

GNU nano 7.2

```
# quotd_udp, chargen_tcp, chargen_udp, finger,  
# ident, syslog, dummy_tcp, dummy_udp, smtps, pop3s,  
# ftps, irc, https
```

#

```
start_service dns
```

```
start_service http
```

```
start_service https
```

```
#start_service smtp
```

```
#start_service smtps
```

```
#start_service pop3
```

```
#start_service pop3s
```

```
#start_service ftp
```

```
#start_service ftps
```

```
#start_service tftp
```

```
#start_service irc
```

```
#start_service ntp
```

```
#start_service finger
```

```
#start_service ident
```

```
#start_service syslog
```

```
#start_service time_tcp
```

```
#start_service time_udp
```

```
#start_service daytime_tcp
```

```
#start_service daytime_udp
```

```
#start_service echo_tcp
```

```
#start_service echo_udp
```

```
#start_service discard_tcp
```

```
#start_service discard_udp
```

```
#start_service quotd_tcp
```

```
#start_service quotd_udp
```

```
#start_service chargen_tcp
```

```
#start_service chargen_udp
```

```
#start_service dummy_tcp
```

```
#start_service dummy_udp
```

```
#####
```

```
# service_bind_address
```

#

```
# IP address to bind services to
```

#

```
# Syntax: service_bind_address <IP address>
```

#

```
# Default: 127.0.0.1
```

#

```
service_bind_address 192.168.32.100
```

```
#####
```

```
^G Help
```

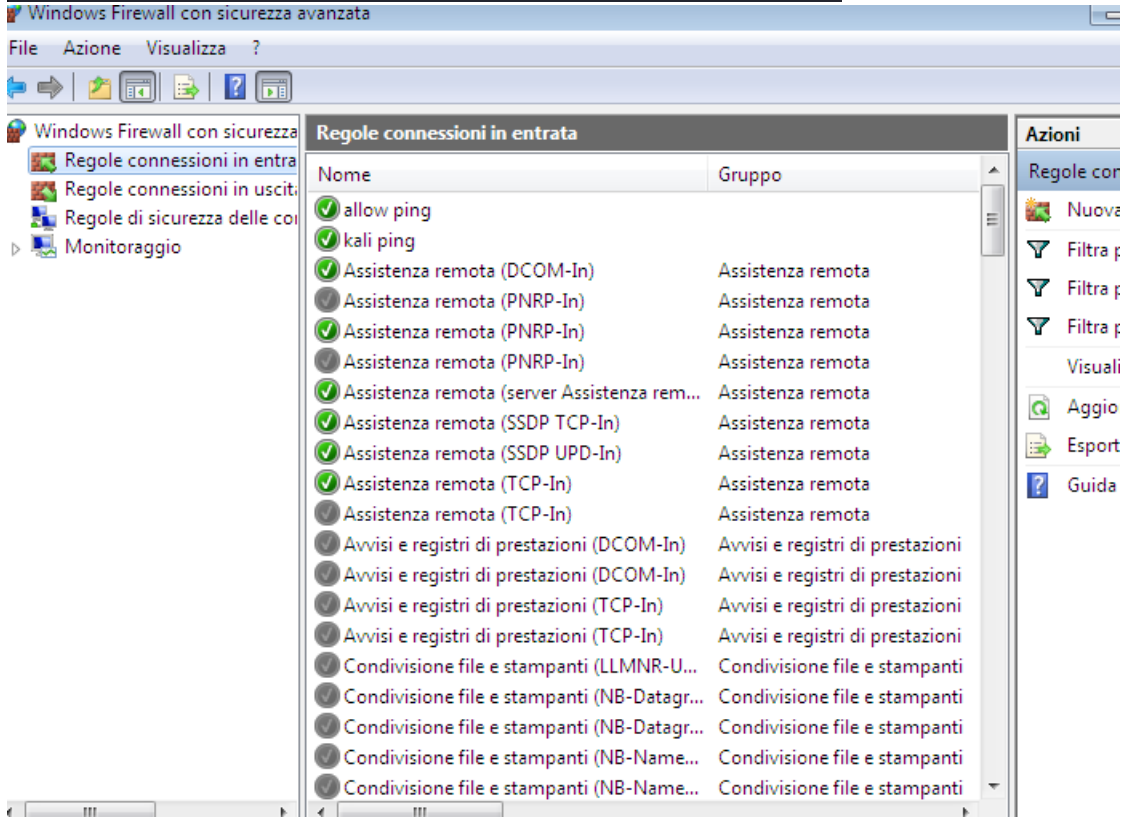
```
^O Write Out
```

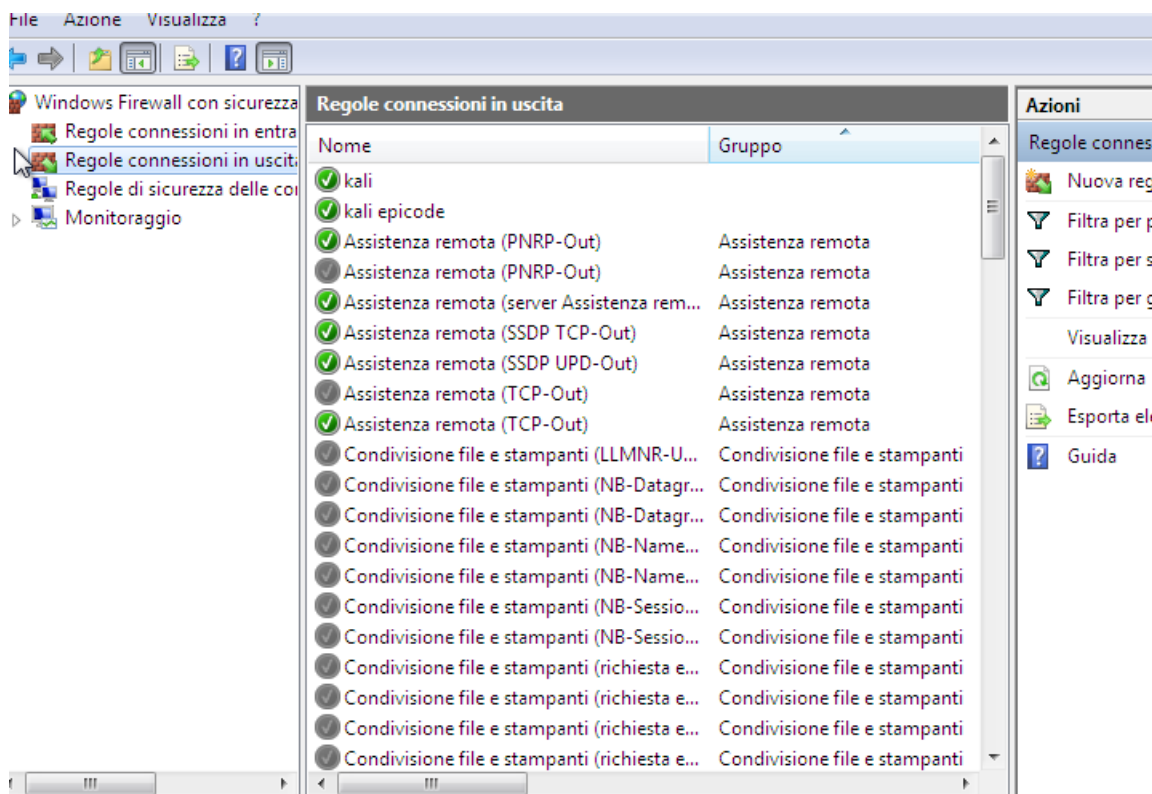
```
^W Where Is
```

```
^K Cut
```

```
#####
# dns_static
#
# Static mappings for DNS
#
# Syntax: dns_static <fqdn hostname> <IP address>
#
# Default: none
#
dns_static epicode.internal 192.168.32.100
#dns_static ns1.foo.com 10.70.50.30
#dns_static ftp.bar.net 10.10.20.30

#####
# dns_version
#
# DNS version
#
# Syntax: dns_version <version>
#
# Default: "INetSim DNS Server"
#
#dns_version "9.2.4"
```





Frame 9: 312 bytes on wire (2496 bits), 312 bytes captured (2496 bits) on interface eth0, id 0

Ethernet II, Src: PCSSystemtec\_21:b1:d0 (08:00:27:21:b1:d0), Dst: PCSSystemtec\_b3:91:b8 (08:00:27:b3:91:b8)

Destination: PCSSystemtec\_b3:91:b8 (08:00:27:b3:91:b8)

Source: PCSSystemtec\_21:b1:d0 (08:00:27:21:b1:d0)

Type: IPv4 (0x0800)

Internet Protocol Version 4, Src: 192.168.32.100, Dst: 192.168.32.101

... 0101 = Header Length: 20 bytes (5)

Differentiated Services Field: 0x00 (DSCP: CS0, ECN: Not-ECT)

Total Length: 298

Identification: 0xe50c (58636)

010. .... = Flags: 0x2, Don't fragment

... 0 0000 0000 0000 = Fragment Offset: 0

Time to Live: 64

Protocol: TCP (6)

Header Checksum: 0x92a7 [validation disabled]

[Header checksum status: Unverified]

Source Address: 192.168.32.100

Destination Address: 192.168.32.101

Transmission Control Protocol, Src Port: 80, Dst Port: 49163, Seq: 151, Ack: 288, Len: 258

[2 Reassembled TCP Segments (488 bytes): #8(150), #9(258)]

Reassembled TCP Segments (488 bytes): #8(150), #9(258)

Frame (312 bytes) Reassembled TCP (408 bytes)

0000 08 00 27 b3 91 b8 08 00 27 21 b1 d0 08 00 45 00 ... @ @ @ @ d ...

0010 01 2a e5 0c 40 09 40 06 92 47 c9 a8 20 64 c0 a8 ... e P . > . a \$ - i p .

0020 20 05 00 50 20 0b 3e 1d 61 af 24 3d 31 31 50 19 ... e P . > . a \$ - i p .

0030 01 15 c3 30 00 00 3c 68 74 6d 6c 3e 0a 20 29 3c ... e . > . < h t a b l > < <

0040 68 05 61 64 3e 0a 20 20 20 3c 74 69 74 6c 65 ... head> <title <

0050 3e 49 4e 65 74 53 69 6d 20 64 65 66 61 75 6c 74 ... >INetSim default

0060 20 48 54 4d 4c 20 70 61 67 65 3c 2f 74 69 74 6c ... HTML pa ges</titl

0070 65 3e 0a 20 20 3c 2f 68 65 61 64 3e 0a 20 20 3c ... e> </h ead> <

0080 62 6f 64 79 3e 0a 20 20 20 3c 70 3e 3c 2f 70 ... body> <p></p

0090 3e 0a 20 20 20 20 3c 70 20 61 6c 69 67 6e 3d 22 ... > <p align="

00a0 63 65 6e 74 65 72 22 3e 54 68 69 73 20 69 73 20 ... center"> This is

00b0 74 68 65 20 64 65 66 61 75 6c 74 20 48 54 4d 4c ... the defa ult HTML

00c0 20 70 61 67 65 20 66 6f 72 20 49 4e 65 74 53 69 ... page fo r InetSi

00d0 6d 20 48 54 54 50 20 73 65 72 76 65 72 20 66 61 ... m HTTP s erver fa

00e0 6b 65 20 6d 6f 64 65 2e 3c 2f 70 3e 0a 20 20 20 ... ke mode. </p>

00f0 20 3c 70 20 61 6c 69 67 6e 3d 22 63 65 6e 74 65 ... <p align="cente

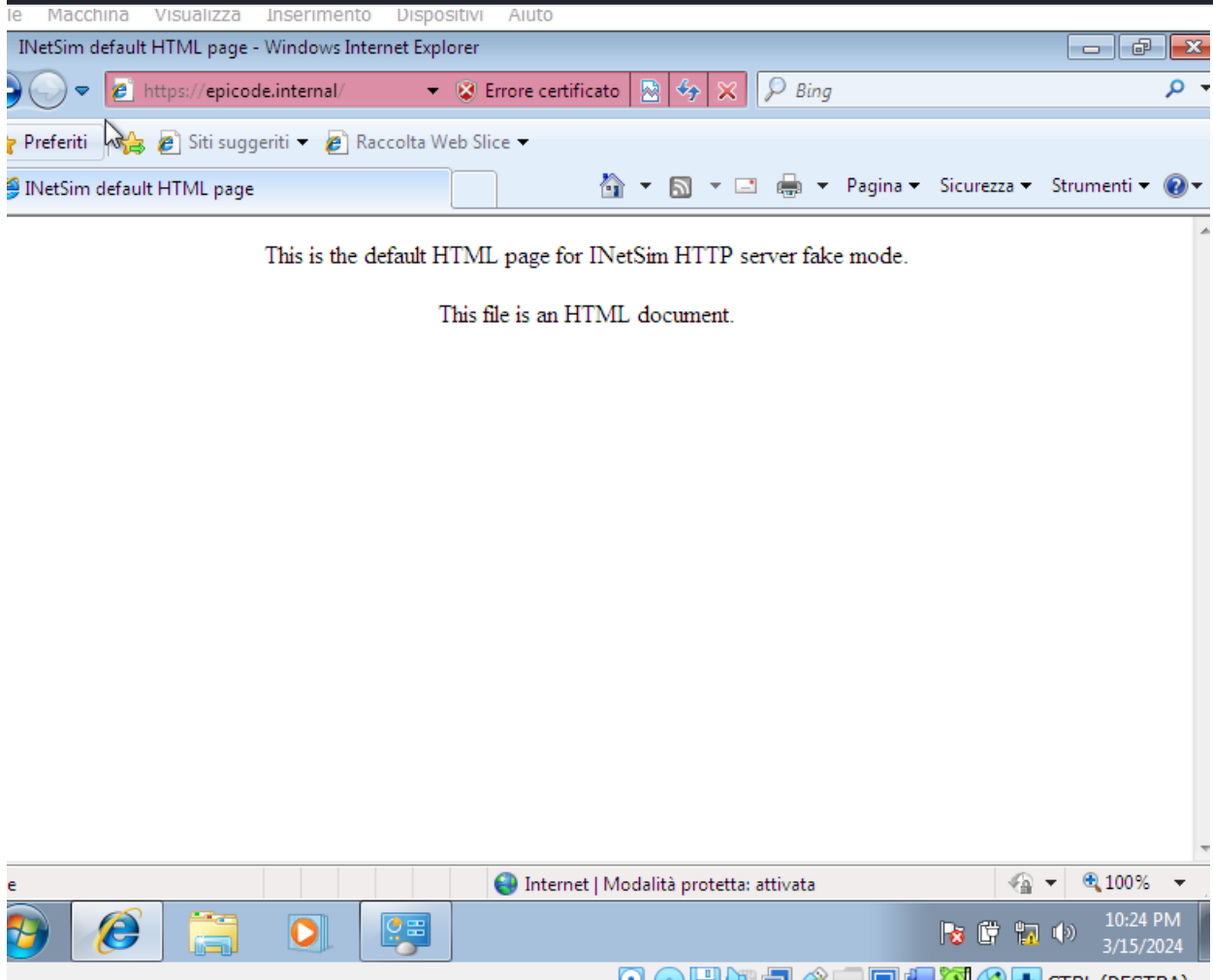
0100 72 22 3e 54 68 69 73 20 66 69 6c 65 20 69 73 20 ... r">This file is

0110 61 6e 20 48 54 4d 4c 20 64 6f 63 75 6d 65 6e 74 ... an HTML document

0120 2e 3c 2f 70 3e 0a 20 20 3c 2f 62 6f 64 79 3e 0a ... </p> </body>

0130 3c 2f 68 74 6d 6c 3e 0a ... </html>

```
27 6.982921124 fe80::e900:7e64:9b4... ff02::1:2 DHCPv6 146 Solicit XID: 0x85c876 CID: 000100012d6b221f080027b391b8
28 8.436069773 192.168.32.101 192.168.32.100 TLSv1 363 Application Data
29 8.447222782 192.168.32.100 192.168.32.101 TLSv1 235 Application Data
30 8.448773518 192.168.32.100 192.168.32.101 TLSv1 384 Application Data, Encrypted Alert
31 8.450223708 192.168.32.101 192.168.32.100 TCP 60 49171 -> 443 [ACK] Seq=605 Ack=1891 Win=65700 Len=0
32 8.450223766 192.168.32.101 192.168.32.100 TCP 60 49171 -> 443 [FIN, ACK] Seq=605 Ack=1891 Win=65700 Len=0
33 8.450334244 192.168.32.100 192.168.32.101 TCP 54 443 -> 49171 [ACK] Seq=1891 Ack=606 Win=64128 Len=0
34 8.508351331 192.168.32.101 192.168.32.100 TCP 66 49173 -> 443 [SYN] Seq=0 Win=0 MSS=1460 WS=4 SACK_PERM
35 8.508378389 192.168.32.100 192.168.32.101 TCP 66 443 -> 49173 [SYN, ACK] Seq=0 Ack=1 Win=64240 Len=0 MSS=1460 SACK_PERM WS=128
36 8.508925416 192.168.32.101 192.168.32.100 TCP 60 49173 -> 443 [ACK] Seq=1 Ack=1 Win=65700 Len=0
37 8.504361762 192.168.32.100 192.168.32.100 TLSv1 215 Client Hello (SN=epicode.internal)
38 8.504377638 192.168.32.100 192.168.32.101 TCP 54 443 -> 49173 [ACK] Seq=1 Ack=162 Win=64128 Len=0
39 8.521603503 192.168.32.100 192.168.32.101 TLSv1 1372 Server Hello, Change Cipher Spec, Key Exchange, Server Hello Done
40 8.548095135 192.168.32.101 192.168.32.100 TLSv1 188 Client Key Exchange, Change Cipher Spec, Encrypted Handshake Message
41 8.548541944 192.168.32.100 192.168.32.101 TLSv1 113 Change Cipher Spec, Encrypted Handshake Message
42 8.585006677 fe80::e900:7e64:9b4... ff02::1:3 LLMNR 84 Standard query 0xc944 A wpad
43 8.585332719 192.168.32.101 224.0.0.252 LLMNR 64 Standard query 0xc944 A wpad
44 8.747561998 fe80::e900:7e64:9b4... ff02::1:3 LLMNR 84 Standard query 0xc944 A wpad
45 8.747562724 192.168.32.101 224.0.0.252 LLMNR 64 Standard query 0xc944 A wpad
46 8.755649899 192.168.32.100 192.168.32.101 TCP 113 [TCP Retransmission] 443 -> 49173 [PSH, ACK] Seq=1320 Ack=296 Win=64128 Len=59
Frame 39: 1373 bytes on wire (10984 bits), 1373 bytes captured (10984 bits) on interface eth0, id 0
Ethernet II, Src: PCSSystemtec_b3:91:b8 (08:00:27:21:b1:d0), Dst: PCSSystemtec_b3:91:b8 (08:00:27:b3:91:b8)
Destination: PCSSystemtec_b3:91:b8 (08:00:27:b3:91:b8)
Source: PCSSystemtec_21:b1:d0 (08:00:27:21:b1:d0)
Type: IPv4 (0x8000)
Internet Protocol Version 4, Src: 192.168.32.100, Dst: 192.168.32.101
0100 .... = Version: 4
.... 0101 = Header Length: 20 bytes (5)
Differentiated Services Field: 0x00 (DSCP: CS0, ECN: Not-ECT)
Total Length: 1359
Identification: 0x2fe9 (12265)
010. .... = Flags: 0x2, Don't fragment
...0 0000 0000 0000 = Fragment Offset: 0
Time to Live: 64
Protocol: TCP (6)
Header Checksum: 0x43a6 [validation disabled]
[Header checksum status: Unverified]
Source Address: 192.168.32.100
Destination Address: 192.168.32.101
Transmission Control Protocol, Src Port: 443, Dst Port: 49173, Seq: 1, Ack: 162, Len: 1319
Transport Layer Security
0030 01 f5 c7 5b 00 00 16 03 01 00 59 02 00 00 55 03 .....Y..U
0040 01 43 4c 6a 49 ca da 5d af 36 b0 dc cc 44 e8 84 ..CLJI..] 6..D
0050 73 ee 7e d0 59 cf 63 01 08 44 4f 57 4e 47 52 44 s..Y.c hDOWNGRD
0060 00 20 4f 11 71 05 72 28 51 51 f5 30 74 05 d1 21 ..O q r( QQ 6t..l
0070 b1 44 02 c9 4c 7c e6 b1 3d cf 87 59 3b 32 63 96 ..D L] = Y;2c
0080 93 a7 c0 14 00 00 0d ff 01 00 01 00 00 0b 00 04 .....k..g..d
0090 03 00 01 02 16 03 01 03 6b 0b 00 03 67 00 03 64 ..a0 j0 ..E...
00a0 00 03 01 30 82 03 5d 30 82 02 45 a0 03 02 01 02 ..R..o dm ..Uo =Cq
00b0 02 14 52 60 0f 0f 44 6d 98 9c 55 6f 12 3d 43 71 ..A..u0 ..*..H
00c0 f9 00 41 8d 12 75 30 0d 06 09 2a 86 48 86 f7 0d ..0>1 0..U
00d0 01 01 05 05 00 30 3e 31 10 30 0e 06 03 55 04 0a ..InetSi m1 0..U
00e0 0c 07 49 4e 65 74 53 69 6d 31 14 30 12 06 03 55 ..Deve lopment1
00f0 04 0b 0c 0b 44 65 76 65 6c 6f 70 6d 65 6e 74 31 ..0..U...inet3
0100 14 30 12 06 03 55 04 03 0c 0b 09 06 69 74 73 69 ..org0 ..2311301
0110 04 2e 6f 72 0f 39 1e 17 0d 32 33 31 31 33 30 31 ..5406Z0>1 0..U
0120 36 35 34 30 36 5a 17 0d 33 33 31 31 32 37 31 36 ..InetSi m1 0..U
0130 35 34 30 36 5a 30 3e 31 10 30 0e 06 03 55 04 0a ..Deve lopment1
0140 0c 07 49 4e 65 74 53 69 6d 31 14 30 12 06 03 55 ..0..U...inet3
0150 04 0b 0c 0b 44 65 76 65 6c 6f 70 6d 65 6e 74 31 ..0..U...inet3
0160 14 30 12 06 03 55 04 03 0c 0b 09 06 69 74 73 69 ..m.org0 .."0...H
0170 6d 2e 6f 72 0f 39 82 01 22 30 0d 06 09 2a 86 48 ..0...
0180 86 f7 0d 01 01 01 05 00 03 82 01 0f 00 30 82 01 ..0...
Packets: 70 - Displayed: 70 (100.0%)
```



La differenza principale tra il pacchetto catturato in HTTP e quello catturato in HTTPS è che nel primo caso i dati a destra sono ben leggibili e comprensibili mentre nel secondo caso sono incomprensibili perché crittografati; questo perché nel protocollo HTTPS, prima di trasferire i dati, il browser e il server stabiliscono una connessione sicura e crittografata. In poche parole il protocollo HTTP trasmette dati non crittografati e di conseguenza potrebbero essere intercettati e letti da terzi, cosa che non capita con il protocollo HTTPS visto che i dati scambiati tra server e browser web sono crittografati o criptati.