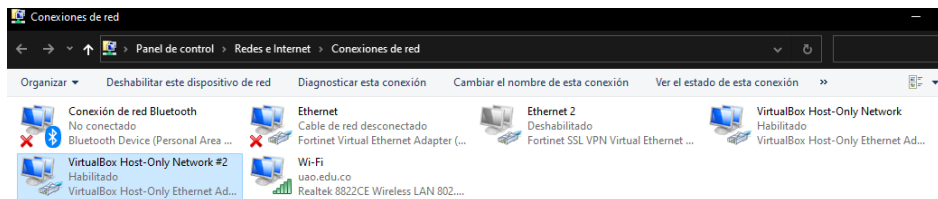
C:\Users\Daniela>ping www.zuniga.com
```

*La respuesta no es desde donde se quiere entonces se tiene que configurar*

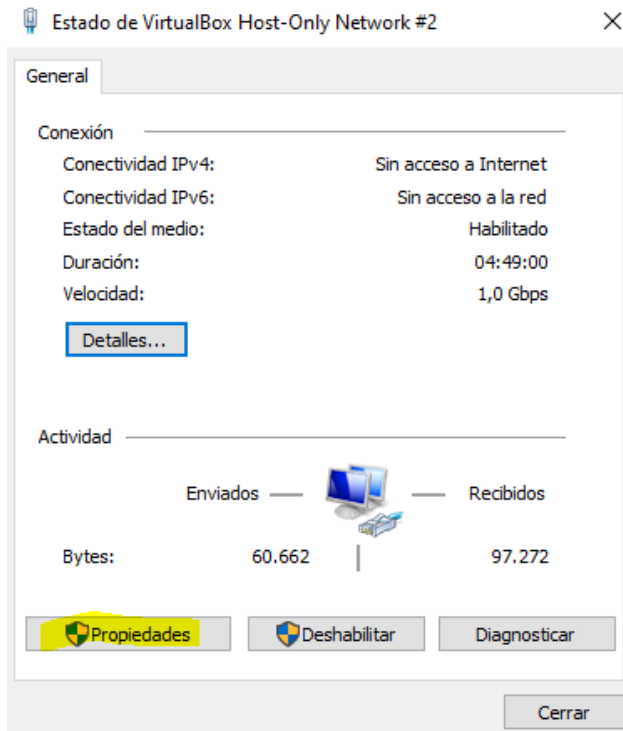
### 1. verificamos que no tengamos nada hosts



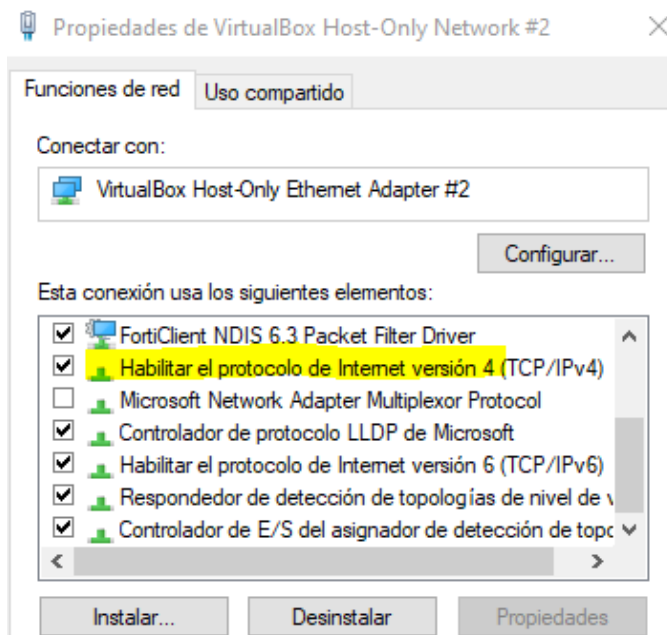
2. *Vamos a conexiones de red*



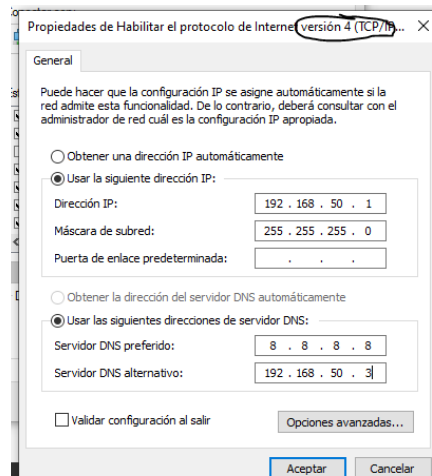
3. *Entramos a virtualbox #2 y damos click en propiedades*



4. *Buscamos esta opción, la seleccionamos y entramos a propiedades*



5. Configuramos el servidor dns preferido a 8.8.8.8 y el otro a la ruta que tenemos



Ahí ya tendríamos apuntando a nuestro dns que configuramos anteriormente, para tener los dos sitios debemos configurar dos zonas dentro de este dns y listo

```
C:\Users\Daniela>ping www.zuniga.com

Haciendo ping a server.zuniga.com [192.168.50.3] con 32 bytes de datos:
Respuesta desde 192.168.50.3: bytes=32 tiempo<1m TTL=64
Respuesta desde 192.168.50.3: bytes=32 tiempo<1m TTL=64
Respuesta desde 192.168.50.3: bytes=32 tiempo<1m TTL=64
Respuesta desde 192.168.50.3: bytes=32 tiempo<1m TTL=64

Estadísticas de ping para 192.168.50.3:
    Paquetes: enviados = 4, recibidos = 4, perdidos = 0
    (0% perdidos),
    Tiempos aproximados de ida y vuelta en milisegundos:
    Mínimo = 0ms, Máximo = 0ms, Media = 0ms
```

Aquí podemos ver que la respuesta ya es desde donde configuramos

## DNS

```
[root@servidor named]# cd /etc/
[root@servidor etc]# vim named.conf
[root@servidor etc]# cd /var/named/
[root@servidor named]# LS
-bash: LS: command not found
[root@servidor named]# ls
chroot      data      named.ca  named.loopback  slaves      zuniga.com.rev
chroot_sdb  dynamic  named.empty  named.localhost  zuniga.com.fwd
[root@servidor named]# cp zuniga.com.fwd servicios.com.fwd
[root@servidor named]# cp zuniga.com.rev servicios.com.rev
[root@servidor named]# ls
chroot      dynamic  named.localhost  servicios.com.rev  zuniga.com.rev
chroot_sdb  named.ca  named.loopback   slaves
data        named.empty  servicios.com.fwd  zuniga.com.fwd
[root@servidor named]# vim servicios.com.fwd
[root@servidor named]# vim servicios.com.rev
[root@servidor named]#
```

```

zone "." IN {
    type hint;
    file "named.ca";
};

/* Zona hacia adelante */

zone "zuniga.com" IN {
    type master;
    file "zuniga.com.fwd";
};

/*Zona reversa */

zone "50.168.192.in-addr.arpa" IN {
    type master;
    file "zuniga.com.rev";
};

/* Zona hacia adelante */

zone "servicios.com" IN {
    type master;
    file "servicios.com.fwd";
};

```

## ERROR - NO SE PUEDE TENER DOS zone '50.168.192.in-addr.arpa' ELIMINAR ZONA REVERSA

```

[root@servidor named]# service named restart
Redirecting to /bin/systemctl restart named.service
Job for named.service failed because the control process exited with error code.
See "systemctl status named.service" and "journalctl -xe" for details.
[root@servidor named]# named-checkconf
/etc/named.conf:82: zone '50.168.192.in-addr.arpa': already exists previous definit
ion: /etc/named.conf:68
[root@servidor named]# cd /etc/
[root@servidor etc]# vim named.conf
[root@servidor etc]# cd /var/named/
[root@servidor named]# ls
chroot      dynamic      named.localhost  servicios.com.rev  zuniga.com.rev
chroot_sdb  named.ca     named.loopback   slaves
data        named.empty  servicios.com.fwd  zuniga.com.fwd
[root@servidor named]# rm servicios.com.rev
rm: remove regular file 'servicios.com.rev'? y
[root@servidor named]# service named restart
Redirecting to /bin/systemctl restart named.service

```

```

$ORIGIN servicios.com.
$TTL 3H
@      IN SOA  server.servicios.com. root@servicios.com. (
                                0      ; serial
                                1D      ; refresh
                                1H      ; retry
                                1W      ; expire
                                3H )   ; minimum
@      IN     NS   server.servicios.com.

;host en la zona

server IN A 192.168.50.3
cliente IN A 192.168.50.2
www IN CNAME server
user IN CNAME cliente

```

service named restart

## SUSTENTACIÓN

### INICIO:

*vagrant ssh servidor*

*sudo -i*

*service httpd start*

### MI OTRO SITIO:

```
[root@servidor ~]# cd /var/www/  
[root@servidor www]# ls  
cgi-bin  html  miotrositio  
[root@servidor www]# cd miotrositio  
[root@servidor miotrositio]# ls  
index.html  request.log
```

*cd /var/www/*

*ls*

*cd miotrositio*

*http://server.servicios.com/*

### PROTEGIDOS

*http://server.zuniga.com/inventario/index.html*

*http://server.zuniga.com/access/main.html*

```
[root@servidor public_html]# cd /var/www/html/  
[root@servidor html]# ls  
access  index.html  inventario  protegido  request.log  
[root@servidor html]# cd access  
[root@servidor access]# ls  
main.html  
[root@servidor access]# vim main.html
```

### USUARIOS - PAG

```
[root@servidor miotrositio]# cd /home  
[root@servidor home]# ls  
daniela  juang  mariam  pedrop  vagrant  
[root@servidor home]# cd juang  
[root@servidor juang]# ls  
public  html  
[root@servidor juang]# cd public_html  
[root@servidor public_html]# ls  
juang.html  
[root@servidor public_html]# vim juang.html
```

*http://server.zuniga.com/~pedrop/*

*http://server.zuniga.com/~juang/*

*http://server.zuniga.com/~mariam/*