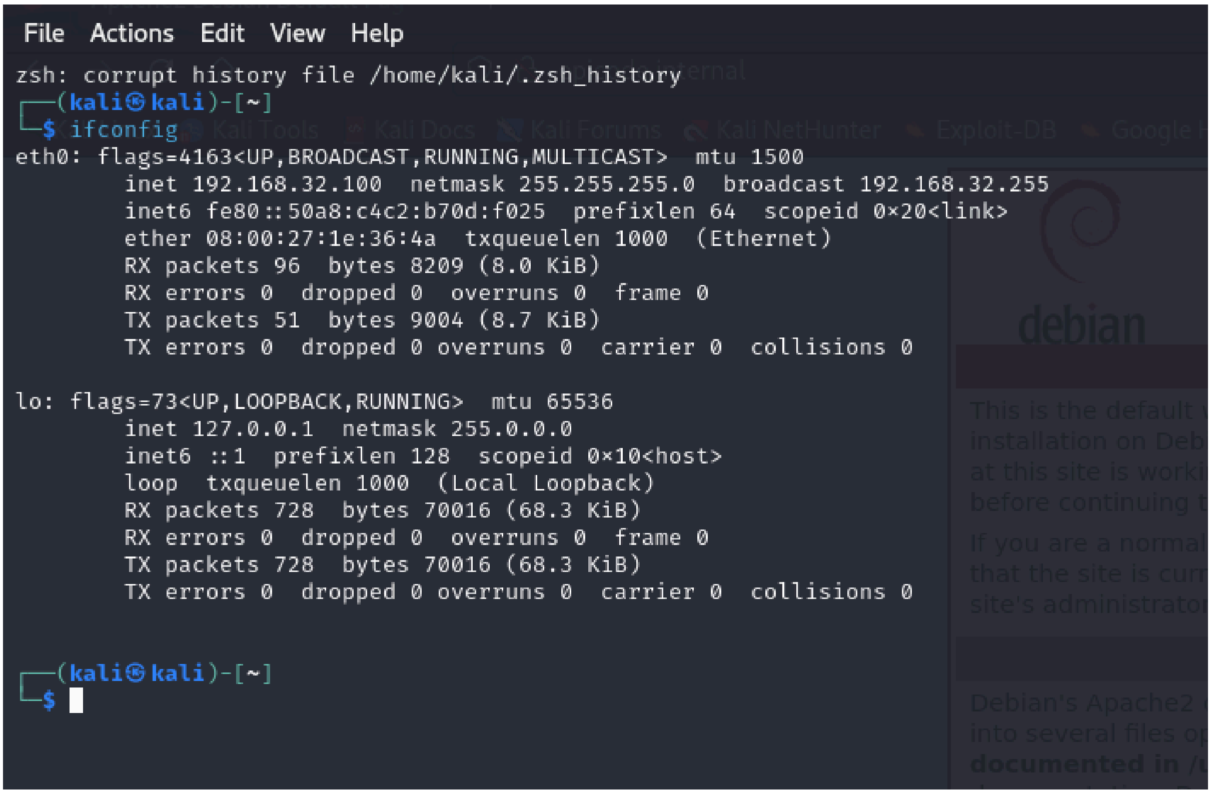
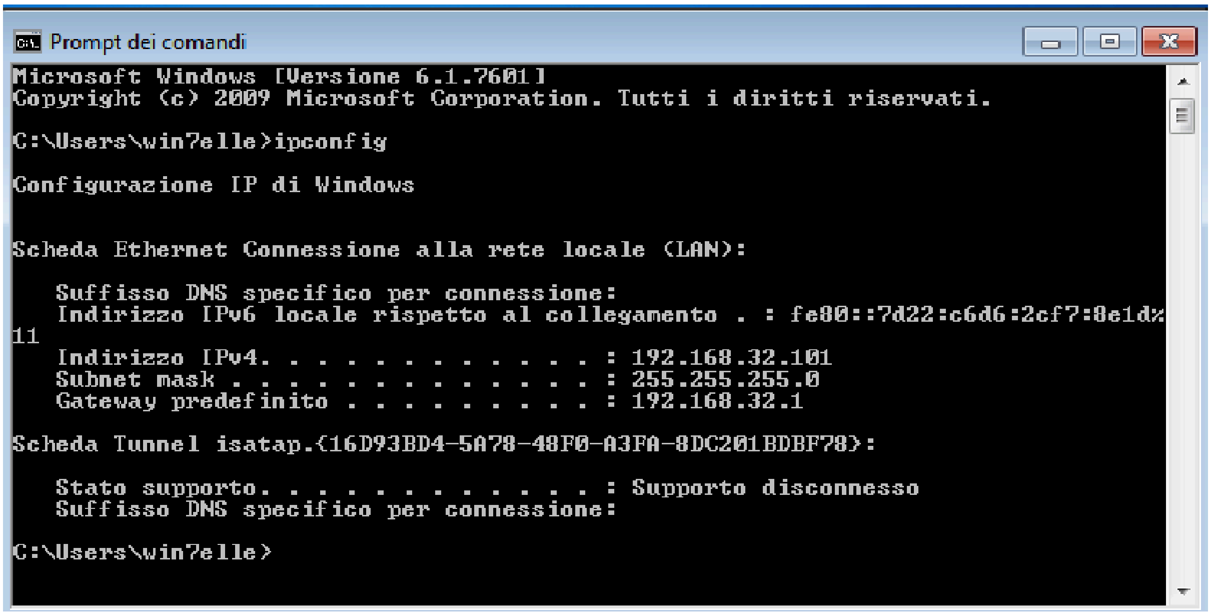
Rapporto Server-Client in rete interna in HTTP

ASSEGNO GLI INDIRIZZI IP
Kali: ….32.100

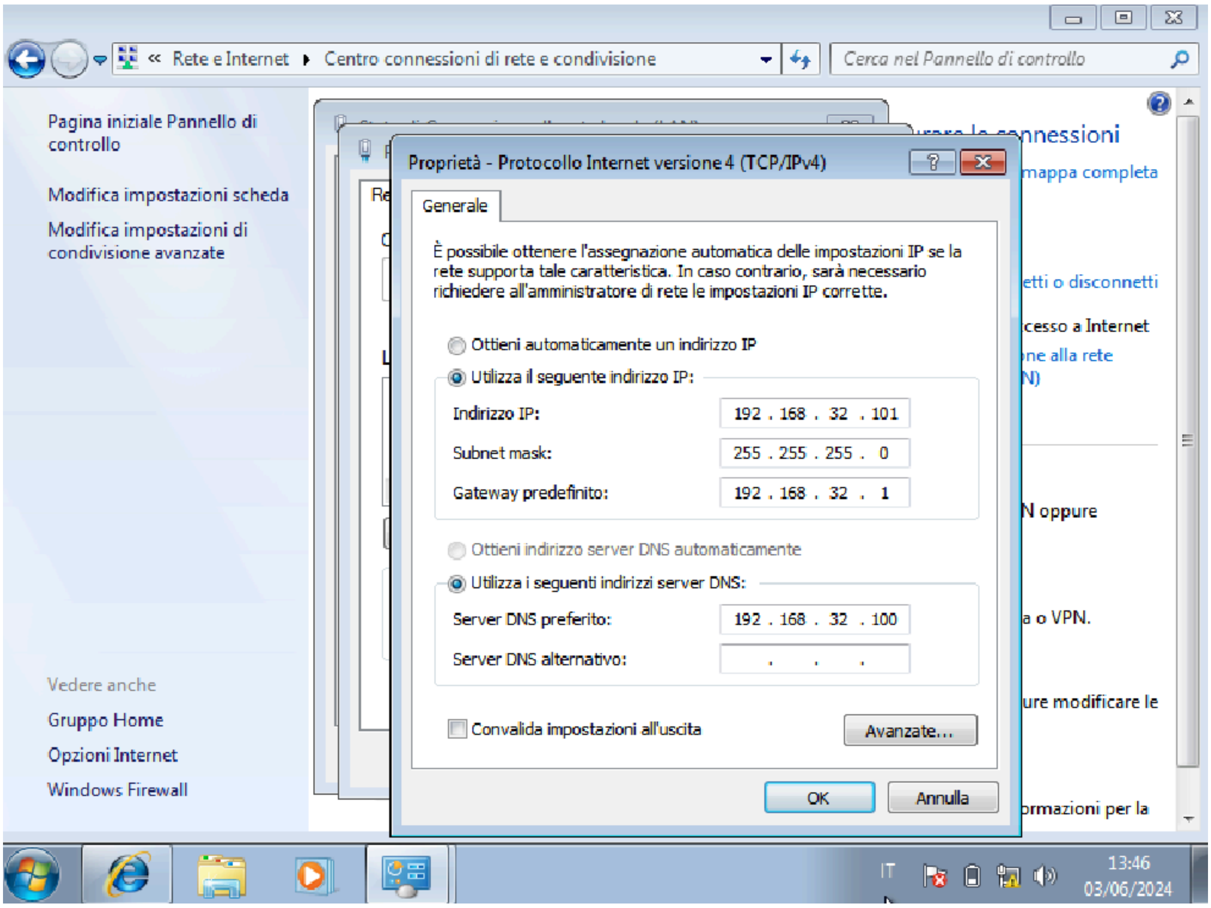
Windows7: …..32.101



```
zsh: corrupt history file /home/kali/.zsh_history
┌──(kali㉿kali)-[~]
└─$ ifconfig
eth0: flags=4163<UP,BROADCAST,RUNNING,MULTICAST>  mtu 1500
        inet 192.168.32.100  netmask 255.255.255.0  broadcast 192.168.32.255
        inet6 fe80::50a8:c4c2:b70d:f025  prefixlen 64  scopeid 0×20<link>
        ether 08:00:27:1e:36:4a  txqueuelen 1000  (Ethernet)
        RX packets 96  bytes 8209 (8.0 KiB)
        RX errors 0  dropped 0  overruns 0  frame 0
        TX packets 51  bytes 9004 (8.7 KiB)
        TX errors 0  dropped 0 overruns 0  carrier 0  collisions 0

lo: flags=73<UP,LOOPBACK,RUNNING>  mtu 65536
        inet 127.0.0.1  netmask 255.0.0.0
        inet6 ::1  prefixlen 128  scopeid 0×10<host>
        loop  txqueuelen 1000  (Local Loopback)
        RX packets 728  bytes 70016 (68.3 KiB)
        RX errors 0  dropped 0  overruns 0  frame 0
        TX packets 728  bytes 70016 (68.3 KiB)
        TX errors 0  dropped 0 overruns 0  carrier 0  collisions 0


┌──(kali㉿kali)-[~]
└─$ 
```



```
Microsoft Windows [Versione 6.1.7601]
Copyright (c) 2009 Microsoft Corporation. Tutti i diritti riservati.

C:\Users\win7elle>ipconfig

Configurazione IP di Windows


Scheda Ethernet Connessione alla rete locale (LAN):

   Suffisso DNS specifico per connessione:
   Indirizzo IPv6 locale rispetto al collegamento . : fe80::7d22:c6d6:2cf7:8e1d%
11
   Indirizzo IPv4. . . . . . . . . . . . . : 192.168.32.101
   Subnet mask . . . . . . . . . . . . . . : 255.255.255.0
   Gateway predefinito . . . . . . . . . . : 192.168.32.1

Scheda Tunnel isatap.{16D93BD4-5A78-48F0-A3FA-8DC201BDBF78}:

   Stato supporto. . . . . . . . . . . . . : Supporto disconnesso
   Suffisso DNS specifico per connessione:

C:\Users\win7elle>
```



Rete e Internet ▸ Centro connessioni di rete e condivisione
Cerca nel Pannello di controllo
Pagina iniziale Pannello di controllo
Modifica impostazioni scheda
Modifica impostazioni di condivisione avanzate
Vedere anche
Gruppo Home
Opzioni Internet
Windows Firewall
Generale
Avanzate...
OK
Annulla
13:46
03/06/2024

Proprietà - Protocollo Internet versione 4 (TCP/IPv4)

È possibile ottenere l'assegnazione automatica delle impostazioni IP se la rete supporta tale caratteristica. In caso contrario, sarà necessario richiedere all'amministratore di rete le impostazioni IP corrette.

○ Ottieni automaticamente un indirizzo IP

● Utilizza il seguente indirizzo IP:

Indirizzo IP:	192 . 168 . 32 . 101
Subnet mask:	255 . 255 . 255 . 0
Gateway predefinito:	192 . 168 . 32 . 1

○ Ottieni indirizzo server DNS automaticamente

● Utilizza i seguenti indirizzi server DNS:

Server DNS preferito:	192 . 168 . 32 . 100
Server DNS alternativo:	. . .

□ Convalida impostazioni all'uscita

MODIFICO I FILE HOSTS

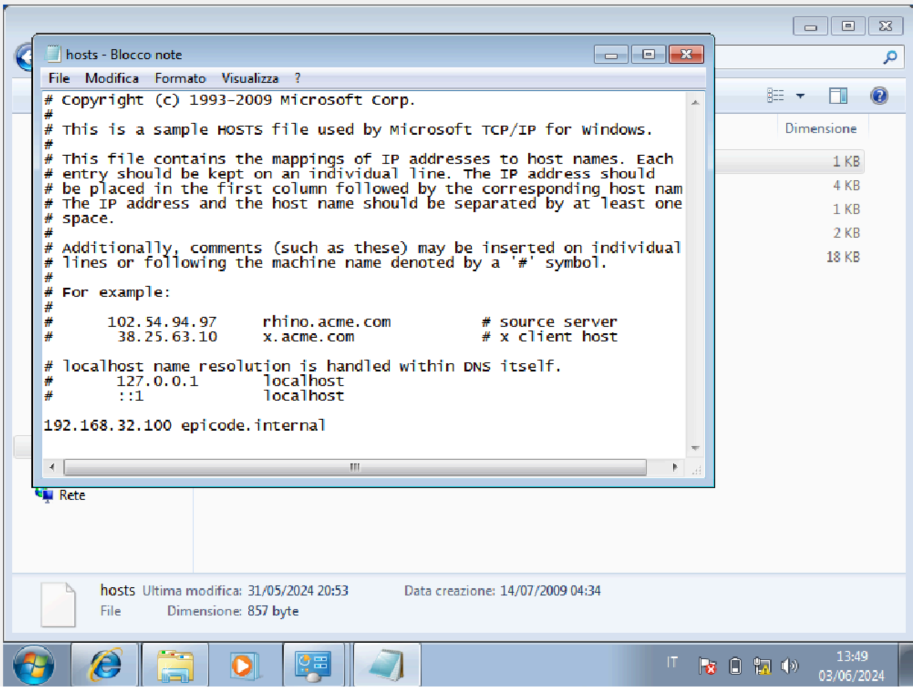
In Kali:

IL FILE /etc/hosts

contiene una riga che affianca a 192.168.32.100 l'indirizzo epicode.internal

In Windows7:

IL FILE si trova in System32/drivers e host.



```
# Copyright (c) 1993-2009 Microsoft Corp.
#
# This is a sample HOSTS file used by Microsoft TCP/IP for Windows.
#
# This file contains the mappings of IP addresses to host names. Each
# entry should be kept on an individual line. The IP address should
# be placed in the first column followed by the corresponding host nam
# The IP address and the host name should be separated by at least one
# space.
#
# Additionally, comments (such as these) may be inserted on individual
# lines or following the machine name denoted by a '#' symbol.
#
# For example:
#
#      102.54.94.97     rhino.acme.com          # source server
#       38.25.63.10     x.acme.com              # x client host

# localhost name resolution is handled within DNS itself.
#	127.0.0.1       localhost
#	::1             localhost

192.168.32.100 epicode.internal
```

hosts Ultima modifica: 31/05/2024 20:53 Data creazione: 14/07/2009 04:34
File Dimensione: 857 byte

Simuliamo la pagina del Server con Apache

Ho semplicemente installato Apache2
Ho modificato il file interno ad Apache2:

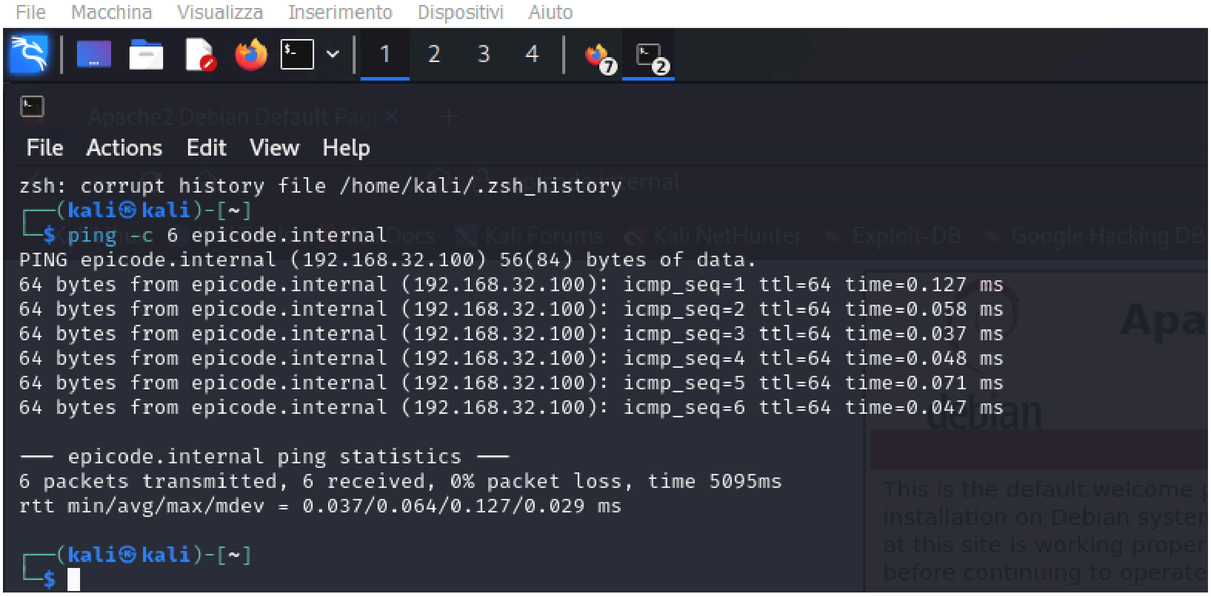
/etc/apache2/sites-available/000-default.conf

Imitando la riga commentata #ServerName www.example.com

Ho fatto una riga: ServerName http://epicode.internal

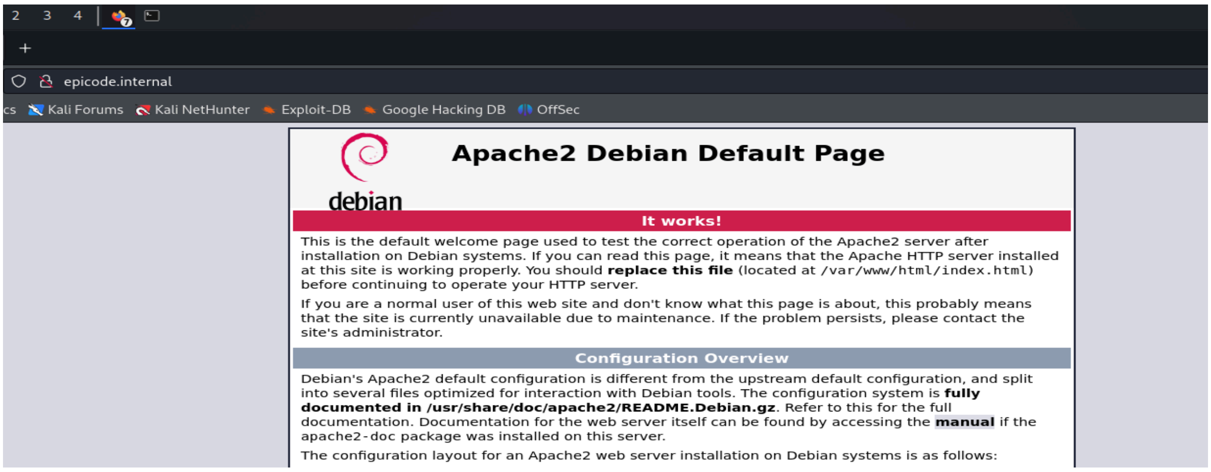
ORA PROVO UN PING, E PROVO A VISITARE LA PAGINA IN HTTP SULLE DUE MACCHINE.

SU KALI



```
zsh: corrupt history file /home/kali/.zsh_history
┌──(kali㉿kali)-[~]
└─$ ping -c 6 epicode.internal
PING epicode.internal (192.168.32.100) 56(84) bytes of data.
64 bytes from epicode.internal (192.168.32.100): icmp_seq=1 ttl=64 time=0.127 ms
64 bytes from epicode.internal (192.168.32.100): icmp_seq=2 ttl=64 time=0.058 ms
64 bytes from epicode.internal (192.168.32.100): icmp_seq=3 ttl=64 time=0.037 ms
64 bytes from epicode.internal (192.168.32.100): icmp_seq=4 ttl=64 time=0.048 ms
64 bytes from epicode.internal (192.168.32.100): icmp_seq=5 ttl=64 time=0.071 ms
64 bytes from epicode.internal (192.168.32.100): icmp_seq=6 ttl=64 time=0.047 ms

--- epicode.internal ping statistics ---
6 packets transmitted, 6 received, 0% packet loss, time 5095ms
rtt min/avg/max/mdev = 0.037/0.064/0.127/0.029 ms

┌──(kali㉿kali)-[~]
└─$ 
```

FUNZIONA!



Apache2 Debian Default Page

It works!

This is the default welcome page used to test the correct operation of the Apache2 server after installation on Debian systems. If you can read this page, it means that the Apache HTTP server installed at this site is working properly. You should **replace this file** (located at `/var/www/html/index.html`) before continuing to operate your HTTP server.

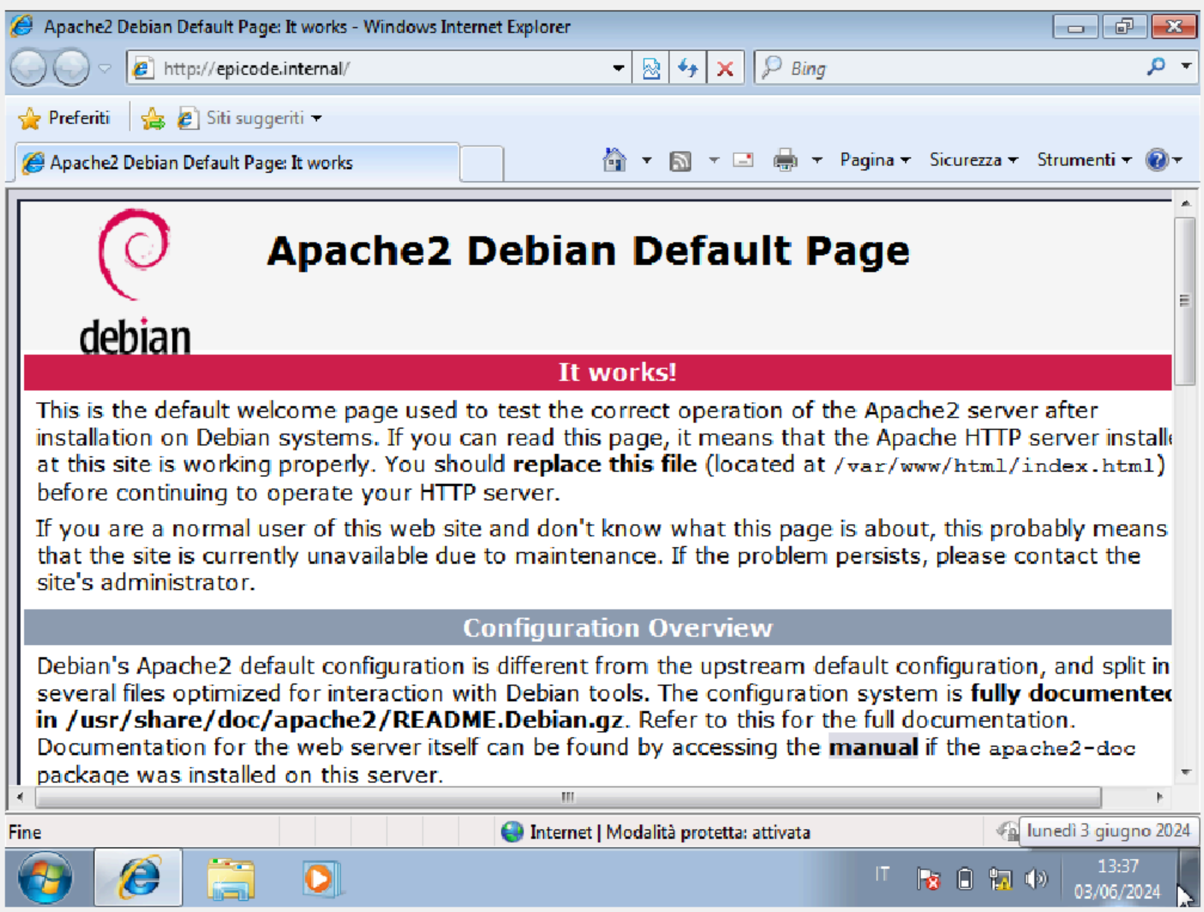
If you are a normal user of this web site and don't know what this page is about, this probably means that the site is currently unavailable due to maintenance. If the problem persists, please contact the site's administrator.

Configuration Overview

Debian's Apache2 default configuration is different from the upstream default configuration, and split into several files optimized for interaction with Debian tools. The configuration system is **fully documented in /usr/share/doc/apache2/README.Debian.gz**. Refer to this for the full documentation. Documentation for the web server itself can be found by accessing the **manual** if the apache2-doc package was installed on this server.

The configuration layout for an Apache2 web server installation on Debian systems is as follows:

SU WINDOWS 7 FUNZIONA!



Apache2 Debian Default Page: It works - Windows Internet Explorer
http://epicode.internal/
Bing
Preferiti
Siti suggeriti
Apache2 Debian Default Page: It works
Pagina
Sicurezza
Strumenti
debian
IT

Apache2 Debian Default Page

It works!

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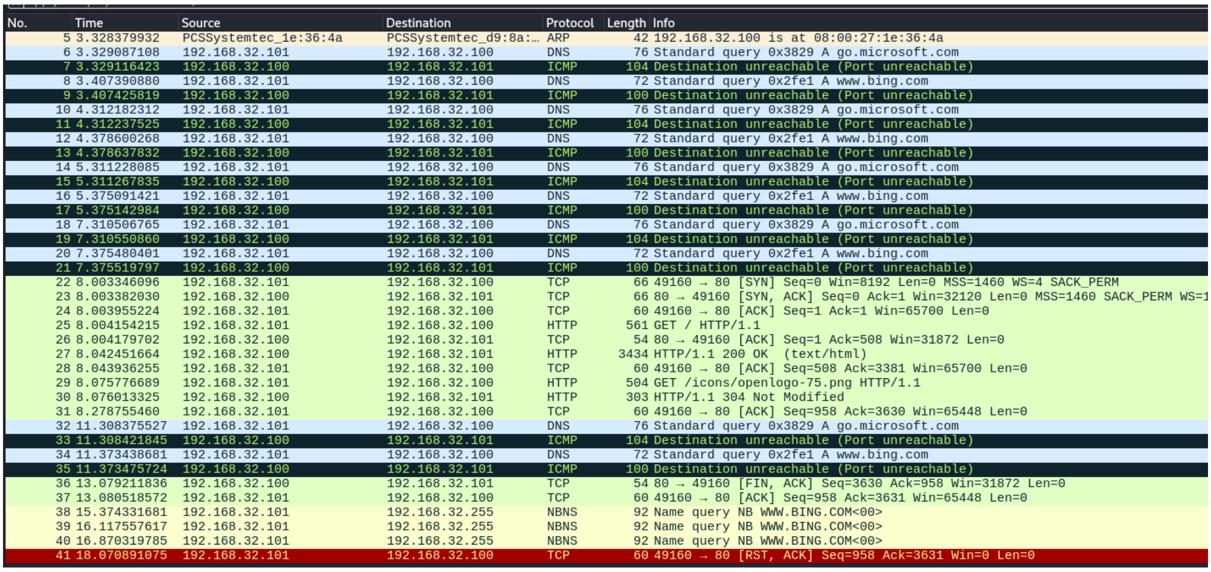
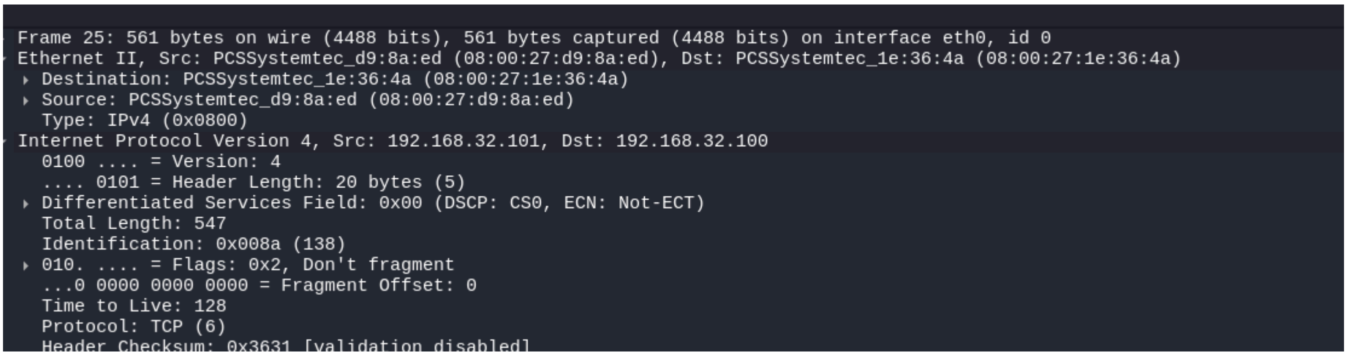
Fine | Internet | Modalità protetta: attivata | lunedì 3 giugno 2024

13:37
03/06/2024

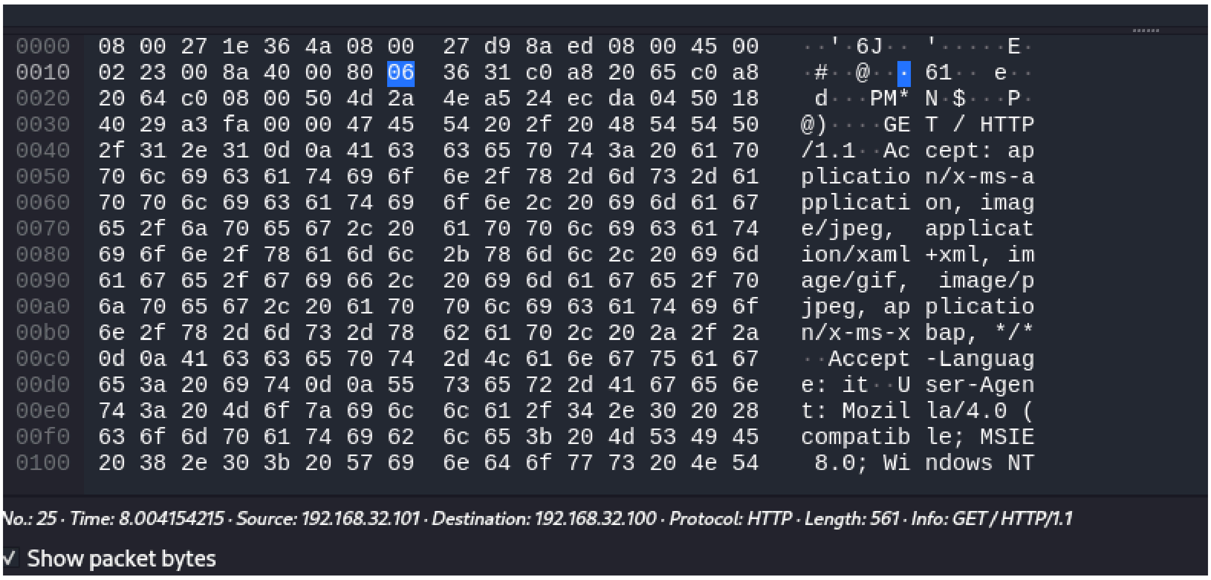
CATTURA WIRESHARK



```
No.       Time          Source                 Destination         Protocol  Length Info
        5 3.328379932   PCSSystemtec_1e:36:4a  PCSSystemtec_d9:8a:… ARP         42 192.168.32.100 is at 08:00:27:1e:36:4a
        6 3.329087108   192.168.32.101         192.168.32.100      DNS         76 Standard query 0x3829 A go.microsoft.com
        7 3.329116423   192.168.32.100         192.168.32.101      ICMP       104 Destination unreachable (Port unreachable)
        8 3.407390880   192.168.32.101         192.168.32.100      DNS         72 Standard query 0x2fe1 A www.bing.com
        9 3.407425819   192.168.32.100         192.168.32.101      ICMP       100 Destination unreachable (Port unreachable)
       10 4.312182312   192.168.32.101         192.168.32.100      DNS         76 Standard query 0x3829 A go.microsoft.com
       11 4.312237525   192.168.32.100         192.168.32.101      ICMP       104 Destination unreachable (Port unreachable)
       12 4.378600268   192.168.32.101         192.168.32.100      DNS         72 Standard query 0x2fe1 A www.bing.com
       13 4.378637832   192.168.32.100         192.168.32.101      ICMP       100 Destination unreachable (Port unreachable)
       14 5.311228085   192.168.32.101         192.168.32.100      DNS         76 Standard query 0x3829 A go.microsoft.com
       15 5.311267835   192.168.32.100         192.168.32.101      ICMP       104 Destination unreachable (Port unreachable)
       16 5.375091421   192.168.32.101         192.168.32.100      DNS         72 Standard query 0x2fe1 A www.bing.com
       17 5.375142984   192.168.32.100         192.168.32.101      ICMP       100 Destination unreachable (Port unreachable)
       18 7.310506765   192.168.32.101         192.168.32.100      DNS         76 Standard query 0x3829 A go.microsoft.com
       19 7.310550860   192.168.32.100         192.168.32.101      ICMP       104 Destination unreachable (Port unreachable)
       20 7.375480401   192.168.32.101         192.168.32.100      DNS         72 Standard query 0x2fe1 A www.bing.com
       21 7.375519797   192.168.32.100         192.168.32.101      ICMP       100 Destination unreachable (Port unreachable)
       22 8.003346096   192.168.32.101         192.168.32.100      TCP         66 49160 → 80 [SYN] Seq=0 Win=8192 Len=0 MSS=1460 WS=4 SACK_PERM
       23 8.003382030   192.168.32.100         192.168.32.101      TCP         66 80 → 49160 [SYN, ACK] Seq=0 Ack=1 Win=32120 Len=0 MSS=1460 SACK_PERM WS=1
       24 8.003955224   192.168.32.101         192.168.32.100      TCP         60 49160 → 80 [ACK] Seq=1 Ack=1 Win=65700 Len=0
       25 8.004154215   192.168.32.101         192.168.32.100      HTTP       561 GET / HTTP/1.1
       26 8.004179702   192.168.32.100         192.168.32.101      TCP         54 80 → 49160 [ACK] Seq=1 Ack=508 Win=31872 Len=0
       27 8.042451664   192.168.32.100         192.168.32.101      HTTP      3434 HTTP/1.1 200 OK  (text/html)
       28 8.043936255   192.168.32.101         192.168.32.100      TCP         60 49160 → 80 [ACK] Seq=508 Ack=3381 Win=65700 Len=0
       29 8.075776689   192.168.32.101         192.168.32.100      HTTP       504 GET /icons/openlogo-75.png HTTP/1.1
       30 8.076013325   192.168.32.100         192.168.32.101      HTTP       303 HTTP/1.1 304 Not Modified
       31 8.278755460   192.168.32.101         192.168.32.100      TCP         60 49160 → 80 [ACK] Seq=958 Ack=3630 Win=65448 Len=0
       32 11.308375527  192.168.32.101         192.168.32.100      DNS         76 Standard query 0x3829 A go.microsoft.com
       33 11.308421845  192.168.32.100         192.168.32.101      ICMP       104 Destination unreachable (Port unreachable)
       34 11.373438681  192.168.32.101         192.168.32.100      DNS         72 Standard query 0x2fe1 A www.bing.com
       35 11.373475724  192.168.32.100         192.168.32.101      ICMP       100 Destination unreachable (Port unreachable)
       36 13.079211836  192.168.32.100         192.168.32.101      TCP         54 80 → 49160 [FIN, ACK] Seq=3630 Ack=958 Win=31872 Len=0
       37 13.080518572  192.168.32.101         192.168.32.100      TCP         60 49160 → 80 [ACK] Seq=958 Ack=3631 Win=65448 Len=0
       38 15.374331681  192.168.32.101         192.168.32.255      NBNS        92 Name query NB WWW.BING.COM<00>
       39 16.117557617  192.168.32.101         192.168.32.255      NBNS        92 Name query NB WWW.BING.COM<00>
       40 16.870319785  192.168.32.101         192.168.32.255      NBNS        92 Name query NB WWW.BING.COM<00>
       41 18.070891075  192.168.32.101         192.168.32.100      TCP         60 49160 → 80 [RST, ACK] Seq=958 Ack=3631 Win=0 Len=0
```



```
 Frame 25: 561 bytes on wire (4488 bits), 561 bytes captured (4488 bits) on interface eth0, id 0
 Ethernet II, Src: PCSSystemtec_d9:8a:ed (08:00:27:d9:8a:ed), Dst: PCSSystemtec_1e:36:4a (08:00:27:1e:36:4a)
  › Destination: PCSSystemtec_1e:36:4a (08:00:27:1e:36:4a)
  › Source: PCSSystemtec_d9:8a:ed (08:00:27:d9:8a:ed)
    Type: IPv4 (0x0800)
 Internet Protocol Version 4, Src: 192.168.32.101, Dst: 192.168.32.100
    0100 .... = Version: 4
    .... 0101 = Header Length: 20 bytes (5)
  › Differentiated Services Field: 0x00 (DSCP: CS0, ECN: Not-ECT)
    Total Length: 547
    Identification: 0x008a (138)
  › 010. .... = Flags: 0x2, Don't fragment
    ...0 0000 0000 0000 = Fragment Offset: 0
    Time to Live: 128
    Protocol: TCP (6)
    Header Checksum: 0x3631 [validation disabled]
```



```
0000  08 00 27 1e 36 4a 08 00  27 d9 8a ed 08 00 45 00   ··'·6J·· '·····E·
0010  02 23 00 8a 40 00 80 06  36 31 c0 a8 20 65 c0 a8   ·#··@··· 61·· e··
0020  20 64 c0 08 00 50 4d 2a  4e a5 24 ec da 04 50 18    d···PM* N·$···P·
0030  40 29 a3 fa 00 00 47 45  54 20 2f 20 48 54 54 50   @)····GE T / HTTP
0040  2f 31 2e 31 0d 0a 41 63  63 65 70 74 3a 20 61 70   /1.1··Ac cept: ap
0050  70 6c 69 63 61 74 69 6f  6e 2f 78 2d 6d 73 2d 61   plicatio n/x-ms-a
0060  70 70 6c 69 63 61 74 69  6f 6e 2c 20 69 6d 61 67   pplicati on, imag
0070  65 2f 6a 70 65 67 2c 20  61 70 70 6c 69 63 61 74   e/jpeg,  applicat
0080  69 6f 6e 2f 78 61 6d 6c  2b 78 6d 6c 2c 20 69 6d   ion/xaml +xml, im
0090  61 67 65 2f 67 69 66 2c  20 69 6d 61 67 65 2f 70   age/gif,  image/p
00a0  6a 70 65 67 2c 20 61 70  70 6c 69 63 61 74 69 6f   jpeg, ap plicatio
00b0  6e 2f 78 2d 6d 73 2d 78  62 61 70 2c 20 2a 2f 2a   n/x-ms-x bap, */*
00c0  0d 0a 41 63 63 65 70 74  2d 4c 61 6e 67 75 61 67   ··Accept -Languag
00d0  65 3a 20 69 74 0d 0a 55  73 65 72 2d 41 67 65 6e   e: it··U ser-Agen
00e0  74 3a 20 4d 6f 7a 69 6c  6c 61 2f 34 2e 30 20 28   t: Mozil la/4.0 (
00f0  63 6f 6d 70 61 74 69 62  6c 65 3b 20 4d 53 49 45   compatib le; MSIE
0100  20 38 2e 30 3b 20 57 69  6e 64 6f 77 73 20 4e 54    8.0; Wi ndows NT
```

No.: 25 · Time: 8.004154215 · Source: 192.168.32.101 · Destination: 192.168.32.100 · Protocol: HTTP · Length: 561 · Info: GET / HTTP/1.1

✓ Show packet bytes

IN QUESTO PACCHETTO CHE VA DA Windows7 a Kali,

- il Mac sorgente è: 08:00:27:d9:8a:ed
- il MAC destinazione è: 08:00:27:1e:36:4a