



File Actions Edit View Help

GNU nano 7.2

/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 eth0
```

```
iface eth0 inet static
```

```
address 192.168.32.100/24
```

```
gateway 192.168.32.1
```

Home

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/etc/inetsim/inetsim.conf

```
# 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
```

#####

dns_static

#

Static mappings for DNS

File System

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

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Apply a display filter ... <Ctrl-/>

No.	Time	Source	Destination	Protocol	Length	Info
1	0.000000000	PcsCompu_67:4b:8b	Broadcast	ARP	60	Who has 192.168.32.100? Tell 192.168.32.101
2	0.000063489	PcsCompu_cb:7e:f5	PcsCompu_67:4b:8b	ARP	42	192.168.32.100 is at 08:00:27:cb:7e:f5
3	0.000579557	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
4	0.000641205	192.168.32.100	192.168.32.101	TCP	66	80 → 49160 [SYN, ACK] Seq=0 Ack=1 Win=64240 Len=0 MSS=1460 SACK_...
5	0.001015778	192.168.32.101	192.168.32.100	TCP	60	49160 → 80 [ACK] Seq=1 Ack=1 Win=65700 Len=0
6	0.001286685	192.168.32.101	192.168.32.100	HTTP	340	GET / HTTP/1.1
7	0.001305408	192.168.32.100	192.168.32.101	TCP	54	80 → 49160 [ACK] Seq=1 Ack=287 Win=64128 Len=0
8	0.070399678	192.168.32.100	192.168.32.101	TCP	204	80 → 49160 [PSH, ACK] Seq=1 Ack=287 Win=64128 Len=150 [TCP segme...
9	0.075698054	192.168.32.100	192.168.32.101	HTTP	312	HTTP/1.1 200 OK (text/html)
10	0.076223412	192.168.32.101	192.168.32.100	TCP	60	49160 → 80 [ACK] Seq=287 Ack=410 Win=65292 Len=0
11	0.076486031	192.168.32.101	192.168.32.100	TCP	60	49160 → 80 [FIN, ACK] Seq=287 Ack=410 Win=65292 Len=0
12	0.076514407	192.168.32.100	192.168.32.101	TCP	54	80 → 49160 [ACK] Seq=410 Ack=288 Win=64128 Len=0

Frame 6: 340 bytes on wire (2720 bits), 340 bytes captured (2720 bits) on interface eth0, id 0

Ethernet II, Src: PcsCompu_67:4b:8b (08:00:27:67:4b:8b), Dst: PcsCompu_cb:7e:f5 (08:00:27:cb:7e:f5)

- Destination: PcsCompu_cb:7e:f5 (08:00:27:cb:7e:f5)
- Source: PcsCompu_67:4b:8b (08:00:27:67:4b:8b)
- Type: IPv4 (0x0800)

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

Transmission Control Protocol, Src Port: 49160, Dst Port: 80, Seq: 1, Ack: 1, Len: 286

Hypertext Transfer Protocol

- GET / HTTP/1.1\r\n
- Accept: */*\r\n
- Accept-Language: en-US\r\n
- User-Agent: Mozilla/4.0 (compatible; MSIE 7.0; Windows NT 6.1; WOW64; Trident/4.0; SLCC2; .NET CLR 2.0.50727; .NET CLR 3.5.30729; .NET C...
- Accept-Encoding: gzip, deflate\r\n
- Host: epicode.internal\r\n
- Connection: Keep-Alive\r\n
- \r\n
- [Full request URI: http://epicode.internal/]
- [HTTP request 1/1]
- [Response in frame: 9]

wireshark_eth02VXEf2.pcapng

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http://epicode.internal/

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INetSim default HTML page

This is the default HTML page for INetSim HTTP server fake mode.

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Apply a display filter ... <Ctrl-/>

No.	Time	Source	Destination	Protocol	Length	Info
1	0.000000000	192.168.32.101	192.168.32.100	TCP	66	49172 → 443 [SYN] Seq=0 Win=8192 Len=0 MSS=1460 WS=4 SACK_PE
2	0.000113063	192.168.32.100	192.168.32.101	TCP	66	443 → 49172 [SYN, ACK] Seq=0 Ack=1 Win=64240 Len=0 MSS=1460
3	0.000622514	192.168.32.101	192.168.32.100	TCP	60	49172 → 443 [ACK] Seq=1 Ack=1 Win=65700 Len=0
4	0.002280813	192.168.32.101	192.168.32.100	TLSv1	215	Client Hello
5	0.002337380	192.168.32.100	192.168.32.101	TCP	54	443 → 49172 [ACK] Seq=1 Ack=162 Win=64128 Len=0
6	0.091240852	192.168.32.100	192.168.32.101	TLSv1	1373	Server Hello, Certificate, Server Key Exchange, Server Hello
7	0.103868547	192.168.32.101	192.168.32.100	TLSv1	188	Client Key Exchange, Change Cipher Spec, Encrypted Handshake
8	0.103944765	192.168.32.100	192.168.32.101	TCP	54	443 → 49172 [ACK] Seq=1320 Ack=296 Win=64128 Len=0
9	0.105410870	192.168.32.100	192.168.32.101	TLSv1	113	Change Cipher Spec, Encrypted Handshake Message
10	0.117110089	PcsCompu_67:4b:8b	Broadcast	ARP	60	Who has 192.168.32.1? Tell 192.168.32.101
11	0.301079236	192.168.32.101	192.168.32.100	TCP	60	49172 → 443 [ACK] Seq=296 Ack=1379 Win=64320 Len=0
12	1.052428389	PcsCompu_67:4b:8b	Broadcast	ARP	60	Who has 192.168.32.1? Tell 192.168.32.101
13	2.051058522	PcsCompu_67:4b:8b	Broadcast	ARP	60	Who has 192.168.32.1? Tell 192.168.32.101
14	3.259301772	fe80::5530:d90c:baa...	ff02::1:3	LLMNR	84	Standard query 0xc605 A wpad
15	3.259499225	192.168.32.101	224.0.0.252	LLMNR	64	Standard query 0xc605 A wpad
16	3.364761121	fe80::5530:d90c:baa...	ff02::1:3	LLMNR	84	Standard query 0xc605 A wpad
17	3.364761828	192.168.32.101	224.0.0.252	LLMNR	64	Standard query 0xc605 A wpad

Frame 9: 113 bytes on wire (904 bits), 113 bytes captured (904 bits) on interface eth0, id 0

Ethernet II, Src: PcsCompu_cb:7e:f5 (08:00:27:cb:7e:f5), Dst: PcsCompu_67:4b:8b (08:00:27:67:4b:8b)

- Destination: PcsCompu_67:4b:8b (08:00:27:67:4b:8b)
- Source: PcsCompu_cb:7e:f5 (08:00:27:cb:7e:f5)
- Type: IPv4 (0x0800)

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

Transmission Control Protocol, Src Port: 443, Dst Port: 49172, Seq: 1320, Ack: 296, Len: 59

Transport Layer Security

- TLSv1 Record Layer: Change Cipher Spec Protocol: Change Cipher Spec
 - Content Type: Change Cipher Spec (20)
 - Version: TLS 1.0 (0x0301)
 - Length: 1
 - Change Cipher Spec Message
- TLSv1 Record Layer: Handshake Protocol: Encrypted Handshake Message
 - Content Type: Handshake (22)
 - Version: TLS 1.0 (0x0301)
 - Length: 48
 - Handshake Protocol: Encrypted Handshake Message

wireshark_eth05DHIF2.pcapng

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CTRL (DESTRA)

Il protocollo HTTPS integra l'interazione del protocollo HTTP utilizzando i protocolli SSL (Secure Sockets Layer) o TLS (Transport Layer Security) per proteggere il canale di comunicazione.

Nella cattura fatta con Wireshark, questo è subito visibile in quanto, nella richiesta attraverso HTTPS, diversamente rispetto la stessa cattura con HTTP, è presente il protocollo TLS che tenta di criptare il canale di comunicazione.

Il traffico in HTTP viene invece trasmesso in testo semplice. Ciò significa che tutti i dati scambiati tra il client e il server, comprese le informazioni sensibili come credenziali di accesso o dettagli personali, possono essere facilmente intercettati e letti.