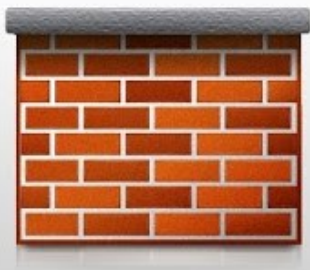


Practica Fire wall.



Iptables

Ramón Botella Alfonso.

Configuración de redes.

Router.

```
GNU nano 2.5.3      Archivo: /etc/network/interfaces

# This file describes the network interfaces available on your system
# and how to activate them. For more information, see interfaces(5).

source /etc/network/interfaces.d/*

# The loopback network interface
auto lo
iface lo inet loopback

auto enp0s3
iface enp0s3 inet static
    address 10.0.0.1
    netmask 255.255.255.0
    broadcast 10.0.0.255
    network 10.0.0.0

auto enp0s8
iface enp0s8 inet static
    address 192.168.1.1
    netmask 255.255.255.0
    broadcast 192.168.1.255
    network 192.168.1.0

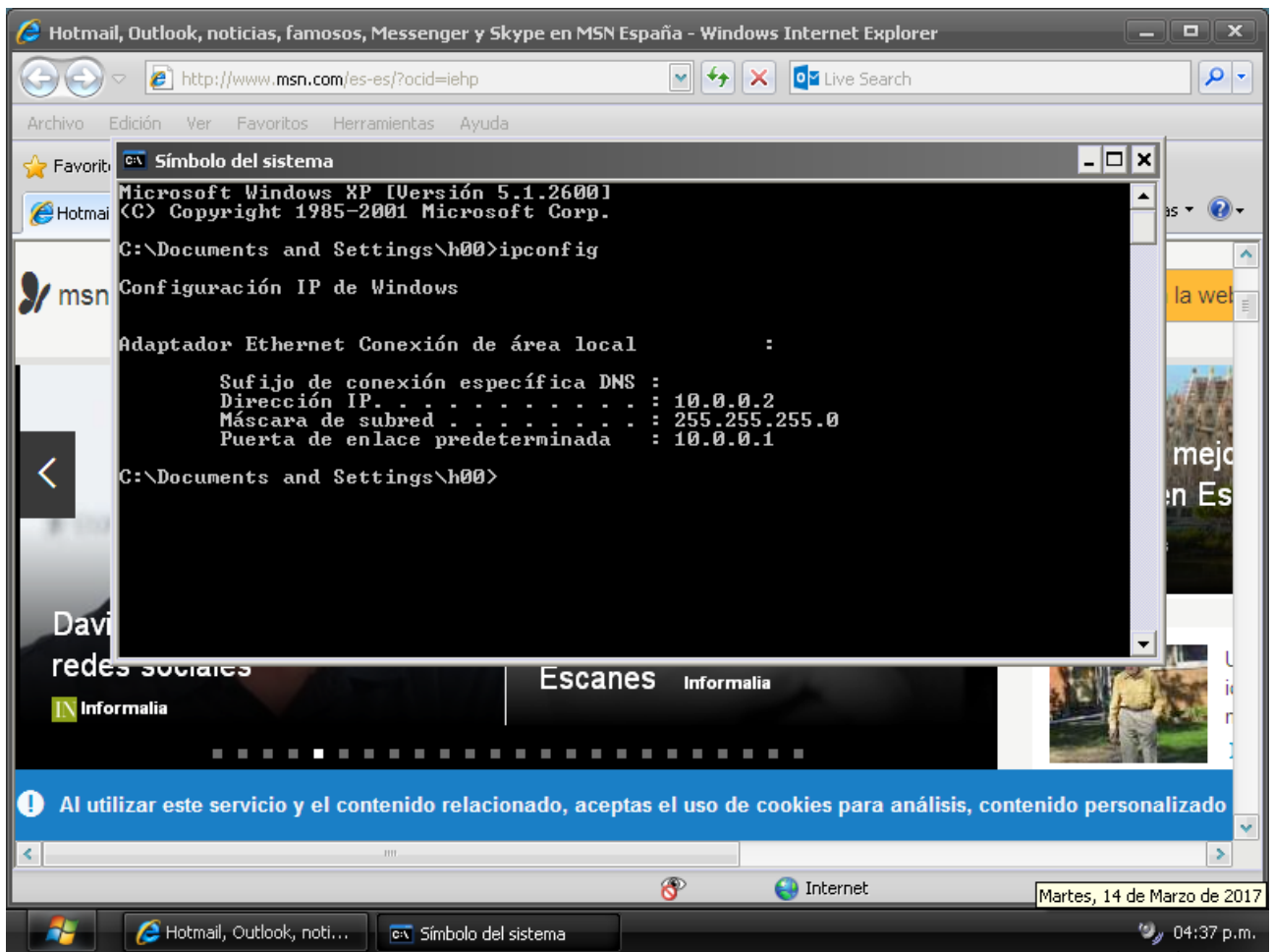
auto enp0s9
iface enp0s9 inet static
    address 172.16.5.1
    netmask 255.255.0.0
    broadcast 172.16.255.255
    network 172.16.0.0

auto enp0s10
iface enp0s10 inet dhcp
```

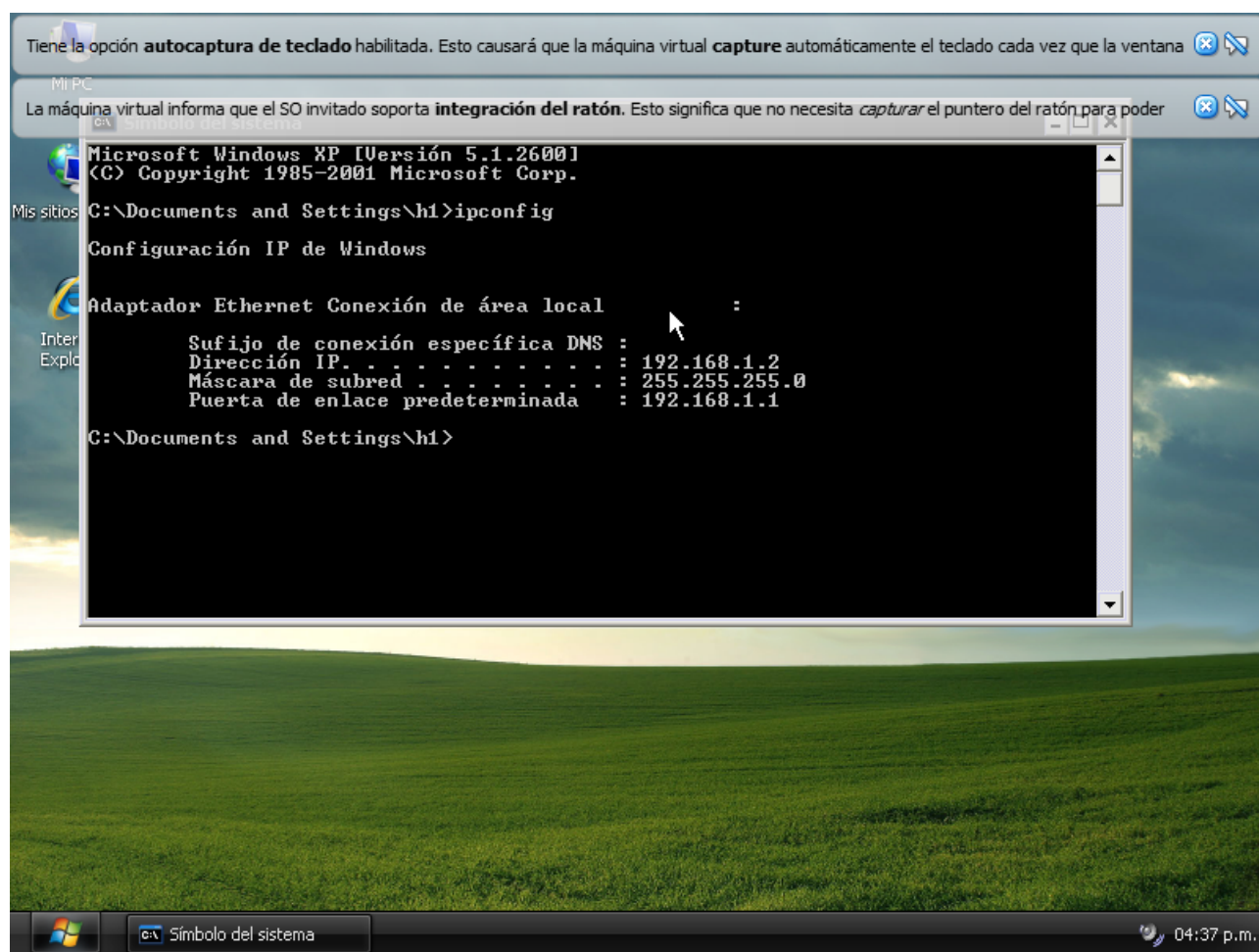
[32 líneas leídas]

^G Ver ayuda	^O Guardar	^W Buscar	^K Cortar Text	^J Justificar	^C Posición	^Y Pág. ant.
^X Salir	^R Leer fich.	^E Reemplazar	^U Pegar txt	^T Ortografía	^I Ir a línea	^V Pág. sig.

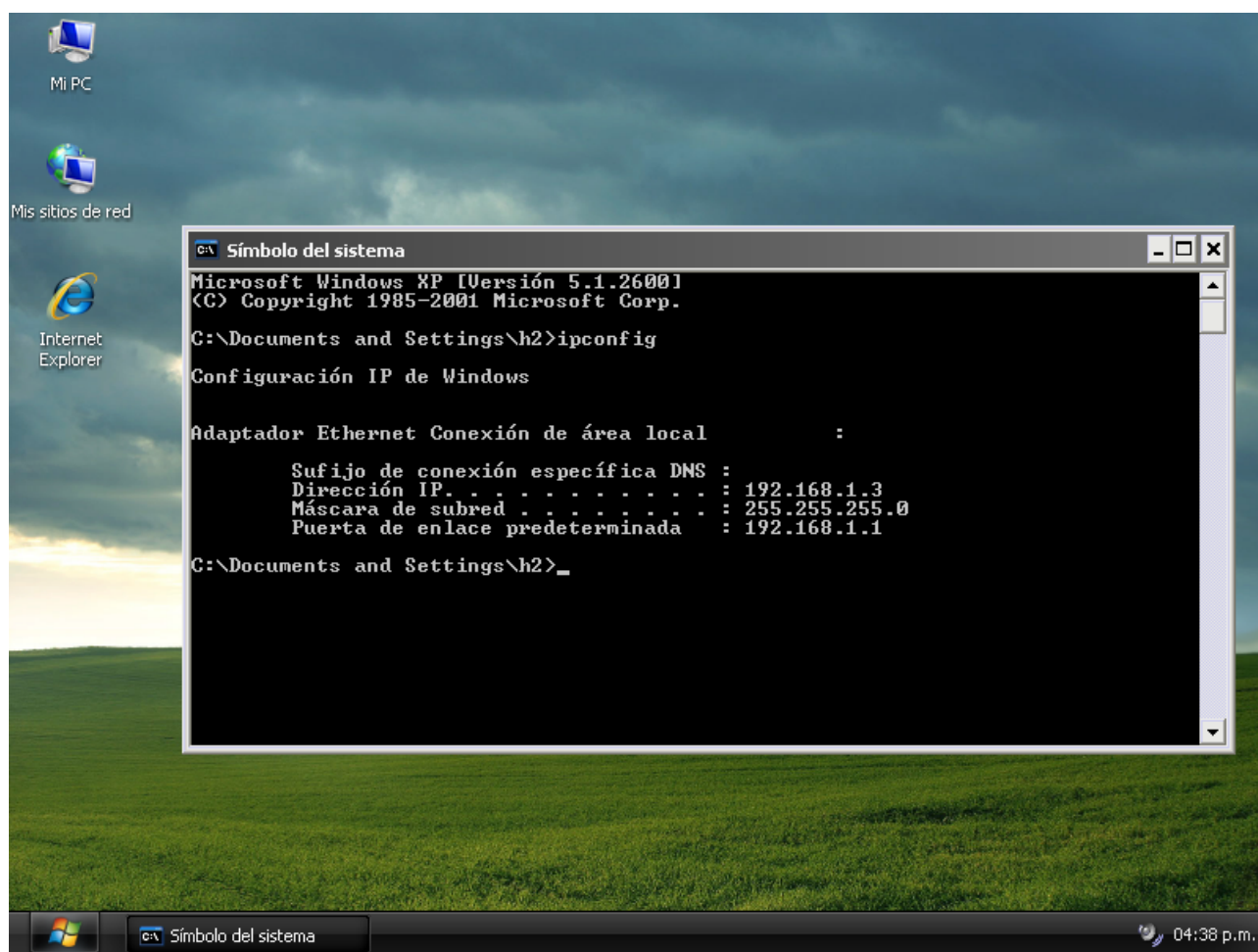
H0



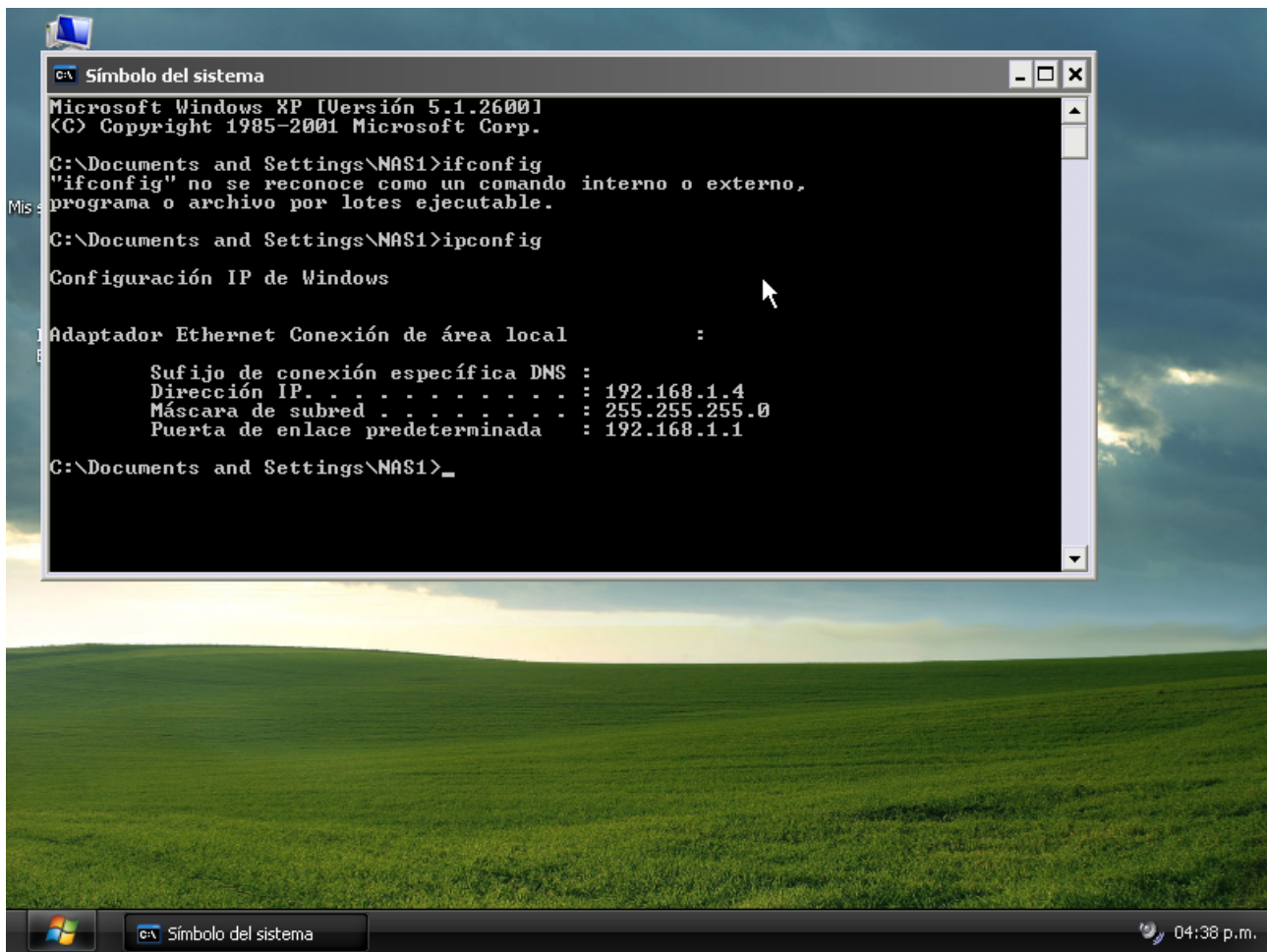
H1



H2



H3



Http

```
Ubuntu 16.04.1 LTS http tty1

http login: http
Password:
Last login: Tue Mar 14 16:36:14 CET 2017 from 192.168.1.3 on pts/0
Welcome to Ubuntu 16.04.1 LTS (GNU/Linux 4.4.0-31-generic x86_64)

 * Documentation:  https://help.ubuntu.com
 * Management:    https://landscape.canonical.com
 * Support:       https://ubuntu.com/advantage

Pueden actualizarse 134 paquetes.
63 actualizaciones son de seguridad.

http@http:~$ ifconfig
enp0s3  Link encap:Ethernet  direcciónHW 08:00:27:fe:e2:4d
        Direc. inet:172.16.5.2  Difus.:172.16.255.255  Másc:255.255.0.0
        Dirección inet6: fe80::a00:27ff:fefe:e24d/64 Alcance:Enlace
        ACTIVO DIFUSIÓN FUNCIONANDO MULTICAST MTU:1500 Métrica:1
        Paquetes RX:59 errores:0 perdidos:0 overruns:0 frame:0
        Paquetes TX:67 errores:0 perdidos:0 overruns:0 carrier:0
        colisiones:0 long.colaTX:1000
        Bytes RX:7926 (7.9 KB)  TX bytes:10246 (10.2 KB)

lo      Link encap:Bucle local
        Direc. inet:127.0.0.1  Másc:255.0.0.0
        Dirección inet6: ::1/128 Alcance:Amfitrión
        ACTIVO BUCLE FUNCIONANDO MTU:65536 Métrica:1
        Paquetes RX:160 errores:0 perdidos:0 overruns:0 frame:0
        Paquetes TX:160 errores:0 perdidos:0 overruns:0 carrier:0
        colisiones:0 long.colaTX:1
        Bytes RX:11840 (11.8 KB)  TX bytes:11840 (11.8 KB)

http@http:~$ _
```

Iptables.

```
GNU nano 2.5.3          Archivo: iptables.sh

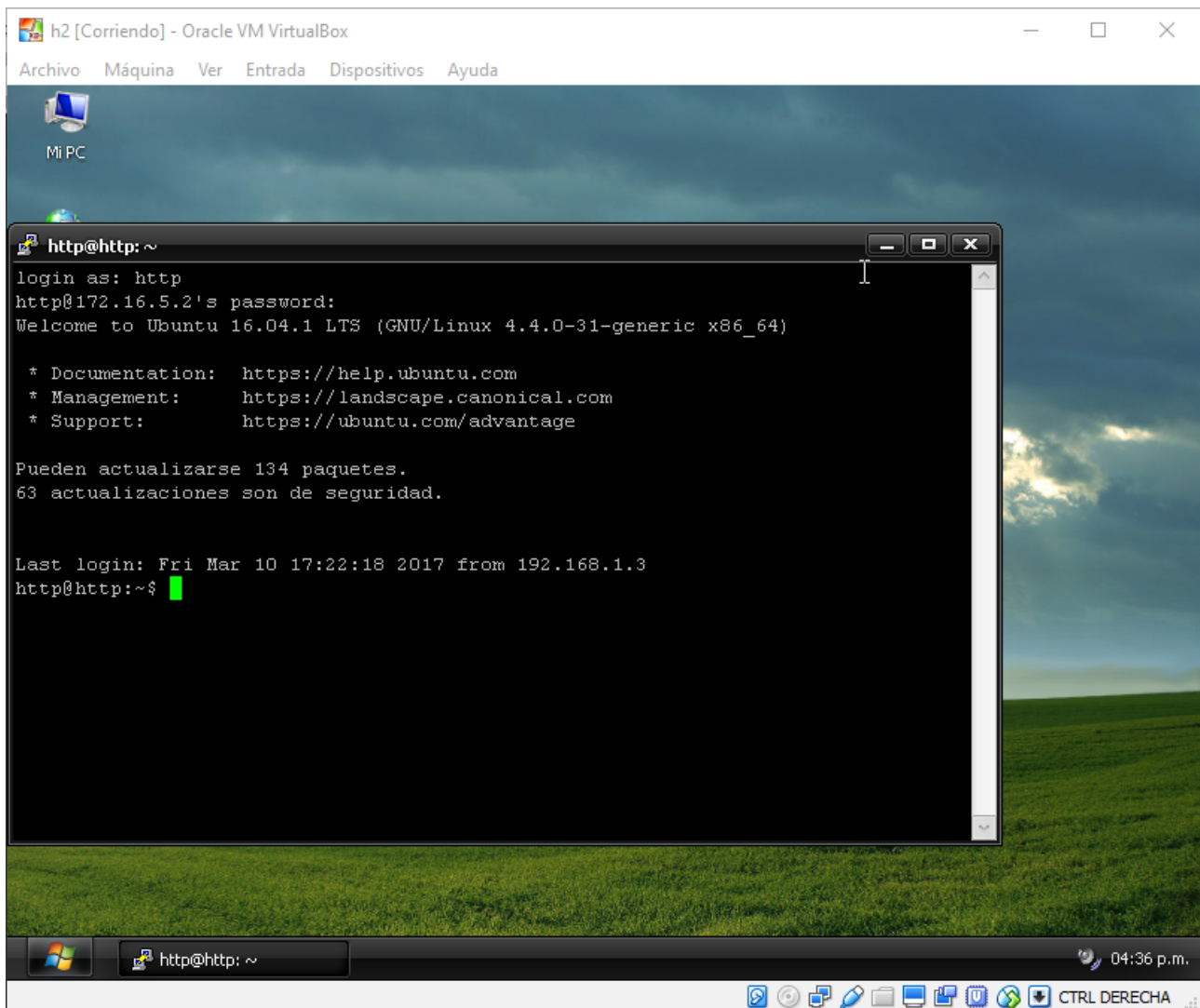
iptables -F
iptables -X
iptables -t nat -F
iptables -P INPUT DROP
iptables -P OUTPUT DROP
iptables -P FORWARD DROP
iptables -t nat -A POSTROUTING -o enp0s10 -j MASQUERADE
#S1
iptables -A FORWARD -i enp0s3 -o enp0s10 -j ACCEPT
iptables -A FORWARD -o enp0s3 -j ACCEPT
#S2
iptables -A FORWARD -i enp0s8 -o enp0s10 -j ACCEPT
iptables -A FORWARD -o enp0s8 -m state --state RELATED,ESTABLISHED
iptables -A FORWARD -s 192.168.1.3 -o enp0s9 -p tcp --dport 22 -j ACCEPT
iptables -A FORWARD -s 192.168.1.3 -o enp0s9 -p udp --dport 22 -j ACCEPT
iptables -A FORWARD -i enp0s8 -o enp0s9 -j ACCEPT
iptables -A FORWARD -i enp0s9 -o enp0s8 -j ACCEPT
#S3
iptables -A FORWARD -i enp0s9 -o enp0s10 -j ACCEPT
iptables -A FORWARD -i enp0s10 -o enp0s9 -p tcp --dport 80 -j ACCEPT
iptables -A FORWARD -i enp0s10 -o enp0s9 -p tcp --dport 443 -j ACCEPT
iptables -A FORWARD -i enp0s10 -o enp0s9 -p tcp --dport 53 -j ACCEPT
iptables -A FORWARD -i enp0s10 -o enp0s9 -p udp --dport 80 -j ACCEPT
iptables -A FORWARD -i enp0s10 -o enp0s9 -p udp --dport 443 -j ACCEPT
iptables -A FORWARD -i enp0s10 -o enp0s9 -p udp --dport 53 -j ACCEPT
iptables -A FORWARD -i enp0s9 -o enp0s10 -p tcp --dport 80 -j ACCEPT
iptables -A FORWARD -i enp0s9 -o enp0s10 -p tcp --dport 443 -j ACCEPT
iptables -A FORWARD -i enp0s9 -o enp0s10 -p tcp --dport 53 -j ACCEPT
iptables -A FORWARD -i enp0s9 -o enp0s10 -p udp --dport 80 -j ACCEPT
iptables -A FORWARD -i enp0s9 -o enp0s10 -p udp --dport 443 -j ACCEPT
iptables -A FORWARD -i enp0s9 -o enp0s10 -p udp --dport 53 -j ACCEPT
iptables -A FORWARD -i enp0s3 -o enp0s9 -p tcp --dport 80 -j ACCEPT
[ 51 líneas leídas ]
^G Ver ayuda  ^O Guardar   ^W Buscar    ^K Cortar Text^J Justificar  ^C Posición  ^Y Pág. ant.
^X Salir      ^R Leer fich.^_ Reemplazar ^U Pegar txt  ^T Corrector ^_ Ir a línea  ^U Pág. sig.
```



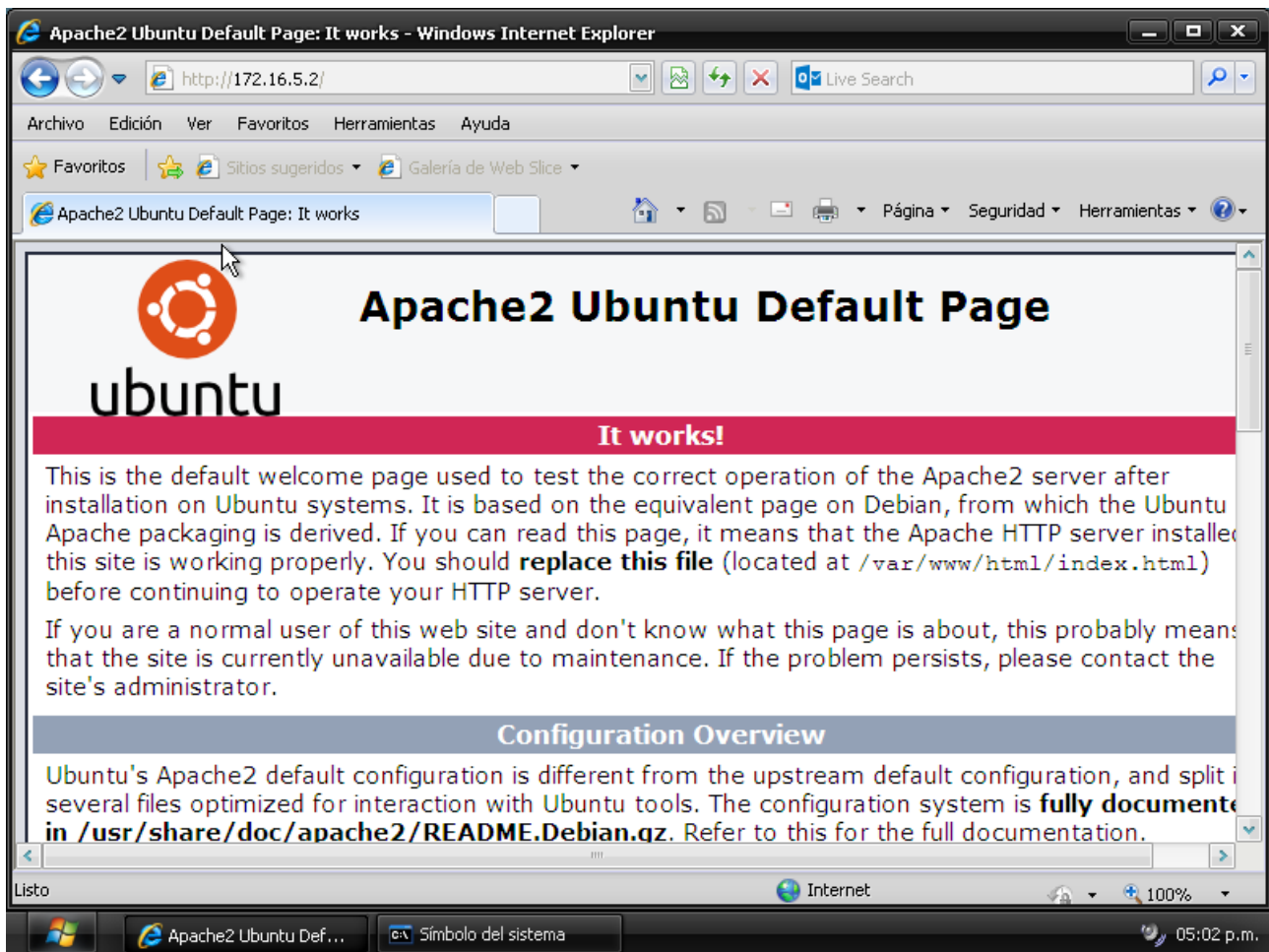
```
iptables -A FORWARD -i enp0s3 -o enp0s9 -p udp --dport 80 -j ACCEPT
iptables -A FORWARD -i enp0s3 -o enp0s9 -p udp --dport 443 -j ACCEPT
iptables -A FORWARD -i enp0s3 -o enp0s9 -p udp --dport 53 -j ACCEPT
iptables -A FORWARD -i enp0s9 -o enp0s3 -p tcp --dport 80 -j ACCEPT
iptables -A FORWARD -i enp0s9 -o enp0s3 -p tcp --dport 443 -j ACCEPT
iptables -A FORWARD -i enp0s9 -o enp0s3 -p tcp --dport 53 -j ACCEPT
iptables -A FORWARD -i enp0s9 -o enp0s3 -p udp --dport 80 -j ACCEPT
iptables -A FORWARD -i enp0s9 -o enp0s3 -p udp --dport 443 -j ACCEPT
iptables -A FORWARD -i enp0s9 -o enp0s3 -p udp --dport 53 -j ACCEPT
iptables -A FORWARD -i enp0s9 -d 192.168.1.3 -p tcp --dport 22 -j ACCEPT
iptables -A FORWARD -i enp0s9 -d 192.168.1.3 -p udp --dport 22 -j ACCEPT
iptables -A FORWARD -i enp0s10 -o enp0s9 -m state --state RELATED,ESTABLISHED
#R
iptables -A INPUT -s 192.168.1.3 -d 192.168.1.1 -p tcp --dport 22 -j ACCEPT
iptables -A INPUT -s 192.168.1.3 -d 192.168.1.1 -p udp --dport 22 -j ACCEPT
iptables -A INPUT -s 192.168.1.1 -d 192.168.1.3 -p tcp --dport 22 -j ACCEPT
iptables -A INPUT -s 192.168.1.1 -d 192.168.1.3 -p udp --dport 22 -j ACCEPT
#Squid
iptables -t nat -A OUTPUT -o enp0s10 -p tcp --dport 80 -j DNAT --to-destination 127.0.0.1:3128
```

rr@r:~\$ _

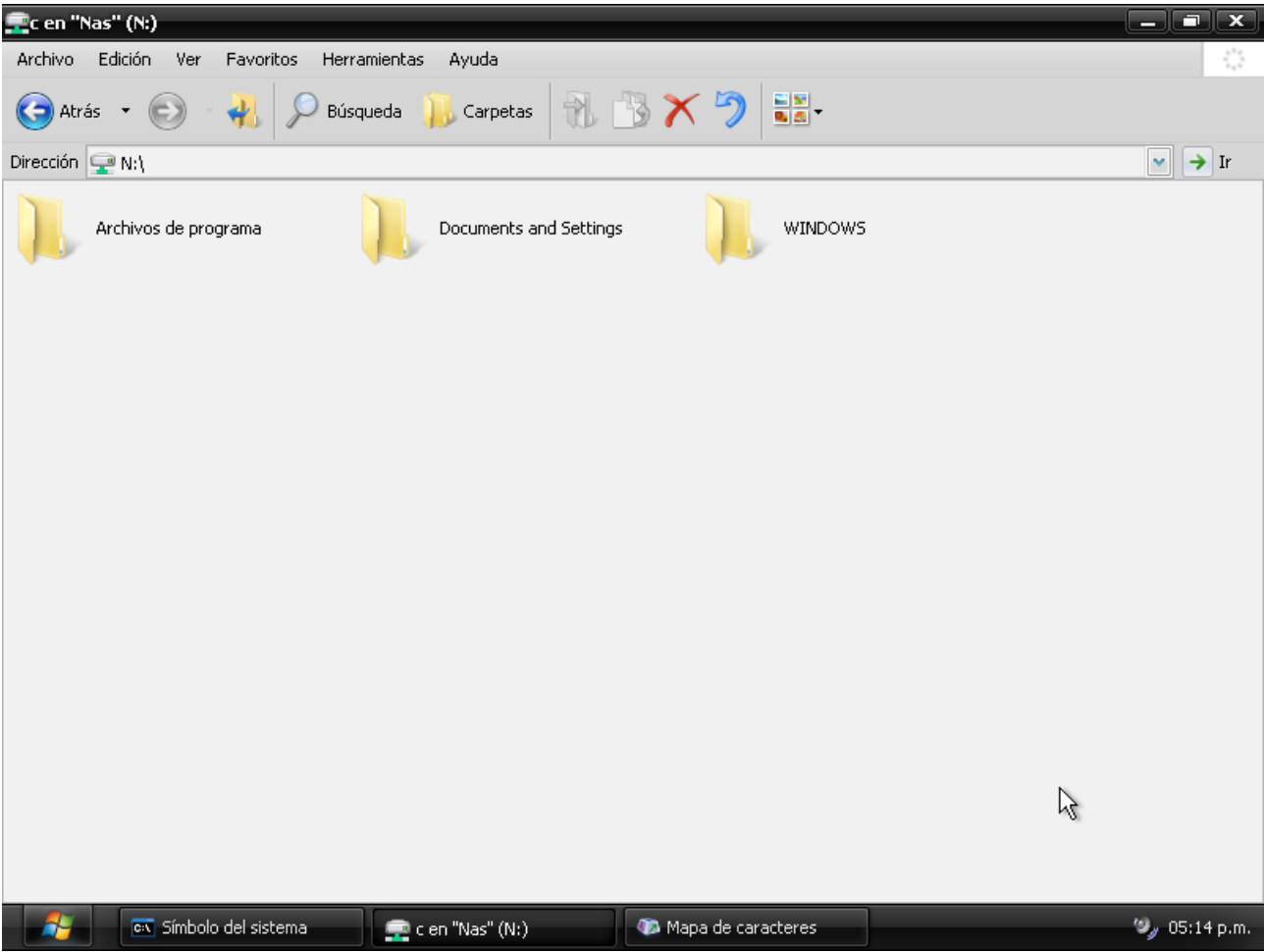
SSH



Apache



NAS.



Internet.

