Protocolo de Ligação de Dados

Relatório



Mestrado Integrado em Engenharia Informática e Computação Redes de Computadores

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1 Sumário

Coisas doces.

2 Introdução

Neste relatório iremos descrever o nosso segundo trabalho laboratorial, que teve como objectivos desenvolver uma aplicação de download FTP e a configuração de uma rede utilizando vlans em switch managed e router comercial CISCO.

3 Aplicação de Download FTP

3.1 Arquitectura

3.2 Exemplo de um download com sucesso

Mais coisas doces. Não, docinhas.

4 Configuração da Rede e Análise

4.1 Experiência 1 - Configure an IP Network

4.1.1 Objectivos

Fazer coisas.

4.1.2 Comandos

tux1 ;service networking restart ;ifconfig eth0 up ;ifconfig eth0 172.16.50.1/24 tux4 ;service networking restart ;ifconfig eth0 up ;ifconfig eth0 172.16.50.254/24

4.1.3 Análise de Logs

Conforme o log em anexo, concluiem-se coisas.

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- 5 Conclusões
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WireShark Exp 1 - PC 1

No. Time Source Destination
Protocol Length Info
1 0.000000000 Cisco_3a:f6:0f Spanning-tree-(for-bridges)_00 STP 60 Conf. Root = 32768/50/fc:fb:fb:3a:f6:00 Cost = 0 Port = 0x800f

Frame 1: 60 bytes on wire (480 bits), 60 bytes captured (480 bits) on interface 0
IEEE 802.3 Ethernet
Logical-Link Control
Spanning Tree Protocol

No. Time Source Destination
Protocol Length Info

```
2 2.004807000
Frame 2: 60 bytes on wire (480 bits), 60 bytes captured (480 bits) on interface 0
IEEE 802.3 Ethernet
Logical-Link Control
Spanning Tree Protocol
    Time Source
Protocol Length Info
3 2.358074000 Cisco_3a:f6:0f
                                                           Destination
                                                           Cisco_3a:f6:0f
Frame 3: 60 bytes on wire (480 bits), 60 bytes captured (480 bits) on interface 0

Ethernet II, Src: Cisco_3a:f6:0f (fc:fb:fb:3a:f6:0f), Dst: Cisco_3a:f6:0f (fc:fb:fb:3a:f6:0f)

Destination: Cisco_3a:f6:0f (fc:fb:fb:3a:f6:0f)

Address: Cisco_3a:f6:0f (fc:fb:fb:3a:f6:0f)

.... .0. ... ... ... = LG bit: Globally unique
             ....0. .... = LG bit: Globally unique address (factory default) = IG bit: Individual address
     (unicast)
Source: Cisco_3a:f6:0f (fc:fb:fb:3a:f6:0f)
Address: Cisco_3a:f6:0f (fc:fb:fb:3a:f6:0f)
.....0....= LG bit: Globally unique
address (factory default)
= IG bit: Individual addr
              ....0 .... = IG bit: Individual address (unicast)
Type: Loopback (0x9000)
Configuration Test Protocol (loopback)
Data (40 bytes)
0020 00 00 00 00 00 00 00
    Time
Protocol Length Info
                              Source
                                                           Destination
            4 4.009704000
Frame 4: 60 bytes on wire (480 bits), 60 bytes captured (480 bits)
on interface 0
IEEE 802.3 Ethernet
Logical-Link Control
Spanning Tree Protocol
No. Time Protocol Length Info
                              Source
                                                           Destination
       Frame 5: 60 bytes on wire (480 bits), 60 bytes captured (480 bits) on interface 0
IEEE 802.3 Ethernet
Logical-Link Control
Spanning Tree Protocol
    Time Source
Protocol Length Info
6 6.157528000 Cisco_3a:f6:0f
CDD 436 Device ID: tux
                                                           Destination
                                                           CDP/VTP/DTP/PAgP/UDLD
                                 Frame 6: 436 bytes on wire (3488 bits), 436 bytes captured (3488 bits) on interface 0
IEEE 802.3 Ethernet
Logical-Link Control
Cisco Discovery Protocol
```

```
Time
                            Source
                                                      Destination
    Protocol Length Info
7 7.780482000
                           172.16.0.1
                                                      172.16.0.254
           ICMP
                              Echo (ping) request id=0x272f, seq=1/256,
Frame 7: 98 bytes on wire (784 bits), 98 bytes captured (784 bits) on interface 0 \,
.... = IG bit: Individual address (unicast)
    Source: Kye_25:13:65 (00:c0:df:25:13:65)
Address: Kye_25:13:65 (00:c0:df:25:13:65)
.... = LG bit: Globally unique
             address (factory default)
          .... = IG bit: Individual address (unicast)
     Type: IP (0x0800)
Internet Protocol Version 4, Src: 172.16.0.1 (172.16.0.1), Dst: 172.16.0.254 (172.16.0.254)
Internet Control Message Protocol
No. Time
Protocol Length Info
8 7.780667000
98
                                                      Destination
                          172.16.0.254
                                                      172.16.0.1
           ICMP
                             Echo (ping) reply
                                                       id=0x272f, seq=1/256,
            ttl=64
Frame 8: 98 bytes on wire (784 bits), 98 bytes captured (784 bits)
Frame 8: 98 bytes on wife (161 222), on interface 0

Ethernet II, Src: Hewlett-_c3:78:70 (00:21:5a:c3:78:70), Dst: Kye_25:13:65 (00:c0:df:25:13:65)

Destination: Kye_25:13:65 (00:c0:df:25:13:65)

Address: Kye_25:13:65 (00:c0:df:25:13:65)

.... .0. .... = LG bit: Globally unique
            address (factory default)
                        ... .... .... = IG bit: Individual address
    address (factory default)
          .... o .... = IG bit: Individual address (unicast)
Type: IP (0x0800)
Internet Protocol Version 4, Src: 172.16.0.254 (172.16.0.254), Dst: 172.16.0.1 (172.16.0.1)
Internet Control Message Protocol
   Frame 9: 60 bytes on wire (480 bits), 60 bytes captured (480 bits)
on interface 0
IEEE 802.3 Ethernet
Logical-Link Control
Spanning Tree Protocol
    Time Protocol Length Info 10 8.780505000 ICMP 98
                            Source
                                                      Destination
                          172.16.0.1
                                                      172.16.0.254
                             Echo (ping) request id=0x272f, seq=2/512,
          tt1=64
Frame 10: 98 bytes on wire (784 bits), 98 bytes captured (784 bits)
     on interface 0
```

```
Ethernet II, Src: Kye_25:13:65 (00:c0:df:25:13:65), Dst: Hewlett-_c3:78:70 (00:21:5a:c3:78:70)

Destination: Hewlett-_c3:78:70 (00:21:5a:c3:78:70)

Address: Hewlett-_c3:78:70 (00:21:5a:c3:78:70)

.....0.....= LG bit: Globally unique
                  address (factory default)
                      ...0 .... ....
                                                       .... = IG bit: Individual address
      (unicast)
Source: Kye_25:13:65 (00:c0:df:25:13:65)
Address: Kye_25:13:65 (00:c0:df:25:13:65)
.....0....= LG bit: Globally unique address (factory default)
              .... 0 .... = IG bit: Individual address (unicast)
      Type: IP (0x0800)
Internet Protocol Version 4, Src: 172.16.0.1 (172.16.0.1), Dst: 172.16.0.254 (172.16.0.254)
Internet Control Message Protocol
     Time
Protocol Length Info
11 8.780671000
                                                                             Destination
                                       172.16.0.254
                                                                             172.16.0.1
                                         Echo (ping) reply
              ICMP
                            98
                                                                             id=0x272f, seq=2/512,
              tt1=64
Frame 11: 98 bytes on wire (784 bits), 98 bytes captured (784 bits)
on interface 0

Ethernet II, Src: Hewlett-_c3:78:70 (00:21:5a:c3:78:70), Dst: Kye_25:13:65 (00:c0:df:25:13:65)

Destination: Kye_25:13:65 (00:c0:df:25:13:65)

Address: Kye_25:13:65 (00:c0:df:25:13:65)

= IC bit: Globally upic
              .... 0. .... = LG bit: Globally unique address (factory default)
.... 0 .... = IG bit: Individual address (unicast)
       Source: Hewlett-_c3:78:70 (00:21:5a:c3:78:70)
             Address: Hewlett-_c3:78:70 (00:21:5a:c3:78:70)
.... = LG bit: Globally unique
                 address (factory default)
                      ...0 .... = IG bit: Individual address
                  (unicast)
Type: IP (0x0800)
Internet Protocol Version 4, Src: 172.16.0.254 (172.16.0.254), Dst: 172.16.0.1 (172.16.0.1)
Internet Control Message Protocol
     Time Protocol Length Info
                                                                             Destination
                                       Source
                                       172.16.0.1 172.16.0.254
Echo (ping) request id=0x272f, seq=3/768,
              ICMP
                            98
              ttl=64
Frame 12: 98 bytes on wire (784 bits), 98 bytes captured (784 bits) on interface 0

Ethernet II, Src: Kye_25:13:65 (00:c0:df:25:13:65), Dst: Hewlett-_c3:78:70 (00:21:5a:c3:78:70)

Destination: Hewlett-_c3:78:70 (00:21:5a:c3:78:70)

Address: Hewlett-_c3:78:70 (00:21:5a:c3:78:70)

.... .0. .... = LG bit: Globally unique
                   address (factory default)
      Address: Kye_25:13:65 (00:c0:df:25:13:65)
.... ..0. .... = LG bit: Globally unique
                  ....0. .... .... .... ....
address (factory default)
                      \dots0 \dots = IG bit: Individual address
                   (unicast)
                IP (0x0800)
Internet Protocol Version 4, Src: 172.16.0.1 (172.16.0.1), Dst: 172.16.0.254 (172.16.0.254)
Internet Control Message Protocol
```

```
Frame 13: 98 bytes on wire (784 bits), 98 bytes captured (784 bits) on interface 0

Ethernet II, Src: Hewlett-_c3:78:70 (00:21:5a:c3:78:70), Dst: Kye_25:13:65 (00:c0:df:25:13:65)

Destination: Kye_25:13:65 (00:c0:df:25:13:65)

Address: Kye_25:13:65 (00:c0:df:25:13:65)

.... .0 .... ... = LG bit: Globally unique
                  address (factory default)
              .... = IG bit: Individual address (unicast)
      Source: Hewlett-_c3:78:70 (00:21:5a:c3:78:70)
Address: Hewlett-_c3:78:70 (00:21:5a:c3:78:70)
.... .0. .... = LG bit: Globally unique address (factory default)

= TC bit: Individual addr
              .... = IG bit: Individual address (unicast)
       Type: IP (0x0800)
Internet Protocol Version 4, Src: 172.16.0.254 (172.16.0.254), Dst: 172.16.0.1 (172.16.0.1)
Internet Control Message Protocol
No. Time Source
Protocol Length Info
14 10.024233000 Cisco_3a:f6:0f
bridges)_00 STP 60 Co
                                                                            Destination
                                                                            Spanning-tree-(for-
              bridges)_00 STP 60 Conf.
:3a:f6:00 Cost = 0 Port = 0x800f
                                                          Conf. Root = 32768/50/fc:fb:fb
Frame 14: 60 bytes on wire (480 bits), 60 bytes captured (480 bits)
on interface 0
IEEE 802.3 Ethernet
Logical-Link Control
Spanning Tree Protocol
     Time Source
Protocol Length Info
15 10.780521000 172.16.0.1
                                                                            Destination
                                                                            172.16.0.254
              ICMP
                            98
                                        Echo (ping) request id=0x272f, seq=4/1024,
               tt1=64
Frame 15: 98 bytes on wire (784 bits), 98 bytes captured (784 bits) on interface 0

Ethernet II, Src: Kye_25:13:65 (00:c0:df:25:13:65), Dst: Hewlett-_c3:78:70 (00:21:5a:c3:78:70)

Destination: Hewlett-_c3:78:70 (00:21:5a:c3:78:70)

Address: Hewlett-_c3:78:70 (00:21:5a:c3:78:70)

.....0..... = LG bit: Globally unique address (factory default)

.....0 ..... = IG bit: Individual address
      .... = IG bit: Individual address (unicast)
Source: Kye_25:13:65 (00:c0:df:25:13:65)
             Address: Kye_25:13:65 (00:c0:df:25:13:65)
.... = LG bit: Globally unique
                  address (factory default)
                                      .... .... = IG bit: Individual address
              .... (unicast)
      Type: IP (0x0800)
Time Source
Protocol Length Info
16 10.780661000 172.16.0.254
                                                                            Destination
                                                                            172.16.0.1
              ICMP
                                        Echo (ping) reply
                            98
                                                                            id=0x272f, seq=4/1024,
               ttl=64
Frame 16: 98 bytes on wire (784 bits), 98 bytes captured (784 bits)
       on interface 0
```

Time Protocol Length Info 13 9.780665000

ICMP

Source

172.16.0.254

Echo (ping) reply

Destination

172.16.0.1

id=0x272f, seq=3/768,

```
address (factory default)
                   ...0 .
                             ... .... .... = IG bit: Individual address
     .....(unicast)
Source: Hewlett-_c3:78:70 (00:21:5a:c3:78:70)
Address: Hewlett-_c3:78:70 (00:21:5a:c3:78:70)
.....0.....= LG bit: Globally unique
address (factory default)
            .... 0 .... = IG bit: Individual address (unicast)
      Type: IP (0x0800)
Internet Protocol Version 4, Src: 172.16.0.254 (172.16.0.254), Dst: 172.16.0.1 (172.16.0.1)
Internet Control Message Protocol
    Time
Protocol Length Info
17 11.780554000
                                                                   Destination
                                  172.16.0.1
                                                                   172.16.0.254
                                    Echo (ping) request id=0x272f, seq=5/1280,
            ICMP
                        98
             ttl=64
Frame 17: 98 bytes on wire (784 bits), 98 bytes captured (784 bits)
on interface 0

Ethernet II, Src: Kye_25:13:65 (00:c0:df:25:13:65), Dst: Hewlett-
_c3:78:70 (00:21:5a:c3:78:70)

Destination: Hewlett-_c3:78:70 (00:21:5a:c3:78:70)

Address: Hewlett-_c3:78:70 (00:21:5a:c3:78:70)

......0. .... = LG bit: Globally unique
               address (factory default)
            .... (unicast)
                                                .... = IG bit: Individual address
      Source: Kye_25:13:65 (00:c0:df:25:13:65)
            Address: Kye_25:13:65 (00:c0:df:25:13:65)
.....0..... = LG bit: Globally unique address (factory default)
.....0 = IG bit: Individual address
                (unicast)
Type: IP (0x0800)
Internet Protocol Version 4, Src: 172.16.0.254 (172.16.0.254)
Internet Control Message Protocol
                                           Src: 172.16.0.1 (172.16.0.1), Dst:
    Time Protocol Length Info 18 11.780697000
                                                                   Destination
                                  Source
                                  172.16.0.254
Echo (ping) reply
                                                                   172.16.0.1
            ICMP
                                                                   id=0x272f, seq=5/1280,
                         98
             ttl=64
Frame 18: 98 bytes on wire (784 bits), 98 bytes captured (784 bits) on interface 0

Ethernet II, Src: Hewlett-_c3:78:70 (00:21:5a:c3:78:70), Dst: Kye_25:13:65 (00:c0:df:25:13:65)
      Destination: Kye_25:13:65 (00:c0:df:25:13:65)

Address: Kye_25:13:65 (00:c0:df:25:13:65)

.... .0. .... = LG bit: Globally unique
                 address (factory default)
     address (factory default)
                    ...0 .... = IG bit: Individual address
                 (unicast)
              IP (0x0800)
Internet Protocol Version 4, Src: 172.16.0.254 (172.16.0.254), Dst: 172.16.0.1 (172.16.0.1)
Internet Control Message Protocol
```

```
Time Source
Protocol Length Info
19 12.029014000 Cisco_3a:f6:0f
                                                           Destination
                                                           Spanning-tree-(for-
           bridges)_00 STP 60 Conf. Root = 32768/50/fc:fb:fb:3a:f6:00 Cost = 0 Port = 0x800f
Frame 19: 60 bytes on wire (480 bits), 60 bytes captured (480 bits) on interface 0
IEEE 802.3 Ethernet
Logical-Link Control
Spanning Tree Protocol
    Time S
Protocol Length Info
20 12.364873000
LOOP 60
                                                           Destination
                              Source
                              Cisco_3a:f6:0f
                                                           Cisco_3a:f6:0f
                                Reply
Frame 20: 60 bytes on wire (400 bits), and on interface 0

Ethernet II, Src: Cisco_3a:f6:0f (fc:fb:fb:3a:f6:0f), Dst: Cisco_3a:f6:0f (fc:fb:fb:3a:f6:0f)

Destination: Cisco_3a:f6:0f (fc:fb:fb:3a:f6:0f)

Address: Cisco_3a:f6:0f (fc:fb:fb:3a:f6:0f)

.....0...... = LG bit: Globally unique address (factory default)

....... = IG bit: Individual address
Frame 20: 60 bytes on wire (480 bits), 60 bytes captured (480 bits)
              ....0 .... = IG bit: Individual address (unicast)
     Source: Cisco_3a:f6:0f (fc:fb:fb:3a:f6:0f)
Address: Cisco_3a:f6:0f (fc:fb:fb:3a:f6:0f)
.... .0. .... ... ... = LG bit: Globally unique
             address (factory default)
              . ...0 .... .... (unicast)
                                           .... = IG bit: Individual address
Type: Loopback (0x9000)
Configuration Test Protocol (loopback)
Data (40 bytes)
0020 00 00 00 00 00 00 00 00
    Time Source
Protocol Length Info
21 12.780579000 172.16.0.1 172.16.0.254
TCMP 98 Echo (ping) request id=0x272f, seq=6/1536,
Frame 21: 98 bytes on wire (784 bits), 98 bytes captured (784 bits)
on interface 0
Ethernet II, Src: Kye_25:13:65 (00:c0:df:25:13:65), Dst: Hewlett-
    .... = IG bit: Individual address (unicast)
     Source: Kye_25:13:65 (00:c0:df:25:13:65)
          Address: Kye_25:13:65 (00:c0:df:25:13:65)
.... = LG bit: 6
             address (factory default)
           \dots = IG bit: Individual address
               (unicast)
     Type: IP (0x0800)
Internet Protocol Version 4, Src: 172.16.0.1 (172.16.0.1), Dst: 172.16.0.254 (172.16.0.254)
Internet Control Message Protocol
    Time Source
Protocol Length Info
22 12.780725000 172.16.0.254
                                                           Destination
                                                           172.16.0.1
                                                          id=0x272f, seq=6/1536,
           ICMP
                      98
                               Echo (ping) reply
            tt1=64
```

```
Frame 22: 98 bytes on wire (784 bits), 98 bytes captured (784 bits)
on interface 0

Ethernet II, Src: Hewlett-_c3:78:70 (00:21:5a:c3:78:70), Dst:

Kye_25:13:65 (00:c0:df:25:13:65)

Destination: Kye_25:13:65 (00:c0:df:25:13:65)

Address: Kye_25:13:65 (00:c0:df:25:13:65)
                 address (factory default)
                                                   .... = LG bit: Globally unique
                ....0 .... = IG bit: Individual address (unicast)
      Source: Hewlett-_c3:78:70 (00:21:5a:c3:78:70)
   Address: Hewlett-_c3:78:70 (00:21:5a:c3:78:70)
   ... .0. ... ... = LG bit: Globally unique
   address (factory default)
             .... (unicast)
                                    .... = IG bit: Individual address
      Type: IP (0x0800)
Internet Protocol Version 4, Src: 172.16.0.254 (172.16.0.254), Dst: 172.16.0.1 (172.16.0.1)
Internet Control Message Protocol
     Time Source
Protocol Length Info
23 13.780534000 172.16.0.1
                                                                      172.16.0.254
             ICMP
                          98
                                     Echo (ping) request id=0x272f, seq=7/1792,
              tt1=64
Frame 23: 98 bytes on wire (784 bits), 98 bytes captured (784 bits)
Frame 23: 98 bytes on wire (104 bits), 50 bytes on interface 0

Ethernet II, Src: Kye_25:13:65 (00:c0:df:25:13:65), Dst: Hewlett-
_c3:78:70 (00:21:5a:c3:78:70)

Destination: Hewlett-_c3:78:70 (00:21:5a:c3:78:70)

Address: Hewlett-_c3:78:70 (00:21:5a:c3:78:70)

.....0..... = LG bit: Globally unique address (factory default)

0 ..... = IG bit: Individual address
                (unicast)
                                                  .... = IG bit: Individual address
      Source: Kye_25:13:65 (00:c0:df:25:13:65)
    Address: Kye_25:13:65 (00:c0:df:25:13:65)
    ....    ....    ....    ....    = LG bit: Globally unique
                address (factory default)
address (lactory default)
.... = IG bit: Individual address
(unicast)
Type: IP (0x0800)
Internet Protocol Version 4, Src: 172.16.0.1 (172.16.0.1), Dst:
172.16.0.254 (172.16.0.254)
Internet Control Message Protocol
     Time
Protocol Length Info
24 13.780711000
                                                                      Destination
                                 172.16.0.254
Echo (ping) reply
                                                                      172.16.0.1
             ICMP
                          98
                                                                      id=0x272f, seq=7/1792,
              tt1=64
Frame 24: 98 bytes on wire (784 bits), 98 bytes captured (784 bits)
on interface 0
Ethernet II, Src: Hewlett-_c3:78:70 (00:21:5a:c3:78:70), Dst: Kye_25:13:65 (00:c0:df:25:13:65)
      address (factory default)
      .... = IG bit: Individual address
             .... = IG bit: Individual address (unicast)
      Type: IP (0x0800)
Internet Protocol Version 4, Src: 172.16.0.254 (172.16.0.254), Dst:
      172.16.0.1 (172.16.0.1)
```

```
Internet Control Message Protocol
     Time Source 25.2

Protocol Length Info
25 14.033806000 Cisco_3a:f6:0f Spanning-tree-(for-bridges)_00 STP 60 Conf. Root = 32768/50/fc:fb:fb:3a:f6:00 Cost = 0 Port = 0x800f
Frame 25: 60 bytes on wire (480 bits), 60 bytes captured (480 bits)
on interface 0
IEEE 802.3 Ethernet
Logical-Link Control
Spanning Tree Protocol
     Time Source
Protocol Length Info
26 14.780535000 172.16.0.1
ICMP 98 Echo (ping
                                                                             Destination
                                                                             172.16.0.254
                                        Echo (ping) request id=0x272f, seq=8/2048,
                ttl=64
Frame 26: 98 bytes on wire (784 bits), 98 bytes captured (784 bits) on interface 0

Ethernet II, Src: Kye_25:13:65 (00:c0:df:25:13:65), Dst: Hewlett-_c3:78:70 (00:21:5a:c3:78:70)

Destination: Hewlett-_c3:78:70 (00:21:5a:c3:78:70)

Address: Hewlett-_c3:78:70 (00:21:5a:c3:78:70)

.... .0. .... = LG bit: Globally unique
                   address (factory default)
      Cunicast)

Source: Kye_25:13:65 (00:c0:df:25:13:65)
Address: Kye_25:13:65 (00:c0:df:25:13:65)
              . . . . . . . . . . . . . . . .
                                                        .... = LG bit: Globally unique
                  address (factory default)
              .... = IG bit: Individual address (unicast)
       Type: IP (0x0800)
Internet Protocol Version 4, Src: 172.16.0.1 (172.16.0.1), Dst: 172.16.0.254 (172.16.0.254)
Internet Control Message Protocol
     Time Source
Protocol Length Info
27 14.780682000 172.16.0.254
Figh (ping)
                                                                             Destination
                                                                             172.16.0.1
              ICMP
                            98
                                         Echo (ping) reply
                                                                             id=0x272f, seq=8/2048,
Frame 27: 98 bytes on wire (784 bits), 98 bytes captured (784 bits) on interface 0

Ethernet II, Src: Hewlett-_c3:78:70 (00:21:5a:c3:78:70), Dst: Kye_25:13:65 (00:c0:df:25:13:65)

Destination: Kye_25:13:65 (00:c0:df:25:13:65)

Address: Kye_25:13:65 (00:c0:df:25:13:65)

.... .0. ... ... = LG bit: Globally unique
                  address (factory default)
              .... ...0 .... .... (unicast)
                                                        .... = IG bit: Individual address
       Source: Hewlett-_c3:78:70 (00:21:5a:c3:78:70)
              Address: Hewlett - c3:78:70 (00:21:5a:c3:78:70)
.... .0. ... = LG bit: Globally unique address (factory default)
              .... = IG bit: Individual address (unicast)
       Type: IP (0x0800)
Internet Protocol Version 4, Src: 172.16.0.254 (172.16.0.254), Dst: 172.16.0.1 (172.16.0.1)
Internet Control Message Protocol
```

```
Frame 28: 60 bytes on wire (480 bits), 60 bytes captured (480 bits)
on interface 0
IEEE 802.3 Ethernet
Logical - Link Control
Spanning Tree Protocol
     Time
Protocol Length Info
29 16.792099000
ARP 60
                                                                              Destination
                                        Source
                                     Hewlett-_c3:78:70
Who has 172.16.0.1?
                                                                              Kye_25:13:65
Tell 172.16.0.254
Frame 29: 60 bytes on wire (480 bits), 60 bytes captured (480 bits)
Frame 29: 00 bytes on will on interface 0

on interface 0

Ethernet II, Src: Hewlett-_c3:78:70 (00:21:5a:c3:78:70), Dst: Kye_25:13:65 (00:c0:df:25:13:65)

Destination: Kye_25:13:65 (00:c0:df:25:13:65)

Address: Kye_25:13:65 (00:c0:df:25:13:65)
                   ...0. .... = LG bit: Globally unique address (factory default)
...0 .... = IG bit: Individual address (unicast)
       Source: Hewlett-_c3:78:70 (00:21:5a:c3:78:70)
    Address: Hewlett-_c3:78:70 (00:21:5a:c3:78:70)
    ... .0. ... ... = LG bit: Globally unique
    address (factory default)
    ... .0 ... ... = IG bit: Individual address
                    (unicast)
Time SProtocol Length Info 30 16.792139000 ARP 42
                                                                              Destination
                                        Source
                                        Frame 30: 42 bytes on wire (336 bits), 42 bytes captured (336 bits)
Frame 30: 42 bytes on wire (300 blos), 12 - , on interface 0

Ethernet II, Src: Kye_25:13:65 (00:c0:df:25:13:65), Dst: Hewlett-_c3:78:70 (00:21:5a:c3:78:70)

Destination: Hewlett-_c3:78:70 (00:21:5a:c3:78:70)

Address: Hewlett-_c3:78:70 (00:21:5a:c3:78:70)

.....0. .... = LG bit: Globally unique address (factory default)

address: Individual address
                   ....0 .... .... (unicast)
                                                         .... = IG bit: Individual address
       Source: Kye_25:13:65 (00:c0:df:25:13:65)
              Address: Kye_25:13:65 (00:c0:df:25:13:65)
.... ..0. .... = LG bit: Globally unique
                   address (factory default)
              .... = IG bit: Individual address (unicast)
       Type: ARP (0x0806)
Address Resolution Protocol (reply)
                                         WireShark Exp 2.2 - PC 1
```

```
Destination: Cisco_3a:f6:0f (fc:fb:fb:3a:f6:0f)
    Address: Cisco_3a:f6:0f (fc:fb:fb:3a:f6:0f)
    .... .0. .... = LG bit: Globally unique
                                            address (factory default)
               address (factory default)
.....0 .... = IG bit: Individual address
(unicast)
Source: Cisco_3a:f6:0f (fc:fb:fb:3a:f6:0f)
Address: Cisco_3a:f6:0f (fc:fb:fb:3a:f6:0f)
.....0 .... = LG bit: Globally unique
                                            address (factory default)
                                            . ...0 .... = IG bit: Individual address (unicast)
Type: Loopback (0x9000)
Configuration Test Protocol (loopback)
Data (40 bytes)
0010 \\ \hline{)} \\ \\ \hline{)} \\ \hline{]} \\ \hline{]} \\ \hline{]} \\ \hline{]} \\ \hline{] \\ \hline{]} \\
0020 00 00 00 00 00 00 00 00
                                                                                                                                                                                Destination
                              Time
                                                                                          Source
            Protocol Length Info
10 14.068085000
LOOP 60
                                                                                        Cisco_3a:f6:0f
Reply
                                                                                                                                                                                Cisco_3a:f6:0f
Frame 10: 60 bytes on wire (480 bits), 60 bytes captured (480 bits) on interface 0

Ethernet II, Src: Cisco_3a:f6:0f (fc:fb:fb:3a:f6:0f), Dst: Cisco_3a:f6:0f (fc:fb:fb:3a:f6:0f)
               Destination: Cisco_3a:f6:0f (fc:fb:fb:3a:f6:0f)
Address: Cisco_3a:f6:0f (fc:fb:fb:3a:f6:0f)
.... ..0. .... ... ... = LG bit: Globally unique
                                .....0. ..... : LG bit: Globally unique address (factory default)
.....0 ..... = IG bit: Individual address (unicast)
                Source: Cisco_3a:f6:0f (fc:fb:fb:3a:f6:0f)
    Address: Cisco_3a:f6:0f (fc:fb:fb:3a:f6:0f)
    ....    ....    ....    = LG bit: Glo
                                                                                                                                  .... = LG bit: Globally unique
                                            address (factory default)
                                .... = IG bit: Individual address (unicast)
Type: Loopback (0x9000)
Configuration Test Protocol (loopback)
Data (40 bytes)
0020 00 00 00 00 00 00 00 00
            Time
Protocol Length Info
16 24.075339000 (
                                                                                          Source
                                                                                                                                                                                Destination
                                                                                  Cisco_3a:f6:0f
                                                                                                                                                                                Cisco_3a:f6:0f
                                                                                              Reply
Frame 16: 60 bytes on wire (480 bits), 60 bytes captured (480 bits)
on interface 0
Ethernet II, Src: Cisco_3a:f6:0f (fc:fb:fb:3a:f6:0f), Dst: Cisco_3a:f6:0f (fc:fb:fb:3a:f6:0f)
               Destination: Cisco_3a:f6:Of (fc:fb:fb:3a:f6:Of)
Address: Cisco_3a:f6:Of (fc:fb:fb:3a:f6:Of)
.... .0. ... ... ... = LG bit: Glo
                                                                                                                                                     = LG bit: Globally unique
                                         address (factory default)
                                                                             ... .... .... = IG bit: Individual address
                                                   ...0 .
                                          (unicast)
               Source: Cisco_3a:f6:0f (fc:fb:fb:3a:f6:0f)
Address: Cisco_3a:f6:0f (fc:fb:fb:3a:f6:0f)
.....0..... = LG bit: Globally unique
address (factory default)
                                .... = IG bit: Individual address (unicast)
                Type: Loopback (0x9000)
```

```
Configuration Test Protocol (loopback)
Data (40 bytes)
0020 00 00 00 00 00 00 00 00
   Time SProtocol Length Info 21 34.082754000 COP 60
                                                     Destination
                           Source
                           Cisco_3a:f6:0f
Reply
                                                     Cisco_3a:f6:0f
Frame 21: 60 bytes on wire (480 bits), 60 bytes captured (480 bits) on interface 0

Ethernet II, Src: Cisco_3a:f6:0f (fc:fb:fb:3a:f6:0f), Dst: Cisco_3a:f6:0f (fc:fb:fb:3a:f6:0f)
    Destination: Cisco_3a:f6:0f)

Address: Cisco_3a:f6:0f (fc:fb:fb:3a:f6:0f)

.....0..... = LG bit: Globally unique

address (factory default)

.....0 .... = IG bit: Individual address

(unicast)

Source: Cisco_3a:f6:0f (fa:fb:fb:fa.fc)
     .... = LG bit: Globally unique
             address (factory default)
          .... = IG bit: Individual address (unicast)
     Type: Loopback (0x9000)
Configuration Test Protocol (loopback)
Data (40 bytes)
0020 00 00 00 00 00 00 00
   Time
Protocol Length Info
27 44.090163000
                           Source
                                                     Destination
                         Cisco_3a:f6:0f
                                                     Cisco_3a:f6:0f
                            Reply
Frame 27: 60 bytes on wire (480 bits), 60 bytes captured (480 bits)
on interface 0

Ethernet II, Src: Cisco_3a:f6:0f (fc:fb:fb:3a:f6:0f), Dst: Cisco_3a:f6:0f (fc:fb:fb:3a:f6:0f)
    Destination: Cisco_3a:f6:Of (fc:fb:fb:3a:f6:Of)
Address: Cisco_3a:f6:Of (fc:fb:fb:3a:f6:Of)
.....O. .... .... = LG bit: Globally unique
address (factory default)
               ...0 .... .... ....
                                       .... = IG bit: Individual address
             (unicast)
    Source: Cisco_3a:f6:0f (fc:fb:fb:3a:f6:0f)
Address: Cisco_3a:f6:0f (fc:fb:fb:3a:f6:0f)
.... .0. .... = LG bit: Globally unique
address (factory default)
             . ...0 .... = IG bit: Individual address (unicast)
Type: Loopback (0x9000)
Configuration Test Protocol (loopback)
Data (40 bytes)
0020 00 00 00 00 00 00 00
                                                                   . . . . . . . .
   Time
Protocol Length Info
30 46.564488000
                                                     Destination
                            isco_3a:f6:0f CDP/VTP/DTP/PAgP/UDLD
Device ID: tux-sw5 Port ID: FastEthernet0
                           Cisco_3a:f6:0f
          CDP
                    436
          /13
```

```
Frame 30: 436 bytes on wire (3488 bits), 436 bytes captured (3488
bits) on interface 0
IEEE 802.3 Ethernet
Logical-Link Control
Cisco Discovery Protocol
            Time Protocol Length Info
                                                                                                                                                                           Destination
                                                                                       Source
                                                                                 Cisco_3a:f6:0f
                                                                                                                                                                           Cisco_3a:f6:0f
                                LOOP
                                                             60
                                                                                           Reply
 Frame 34: 60 bytes on wire (480 bits), 60 bytes captured (480 bits)
                on interface 0
Ethernet II, Src: Cisco_3a:f6:0f (fc:fb:fb:3a:f6:0f), Dst: Cisco_3a:f6:0f (fc:fb:fb:3a:f6:0f), Dst: Cisco_3a:f6:0f (fc:fb:fb:3a:f6:0f)

Destination: Cisco_3a:f6:0f (fc:fb:fb:3a:f6:0f)

Address: Cisco_3a:f6:0f (fc:fb:fb:3a:f6:0f)

.....0..... = LG bit: Globally unique

address (factory default)

= TC bit: Individual address
                                          . ...0 .... = IG bit: Individual address (unicast)
               Source: Cisco_3a:f6:0f (fc:fb:fb:3a:f6:0f)
                              . ...0 .... .... = IG bit: Individual address (unicast)
Type: Loopback (0x9000)
Configuration Test Protocol (loopback)
Data (40 bytes)
 0010 \\ \hline{)} \\ \\ \hline{)} \\ \hline{]} \\ \hline{]} \\ \hline{]} \\ \hline{]} \\ \hline{] \\ \hline{]} \\
 0020 00 00 00 00 00 00 00 00
            Time
Protocol Length Info
40 64.096511000
LOOP 60
                                                                                                                                                                           Destination
                                                                                       Cisco_3a:f6:0f
                                                                                                                                                                           Cisco_3a:f6:0f
                                                                                            Reply
Frame 40: 60 bytes on wire (480 bits), 60 bytes captured (480 bits)
                                         . ...0 .... = IG bit: Individual address (unicast)
               Source: Cisco_3a:f6:0f (fc:fb:fb:3a:f6:0f)
Address: Cisco_3a:f6:0f (fc:fb:fb:3a:f6:0f)
.... .0. .... ... ... = LG bit: Globally unique
                                        address (factory default)
                                (unicast)
                                                                                                                            .... = IG bit: Individual address
Type: Loopback (0x9000)
Configuration Test Protocol (loopback)
 Data (40 bytes)
 0020 00 00 00 00 00 00 00
                                                                                                                                                                                                                      . . . . . . . .
            Time Source
Protocol Length Info
46 74.104428000 Cisco_3a:f6:0f
LOOP 60 Reply
                                                                                                                                                                           Destination
                                                                                                                                                                           Cisco_3a:f6:0f
 Frame 46: 60 bytes on wire (480 bits), 60 bytes captured (480 bits)
```

on interface 0

```
address (factory default)
                          ... .... .... = IG bit: Individual address
                 ...0 .
     (unicast)
Source: Cisco_3a:f6:0f (fc:fb:fb:3a:f6:0f)
Address: Cisco_3a:f6:0f (fc:fb:fb:3a:f6:0f)
.....0...... = LG bit: Globally unique
               . ..O. .... .... .... address (factory default)
               . ...0 .... = IG bit: Individual address (unicast)
Type: Loopback (0x9000)
Configuration Test Protocol (loopback)
Data (40 bytes)
0020 00 00 00 00 00 00 00
    Time SProtocol Length Info 52 84.111366000 CODP 60
                              Source
                                                           Destination
                             Cisco_3a:f6:0f
Reply
                                                           Cisco_3a:f6:0f
Frame 52: 60 bytes on wire (480 bits), 60 bytes captured (480 bits)
on interface 0

Ethernet II, Src: Cisco_3a:f6:0f (fc:fb:fb:3a:f6:0f), Dst: Cisco_3a:f6:0f (fc:fb:fb:3a:f6:0f)
     Destination: Cisco_3a:f6:Of (fc:fb:fb:3a:f6:Of)
Address: Cisco_3a:f6:Of (fc:fb:fb:3a:f6:Of)
.... = LG bit: Glo
                                           .... = LG bit: Globally unique
             address (factory default)
           .... = IG bit: Individual address (unicast)
     Source: Cisco_3a:f6:0f (fc:fb:fb:3a:f6:0f)
Address: Cisco_3a:f6:0f (fc:fb:fb:3a:f6:0f)
.... .0. .... = LG bit: Globally unique
address (factory default)
                 ...0 ....
                                            .... = IG bit: Individual address
(unicast)
Type: Loopback (0x9000)
Configuration Test Protocol (loopback)
Data (40 bytes)
0020 00 00 00 00 00 00 00
    Time
Protocol Length Info
58 94.110253000
LOOP 60
                              Source
                                                           Destination
                              Cisco_3a:f6:0f
                                                           Cisco_3a:f6:0f
                               Reply
Frame 58: 60 bytes on wire (480 bits), 60 bytes captured (480 bits)
     on interface 0
Ethernet II, Src: Cisco_3a:f6:0f (fc:fb:fb:3a:f6:0f), Dst: Cisco_3a:f6:0f (fc:fb:fb:3a:f6:0f), Dest: Cisco_3a:f6:0f (fc:fb:fb:3a:f6:0f)

Destination: Cisco_3a:f6:0f (fc:fb:fb:3a:f6:0f)

Address: Cisco_3a:f6:0f (fc:fb:fb:3a:f6:0f)

.....0..... = LG bit: Globally unique

address (factory default)
           .... (unicast)
                                           .... = IG bit: Individual address
     Source: Cisco_3a:f6:0f (fc:fb:fb:3a:f6:0f)
Address: Cisco_3a:f6:0f (fc:fb:fb:3a:f6:0f)
.....0..... = LG bit: Globally unique address (factory default)
```

```
.... ...0 .... = IG bit: Individual address (unicast)
Type: Loopback (0x9000)
Configuration Test Protocol (loopback)
Data (40 bytes)
0020 00 00 00 00 00 00 00
    Time Source
Protocol Length Info
64 104.122712000 Cisco_3a:f6:0f
LOOP 60 Reply
                                                             Destination
                                                             Cisco_3a:f6:0f
Frame 64: 60 bytes on wire (480 bits), 60 bytes captured (480 bits)
on interface 0

Ethernet II, Src: Cisco_3a:f6:0f (fc:fb:fb:3a:f6:0f), Dst: Cisco_3a:f6:0f (fc:fb:fb:3a:f6:0f)
     Destination: Cisco_3a:f6:0f (fc:fb:fb:3a:f6:0f)
Address: Cisco_3a:f6:0f (fc:fb:fb:3a:f6:0f)
.... ..0. .... = LG bit: Globally unique
              address (factory default)
              (unicast)
                                            .... = IG bit: Individual address
     Source: Cisco_3a:f6:0f (fc:fb:fb:3a:f6:0f)
Address: Cisco_3a:f6:0f (fc:fb:fb:3a:f6:0f)
.....0..... = LG bit: Globally unique
address (factory default)
               . ...0 .... = IG bit: Individual address (unicast)
Type: Loopback (0x9000)
Configuration Test Protocol (loopback)
Data (40 bytes)
0020 00 00 00 00 00 00 00
    Time Source
Protocol Length Info
67 106.566798000 Cisco_3a:f6:0f
Device ID: tux
                                                             Destination
                                                            CDP/VTP/DTP/PAgP/UDLD
                                Device ID: tux-sw5 Port ID: FastEthernet0
           /13
Frame 67: 436 bytes on wire (3488 bits), 436 bytes captured (3488
bits) on interface 0
IEEE 802.3 Ethernet
Logical-Link Control
Cisco Discovery Protocol
    Time Source
Protocol Length Info
71 114.116910000 Cisco_3a:f6:0f
LOOP 60 Reply
                                                             Destination
                                                             Cisco_3a:f6:0f
Frame 71: 60 bytes on wire (480 bits), 60 bytes captured (480 bits)
Frame 71: 60 bytes on wife (300 bles), on interface 0

Ethernet II, Src: Cisco_3a:f6:0f (fc:fb:fb:3a:f6:0f), Dst: Cisco_3a:f6:0f (fc:fb:fb:3a:f6:0f)

Destination: Cisco_3a:f6:0f (fc:fb:fb:3a:f6:0f)

Address: Cisco_3a:f6:0f (fc:fb:fb:3a:f6:0f)

.... .0. .... = LG bit: Globally unique
                          ... .... .... = IG bit: Individual address
     (unicast)

Source: Cisco_3a:f6:0f (fc:fb:fb:3a:f6:0f)

Address: Cisco_3a:f6:0f (fc:fb:fb:3a:f6:0f)

.....0.....= LG bit: Globally unique address (factory default)
           .... = IG bit: Individual address (unicast)
```

```
Type: Loopback (0x9000)
Configuration Test Protocol (loopback)
Data (40 bytes)
0020 00 00 00 00 00 00 00
   Time
Protocol Length Info
73 114.646916000 Kye_25:13:65 Br
ARP 42 Who has 172.16.50.255?
                                               Destination
                                               Broadcast
5? Tell 172.16.50.1
Frame 73: 42 bytes on wire (336 bits), 42 bytes captured (336 bits)
on interface 0
Ethernet II, Src: Kye_25:13:65 (00:c0:df:25:13:65), Dst: Broadcast (ff:ff:ff:ff:ff:ff)
    administered address (this is NOT the factory default)
    multicast/broadcast)

Source: Kye_25:13:65 (00:c0:df:25:13:65)
        Address: Kye_25:13:65 (00:c0:df:25:13:65)
                        .... .... = LG bit: Globally unique
          address (factory default)
        .... = IG bit: Individual address (unicast)
    Type: ARP (0x0806)
Address Resolution Protocol (request)
   Time Source
Protocol Length Info
74 115.646419000 Kye_25:13:65 Broadcast
ARP 42 Who has 172.16.50.255? Tell 172.16.50.1
Frame 74: 42 bytes on wire (336 bits), 42 bytes captured (336 bits)
on interface 0
Ethernet II, Src: Kye_25:13:65 (00:c0:df:25:13:65), Dst: Broadcast (ff:ff:ff:ff:ff)
    multicast/broadcast)

Source: Kye_25:13:65 (00:c0:df:25:13:65)
        Address: Kye_25:13:65 (00:c0:df:25:13:65)
.... = LG bit: Globally unique
          address (factory default)
        .... = IG bit: Individual address (unicast)
    Type: ARP (0x0806)
Address Resolution Protocol (request)
   Time Source Destination
Protocol Length Info
76 116.646413000 Kye_25:13:65 Broadcast
ARP 42 Who has 172.16.50.255? Tell 172.16.50.1
Frame 76: 42 bytes on wire (336 bits), 42 bytes captured (336 bits) on interface 0
Ethernet II, Src: Kye_25:13:65 (00:c0:df:25:13:65), Dst: Broadcast (ff:ff:ff:ff:ff)
    .... 1 .... = IG bit: Group address (
multicast/broadcast)
    Source: Kye_25:13:65 (00:c0:df:25:13:65)
```

```
Address: Kye_25:13:65 (00:c0:df:25:13:65)
             address (factory default)
             .... = IG bit: Individual address (unicast)
      Type: ARP (0x0806)
Address Resolution Protocol (request)
     Time Source Pestination
Protocol Length Info
77 117.649465000 Kye_25:13:65 Broadcast
ARP 42 Who has 172.16.50.255? Tell 172.16.50.1
Frame 77: 42 bytes on wire (336 bits), 42 bytes captured (336 bits)
      on interface 0
Ethernet II, Src: Kye_25:13:65 (00:c0:df:25:13:65), Dst: Broadcast (ff:ff:ff:ff)
      Destination: Broadcast (ff:ff:ff:ff:ff)
Address: Broadcast (ff:ff:ff:ff:ff)
..... 1. .... = LG bit: Locally
administered address (this is NOT the factory default)
             .... = IG bit: Group address (
      multicast/broadcast)
Source: Kye_25:13:65 (00:c0:df:25:13:65)
Address: Kye_25:13:65 (00:c0:df:25:13:65)
.....0..... = LG bit: Globally unique address (factory default)
             .... = IG bit: Individual address (unicast)
      Type: ARP (0x0806)
Address Resolution Protocol (request)
     Time Source
Protocol Length Info
79 118.646420000 Kye_25:13:65 Broadcast
ARP 42 Who has 172.16.50.255? Tell 172.16.50.1
Frame 79: 42 bytes on wire (336 bits), 42 bytes captured (336 bits)
Frame 79: 42 bytes on wire (350 bits), 12 5,111 on interface 0

Ethernet II, Src: Kye_25:13:65 (00:c0:df:25:13:65), Dst: Broadcast (ff:ff:ff:ff:ff)

Destination: Broadcast (ff:ff:ff:ff:ff)

Address: Broadcast (ff:ff:ff:ff:ff)

...... = LG bit: Locally

administered address (this is NOT the factory default)

1 ..... = IG bit: Group address (
      multicast/broadcast)
Source: Kye_25:13:65 (00:c0:df:25:13:65)
Address: Kye_25:13:65 (00:c0:df:25:13:65)
             address (factory default)
....0 .... = LG bit: Globally unique
address (factory default)
....0 .... = IG bit: Individual address
(unicast)
      Type: ARP (0x0806)
Address Resolution Protocol (request)
           Time
     Time Source Destination
Protocol Length Info
80 119.646424000 Kye_25:13:65 Broadcast
ARP 42 Who has 172.16.50.255? Tell 172.16.50.1
                                                                      Destination
Frame 80: 42 bytes on wire (336 bits), 42 bytes captured (336 bits)
on interface 0

Ethernet II, Src: Kye_25:13:65 (00:c0:df:25:13:65), Dst: Broadcast (ff:ff:ff:ff:ff:ff)
      Destination: Broadcast (ff:ff:ff:ff:ff:ff)
Address: Broadcast (ff:ff:ff:ff:ff:ff)
.... = LG bit: Locally
                administered address (this is NOT the factory default)
             .... - IG bit: Group address (
      multicast/broadcast)
Source: Kye_25:13:65 (00:c0:df:25:13:65)
            Address: Kye_25:13:65 (00:c0:df:25:13:65)
```

```
....0. .... = LG bit: Globally unique address (factory default)
                                 .... = IG bit: Individual address
                   ...0 .
            (unicast)
     Type: ARP (0x0806)
Address Resolution Protocol (request)
    Time Source
Protocol Length Info
82 120.663915000 Kye_25:13:65 Broadcast
42 Who has 172.16.50.255? Tell 172.16.50.1
Frame 82: 42 bytes on wire (336 bits), 42 bytes captured (336 bits)
on interface 0
Ethernet II, Src: Kye_25:13:65 (00:c0:df:25:13:65), Dst: Broadcast (ff:ff:ff:ff:ff)
      Destination: Broadcast (ff:ff:ff:ff:ff:ff)
Address: Broadcast (ff:ff:ff:ff:ff:ff)
            administered address (this is NOT the factory default)
... . . . . . . . . . . . . = IG bit: Group address (
multicast/broadcast)
     Source: Kye_25:13:65 (00:c0:df:25:13:65)
           Address: Kye_25:13:65 (00:c0:df:25:13:65)
.....0..... = LG bit: Globally unique address (factory default)
.....0.... = IG bit: Individual address
            .... (unicast)
      Type: ARP (0x0806)
Address Resolution Protocol (request)
                                                                 Destination
    Time
Protocol Length Info
83 121.662435000 Kye_25:13:65 Broadcast
ARP 42 Who has 172.16.50.255? Tell 172.16.50.1
           Time
                                 Source
Frame 83: 42 bytes on wire (336 bits), 42 bytes captured (336 bits) on interface 0 \,
Ethernet II, Src: Kye_25:13:65 (00:c0:df:25:13:65), Dst: Broadcast (ff:ff:ff:ff:ff)
     Destination: Broadcast (ff:ff:ff:ff:ff:ff)
Address: Broadcast (ff:ff:ff:ff:ff:ff)
.... ..1. .... .... = LG bit: Locally
administered address (this is NOT the factory default)
            .... 1 .... = IG bit: Group address (
multicast/broadcast)
     Source: Kye_25:13:65 (00:c0:df:25:13:65)
           Address: Kye_25:13:65 (00:c0:df:25:13:65)
... .0. ... = LG bit: Globally unique address (factory default)
                                 .... = IG bit: Individual address
            .... (unicast)
      Type: ARP (0x0806)
Address Resolution Protocol (request)
    Time Source
Protocol Length Info
85 122.662455000 Kye_25:13:65 Broadcast
ARP 42 Who has 172.16.50.255? Tell 172.16.50.1
Frame 85: 42 bytes on wire (336 bits), 42 bytes captured (336 bits)
on interface 0
Ethernet II, Src: Kye_25:13:65 (00:c0:df:25:13:65), Dst: Broadcast (ff:ff:ff:ff:ff:ff)
      Destination: Broadcast (ff:ff:ff:ff:ff)
Address: Broadcast (ff:ff:ff:ff:ff)
                  ..1. .... ....
                                                 .... = LG bit: Locally
            administered address (this is NOT the factory default) .... = IG bit: Group address (
     multicast/broadcast)
Source: Kye_25:13:65 (00:c0:df:25:13:65)
           Address: Kye_25:13:65 (00:c0:df:25:13:65)
```

```
address (factory default)
               . . . 0
                         .... = IG bit: Individual address
         (unicast)
    Type: ARP (0x0806)
Address Resolution Protocol (request)
   Time Source
Protocol Length Info
86 124.124073000 Cisco_3a:f6:0f
LOOP 60 Reply
                                                  Destination
                                                 Cisco_3a:f6:0f
Frame 86: 60 bytes on wire (480 bits), 60 bytes captured (480 bits)
on interface 0

Ethernet II, Src: Cisco_3a:f6:0f (fc:fb:fb:3a:f6:0f), Dst: Cisco_3a:f6:0f (fc:fb:fb:3a:f6:0f)

Destination: Cisco_3a:f6:0f (fc:fb:fb:3a:f6:0f)

Address: Cisco_3a:f6:0f (fc:fb:fb:3a:f6:0f)

.....0...... = LG bit: Globally unique
           address (factory default)
         .... 0 .... = IG bit: Individual address (unicast)
    Source: Cisco_3a:f6:0f (fc:fb:fb:3a:f6:0f)
Address: Cisco_3a:f6:0f (fc:fb:fb:3a:f6:0f)
.....0..... = LG bit: Globally unique
address (factory default)
            . ...0 .... = IG bit: Individual address (unicast)
Type: Loopback (0x9000)
Configuration Test Protocol (loopback)
Data (40 bytes)
0020 00 00 00 00 00 00 00
         Time
                                                  Destination
                         Source
   Protocol Length Info
92 134.153344000 Cisco_3a:f6:0f
LOOP 60 Reply
                                                  Cisco_3a:f6:0f
                           Reply
Frame 92: 60 bytes on wire (480 bits), 60 bytes captured (480 bits)
    Source: Cisco_3a:f6:0f (fc.fb.c)
         ce: Cisco_3a:f6:0f (fc:fb:fb:3a:f6:0f)
Address: Cisco_3a:f6:0f (fc:fb:fb:3a:f6:0f)
.... = LG bit: Glo
                                          = LG bit: Globally unique
            address (factory default)
            . ...0 .... = IG bit: Individual address (unicast)
Type: Loopback (0x9000)
Configuration Test Protocol (loopback)
Data (40 bytes)
0020 00 00 00 00 00 00 00 00
   Time Source
Protocol Length Info
98 144.155551000 Cisco_3a:f6:0f
LOOP 60 Reply
                                                  Destination
                                                  Cisco_3a:f6:0f
Frame 98: 60 bytes on wire (480 bits), 60 bytes captured (480 bits)
    on interface 0
```

```
address (factory default)
                     ... .... .... = IG bit: Individual address
              . . . 0 .
    . ..O. .... .... .... address (factory default)
            . ...0 .... = IG bit: Individual address (unicast)
Type: Loopback (0x9000)
Configuration Test Protocol (loopback)
Data (40 bytes)
0020 00 00 00 00 00 00 00
   Time SProtocol Length Info 104 152.528264000 ICMP 98
                        Source
                                                Destination
                        172.16.50.1
                                                172.16.255.255
                        Echo (ping) request id=0x2d06, seq=1/256,
       ttl=64
Frame 104: 98 bytes on wire (784 bits), 98 bytes captured (784 bits
) on interface 0
Ethernet II, Src: Kye_25:13:65 (00:c0:df:25:13:65), Dst: Broadcast (ff:ff:ff:ff:ff)
    ....1 .... .... = IG bit: Group address (
multicast/broadcast)
    Source: Kye_25:13:65 (00:c0:df:25:13:65)
        Address: Kye_25:13:65 (00:c0:df:25:13:65)
.... .0. .... = LG bit: Globally unique
           ....0. .... .... default)
        .... = IG bit: Individual address (unicast)
    Type: IP (0x0800)
Internet Protocol Version 4, Src: 172.16.50.1 (172.16.50.1), Dst: 172.16.255.255 (172.16.255.255)
Internet Control Message Protocol
   Time Source
Protocol Length Info
105 153.536569000 172.16.50.1
TCMP 98 Echo (ping) request
                                                Destination
                                                172.16.255.255
                                               id=0x2d06, seq=2/512,
Frame 105: 98 bytes on wire (784 bits), 98 bytes captured (784 bits
) on interface 0
Ethernet II, Src: Kye_25:13:65 (00:c0:df:25:13:65), Dst: Broadcast (ff:ff:ff:ff:ff:ff)
    ff:ff:ff:ff:t1:11)
Destination: Broadcast (ff:ff:ff:ff:ff:ff)
   Address: Broadcast (ff:ff:ff:ff:ff:ff)
   1. .... = LG bit: Locally
            administered address (this is NOT the factory default)
    .... = IG bit: Group address (multicast/broadcast)

Source: Kye_25:13:65 (00:c0:df:25:13:65)
        Address: Kye_25:13:65 (00:c0:df:25:13:65)
          ..... = LG bit: Globally unique address (factory default)
        .... = IG bit: Individual address (unicast)
    Type: IP (0x0800)
```

```
Internet Protocol Version 4, Src: 172.16.50.1 (172.16.50.1), Dst: 172.16.255.255 (172.16.255.255) Internet Control Message Protocol
    Time Source
Protocol Length Info
106 154.162958000 Cisco_3a:f6:0f
LOOP 60 Reply
                                                         Destination
                                                         Cisco_3a:f6:0f
                             Reply
Frame 106: 60 bytes on wire (480 bits), 60 bytes captured (480 bits) on interface 0

Ethernet II, Src: Cisco_3a:f6:0f (fc:fb:fb:3a:f6:0f), Dst: Cisco_3a:f6:0f (fc:fb:fb:3a:f6:0f)
     Destination: Cisco_3a:f6:0f (fc:fb:fb:3a:f6:0f)
Address: Cisco_3a:f6:0f (fc:fb:fb:3a:f6:0f)
... .0. ... = LG bit: Globally unique
             address (factory default)
              . ...0 .... = IG bit: Individual address (unicast)
     Source: Cisco_3a:f6:0f (fc:fb:fb:3a:f6:0f)
          Address: Cisco_3a:f6:0f (fc:fb:fb:3a:f6:0f)
.... .0. .... = LG bit: Globally unique
              address (factory default)
          .... (unicast)
                                   .... = IG bit: Individual address
Type: Loopback (0x9000)
Configuration Test Protocol (loopback)
Data (40 bytes)
0020 00 00 00 00 00 00 00 00
    Time
Protocol Length Info
108 154.544694000
                                                         Destination
                             Source
                             172.16.50.1
                                                          172.16.255.255
         ICMP
                    98
                             Echo (ping) request id=0x2d06, seq=3/768,
         tt1=64
Frame 108: 98 bytes on wire (784 bits), 98 bytes captured (784 bits
          .... ...1 ....
                             \dots = IG bit: Group address (
     multicast/broadcast)
Source: Kye_25:13:65 (00:c0:df:25:13:65)
          Address: Kye_25:13:65 (00:c0:df:25:13:65)
.... ..0. .... = LG bit: Globally unique
          address (factory default)
.....0 .... = IG bit: Individual address
(unicast)
     Type: IP (0x0800)
Internet Protocol Version 4, Src: 172.16.50.1 (172.16.50.1), Dst: 172.16.255.255 (172.16.255.255)
Internet Control Message Protocol
    Time Source
Protocol Length Info
109 155.552592000 172.16.50.1
                                                         Destination
                                                          172.16.255.255
         ICMP
                             Echo (ping) request id=0x2d06, seq=4/1024,
         ttl=64
Frame 109: 98 bytes on wire (784 bits), 98 bytes captured (784 bits
) on interface 0
Ethernet II, Src: Kye_25:13:65 (00:c0:df:25:13:65), Dst: Broadcast (ff:ff:ff:ff:ff)
     Destination: Broadcast (ff:ff:ff:ff:ff:ff)
Address: Broadcast (ff:ff:ff:ff:ff:ff)
```

```
administered address (this is NOT the factory default)
                                        .... = LG bit: Locally
                                       .... = IG bit: Group address (
    multicast/broadcast)

Source: Kye_25:13:65 (00:c0:df:25:13:65)

Address: Kye_25:13:65 (00:c0:df:25:13:65)

... .0. ... ... = LG bit: Globally unique address (factory default)

= TG bit: Individual address
          .... = IG bit: Individual address (unicast)
     Type: IP (0x0800)
Time Source
Protocol Length Info
111 156.560608000 172.16.50.1
                                                      Destination
                                                      172.16.255.255
        ICMP
                  98
                           Echo (ping) request id=0x2d06, seq=5/1280,
         ttl=64
Frame 111: 98 bytes on wire (784 bits), 98 bytes captured (784 bits
) on interface 0
Ethernet II, Src: Kye_25:13:65 (00:c0:df:25:13:65), Dst: Broadcast (ff:ff:ff:ff:ff)
     Destination: Broadcast (ff:ff:ff:ff:ff:ff)
Address: Broadcast (ff:ff:ff:ff:ff:ff)
                                        .... = LG bit: Locally
             administered address (this is NOT the factory default)
                                       .... = IG bit: Group address (
          .... ...1 ...
    multicast/broadcast)
Source: Kye_25:13:65 (00:c0:df:25:13:65)
         Address: Kye_25:13:65 (00:c0:df:25:13:65)
.... ..0. .... = LG bit: Globally unique
            address (factory default)
          .... = IG bit: Individual address (unicast)
     Type: IP (0x0800)
Internet Protocol Version 4, Src: 172.16.50.1 (172.16.50.1), Dst: 172.16.255.255 (172.16.255.255)
Internet Control Message Protocol
    Time Source
Protocol Length Info
112 157.568562000 172.16.50.1
ICMP 98 Echo (ping)
                                                      Destination
                                                      172.16.255.255
                            Echo (ping) request id=0x2d06, seq=6/1536,
        ttl=64
Frame 112: 98 bytes on wire (784 bits), 98 bytes captured (784 bits
) on interface 0
Ethernet II, Src: Kye_25:13:65 (00:c0:df:25:13:65), Dst: Broadcast (ff:ff:ff:ff:ff:ff)
     multicast/broadcast)
     Source: Kye_25:13:65 (00:c0:df:25:13:65)
         Address: Kye_25:13:65 (00:c0:df:25:13:65)
... .0. ... = LG bit: Globally unique address (factory default)
          .... = IG bit: Individual address (unicast)
     Type: IP (0x0800)
No. Time Source
Protocol Length Info
116 164.170324000 Cisco_3a:f6:0f
LOOP 60 Reply
                                                      Destination
                                                     Cisco_3a:f6:0f
```

```
Frame 116: 60 bytes on wire (480 bits), 60 bytes captured (480 bits
) on interface 0
Ethernet II, Src: Cisco_3a:f6:0f (fc:fb:fb:3a:f6:0f), Dst: Cisco_3a:f6:0f (fc:fb:fb:3a:f6:0f)
    Destination: Cisco_3a:f6:Of (fc:fb:fb:3a:f6:Of)
Address: Cisco_3a:f6:Of (fc:fb:fb:3a:f6:Of)
.... ..O. .... ... ... = LG bit: Globally unique
           address (factory default)
        .... = IG bit: Individual address (unicast)
    address (factory default)
(unicast)
Type: Loopback (0x9000)
Configuration Test Protocol (loopback)
                                  .... = IG bit: Individual address
Data (40 bytes)
0020 00 00 00 00 00 00 00
        Time
                        Source
                                              Destination
   Protocol Length Info
    119 166.569121000 Cisco_3a:f6:Of CDP/VTP/DTP/PAgP/UDLD CDP 436 Device ID: tux-sw5 Port ID: FastEthernet0
       /13
Frame 119: 436 bytes on wire (3488 bits), 436 bytes captured (3488
bits) on interface 0 IEEE 802.3 Ethernet Logical-Link Control
Cisco Discovery Protocol
   Time Source
Protocol Length Info
123 174.169314000 Cisco_3a:f6:0f
LOOP 60 Reply
                                              Destination
                                              Cisco_3a:f6:0f
Frame 123: 60 bytes on wire (480 bits), 60 bytes captured (480 bits
) on interface 0
Ethernet II, Src: Cisco_3a:f6:0f (fc:fb:fb:3a:f6:0f), Dst: Cisco_3a
   :f6:0f (fc:fb:fb:3a:f6:0f)
    Destination: Cisco_3a:f6:Of (fc:fb:fb:3a:f6:Of)
Address: Cisco_3a:f6:Of (fc:fb:fb:3a:f6:Of)
.... ..O. .... .... = LG bit: Globally unique
           address (factory default)
        .... = IG bit: Individual address (unicast)
    address (factory default)
        .... (unicast)
                                  .... = IG bit: Individual address
    Type: Loopback (0x9000)
Configuration Test Protocol (loopback)
Data (40 bytes)
0020 00 00 00 00 00 00 00 00
   Time
Protocol Length Info
129 184.176691000
LOOP 60
                                              Destination
                        Source
                        Cisco_3a:f6:0f
                                              Cisco_3a:f6:0f
                        Reply
```

```
Frame 129: 60 bytes on wire (480 bits), 60 bytes captured (480 bits
address (factory default)
              . . . . 0 . . . . . . . . . . . = IG bit: Individual address (unicast)
     address (factory default)
              . ...0 .... = IG bit: Individual address (unicast)
Type: Loopback (0x9000)
Configuration Test Protocol (loopback)
Data (40 bytes)
0020 00 00 00 00 00 00 00 00
    Time Protocol Length Info 135 194.184066000 (LOOP 60
                                                         Destination
                             Cisco_3a:f6:0f
                                                         Cisco_3a:f6:0f
                             Reply
Frame 135: 60 bytes on wire (480 bits), 60 bytes captured (480 bits
Frame 135: 60 bytes on wife (100 510),
) on interface 0
Ethernet II, Src: Cisco_3a:f6:0f (fc:fb:fb:3a:f6:0f), Dst: Cisco_3a:f6:0f (fc:fb:fb:3a:f6:0f)
Destination: Cisco_3a:f6:0f (fc:fb:fb:3a:f6:0f)
Address: Cisco_3a:f6:0f (fc:fb:fb:3a:f6:0f)
........ = LG bit: Globally unique
              address (factory default)
     .... 0 .... = IG bit: Individual address (unicast)

Source: Cisco_3a:f6:0f (fc:fb:fb:3a:f6:0f)
Address: Cisco_3a:f6:0f (fc:fb:fb:3a:f6:0f)
.... 0 .... EG bit: Globally unique address (factory default)
              . ...0 .... = IG bit: Individual address (unicast)
Type: Loopback (0x9000)
Configuration Test Protocol (loopback)
Data (40 bytes)
0020 00 00 00 00 00 00 00
    Time SProtocol Length Info 141 204.191452000 CLOOP 60
                             Source
                                                         Destination
                            Cisco_3a:f6:0f
Reply
                                                         Cisco_3a:f6:0f
Frame 141: 60 bytes on wire (480 bits), 60 bytes captured (480 bits
    ) on interface 0
Ethernet II, Src: Cisco_3a:f6:0f (fc:fb:fb:3a:f6:0f), Dst: Cisco_3a:f6:0f (fc:fb:fb:3a:f6:0f)

Destination: Cisco_3a:f6:0f (fc:fb:fb:3a:f6:0f)

Address: Cisco_3a:f6:0f (fc:fb:fb:3a:f6:0f)

.....0.....= LG bit: Globally unique
              address (factory default)
     .... = IG bit: Individual address (unicast)
Source: Cisco_3a:f6:0f (fc:fb:fb:3a:f6:0f)
Address: Cisco_3a:f6:0f (fc:fb:fb:3a:f6:0f)
```

```
. ..0. .... = LG bit: Globally unique address (factory default)
                                                  . . 0
                                                                                                              .... = IG bit: Individual address
                            (unicast)
Type: Loopback (0x9000)
Configuration Test Protocol (loopback)
 Data (40 bytes)
 0020 00 00 00 00 00 00 00 00
           Time Protocol Length Info 147 214.190432000 CLOOP 60
                                                                                                                                                         Destination
                                                                              Source
                                                                              Cisco_3a:f6:0f
                                                                                                                                                         Cisco_3a:f6:0f
                                                                              Reply
 Frame 147: 60 bytes on wire (480 bits), 60 bytes captured (480 bits
) on interface 0
Ethernet II, Src: Cisco_3a:f6:0f (fc:fb:fb:3a:f6:0f), Dst: Cisco_3a:f6:0f (fc:fb:fb:3a:f6:0f)
             Destination: Cisco_3a:f6:0f (fc:fb:fb:3a:f6:0f)
Address: Cisco_3a:f6:0f (fc:fb:fb:3a:f6:0f)
.....0..... = LG bit: Globally unique
address (factory default)
                                    ....0 .... = IG bit: Individual address (unicast)
              address (factory default)
                                      ....0 .... = IG bit: Individual address (unicast)
Type: Loopback (0x9000)
Configuration Test Protocol (loopback)
 Data (40 bytes)
 0010 \\ \hline{)} \\ \\ \hline{)} \\ \hline{]} \\ \hline{]} \\ \hline{]} \\ \hline{]} \\ \hline{] \\ \hline{]} \\
 0020 00 00 00 00 00 00 00
          Time
Protocol Length Info
153 224.197817000 Cisco_3a:f6:0f
INOP 60 Reply
                                                                                                                                                         Destination
                                                                                                                                                         Cisco_3a:f6:0f
 Frame 153: 60 bytes on wire (480 bits), 60 bytes captured (480 bits
address (factory default)
                                    ....0 .... = IG bit: Individual address (unicast)
             Source: Cisco_3a:f6:0f (fc:fb:fb:3a:f6:0f)
Address: Cisco_3a:f6:0f (fc:fb:fb:3a:f6:0f)
.... .0. ... ... = LG bit: Globally unique
address (factory default)
                                            ...0 .... = IG bit: Individual address
                                       (unicast)
Type: Loopback (0x9000)
Configuration Test Protocol (loopback)
 Data (40 bytes)
 0020 00 00 00 00 00 00 00
```

```
Time Source
Protocol Length Info
155 226.571460000 Cisco_3a:f6:0f
                                                           Destination
                                                           CDP/VTP/DTP/PAgP/UDLD
                             Device ID: tux-sw5 Port ID: FastEthernet0
         CDP
                     436
         /13
Frame 155: 436 bytes on wire (3488 bits), 436 bytes captured (3488
bits) on interface 0 IEEE 802.3 Ethernet Logical-Link Control
Cisco Discovery Protocol
    Time SP Protocol Length Info 158 229.890784000 F
                                                           Destination
                              Kye_25:13:65 Broadcast Who has 172.16.50.255? Tell 172.16.50.1
         ARP
                     42
Frame 158: 42 bytes on wire (336 bits), 42 bytes captured (336 bits
) on interface 0
Ethernet II, Src: Kye_25:13:65 (00:c0:df:25:13:65), Dst: Broadcast (ff:ff:ff:ff:ff)
     Destination: Broadcast (ff:ff:ff:ff:ff:ff)
Address: Broadcast (ff:ff:ff:ff:ff:ff)
.... .1. ... ... ... ... = LG bit
     address (factory default)
          .... = IG bit: Individual address (unicast)
     Type: ARP (0x0806)
Address Resolution Protocol (request)
    Time Source
Protocol Length Info
160 230.890469000 Kye_25:13:65 Broadcast
ARP 42 Who has 172.16.50.255? Tell 172.16.50.1
Frame 160: 42 bytes on wire (336 bits), 42 bytes captured (336 bits) on interface 0
Ethernet II, Src: Kye_25:13:65 (00:c0:df:25:13:65), Dst: Broadcast (ff:ff:ff:ff:ff:ff)
     ...1 .... = IG bit: Group address (
     multicast/broadcast)
Source: Kye_25:13:65 (00:c0:df:25:13:65)
          Address: Kye_25:13:65 (00:c0:df:25:13:65)
.... .0. .... = LG bit: Globally unique
             address (factory default)
          .... = IG bit: Individual address (unicast)
     Type: ARP (0x0806)
Address Resolution Protocol (request)
    Time
Protocol Length Info
161 231.890410000 F
                                                           Destination
                              Source
                              Kye_25:13:65
Who has 172.16.50.255? Tell 172.16.50.1
Frame 161: 42 bytes on wire (336 bits), 42 bytes captured (336 bits ) on interface 0 Ethernet II, Src: Kye_25:13:65 (00:c0:df:25:13:65), Dst: Broadcast
    (ff:ff:ff:ff:ff)
     Destination: Broadcast (ff:ff:ff:ff:ff)
Address: Broadcast (ff:ff:ff:ff:ff)
.... ..1. .... .... = LG bit: Locally
              administered address (this is NOT the factory default)
```

```
\dots = IG bit: Group address (
         .... ...1 ....
    multicast/broadcast)
Source: Kye_25:13:65 (00:c0:df:25:13:65)
         Address: Kye_25:13:65 (00:c0:df:25:13:65)
.... = LG bit: Globally unique
           address (factory default)
         .... = IG bit: Individual address (unicast)
    Type: ARP = (0x0806)
Address Resolution Protocol (request)
   Time Source
Protocol Length Info
163 232.890838000 Kye_25:13:65 Broadcast
ARP 42 Who has 172.16.50.255? Tell 172.16.50.1
Frame 163: 42 bytes on wire (336 bits), 42 bytes captured (336 bits
) on interface 0
Ethernet II, Src: Kye_25:13:65 (00:c0:df:25:13:65), Dst: Broadcast (ff:ff:ff:ff:ff)
    Destination: Broadcast (ff:ff:ff:ff:ff)
Address: Broadcast (ff:ff:ff:ff:ff:ff)
.... = LG bit: Locally
    Source: Kye_25:13:65 (00:c0:df:25:13:65)
Address: Kye_25:13:65 (00:c0:df:25:13:65)
....0.....= I.G bit: Group address
             administered address (this is NOT the factory default)
            ....0. .... .... = LG bit: Globally unique address (factory default)
         .... = IG bit: Individual address (unicast)
    Type: ARP (0x0806)
Address Resolution Protocol (request)
   Time Source
Protocol Length Info
164 233.890421000 Kye_25:13:65 Broadcast
ARP 42 Who has 172.16.50.255? Tell 172.16.50.1
Frame 164: 42 bytes on wire (336 bits), 42 bytes captured (336 bits
) on interface 0
Ethernet II, Src: Kye_25:13:65 (00:c0:df:25:13:65), Dst: Broadcast (ff:ff:ff:ff)
    administered address (this is NOT the factory default)
    Address: Kye_25:13:65 (00:c0:df:25:13:65)
.... ..0. .... = LG bit: Globally unique address (factory default)
         .... = IG bit: Individual address (unicast)
    Type: ARP (0x0806)
Address Resolution Protocol (request)
   Time Source
Protocol Length Info
165 234.205177000 Cisco_3a:f6:0f
LOOP 60 Reply
                                                   Destination
                                                   Cisco_3a:f6:0f
Frame 165: 60 bytes on wire (480 bits), 60 bytes captured (480 bits
address (factory default)
```

```
.....0 .... = IG bit: Individual address (unicast)

Source: Cisco_3a:f6:0f (fc:fb:fb:3a:f6:0f)
Address: Cisco_3a:f6:0f (fc:fb:fb:3a:f6:0f)
.....0 .... = LG bit: Globally unique
             address (factory default)
(unicast)
Type: Loopback (0x9000)
Configuration Test Protocol (loopback)
                                  .... = IG bit: Individual address
Data (40 bytes)
0020 00 00 00 00 00 00 00
    Time
Protocol Length Info
167 234.890413000 H
ARP 42
                                                        Destination
                             Source
                             Kye_25:13:65 Broadcast Who has 172.16.50.255? Tell 172.16.50.1
Frame 167: 42 bytes on wire (336 bits), 42 bytes captured (336 bits) on interface 0

Ethernet II, Src: Kye_25:13:65 (00:c0:df:25:13:65), Dst: Broadcast (ff:ff:ff:ff:ff)
     multicast/broadcast)
Source: Kye_25:13:65 (00:c0:df:25:13:65)
          Address: Kye_25:13:65 (00:c0:df:25:13:65)
.... .0. .... = LG bit: Globally unique address (factory default)
          .... = IG bit: Individual address (unicast)
     Type: ARP (0x0806)
Address Resolution Protocol (request)
    Time SProtocol Length Info 168 235.890630000 F
                            Source
                                                        Destination
                            Kye_25:13:65 Broadcast Who has 172.16.50.255? Tell 172.16.50.1
Frame 168: 42 bytes on wire (336 bits), 42 bytes captured (336 bits
) on interface 0 Ethernet II, Src: Kye_25:13:65 (00:c0:df:25:13:65), Dst: Broadcast
    (ff:ff:ff:ff:ff)
    Destination: Broadcast (ff:ff:ff:ff:ff)
Address: Broadcast (ff:ff:ff:ff:ff)
.... .1. .... .... = LG bit: Locally
administered address (this is NOT the factory default)
    .... = IG bit: Individual address (unicast)
     Type: ARP (0x0806)
Address Resolution Protocol (request)
   Time Source
Protocol Length Info
170 236.890409000 Kye_25:13:65 Broadcast
ARP 42 Who has 172.16.50.255? Tell 172.16.50.1
Frame 170: 42 bytes on wire (336 bits), 42 bytes captured (336 bits
    ) on interface 0
```

```
Ethernet II, Src: Kye_25:13:65 (00:c0:df:25:13:65), Dst: Broadcast (ff:ff:ff:ff:ff)
    administered address (this is NOT the factory default)
    .... = IG bit: Group address (
multicast/broadcast)
Source: Kye_25:13:65 (00:c0:df:25:13:65)
         Address: Kye_25:13:65 (00:c0:df:25:13:65)
.....0..... = LG bit: Globally unique
address (factory default)
.....0 .... = IG bit: Individual address
(unique address)
    Type: ARP (0x0806)
Address Resolution Protocol (request)
   Time Source
Protocol Length Info
171 237.890410000 Kye_25:13:65 Broadcast
APP 42 Who has 172.16.50.255? Tell 172.16.50.1
Frame 171: 42 bytes on wire (336 bits), 42 bytes captured (336 bits
) on interface 0
Ethernet II, Src: Kye_25:13:65 (00:c0:df:25:13:65), Dst: Broadcast (ff:ff:ff:ff:ff)
    administered address (this is NOT the factory default)
....1 .... = IG bit: Group address (
multicast/broadcast)
    Source: Kye_25:13:65 (00:c0:df:25:13:65)
         Address: Kye_25:13:65 (00:c0:df:25:13:65)
.... .0. ... = LG bit: Globally unique address (factory default)
         .... (unicast)
                          .... = IG bit: Individual address
    Type: ARP (0x0806)
Address Resolution Protocol (request)
   Time Source
Protocol Length Info
175 244.212718000 Cisco_3a:f6:0f
LOOP 60 Reply
                                                  Destination
                                                  Cisco_3a:f6:0f
Frame 175: 60 bytes on wire (480 bits), 60 bytes captured (480 bits
.... = IG bit: Individual address (unicast)
    Source: Cisco_3a:f6:0f (fc:fb:fb:3a:f6:0f)
         Address: Cisco_3a:f6:Of (fc:fb:fb:3a:f6:Of)
.....O..... = LG bit: Globally unique
address (factory default)
         .... o .... = IG bit: Individual address (unicast)
Type: Loopback (0x9000)
Configuration Test Protocol (loopback)
Data (40 bytes)
0020 00 00 00 00 00 00 00
No. Time
Protocol Length Info
                                                  Destination
                          Source
```

```
181 254.211834000 Cisco_3a:f6:0f
                                                    Cisco_3a:f6:0f
         LOOP
                             Reply
Frame 181: 60 bytes on wire (480 bits), 60 bytes captured (480 bits
    ) on interface 0
address (factory default)
             ....0 .... .... = IG bit: Individual address (unicast)
     Source: Cisco_3a:f6:0f (fc:fb:fb:3a:f6:0f)
Address: Cisco_3a:f6:0f (fc:fb:fb:3a:f6:0f)
.....0..... = LG bit: Globally unique
address (factory default)
.... 0 .... = IG bit: Individual address (unicast)

Type: Loopback (0x9000)

Configuration Test Protocol (loopback)
Data (40 bytes)
0020 00 00 00 00 00 00 00 00
    Time Source
Protocol Length Info
187 264.218953000 Cisco_3a:f6:0f
LOOP 60 Reply
                                                          Destination
                                                          Cisco_3a:f6:0f
                             Reply
Frame 187: 60 bytes on wire (480 bits), 60 bytes captured (480 bits
Frame 187: 60 bytes on wife (160 bill),
) on interface 0
Ethernet II, Src: Cisco_3a:f6:0f (fc:fb:fb:3a:f6:0f), Dst: Cisco_3a:f6:0f (fc:fb:fb:3a:f6:0f)
Destination: Cisco_3a:f6:0f (fc:fb:fb:3a:f6:0f)
Address: Cisco_3a:f6:0f (fc:fb:fb:3a:f6:0f)
........ = LG bit: Globally unique
             Source: Cisco_3a:f6:0f (fc:fb:fb:3a:f6:0f)
Address: Cisco_3a:f6:0f (fc:fb:fb:3a:f6:0f)
.... ..0. .... .... .... = LG bit: Globally unique
              address (factory default)
                ...0 .... = IG bit: Individual address
              (unicast)
Type: Loopback (0x9000)
Configuration Test Protocol (loopback)
Data (40 bytes)
0020 00 00 00 00 00 00 00
    Time Source
Protocol Length Info
193 274.231465000 Cisco_3a:f6:0f
LOOP 60 Reply
                                                          Destination
                                                          Cisco_3a:f6:0f
Frame 193: 60 bytes on wire (480 bits), 60 bytes captured (480 bits
    ) on interface 0
Ethernet II, Src: Cisco_3a:f6:0f (fc:fb:fb:3a:f6:0f), Dst: Cisco_3a:f6:0f (fc:fb:fb:3a:f6:0f)

Destination: Cisco_3a:f6:0f (fc:fb:fb:3a:f6:0f)

Address: Cisco_3a:f6:0f (fc:fb:fb:3a:f6:0f)

.....0.....= LG bit: Globally unique

address (factory default)

.....0.....= IG bit: Individual address
                             \dots = IG bit: Individual address
          .... (unicast)
     Source: Cisco_3a:f6:0f (fc:fb:fb:3a:f6:0f)
```

```
Address: Cisco_3a:f6:0f (fc:fb:fb:3a:f6:0f)
            . ..0. .... : .... = LG bit: Globally unique address (factory default)
            . ...0 .... = IG bit: Individual address (unicast)
Type: Loopback (0x9000)
Configuration Test Protocol (loopback)
Data (40 bytes)
0020 00 00 00 00 00 00 00 00
   Time
Protocol Length Info
199 284.238784000
LOOP 60
                                                Destination
                        Cisco_3a:f6:0f
                                                Cisco_3a:f6:0f
                         Reply
Frame 199: 60 bytes on wire (480 bits), 60 bytes captured (480 bits
) on interface 0
Ethernet II, Src: Cisco_3a:f6:0f (fc:fb:fb:3a:f6:0f), Dst: Cisco_3a:f6:0f (fc:fb:fb:3a:f6:0f)
Destination: Cisco_3a:f6:0f (fc:fb:fb:3a:f6:0f)
Address: Cisco_3a:f6:0f (fc:fb:fb:3a:f6:0f)
.....0.....= LG bit: Globally unique
            address (factory default)
                     \dots = IG bit: Individual address
              ...0 .
         (unicast)
    Source: Cisco_3a:f6:0f (fc:fb:fb:3a:f6:0f)
Address: Cisco_3a:f6:0f (fc:fb:fb:3a:f6:0f)
.... .0. .... ... ... = LG bit: Globally unique
           address (factory default)
            . ...0 .... = IG bit: Individual address (unicast)
Type: Loopback (0x9000)
Configuration Test Protocol (loopback)
Data (40 bytes)
0020 00 00 00 00 00 00 00
   Time Source
Protocol Length Info
201 286.573925000 Cisco_3a:f6:0f
                                                Destination
                                                CDP/VTP/DTP/PAgP/UDLD
                        Device ID: tux-sw5
                                             Port ID: FastEthernet0
                 436
        /13
Frame 201: 436 bytes on wire (3488 bits), 436 bytes captured (3488
bits) on interface 0
IEEE 802.3 Ethernet
Logical-Link Control
Cisco Discovery Protocol
   Time Source
Protocol Length Info
206 294.232819000 Cisco_3a:f6:0f
LOOP 60 Reply
                                                Destination
                                                Cisco_3a:f6:0f
                        Reply
Frame 206: 60 bytes on wire (480 bits), 60 bytes captured (480 bits
   ) on interface 0
address (factory default)
```

```
. ..0. .... = LG bit: Globally unique address (factory default)
                                                  . . 0
                                                                                                              .... = IG bit: Individual address
                            (unicast)
Type: Loopback (0x9000)
Configuration Test Protocol (loopback)
 Data (40 bytes)
 0020 00 00 00 00 00 00 00 00
           Time Protocol Length Info 212 304.240092000 CLOOP 60
                                                                                                                                                        Destination
                                                                              Source
                                                                              Cisco_3a:f6:0f
                                                                                                                                                        Cisco_3a:f6:0f
                                                                             Reply
 Frame 212: 60 bytes on wire (480 bits), 60 bytes captured (480 bits
) on interface 0
Ethernet II, Src: Cisco_3a:f6:0f (fc:fb:fb:3a:f6:0f), Dst: Cisco_3a:f6:0f (fc:fb:fb:3a:f6:0f)
             Destination: Cisco_3a:f6:0f (fc:fb:fb:3a:f6:0f)
Address: Cisco_3a:f6:0f (fc:fb:fb:3a:f6:0f)
.....0..... = LG bit: Globally unique
address (factory default)
                            .... = IG bit: Individual address (unicast)
              address (factory default)
                                      ....0 .... = IG bit: Individual address (unicast)
Type: Loopback (0x9000)
Configuration Test Protocol (loopback)
 Data (40 bytes)
 0010 \\ \hline{)} \\ \\ \hline{)} \\ \hline{]} \\ \hline{]} \\ \hline{]} \\ \hline{]} \\ \hline{] \\ \hline{]} \\
 0020 00 00 00 00 00 00 00
          Time
Protocol Length Info
218 314.239427000 Cisco_3a:f6:0f
INOP 60 Reply
                                                                                                                                                        Destination
                                                                                                                                                        Cisco_3a:f6:0f
 Frame 218: 60 bytes on wire (480 bits), 60 bytes captured (480 bits
address (factory default)
                                    ....0 .... = IG bit: Individual address (unicast)
             Source: Cisco_3a:f6:0f (fc:fb:fb:3a:f6:0f)
Address: Cisco_3a:f6:0f (fc:fb:fb:3a:f6:0f)
.... .0. ... ... = LG bit: Globally unique
address (factory default)
                                            ...0 .... = IG bit: Individual address
                                       (unicast)
Type: Loopback (0x9000)
Configuration Test Protocol (loopback)
 Data (40 bytes)
 0020 00 00 00 00 00 00 00
```

```
Time Source
Protocol Length Info
224 324.246462000 Cisco_3a:f6:0f
LOOP 60 Reply
                                                 Destination
                                                 Cisco_3a:f6:0f
                         Reply
Frame 224: 60 bytes on wire (480 bits), 60 bytes captured (480 bits
) on interface 0
Ethernet II, Src: Cisco_3a:f6:0f (fc:fb:fb:3a:f6:0f), Dst: Cisco_3a:f6:0f (fc:fb:fb:3a:f6:0f)
    Destination: Cisco_3a:f6:0f (fc:fb:fb:3a:f6:0f)
Address: Cisco_3a:f6:0f (fc:fb:fb:3a:f6:0f)
.... = LG bit: Globally unique
           address (factory default)
              ...0 .... = IG bit: Individual address
            (unicast)
    Source: Cisco_3a:f6:0f (fc:fb:fb:3a:f6:0f)
Address: Cisco_3a:f6:0f (fc:fb:fb:3a:f6:0f)
.....0..... = LG bit: Globally unique
address (factory default)
         .... = IG bit: Individual address (unicast)
Type: Loopback (0x9000)
Configuration Test Protocol (loopback)
Data (40 bytes)
00 00 00 00 00 00 00
   Time Protocol Length Info 230 334.253900000 CLOOP 60
                                                 Destination
                         Cisco_3a:f6:0f
                                                 Cisco_3a:f6:0f
                         Reply
Frame 230: 60 bytes on wire (480 bits), 60 bytes captured (480 bits
address (factory default)
    address (factory default)
.....0 .... = IG bit: Individual address
(unicast)
Source: Cisco_3a:f6:0f (fc:fb:fb:3a:f6:0f)
Address: Cisco_3a:f6:0f (fc:fb:fb:3a:f6:0f)
.....0 .... = LG bit: Globally unique
           address (factory default)
            . ...0 .... = IG bit: Individual address (unicast)
Type: Loopback (0x9000)
Configuration Test Protocol (loopback)
Data (40 bytes)
0020 00 00 00 00 00 00 00
   Time Source
Protocol Length Info
236 344.261214000 Cisco_3a:f6:0f
LOOP 60 Reply
                                                 Destination
                                                 Cisco 3a:f6:0f
Frame 236: 60 bytes on wire (480 bits), 60 bytes captured (480 bits
address (factory default)
```

```
.....0 .... = IG bit: Individual address (unicast)

Source: Cisco_3a:f6:0f (fc:fb:fb:3a:f6:0f)
Address: Cisco_3a:f6:0f (fc:fb:fb:3a:f6:0f)
.....0 .... = LG bit: Globally unique
          address (factory default)
(unicast)
Type: Loopback (0x9000)
Configuration Test Protocol (loopback)
                            .... = IG bit: Individual address
Data (40 bytes)
0020 00 00 00 00 00 00 00
   Time Source
Protocol Length Info
238 346.576187000 Cisco_3a:f6:0f CDP/VTP/DTP/PAgP/UDLD
CDP 436 Device ID: tux-sw5 Port ID: FastEthernet0
Frame 238: 436 bytes on wire (3488 bits), 436 bytes captured (3488
bits) on interface 0 IEEE 802.3 Ethernet Logical-Link Control
Cisco Discovery Protocol
   Time Source
Protocol Length Info
243 354.265643000 Cisco_3a:f6:0f
LOOP 60 Reply
                                              Destination
                                              Cisco_3a:f6:0f
Frame 243: 60 bytes on wire (480 bits), 60 bytes captured (480 bits
) on interface 0
Ethernet II, Src: Cisco_3a:f6:0f (fc:fb:fb:3a:f6:0f), Dst: Cisco_3a
   address (factory default)
    address (factory default)
        .... (unicast)
                                 .... = IG bit: Individual address
Type: Loopback (0x9000)
Configuration Test Protocol (loopback)
Data (40 bytes)
0020 00 00 00 00 00 00 00
   Time Source
Protocol Length Info
249 364.272688000 Cisco_3a:f6:0f
LOOP 60 Reply
                                              Destination
                                              Cisco_3a:f6:0f
Frame 249: 60 bytes on wire (480 bits), 60 bytes captured (480 bits
on interface 0

Ethernet II, Src: Cisco_3a:f6:0f (fc:fb:fb:3a:f6:0f), Dst: Cisco_3a:f6:0f (fc:fb:fb:3a:f6:0f)
    (unicast)
```

```
address (factory default)
                                         .... = IG bit: Individual address
          .... (unicast)
Type: Loopback (0x9000)
Configuration Test Protocol (loopback)
Data (40 bytes)
0020 00 00 00 00 00 00 00
   Time Source
Protocol Length Info
254 371.459283000 Kye_25:13:65 Broadcast
ARP 42 Who has 172.16.50.255? Tell 172.16.50.1
Frame 254: 42 bytes on wire (336 bits), 42 bytes captured (336 bits
) on interface 0
Ethernet II, Src: Kye_25:13:65 (00:c0:df:25:13:65), Dst: Broadcast (ff:ff:ff:ff)
     Destination: Broadcast (ff:ff:ff:ff:ff:ff)
Address: Broadcast (ff:ff:ff:ff:ff:ff:ff)
                ..1. .... ....
                                          ... = LG bit: Locally
             administered address (this is NOT the factory default)
    .... = IG bit: Group address (multicast/broadcast)

Source: Kye_25:13:65 (00:c0:df:25:13:65)
          Address: Kye_25:13:65 (00:c0:df:25:13:65)
.... .0. .... = LG bit: Globally unique address (factory default)
                ...0 .... .... = IG bit: Individual address
          (unicast)
     Type: ARP (0x0806)
Address Resolution Protocol (request)
    Time Source
Protocol Length Info
255 372.458414000 Kye_25:13:65 Broadcast
ARP 42 Who has 172.16.50.255? Tell 172.16.50.1
Frame 255: 42 bytes on wire (336 bits), 42 bytes captured (336 bits
) on interface 0
Ethernet II, Src: Kye_25:13:65 (00:c0:df:25:13:65), Dst: Broadcast (ff:ff:ff:ff:ff)
     Destination: Broadcast (ff:ff:ff:ff:ff)
Address: Broadcast (ff:ff:ff:ff:ff)
.... ..1. .... .... = LG bit: Locally
              administered address (this is NOT the factory default)
          .... ....1 .....
                            \dots = IG bit: Group address (
             multicast/broadcast)
     Source: Kye_25:13:65 (00:c0:df:25:13:65)
          Address: Kye_25:13:65 (00:c0:df:25:13:65)
... .0. ... ... = LG bit: Globally unique address (factory default)
                             \dots = IG bit: Individual address
          .... (unicast)
     Type: ARP (0x0806)
Address Resolution Protocol (request)
    Time Source
Protocol Length Info
257 373.458413000 Kye_25:13:65 Broadcast
ARP 42 Who has 172.16.50.255? Tell 172.16.50.1
Frame 257: 42 bytes on wire (336 bits), 42 bytes captured (336 bits
on interface 0
Ethernet II, Src: Kye_25:13:65 (00:c0:df:25:13:65), Dst: Broadcast (ff:ff:ff:ff:ff)
Destination: Broadcast (ff:ff:ff:ff)
```

```
Address: Broadcast (ff:ff:ff:ff:ff)
... .1. ... ... = LG bit: Locally
administered address (this is NOT the factory default)
          .... 1 .... = IG bit: Group address (
multicast/broadcast)
     Source: Kye_25:13:65 (00:c0:df:25:13:65)
         Address: Kye_25:13:65 (00:c0:df:25:13:65)
.... = LG bit: Globally unique
             address (factory default)
          .... = IG bit: Individual address (unicast)
     Type: ARP (0x0806)
Address Resolution Protocol (request)
   Time S
Protocol Length Info
258 374.274995000 C
LOOP 60
                           Source
                                                      Destination
                           Cisco_3a:f6:0f
                                                      Cisco_3a:f6:0f
                           Reply
Frame 258: 60 bytes on wire (480 bits), 60 bytes captured (480 bits ) on interface 0
Ethernet II, Src: Cisco_3a:f6:0f (fc:fb:fb:3a:f6:0f), Dst: Cisco_3a:f6:0f (fc:fb:fb:3a:f6:0f)
    ....0 .... = IG bit: Individual address (unicast)
     Source: Cisco_3a:f6:0f (fc:fb:fb:3a:f6:0f)
         Address: Cisco_3a:f6:0f (fc:fb:fb:3a:f6:0f)
.... ..0. .... = LG bit: Glo
            address (factory default)
          .... = IG bit: Individual address (unicast)
Type: Loopback (0x9000)
Configuration Test Protocol (loopback)
Data (40 bytes)
0020 00 00 00 00 00 00 00 00
   Time Source
Protocol Length Info
259 374.458851000 Kye_25:13:65 Broadcast
ARP 42 Who has 172.16.50.255? Tell 172.16.50.1
Frame 259: 42 bytes on wire (336 bits), 42 bytes captured (336 bits) on interface 0
Ethernet II, Src: Kye_25:13:65 (00:c0:df:25:13:65), Dst: Broadcast (ff:ff:ff:ff:ff)
    administered address (this is NOT the factory default)
....1 ....1 .... = IG bit: Group address (
multicast/broadcast)
    Source: Kye_25:13:65 (00:c0:df:25:13:65)
Address: Kye_25:13:65 (00:c0:df:25:13:65)
.... .0. ... ... = LG bit: Globally unique address (factory default)
               ...0 .
                            .... .... = IG bit: Individual address
          .... (unicast)
    Type: ARP (0x0806)
Address Resolution Protocol (request)
   Time Source
Protocol Length Info
261 375.458412000 Kye_25:13:65 Broadcast
ARP 42 Who has 172.16.50.255? Tell 172.16.50.1
```

```
Frame 261: 42 bytes on wire (336 bits), 42 bytes captured (336 bits
) on interface 0
Ethernet II, Src: Kye_25:13:65 (00:c0:df:25:13:65), Dst: Broadcast (ff:ff:ff:ff:ff:ff)
     Destination: Broadcast (ff:ff:ff:ff:ff)
Address: Broadcast (ff:ff:ff:ff:ff:ff)
.... = LG bit: Locally
               administered address (this is NOT the factory default)
     multicast/broadcast)

Source: Kye_25:13:65 (00:c0:df:25:13:65)
           Address: Kye_25:13:65 (00:c0:df:25:13:65)
                                              .... = LG bit: Globally unique
              address (factory default)
           .... = IG bit: Individual address (unicast)
     Type: ARP (0x0806)
Address Resolution Protocol (request)
    Time
Protocol Length Info
262 376.458464000 H
ARP 42
                                                               Destination
                                Kye_25:13:65 Broadcast
Who has 172.16.50.255? Tell 172.16.50.1
Frame 262: 42 bytes on wire (336 bits), 42 bytes captured (336 bits
) on interface 0
Ethernet II, Src: Kye_25:13:65 (00:c0:df:25:13:65), Dst: Broadcast (ff:ff:ff:ff:ff)
     Destination: Broadcast (ff:ff:ff:ff:ff:ff)
Address: Broadcast (ff:ff:ff:ff:ff:ff)
.....1....................... = LG bit: Locally
administered address (this is NOT the factory default)
     .... = IG bit: Group address (multicast/broadcast)

Source: Kye_25:13:65 (00:c0:df:25:13:65)
           Address: Kye_25:13:65 (00:c0:df:25:13:65)
.... ..0. .... = LG bit: Globally unique
             address (factory default)
           .... = IG bit: Individual address (unicast)
     Type: ARP (0x0806)
Address Resolution Protocol (request)
    Time SProtocol Length Info 264 377.458681000 FARP 42
                                                               Destination
                                Source
                                Kye_25:13:65 Broadcast
Who has 172.16.50.255? Tell 172.16.50.1
Frame 264: 42 bytes on wire (336 bits), 42 bytes captured (336 bits
) on interface 0
Ethernet II, Src: Kye_25:13:65 (00:c0:df:25:13:65), Dst: Broadcast
     (ff:ff:ff:ff:ff)
     Destination: Broadcast (ff:ff:ff:ff:ff)
Address: Broadcast (ff:ff:ff:ff:ff)
.... ..1. .... .... = LG bit: Locally
     administered address (this is NOT the factory default)
.....1 ..... = IG bit: Group address (
multicast/broadcast)
Source: Kye_25:13:65 (00:c0:df:25:13:65)
           Address: Kye_25:13:65 (00:c0:df:25:13:65)
.... .0. .... = LG bit: Globally unique address (factory default)
           .... 0 .... = IG bit: Individual address (unicast)
     Type: ARP (0x0806)
Address Resolution Protocol (request)
    Time SProtocol Length Info 265 378.458481000 KARP 42 V
                                Source
                                                               Destination
                                Kye_25:13:65 Broadcast
Who has 172.16.50.255? Tell 172.16.50.1
```

```
Frame 265: 42 bytes on wire (336 bits), 42 bytes captured (336 bits
) on interface 0
Ethernet II, Src: Kye_25:13:65 (00:c0:df:25:13:65), Dst: Broadcast (ff:ff:ff:ff:ff:ff)
    Destination: Broadcast (ff:ff:ff:ff:ff)
Address: Broadcast (ff:ff:ff:ff:ff:ff)
.... = LG bit: Locally
            administered address (this is NOT the factory default)
    multicast/broadcast)

Source: Kye_25:13:65 (00:c0:df:25:13:65)
         Address: Kye_25:13:65 (00:c0:df:25:13:65)
                                      .... = LG bit: Globally unique
            address (factory default)
         .... = IG bit: Individual address (unicast)
    Type: ARP (0x0806)
Address Resolution Protocol (request)
   Time SProtocol Length Info 267 379.458480000 FARP 42
                                                    Destination
                           Kye_25:13:65 Broadcast
Who has 172.16.50.255? Tell 172.16.50.1
Frame 267: 42 bytes on wire (336 bits), 42 bytes captured (336 bits
) on interface 0 Ethernet II, Src: Kye_25:13:65 (00:c0:df:25:13:65), Dst: Broadcast (ff:ff:ff:ff)
    Destination: Broadcast (ff:ff:ff:ff:ff:ff)
Address: Broadcast (ff:ff:ff:ff:ff)
.....1........................ = LG bit: Locally
administered address (this is NOT the factory default)
              \dots1 \dots = IG bit: Group address (
    multicast/broadcast)
Source: Kye_25:13:65 (00:c0:df:25:13:65)
         Address: Kye_25:13:65 (00:c0:df:25:13:65)
.... ..0. .... = LG bit: Globally unique
           address (factory default)
         .... = IG bit: Individual address (unicast)
     Type: ARP (0x0806)
Address Resolution Protocol (request)
   Time Source
Protocol Length Info
270 384.282377000 Cisco_3a:f6:0f
LOOP 60 Reply
                                                    Destination
                                                    Cisco_3a:f6:0f
Frame 270: 60 bytes on wire (480 bits), 60 bytes captured (480 bits
Source: Cisco_3a:f6:0f (fc:fb:fb:3a:f6:0f)
Address: Cisco_3a:f6:0f (fc:fb:fb:3a:f6:0f)
.... .0. .... = LG bit: Globally unique
address (factory default)
         (unicast)
                                      .... = IG bit: Individual address
    Type: Loopback (0x9000)
Configuration Test Protocol (loopback)
Data (40 bytes)
0020 00 00 00 00 00 00 00
```

```
Time
                           Source
                                                      Destination
   Time Source
Protocol Length Info
276 394.281339000 Cisco_3a:f6:0f
                                                      Cisco_3a:f6:0f
        LOOP
                           Reply
Frame 276: 60 bytes on wire (480 bits), 60 bytes captured (480 bits
) on interface 0
Ethernet II, Src: Cisco_3a:f6:0f (fc:fb:fb:3a:f6:0f), Dst: Cisco_3a:f6:0f (fc:fb:fb:3a:f6:0f)
    Destination: Cisco_3a:f6:0f (fc:fb:fb:3a:f6:0f)
Address: Cisco_3a:f6:0f (fc:fb:fb:3a:f6:0f)
.... = LG bit: Globally unique
            address (factory default)
               ...0 .... = IG bit: Individual address
             (unicast)
    Source: Cisco_3a:f6:0f (fc:fb:fb:3a:f6:0f)
Address: Cisco_3a:f6:0f (fc:fb:fb:3a:f6:0f)
.....0..... = LG bit: Globally unique
address (factory default)
          .... = IG bit: Individual address (unicast)
Type: Loopback (0x9000)
Configuration Test Protocol (loopback)
Data (40 bytes)
00 00 00 00 00 00 00
   Time Protocol Length Info 282 404.288735000 (L00P 60
                                                      Destination
                            Cisco_3a:f6:0f
                                                      Cisco_3a:f6:0f
                           Reply
Frame 282: 60 bytes on wire (480 bits), 60 bytes captured (480 bits
. ..O. .... .... .... address (factory default)
    address (factory default)
.....0 .... = IG bit: Individual address
(unicast)
Source: Cisco_3a:f6:0f (fc:fb:fb:3a:f6:0f)
Address: Cisco_3a:f6:0f (fc:fb:fb:3a:f6:0f)
.....0 .... = LG bit: Globally unique
            address (factory default)
             . ...0 .... = IG bit: Individual address (unicast)
Type: Loopback (0x9000)
Configuration Test Protocol (loopback)
Data (40 bytes)
0020 00 00 00 00 00 00 00 00
   Time Source Destination
Protocol Length Info
284 406.584342000 Cisco_3a:f6:0f CDP/VTP/DTP/PAgP/UDLD
CDP 436 Device ID: tux-sw5 Port ID: FastEthernet0
         /13
Frame 284: 436 bytes on wire (3488 bits), 436 bytes captured (3488
bits) on interface 0
IEEE 802.3 Ethernet
Logical-Link Control
Cisco Discovery Protocol
No. Time
Protocol Length Info
                                                     Destination
```

```
289 414.301167000 Cisco_3a:f6:0f
                                                  Cisco_3a:f6:0f
         LOOP
                             Reply
Frame 289: 60 bytes on wire (480 bits), 60 bytes captured (480 bits
    ) on interface 0
Ethernet II, Src: Cisco_3a:f6:0f (fc:fb:fb:3a:f6:0f), Dst: Cisco_3a:f6:0f (fc:fb:fb:3a:f6:0f)

Destination: Cisco_3a:f6:0f (fc:fb:fb:3a:f6:0f)

Address: Cisco_3a:f6:0f (fc:fb:fb:3a:f6:0f)
             address (factory default)
                                         .... = LG bit: Globally unique
             ....0 .... .... = IG bit: Individual address (unicast)
    Source: Cisco_3a:f6:0f (fc:fb:fb:3a:f6:0f)
Address: Cisco_3a:f6:0f (fc:fb:fb:3a:f6:0f)
.... .0. .... = LG bit: Globally unique
address (factory default)
(unicast)
Type: Loopback (0x9000)
Configuration Test Protocol (loopback)
                                  .... = IG bit: Individual address
Data (40 bytes)
0020 00 00 00 00 00 00 00 00
    Time Source
Protocol Length Info
291 416.204585000 172.16.50.1
ICMP 98 Echo (ping)
                                                        Destination
                                                        172.16.50.255
                            Echo (ping) request id=0x2db1, seq=1/256,
Frame 291: 98 bytes on wire (784 bits), 98 bytes captured (784 bits
) on interface 0
Ethernet II, Src: Kye_25:13:65 (00:c0:df:25:13:65), Dst: Broadcast (ff:ff:ff:ff:ff:ff)
     administered address (this is NOT the factory default)
....1 .... = IG bit: Group address (
     multicast/broadcast)
Source: Kye_25:13:65 (00:c0:df:25:13:65)
          Address: Kye_25:13:65 (00:c0:df:25:13:65)
.... ..0. .... = LG bit: Globally unique
             address (factory default)
                ...0 .... = IG bit: Individual address
              (unicast)
Type: IP (0x0800)
Internet Protocol Version 4, Src: 172.16.50.1 (172.16.50.1), Dst: 172.16.50.255 (172.16.50.255)
Internet Control Message Protocol
    Time Source Destination
Protocol Length Info
293 417.203536000 172.16.50.1 172.16.50.255
ICMP 98 Echo (ping) request id=0x2db1, seq=2/512,
         t.t.1 = 64
Frame 293: 98 bytes on wire (784 bits), 98 bytes captured (784 bits
   Ethernet
          administered address (this is NOT the factory default)
.... 1 .... 2 .... = IG bit: Group address (
             multicast/broadcast)
     Source: Kye_25:13:65 (00:c0:df:25:13:65)
          Address: Kye_25:13:65 (00:c0:df:25:13:65)
```

```
....0. .... = LG bit: Globally unique address (factory default)
           .... (unicast)
                                .... .... = IG bit: Individual address
     Type: IP (0x0800)
Internet Protocol Version 4, Src: 172.16.50.1 (172.16.50.1), Dst: 172.16.50.255 (172.16.50.255)
Internet Control Message Protocol
    Time Source
Protocol Length Info
294 418.202550000 172.16.50.1
                                                                Destination
                                                                172.16.50.255
          ICMP
                                Echo (ping) request
                      98
                                                               id=0x2db1, seq=3/768,
          ttl=64
Frame 294: 98 bytes on wire (784 bits), 98 bytes captured (784 bits
) on interface 0
Ethernet II, Src: Kye_25:13:65 (00:c0:df:25:13:65), Dst: Broadcast
     (<u>ff:ff:ff:ff:ff:ff</u>)
     Destination: Broadcast (ff:ff:ff:ff:ff)
Address: Broadcast (ff:ff:ff:ff:ff:ff)
.... .1. .... = LG bit: Locally
              ....1. .... .... = LG bit: Locally administered address (this is NOT the factory default)
     .... :..1 .... :... = IG bit: Group address (
    multicast/broadcast)
Source: Kye_25:13:65 (00:c0:df:25:13:65)
           Address: Kye_25:13:65 (00:c0:df:25:13:65)
               ....0. .... = LG bit: Globally unique address (factory default)
           .... = IG bit: Individual address (unicast)
     Type: IP (0x0800)
Internet Protocol Version 4, Src: 172.16.50.1 (172.16.50.1), Dst: 172.16.50.255 (172.16.50.255)
Internet Control Message Protocol
    Time Source
Protocol Length Info
296 419.202524000 172.16.50.1
ICMP 98 Echo (ping)
                                                                Destination
                                                                172.16.50.255
                                Echo (ping) request
                                                               id=0x2db1, seq=4/1024,
          tt1=64
Frame 296: 98 bytes on wire (784 bits), 98 bytes captured (784 bits
    ) on interface 0
Ethernet II, Src: Kye_25:13:65 (00:c0:df:25:13:65), Dst: Broadcast (ff:ff:ff:ff:ff)
     Destination: Broadcast (ff:ff:ff:ff:ff)
Address: Broadcast (ff:ff:ff:ff:ff)
.... = LG bit: Locally
               administered address (this is NOT the factory default)
                                               .... = IG bit: Group address (
                     . . 1
     multicast/broadcast)
Source: Kye_25:13:65 (00:c0:df:25:13:65)
           Address: Kye_25:13:65 (00:c0:df:25:13:65)
... .0. ... = LG bit: Globally unique address (factory default)
           .... 0 .... = IG bit: Individual address (unicast)
Type: IP (0x0800)
Internet Protocol Version 4, Src: 172.16.50.1 (172.16.50.1), Dst: 172.16.50.255 (172.16.50.255)
Internet Control Message Protocol
    Time Protocol Length Info 299 424.308631000 (LOOP 60
                                                                Destination
                                 Cisco_3a:f6:0f
                                                                Cisco_3a:f6:0f
                                 Reply
Frame 299: 60 bytes on wire (480 bits), 60 bytes captured (480 bits
    ) on interface 0
Ethernet II, Src: Cisco_3a:f6:0f (fc:fb:fb:3a:f6:0f), Dst: Cisco_3a:f6:0f (fc:fb:fb:3a:f6:0f)
Destination: Cisco_3a:f6:0f (fc:fb:fb:3a:f6:0f)
```

```
Address: Cisco_3a:f6:0f (fc:fb:fb:3a:f6:0f)
.... = LG bit: Glo
            . ..0. .... : LG bit: Globally unique address (factory default)
            ....0 .... = IG bit: Individual address (unicast)
    Source: Cisco_3a:f6:0f (fc:fb:fb:3a:f6:0f)
Address: Cisco_3a:f6:0f (fc:fb:fb:3a:f6:0f)
.....0..... = LG bit: Globally unique
address (factory default)
         (unicast)
                                     .... = IG bit: Individual address
    Type: Loopback (0x9000)
Configuration Test Protocol (loopback)
Data (40 bytes)
0020 00 00 00 00 00 00 00 00
   Time Source
Protocol Length Info
305 434.302601000 Cisco_3a:f6:0f
                                                   Destination
                                                   Cisco_3a:f6:0f
                          Reply
Frame 305: 60 bytes on wire (480 bits), 60 bytes captured (480 bits
address (factory default)
    .....0 .... = IG bit: Individual address (unicast)

Source: Cisco_3a:f6:0f (fc:fb:fb:3a:f6:0f)
Address: Cisco_3a:f6:0f (fc:fb:fb:3a:f6:0f)
.....0 .... = LG bit: Globally unique address (factory default)

= IG bit: Individual address
             . ...0 .... = IG bit: Individual address (unicast)
Type: Loopback (0x9000)
Configuration Test Protocol (loopback)
Data (40 bytes)
0020 00 00 00 00 00 00 00 00
                                                                . . . . . . . .
   Time Source
Protocol Length Info
311 444.309953000 Cisco_3a:f6:0f
LOOP 60 Reply
                                                   Destination
                                                   Cisco_3a:f6:0f
Frame 311: 60 bytes on wire (480 bits), 60 bytes captured (480 bits
address (factory default)
......0 .... = IG bit: Individual address
(unicast)
Source: Cisco_3a:f6:0f (fc:fb:fb:3a:f6:0f)
Address: Cisco_3a:f6:0f (fc:fb:fb:3a:f6:0f)
..... = LG bit: Globally unique
            address (factory default)
               ...0 .... = IG bit: Individual address
             (unicast)
Type: Loopback (0x9000)
Configuration Test Protocol (loopback)
```

```
Data (40 bytes)
0020 00 00 00 00 00 00 00
    Time Source
Protocol Length Info
317 454.309509000 Cisco_3a:f6:0f
                                                             Destination
                                                             Cisco_3a:f6:0f
                               Reply
Frame 317: 60 bytes on wire (480 bits), 60 bytes captured (480 bits
) on interface 0
Ethernet II, Src: Cisco_3a:f6:0f (fc:fb:fb:3a:f6:0f), Dst: Cisco_3a:f6:0f (fc:fb:fb:3a:f6:0f)
     Destination: Cisco_3a:f6:0f (fc:fb:fb:3a:f6:0f)
Address: Cisco_3a:f6:0f (fc:fb:fb:3a:f6:0f)
.... ..0. .... ... ... ... = LG bit: Globally unique
              address (factory default)
                 ...0 .... = IG bit: Individual address
              (unicast)
     Source: Cisco_3a:f6:0f (fc:fb:fb:3a:f6:0f)
Address: Cisco_3a:f6:0f (fc:fb:fb:3a:f6:0f)
.....0..... = LG bit: Globally unique
address (factory default)
           .... = IG bit: Individual address (unicast)
Type: Loopback (0x9000)
Configuration Test Protocol (loopback)
Data (40 bytes)
0020 00 00 00 00 00 00 00
    Time Source
Protocol Length Info
323 464.316241000 Cisco_3a:f6:0f
LOOP 60 Reply
                                                             Destination
                                                             Cisco_3a:f6:0f
Frame 323: 60 bytes on wire (400 bits), 55 2,111
) on interface 0
Ethernet II, Src: Cisco_3a:f6:0f (fc:fb:fb:3a:f6:0f), Dst: Cisco_3a:f6:0f (fc:fb:fb:3a:f6:0f)
Destination: Cisco_3a:f6:0f (fc:fb:fb:3a:f6:0f)
Address: Cisco_3a:f6:0f (fc:fb:fb:3a:f6:0f)
.....0...... = LG bit: Globally unique address (factory default)

O ..... = IG bit: Individual address
Frame 323: 60 bytes on wire (480 bits), 60 bytes captured (480 bits
     address (factory default)
......0 .... = IG bit: Individual address
(unicast)
Source: Cisco_3a:f6:0f (fc:fb:fb:3a:f6:0f)
Address: Cisco_3a:f6:0f (fc:fb:fb:3a:f6:0f)
..... = LG bit: Globally unique
               address (factory default)
                  ...0 .
                         ... .... = IG bit: Individual address
               (unicast)
Type: Loopback (0x9000)
Configuration Test Protocol (loopback)
Data (40 bytes)
0020 00 00 00 00 00 00 00 00
    Time Source
Protocol Length Info
325 466.587116000 Cisco_3a:f6:0f CDP/VTP/DTP/PAgP/UDLD
CDP 436 Device ID: tux-sw5 Port ID: FastEthernet0
```

```
Frame 325: 436 bytes on wire (3488 bits), 436 bytes captured (3488
bits) on interface 0
IEEE 802.3 Ethernet
Logical-Link Control
Cisco Discovery Protocol
   Time SProtocol Length Info 330 474.210743000
                                                      Destination
                           Source
                            172.16.50.1
                                                       172.16.50.255
                  98
        ICMP
                            Echo (ping) request id=0x2dd3, seq=1/256,
         tt1=64
Frame 330: 98 bytes on wire (784 bits), 98 bytes captured (784 bits
) on interface 0 Ethernet II, Src: Kye_25:13:65 (00:c0:df:25:13:65), Dst: Broadcast (ff:ff:ff:ff:ff)
    Destination: Broadcast (ff:ff:ff:ff:ff)
Address: Broadcast (ff:ff:ff:ff:ff:ff)
.... .1. .... .... = LG bit: Locally
            administered address (this is NOT the factory default)
          .... 1 .... = IG bit: Group address (
multicast/broadcast)
    Source: Kye_25:13:65 (00:c0:df:25:13:65)
         Address: Kye_25:13:65 (00:c0:df:25:13:65)
... .0. ... = LG bit: Globally unique address (factory default)
               ...0 .... = IG bit: Individual address
             (unicast)
Type: IP (0x0800)
Internet Protocol Version 4, Src: 172.16.50.1 (172.16.50.1), Dst: 172.16.50.255 (172.16.50.255)
Internet Control Message Protocol
   Time Protocol Length Info 331 474.323599000 (LOOP 60
                                                      Destination
                            Cisco_3a:f6:0f
                                                      Cisco_3a:f6:0f
                            Reply
address (factory default)
             ....0 .... = IG bit: Individual address (unicast)
    Source: Cisco_3a:f6:0f (fc:fb:fb:3a:f6:0f)
Address: Cisco_3a:f6:0f (fc:fb:fb:3a:f6:0f)
.....0..... = LG bit: Globally unique
address (factory default)
          .... (unicast)
                                       .... = IG bit: Individual address
Type: Loopback (0x9000)
Configuration Test Protocol (loopback)
Data (40 bytes)
0020 00 00 00 00 00 00 00
         Time
                                                      Destination
                            Source
   Protocol Length Info
333 475.210509000 172.16.50.1
                                                       172.16.50.255
                           Echo (ping) request id=0x2dd3, seq=2/512,
        TCMP
        t.t.1 = 64
Frame 333: 98 bytes on wire (784 bits), 98 bytes captured (784 bits
) on interface 0
Ethernet II, Src: Kye_25:13:65 (00:c0:df:25:13:65), Dst: Broadcast (ff:ff:ff:ff:ff)
     Destination: Broadcast (ff:ff:ff:ff:ff)
```

```
Address: Broadcast (ff:ff:ff:ff:ff)
... .1. ... ... = LG bit: Locally
administered address (this is NOT the factory default)
           .... 1 .... = IG bit: Group address (
multicast/broadcast)
     Source: Kye_25:13:65 (00:c0:df:25:13:65)
           Address: Kye_25:13:65 (00:c0:df:25:13:65)
.... = LG bit: Globally unique
              address (factory default)
           .... 0 .... = IG bit: Individual address (unicast)
Type: IP (0x0800)
Internet Protocol Version 4, Src: 172.16.50.1 (172.16.50.1), Dst: 172.16.50.255 (172.16.50.255)
Internet Control Message Protocol
    Time
Protocol Length Info
334 476.210512000
                                                             Destination
                               172.16.50.1
                                                             172.16.50.255
         ICMP
                    98
                               Echo (ping) request id=0x2dd3, seq=3/768,
          tt1=64
Frame 334: 98 bytes on wire (784 bits), 98 bytes captured (784 bits
) on interface 0
Ethernet II, Src: Kye_25:13:65 (00:c0:df:25:13:65), Dst: Broadcast (ff:ff:ff:ff:ff)
     administered address (this is NOT the factory default)
     .... = IG bit: Group address (
multicast/broadcast)

Source: Kye_25:13:65 (00:c0:df:25:13:65)
           Address: Kye_25:13:65 (00:c0:df:25:13:65)
.... = LG bit: 0
           .... ..0. .... = LG bit: Globally unique address (factory default) = IG bit: Individual address
               (unicast)
     Type: IP (0x0800)
Internet Protocol Version 4, Src: 172.16.50.1 (172.16.50.1), Dst: 172.16.50.255 (172.16.50.255)
Internet Control Message Protocol
          Time
                                                             Destination
                               Source
    Protocol Length Info
336 477.210533000 1
ICMP 98
                               172.16.50.1
                                                             172.16.50.255
                               Echo (ping) request id=0x2dd3, seq=4/1024,
Frame 336: 98 bytes on wire (784 bits), 98 bytes captured (784 bits
) on interface 0 Ethernet II, Src: Kye_25:13:65 (00:c0:df:25:13:65), Dst: Broadcast (ff:ff:ff:ff:ff)
     Destination: Broadcast (ff:ff:ff:ff:ff:ff)
Address: Broadcast (ff:ff:ff:ff:ff:ff)
.... = LG bit: Locally
               administered address (this is NOT the factory default)
                                            .... = IG bit: Group address (
           .... ...1 ....
              multicast/broadcast)
     Source: Kye_25:13:65 (00:c0:df:25:13:65)
          Address: Kye_25:13:65 (00:c0:df:25:13:65)
... .0. ... = LG bit: G
address (factory default)
                                             .... = LG bit: Globally unique
           .... 0 .... uerauit)
.... = IG bit: Individual address
(unicast)
Type: IP (0x0800)
Internet Protocol Version 4, Src: 172.16.50.1 (172.16.50.1), Dst: 172.16.50.255 (172.16.50.255)
Internet Control Message Protocol
No. Time Protocol Length Info
                               Source
                                                             Destination
```

```
337 478.210531000 172.16.50.1
                                                            172.16.50.255
         ICMP
                              Echo (ping) request id=0x2dd3, seq=5/1280,
                     98
         tt1=64
Frame 337: 98 bytes on wire (784 bits), 98 bytes captured (784 bits
) on interface 0 Ethernet II, Src: Kye_25:13:65 (00:c0:df:25:13:65), Dst: Broadcast
    (ff:ff:ff:ff:ff)
     Destination: Broadcast (ff:ff:ff:ff:ff)
Address: Broadcast (ff:ff:ff:ff:ff)
.... .1. .... ... = LG bit: Locally
               administered address (this is NOT the factory default)
              ....1 .... .... = IG bit: Group address ( multicast/broadcast)
     Source: Kye_25:13:65 (00:c0:df:25:13:65)
          Address: Kye_25:13:65 (00:c0:df:25:13:65)
... .0. ... = LG bit: Globally unique address (factory default)
           .... 0 .... = IG bit: Individual address (unicast)
     Type: IP (0x0800)
Source
                                                            Destination
    Protocol Length Info
339 479.210514000 172.16.50.1
ICMP 98 Echo (ping)
                                                            172.16.50.255
                              Echo (ping) request
                                                          id=0x2dd3, seq=6/1536,
         ttl=64
Frame 339: 98 bytes on wire (784 bits), 98 bytes captured (784 bits
) on interface 0
Ethernet II, Src: Kye_25:13:65 (00:c0:df:25:13:65), Dst: Broadcast (ff:ff:ff:ff:ff)
     Destination: Broadcast (ff:ff:ff:ff:ff:ff)
Address: Broadcast (ff:ff:ff:ff:ff)
.....1........................ = LG bit: Locally
administered address (this is NOT the factory default)
                                           .... = IG bit: Group address (
                 . . . 1
     multicast/broadcast)
Source: Kye_25:13:65 (00:c0:df:25:13:65)
          Address: Kye_25:13:65 (00:c0:df:25:13:65)
.... .0. .... = LG bit: Globally unique
               address (factory default)
                 ...0 .... .... = IG bit: Individual address
               (unicast)
     Type: IP (0x0800)
Internet Protocol Version 4, Src: 172.16.50.1 (172.16.50.1), Dst: 172.16.50.255 (172.16.50.255)
Internet Control Message Protocol
    Time SProtocol Length Info 342 484.331018000 CLOOP 60
                                                            Destination
                             Cisco_3a:f6:0f
Reply
                                                            Cisco_3a:f6:0f
Frame 342: 60 bytes on wire (480 bits), 60 bytes captured (480 bits
    ) on interface 0
Ethernet II, Src: Cisco_3a:f6:0f (fc:fb:fb:3a:f6:0f), Dst: Cisco_3a:f6:0f (fc:fb:fb:3a:f6:0f)

Destination: Cisco_3a:f6:0f (fc:fb:fb:3a:f6:0f)

Address: Cisco_3a:f6:0f (fc:fb:fb:3a:f6:0f)

.....0.....= LG bit: Globally unique
               address (factory default)
              . ...0 .... = IG bit: Individual address (unicast)
     Source: Cisco_3a:f6:0f (fc:fb:fb:3a:f6:0f)
          Address: Cisco_3a:f6:Of (fc:fb:fb:3a:f6:Of)
.... = LG bit: Globally unique
              address (factory default)
                           ..... = IG bit: Individual address
               (unicast)
```

```
Type: Loopback (0x9000)
Configuration Test Protocol (loopback)
Data (40 bytes)
0020 00 00 00 00 00 00 00
   Time SProtocol Length Info 348 494.330090000 CLOOP 60
                                               Destination
                        Cisco_3a:f6:0f
                                               Cisco_3a:f6:0f
                        Reply
Frame 348: 60 bytes on wire (480 bits), 60 bytes captured (480 bits
) on interface 0
Ethernet II, Src: Cisco_3a:f6:0f (fc:fb:fb:3a:f6:0f), Dst: Cisco_3a:f6:0f (fc:fb:fb:3a:f6:0f)
Destination: Cisco_3a:f6:0f (fc:fb:fb:3a:f6:0f)
Address: Cisco_3a:f6:0f (fc:fb:fb:3a:f6:0f)
..... = LG bit: Globally unique
            address (factory default)
        .... = IG bit: Individual address (unicast)
    Source: Cisco_3a:f6:0f (fc:fb:fb:3a:f6:0f)
Address: Cisco_3a:f6:0f (fc:fb:fb:3a:f6:0f)
.... .0. ... ... = LG bit: Globally unique
address (factory default)
        (unicast)
                                  .... = IG bit: Individual address
    Type: Loopback (0x9000)
Configuration Test Protocol (loopback)
Data (40 bytes)
0020 00 00 00 00 00 00 00
   Time Source
Protocol Length Info
354 504.337367000 Cisco_3a:f6:0f
                                               Destination
                                               Cisco_3a:f6:0f
                        Reply
Frame 354: 60 bytes on wire (480 bits), 60 bytes captured (480 bits
address (factory default)
           ....0 .... = IG bit: Individual address (unicast)
    Source: Cisco_3a:f6:0f (fc:fb:fb:3a:f6:0f)
Address: Cisco_3a:f6:0f (fc:fb:fb:3a:f6:0f)
.... .0. .... = LG bit: Globally unique
address (factory default)
        .... (unicast)
                                  .... = IG bit: Individual address
Type: Loopback (0x9000)
Configuration Test Protocol (loopback)
Data (40 bytes)
0020 00 00 00 00 00 00 00 00
                                                           . . . . . . . .
   Time Source
Protocol Length Info
360 514.344767000 Cisco_3a:f6:0f
LOOP 60 Reply
                                               Destination
                                               Cisco_3a:f6:0f
```

```
Frame 360: 60 bytes on wire (480 bits), 60 bytes captured (480 bits
address (factory default)
             . . . . 0 . . . . . . . . . . . = IG bit: Individual address (unicast)
    address (factory default)
             . ...0 .... = IG bit: Individual address (unicast)
Type: Loopback (0x9000)
Configuration Test Protocol (loopback)
Data (40 bytes)
0020 00 00 00 00 00 00 00 00
   Time Protocol Length Info 366 524.352118000 (LOOP 60
                                                     Destination
                           Cisco_3a:f6:0f
                                                     Cisco_3a:f6:0f
                           Reply
Frame 366: 60 bytes on wire (480 bits), 60 bytes captured (480 bits
Frame 366: 60 bytes on wife (300 bits),
) on interface 0
Ethernet II, Src: Cisco_3a:f6:0f (fc:fb:fb:3a:f6:0f), Dst: Cisco_3a:f6:0f (fc:fb:fb:3a:f6:0f)
Destination: Cisco_3a:f6:0f (fc:fb:fb:3a:f6:0f)
Address: Cisco_3a:f6:0f (fc:fb:fb:3a:f6:0f)
........ = LG bit: Globally unique
             address (factory default)
    .... 0 .... = IG bit: Individual address (unicast)

Source: Cisco_3a:f6:0f (fc:fb:fb:3a:f6:0f)
Address: Cisco_3a:f6:0f (fc:fb:fb:3a:f6:0f)
.... 0 .... EG bit: Globally unique address (factory default)
             . ...0 .... = IG bit: Individual address (unicast)
Type: Loopback (0x9000)
Configuration Test Protocol (loopback)
Data (40 bytes)
0020 00 00 00 00 00 00 00
    Time Protocol Length Info
                           Source
                                                     Destination
     368 526.583232000 Cisco_3a:f6:Of CDP/VTP/DTP/PAgP/UDLD CDP 436 Device ID: tux-sw5 Port ID: FastEthernet0
        /13
Frame 368: 436 bytes on wire (3488 bits), 436 bytes captured (3488
bits) on interface 0 IEEE 802.3 Ethernet Logical-Link Control
Cisco Discovery Protocol
   Time Source
Protocol Length Info
373 534.351349000 Cisco_3a:f6:0f
LOOP 60 Reply
                                                     Destination
                                                     Cisco_3a:f6:0f
                           Reply
Frame 373: 60 bytes on wire (480 bits), 60 bytes captured (480 bits
   ) on interface 0
```

```
address (factory default)
                     ... .... .... = IG bit: Individual address
              . . . 0 .
    . ..O. .... .... .... address (factory default)
            . ...0 .... = IG bit: Individual address (unicast)
Type: Loopback (0x9000)
Configuration Test Protocol (loopback)
Data (40 bytes)
0020 00 00 00 00 00 00 00
   Time SProtocol Length Info 376 537.904074000 ICMP 98
                        Source
                                               Destination
                        172.16.50.1
                                                172.16.50.255
                        Echo (ping) request id=0x2dfb, seq=1/256,
       ttl=64
Frame 376: 98 bytes on wire (784 bits), 98 bytes captured (784 bits
) on interface 0
Ethernet II, Src: Kye_25:13:65 (00:c0:df:25:13:65), Dst: Broadcast (ff:ff:ff:ff:ff)
    ....1 .... .... = IG bit: Group address (
multicast/broadcast)
    Source: Kye_25:13:65 (00:c0:df:25:13:65)
        Address: Kye_25:13:65 (00:c0:df:25:13:65)
.... .0. .... = LG bit: Globally unique
           ....0. .... .... default)
        .... = IG bit: Individual address (unicast)
    Type: IP (0x0800)
Internet Protocol Version 4, Src: 172.16.50.1 (172.16.50.1), Dst: 172.16.50.255 (172.16.50.255)
Internet Control Message Protocol
   Time Source
Protocol Length Info
377 538.903070000 172.16.50.1
TCMP 98 Echo (ping) request
                                               Destination
                                                172.16.50.255
                                               id=0x2dfb, seq=2/512,
Frame 377: 98 bytes on wire (784 bits), 98 bytes captured (784 bits
) on interface 0
Ethernet II, Src: Kye_25:13:65 (00:c0:df:25:13:65), Dst: Broadcast (ff:ff:ff:ff:ff:ff)
    ff:ff:ff:ff:t1:11)
Destination: Broadcast (ff:ff:ff:ff:ff:ff)
   Address: Broadcast (ff:ff:ff:ff:ff:ff)
   1. .... = LG bit: Locally
            administered address (this is NOT the factory default)
    .... = IG bit: Group address (multicast/broadcast)

Source: Kye_25:13:65 (00:c0:df:25:13:65)
        Address: Kye_25:13:65 (00:c0:df:25:13:65)
          ..... = LG bit: Globally unique address (factory default)
        .... = IG bit: Individual address (unicast)
    Type: IP (0x0800)
```

```
Internet Protocol Version 4, Src: 172.16.50.1 (172.16.50.1), Dst: 172.16.50.255 (172.16.50.255) Internet Control Message Protocol
                                                         Destination
          Time
                             Source
    Protocol Length Info
379 539.902532000 172.16.50.1
                                                          172.16.50.255
         ICMP
                    98
                             Echo (ping) request
                                                        id=0x2dfb, seq=3/768,
         tt1=64
Frame 379: 98 bytes on wire (784 bits), 98 bytes captured (784 bits
) on interface 0
Ethernet II, Src: Kye_25:13:65 (00:c0:df:25:13:65), Dst: Broadcast (ff:ff:ff:ff:ff)
     Destination: Broadcast (ff:ff:ff:ff:ff)
Address: Broadcast (ff:ff:ff:ff:ff)
.... = LG bit: Locally
            .. ..1. .... .... = LG \bar{bit}: Locally administered address (this is NOT the factory default)
     multicast/broadcast)

Source: Kye_25:13:65 (00:c0:df:25:13:65)
          Address: Kye_25:13:65 (00:c0:df:25:13:65)
              . ..u. .... = LG bit: Globally unique address (factory default)
          .... = IG bit: Individual address (unicast)
     Type: IP (0x0800)
Internet Protocol Version 4, Src: 172.16.50.1 (172.16.50.1), Dst: 172.16.50.255 (172.16.50.255)
Internet Control Message Protocol
    Time
Protocol Length Info
380 540.903338000
                                                         Destination
                        Info
                             172.16.50.1
                                                         172.16.50.255
         ICMP
                   98
                            Echo (ping) request id=0x2dfb, seq=4/1024,
         tt1=64
Frame 380: 98 bytes on wire (784 bits), 98 bytes captured (784 bits
    ) on interface 0
multicast/broadcast)
Source: Kye_25:13:65 (00:c0:df:25:13:65)
Address: Kye_25:13:65 (00:c0:df:25:13:65)
... .00 ... ... ... = LG bit: G
                                          .... = IG bit: Group address (
          Type: IP (0x0800)
Internet Protocol Version 4, Src: 172.16.50.1 (172.16.50.1), Dst: 172.16.50.255 (172.16.50.255)
Internet Control Message Protocol
          Time
                                                         Destination
                             Source
    Protocol Length Info
382 541.902522000 172.16.50.1
                                                          172.16.50.255
         ICMP
                    98
                             Echo (ping) request id=0x2dfb, seq=5/1280,
Frame 382: 98 bytes on wire (784 bits), 98 bytes captured (784 bits
) on interface 0
Ethernet II, Src: Kye_25:13:65 (00:c0:df:25:13:65), Dst: Broadcast (ff:ff:ff:ff:ff:ff)
     Destination: Broadcast (ff:ff:ff:ff:ff:ff)
Address: Broadcast (ff:ff:ff:ff:ff:ff:ff)
                                           ... = LG bit: Locally
              administered address (this is NOT the factory default)
```

```
\dots = IG bit: Group address (
             .... ...1 ....
      multicast/broadcast)
Source: Kye_25:13:65 (00:c0:df:25:13:65)
             Address: Kye_25:13:65 (00:c0:df:25:13:65)
.... = LG bit: Globally unique
                address (factory default)
             .... ...0 .... .... = IG bit: Individual address _(unicast)
      Type: IP (0x0800)
Internet Protocol Version 4, Src: 172.16.50.1 (172.16.50.1), Dst: 172.16.50.255 (172.16.50.255)
Internet Control Message Protocol
     Time Source
Protocol Length Info
383 542.902521000 172.16.50.1
ICMP 98 Echo (ping) request
                                                                          Destination
                                                                           172.16.50.255
                                                                         id=0x2dfb, seq=6/1536,
           ttl=64
Frame 383: 98 bytes on wire (784 bits), 98 bytes captured (784 bits ) on interface 0 Ethernet II, Src: Kye_25:13:65 (00:c0:df:25:13:65), Dst: Broadcast
     (ff:ff:ff:ff:ff)
      Destination: Broadcast (ff:ff:ff:ff:ff)
Address: Broadcast (ff:ff:ff:ff:ff)
.....1. .... = LG bit: Locally
administered address (this is NOT the factory default)
             .... = IG bit: Group address (
                 multicast/broadcast)
      Source: Kye_25:13:65 (00:c0:df:25:13:65)
    Address: Kye_25:13:65 (00:c0:df:25:13:65)
    .... ..0. .... = LG bit: Globally unique
                  address (factory default)
             .... 0 .... = IG bit: Individual address (unicast)
      Type: IP (0x0800)
Internet Protocol Version 4, Src: 172.16.50.1 (172.16.50.1), Dst: 172.16.50.255 (172.16.50.255)
Internet Control Message Protocol
     Time Source
Protocol Length Info
385 543.902520000 172.16.50.1
                                                                          Destination
                                                                           172.16.50.255
            TCMP
                         98
                                      Echo (ping) request id=0x2dfb, seq=7/1792,
            ttl=64
Frame 385: 98 bytes on wire (784 bits), 98 bytes captured (784 bits
) on interface 0
Ethernet II, Src: Kye_25:13:65 (00:c0:df:25:13:65), Dst: Broadcast (ff:ff:ff:ff)
      Destination: Broadcast (ff:ff:ff:ff:ff:ff)
Address: Broadcast (ff:ff:ff:ff:ff:ff:
.... -1. .... = LG bit: Locally
                administered address (this is NOT the factory default)
      administered address (this is NOI the lactory default)
....1 .... = IG bit: Group address (
multicast/broadcast)

Source: Kye_25:13:65 (00:c0:df:25:13:65)
Address: Kye_25:13:65 (00:c0:df:25:13:65)
....0 .... = LG bit: Globally unique
address (factory default)
....0 .... = IG bit: Individual address
                   (unicast)
Type: IP (0x0800)
Internet Protocol Version 4, Src: 172.16.50.1 (172.16.50.1), Dst: 172.16.50.255 (172.16.50.255)
Internet Control Message Protocol
     Time Source
Protocol Length Info
386 544.363657000 Cisco_3a:f6:0f
LOOP 60 Reply
                                                                          Destination
                                                                          Cisco_3a:f6:0f
```

```
Frame 386: 60 bytes on wire (480 bits), 60 bytes captured (480 bits
address (factory default)
            . . . . 0 . . . . . . . . . . . . = IG bit: Individual address (unicast)
    address (factory default)
             (unicast)
                                       .... = IG bit: Individual address
Type: Loopback (0x9000)
Configuration Test Protocol (loopback)
Data (40 bytes)
      0020 00 00 00 00 00 00 00 00
   Time Source
Protocol Length Info
387 544.902557000 172.16.50.1
                                                     Destination
                                                     172.16.50.255
                           Echo (ping) request
        ICMP
                  98
                                                   id=0x2dfb, seq=8/2048,
        ttl=64
Frame 387: 98 bytes on wire (784 bits), 98 bytes captured (784 bits
) on interface 0
Ethernet II, Src: Kye_25:13:65 (00:c0:df:25:13:65), Dst: Broadcast (ff:ff:ff:ff:ff:ff)
    Destination: Broadcast (ff:ff:ff:ff:ff:ff)
Address: Broadcast (ff:ff:ff:ff:ff:ff)
.....1....................... = LG bit: Locally
administered address (this is NOT the factory default)
         .... ...1 .... .... = IG bit: Group address (
    multicast/broadcast)
Source: Kye_25:13:65 (00:c0:df:25:13:65)
Address: Kye_25:13:65 (00:c0:df:25:13:65)
... .0. ... = LG bit: Globally unique address (factory default)

- TC bit: Individual addr
               ...0 .... .... = IG bit: Individual address
         (unicast)
    Type: IP (0x0800)
Internet Protocol Version 4, Src: 172.16.50.1 (172.16.50.1), Dst: 172.16.50.255 (172.16.50.255)
Internet Control Message Protocol
                                                     Destination
         Time
                           Source
   Protocol Length Info
                           172.16.50.1
                                                      172.16.50.255
        ICMP
                           Echo (ping) request id=0x2dfb, seq=9/2304,
        tt1=64
Frame 389: 98 bytes on wire (784 bits), 98 bytes captured (784 bits
) on interface 0
Ethernet II, Src: Kye_25:13:65 (00:c0:df:25:13:65), Dst: Broadcast (ff:ff:ff:ff)
    Destination: Broadcast (ff:ff:ff:ff:ff)
Address: Broadcast (ff:ff:ff:ff:ff)
.... ..1. .... .... = LG bit: Locally
            administered address (this is NOT the factory default)
. . . . 1 . . . . . . . . . . = IG bit: Group address (
multicast/broadcast)
    address (factory default)
```

```
.... 0 .... = IG bit: Individual address (unicast)
Type: IP (0x0800)
Internet Protocol Version 4, Src: 172.16.50.1 (172.16.50.1), Dst: 172.16.50.255 (172.16.50.255)
Internet Control Message Protocol
    Time
Protocol Length Info
390 546.902525000
                                                                        Destination
                                    172.16.50.1
                                                                        172.16.50.255
           ICMP
                         98
                                    Echo (ping) request
                                                                      id=0x2dfb, seq=10/2560,
             tt1=64
Frame 390: 98 bytes on wire (784 bits), 98 bytes captured (784 bits
) on interface 0
Ethernet II, Src: Kye_25:13:65 (00:c0:df:25:13:65), Dst: Broadcast (ff:ff:ff:ff:ff)
      Destination: Broadcast (ff:ff:ff:ff:ff)
Address: Broadcast (ff:ff:ff:ff:ff)
... = LG bit: Locally
                .. ..1. .... .... .... = LG bit: Locally administered address (this is NOT the factory default)
      ...1 ....
                                                    .... = IG bit: Group address (
Internet Protocol Version 4, Src: 172.16.50.1 (172.16.50.1), Dst: 172.16.50.255 (172.16.50.255)
Internet Control Message Protocol
            Time
                                                                        Destination
                                    Source
     Protocol Length Info
392 547.902554000 172.16.50.1
                                                                        172.16.50.255
           ICMP
                                    Echo (ping) request id=0x2dfb, seq=11/2816,
             ttl=64
Frame 392: 98 bytes on wire (784 bits), 98 bytes captured (784 bits
) on interface 0
Ethernet II, Src: Kye_25:13:65 (00:c0:df:25:13:65), Dst: Broadcast
     (ff:ff:ff:ff:ff)
      Destination: Broadcast (ff:ff:ff:ff:ff:ff)
Address: Broadcast (ff:ff:ff:ff:ff:ff)
.... 1. ... ... ... = LG bit
                                                            = LG bit: Locally
                  administered address (this is NOT the factory default)
. . . . . . . . . . . . . . . = IG bit: Group address (
             . . . . . . . . . . . . . . . .
      multicast/broadcast)

Source: Kye_25:13:65 (00:c0:df:25:13:65)

Address: Kye_25:13:65 (00:c0:df:25:13:65)

.... .0 .... = LG bit: Globally unique
                address (factory default)
Address (lactory default)
.... 0 .... = IG bit: Individual address (unicast)
Type: IP (0x0800)
Internet Protocol Version 4, Src: 172.16.50.1 (172.16.50.1), Dst: 172.16.50.255 (172.16.50.255)
Internet Control Message Protocol
     Time Source
Protocol Length Info
393 548.902530000 172.16.50.1
ICMP 98 Echo (ping)
                                                                        Destination
                                                                        172.16.50.255
                                     Echo (ping) request
                                                                      id=0x2dfb, seq=12/3072,
             ttl=64
Frame 393: 98 bytes on wire (784 bits), 98 bytes captured (784 bits) on interface 0
Ethernet II, Src: Kye_25:13:65 (00:c0:df:25:13:65), Dst: Broadcast (ff:ff:ff:ff:ff:ff:ff)
      Destination: Broadcast (ff:ff:ff:ff:ff:ff)
Address: Broadcast (ff:ff:ff:ff:ff:ff)
```

```
administered address (this is NOT the factory default)
                                      .... = LG bit: Locally
                                      .... = IG bit: Group address (
    multicast/broadcast)

Source: Kye_25:13:65 (00:c0:df:25:13:65)

Address: Kye_25:13:65 (00:c0:df:25:13:65)

... .0. ... ... = LG bit: Globally unique address (factory default)

= TG bit: Individual address
         .... = IG bit: Individual address (unicast)
    Type: IP (0x0800)
Source
                                                   Destination
   Protocol Length Info
395 549.902538000 172.16.50.1
                                                   172.16.50.255
        ICMP
                 98
                          Echo (ping) request id=0x2dfb, seq=13/3328,
         ttl=64
Frame 395: 98 bytes on wire (784 bits), 98 bytes captured (784 bits
) on interface 0
Ethernet II, Src: Kye_25:13:65 (00:c0:df:25:13:65), Dst: Broadcast (ff:ff:ff:ff)
    Destination: Broadcast (ff:ff:ff:ff:ff:ff)
Address: Broadcast (ff:ff:ff:ff:ff:ff)
                                      .... = LG bit: Locally
             administered address (this is NOT the factory default)
                                     .... = IG bit: Group address (
         .... ...1 ...
    multicast/broadcast)
Source: Kye_25:13:65 (00:c0:df:25:13:65)
         Address: Kye_25:13:65 (00:c0:df:25:13:65)
.... ..0. .... = LG bit: Globally unique
           address (factory default)
             . ...0 .... = IG bit: Individual address (unicast)
    Type: IP (0x0800)
Internet Protocol Version 4, Src: 172.16.50.1 (172.16.50.1), Dst: 172.16.50.255 (172.16.50.255)
Internet Control Message Protocol
   Time Source
Protocol Length Info
396 550.902540000 172.16.50.1
ICMP 98 Echo (ping)
                                                   Destination
                                                   172.16.50.255
                          Echo (ping) request id=0x2dfb, seq=14/3584,
         tt1=64
Frame 396: 98 bytes on wire (784 bits), 98 bytes captured (784 bits
) on interface 0
Ethernet II, Src: Kye_25:13:65 (00:c0:df:25:13:65), Dst: Broadcast (ff:ff:ff:ff:ff:ff)
    \dots = IG bit: Group address (
            multicast/broadcast)
    Source: Kye_25:13:65 (00:c0:df:25:13:65)
         Address: Kye_25:13:65 (00:c0:df:25:13:65)
.... ..0. .... = LG bit: Globally unique
            address (factory default)
         .... = IG bit: Individual address (unicast)
    Type: IP (0x0800)
No. Time Source
Protocol Length Info
398 551.902558000 172.16.50.1
                                                   Destination
                                                   172.16.50.255
        ICMP
                 98
                          Echo (ping) request id=0x2dfb, seq=15/3840,
```

```
tt1=64
```

```
Frame 398: 98 bytes on wire (784 bits), 98 bytes captured (784 bits
    ) on interface 0
Ethernet II, Src: Kye_25:13:65 (00:c0:df:25:13:65), Dst: Broadcast
    (ff:ff:ff:ff:ff)
     Destination: Broadcast (ff:ff:ff:ff:ff:ff)
Address: Broadcast (ff:ff:ff:ff:ff:ff)
.... = LG bit: Locally
               administered address (this is NOT the factory default)
                   . . 1 . . .
                                            .... = IG bit: Group address (
              multicast/broadcast)
     Multicast/ Droadcast/
Source: Kye_25:13:65 (00:c0:df:25:13:65)
Address: Kye_25:13:65 (00:c0:df:25:13:65)
.... .0. .... = LG bit: Globally unique
              address (factory default)
           .... = IG bit: Individual address (unicast)
Type: IP (0x0800)
Internet Protocol Version 4, Src: 172.16.50.1 (172.16.50.1), Dst: 172.16.50.255 (172.16.50.255)
Internet Control Message Protocol
    Time Source
Protocol Length Info
399 552.902523000 172.16.50.1
                                                             Destination
                                                             172.16.50.255
                               Echo (ping) request
         ICMP
                     98
                                                           id=0x2dfb, seq=16/4096,
           ttl=64
Frame 399: 98 bytes on wire (784 bits), 98 bytes captured (784 bits
on interface 0

Ethernet II, Src: Kye_25:13:65 (00:c0:df:25:13:65), Dst: Broadcast (ff:ff:ff:ff:ff:ff)
     Destination: Broadcast (ff:ff:ff:ff:ff)
Address: Broadcast (ff:ff:ff:ff:ff:ff)
                 . . 1 .
                                              ... = LG bit: Locally
           administered address (this is NOT the factory default) .... = IG bit: Group address (
     address (factory default)
           .... = IG bit: Individual address (unicast)
     Type: IP (0x0800)
Internet Protocol Version 4, Src: 172.16.50.1 (172.16.50.1), Dst: 172.16.50.255 (172.16.50.255)
Internet Control Message Protocol
    Time Source
Protocol Length Info
401 553.903406000 172.16.50.1
Q8 Echo (ping)
                                                             Destination
                                                             172.16.50.255
                               Echo (ping) request
                                                           id=0x2dfb, seq=17/4352,
           tt1=64
Destination: Broadcast (ff:ff:ff:ff:ff)
Address: Broadcast (ff:ff:ff:ff:ff)
.... = LG bit: Locally
              administered address (this is NOT the factory default)
....1 .... = IG bit: Group address (
multicast/broadcast)
     Source: Kye_25:13:65 (00:c0:df:25:13:65)
Address: Kye_25:13:65 (00:c0:df:25:13:65)
.... .0. .... = LG bit: Globally unique address (factory default)

= TG bit: Individual addr
                                     .... = IG bit: Individual address
           .... (unicast)
     Type: IP (0x0800)
```

```
Internet Protocol Version 4, Src: 172.16.50.1 (172.16.50.1), Dst: 172.16.50.255 (172.16.50.255) Internet Control Message Protocol
                                                              Destination
           Time
                                Source
    Protocol Length Info
402 554.370928000 Cisco_3a:f6:0f
LOOP 60 Reply
                                                              Cisco_3a:f6:0f
                                Reply
Frame 402: 60 bytes on wire (480 bits), 60 bytes captured (480 bits) on interface 0

Ethernet II, Src: Cisco_3a:f6:0f (fc:fb:fb:3a:f6:0f), Dst: Cisco_3a:f6:0f (fc:fb:fb:3a:f6:0f)
     Destination: Cisco_3a:f6:0f (fc:fb:fb:3a:f6:0f)
Address: Cisco_3a:f6:0f (fc:fb:fb:3a:f6:0f)
... .0. ... = LG bit: Globally unique
               address (factory default)
               . ...0 .... = IG bit: Individual address (unicast)
     Source: Cisco_3a:f6:0f (fc:fb:fb:3a:f6:0f)
           Address: Cisco_3a:f6:0f (fc:fb:fb:3a:f6:0f)
.... .0. .... = LG bit: Globally unique
               address (factory default)
           .... (unicast)
                                      .... = IG bit: Individual address
Type: Loopback (0x9000)
Configuration Test Protocol (loopback)
Data (40 bytes)
0020 00 00 00 00 00 00 00
    Time
Protocol Length Info
403 554.902532000
                                                              Destination
                                Source
                                172.16.50.1
                                                               172.16.50.255
          ICMP
                      98
                               Echo (ping) request id=0x2dfb, seq=18/4608,
           tt1=64
Frame 403: 98 bytes on wife (.c. 2...)
) on interface 0
Ethernet II, Src: Kye_25:13:65 (00:c0:df:25:13:65), Dst: Broadcast (ff:ff:ff:ff:ff)
Destination: Broadcast (ff:ff:ff:ff:ff)
Address: Broadcast (ff:ff:ff:ff:ff)
.... = LG bit: Locally
Frame 403: 98 bytes on wire (784 bits), 98 bytes captured (784 bits
           .... ...1 ....
                                \dots = IG bit: Group address (
     multicast/broadcast)
Source: Kye_25:13:65 (00:c0:df:25:13:65)
           Address: Kye_25:13:65 (00:c0:df:25:13:65)
.... ..0. .... = LG bit: Globally unique
              address (factory default)
           .... = IG bit: Individual address (unicast)
     Type: IP (0x0800)
Internet Protocol Version 4, Src: 172.16.50.1 (172.16.50.1), Dst: 172.16.50.255 (172.16.50.255)
Internet Control Message Protocol
    Time Source
Protocol Length Info
405 555.902610000 172.16.50.1
                                                              Destination
                                                               172.16.50.255
          ICMP
                      98
                                Echo (ping) request id=0x2dfb, seq=19/4864,
           tt1=64
Frame 405: 98 bytes on wire (784 bits), 98 bytes captured (784 bits
) on interface 0
Ethernet II, Src: Kye_25:13:65 (00:c0:df:25:13:65), Dst: Broadcast (ff:ff:ff:ff:ff)
     Destination: Broadcast (ff:ff:ff:ff:ff:ff)
Address: Broadcast (ff:ff:ff:ff:ff:ff)
```

```
administered address (this is NOT the factory default)
                                      .... = LG bit: Locally
                                     .... = IG bit: Group address (
    multicast/broadcast)

Source: Kye_25:13:65 (00:c0:df:25:13:65)

Address: Kye_25:13:65 (00:c0:df:25:13:65)

... .0. ... ... = LG bit: Globally unique address (factory default)

= TG bit: Individual address
         .... = IG bit: Individual address (unicast)
    Type: IP (0x0800)
Source
                                                   Destination
   Protocol Length Info
406 556.902537000 172.16.50.1
                                                   172.16.50.255
        ICMP
                 98
                          Echo (ping) request id=0x2dfb, seq=20/5120,
         ttl=64
Frame 406: 98 bytes on wire (784 bits), 98 bytes captured (784 bits
) on interface 0
Ethernet II, Src: Kye_25:13:65 (00:c0:df:25:13:65), Dst: Broadcast (ff:ff:ff:ff)
    Destination: Broadcast (ff:ff:ff:ff:ff:ff)
Address: Broadcast (ff:ff:ff:ff:ff:ff)
                                      .... = LG bit: Locally
             administered address (this is NOT the factory default)
                                     .... = IG bit: Group address (
         .... ...1 ...
    multicast/broadcast)
Source: Kye_25:13:65 (00:c0:df:25:13:65)
         Address: Kye_25:13:65 (00:c0:df:25:13:65)
.... ..0. .... = LG bit: Globally unique
           address (factory default)
             . ...0 .... = IG bit: Individual address (unicast)
    Type: IP (0x0800)
Internet Protocol Version 4, Src: 172.16.50.1 (172.16.50.1), Dst: 172.16.50.255 (172.16.50.255)
Internet Control Message Protocol
   Time Source
Protocol Length Info
408 557.902598000 172.16.50.1
ICMP 98 Echo (ping)
                                                   Destination
                                                   172.16.50.255
                          Echo (ping) request id=0x2dfb, seq=21/5376,
         tt1=64
Frame 408: 98 bytes on wire (784 bits), 98 bytes captured (784 bits
) on interface 0
Ethernet II, Src: Kye_25:13:65 (00:c0:df:25:13:65), Dst: Broadcast (ff:ff:ff:ff:ff:ff)
    .... = IG bit: Group address (
            multicast/broadcast)
    Source: Kye_25:13:65 (00:c0:df:25:13:65)
         Address: Kye_25:13:65 (00:c0:df:25:13:65)
.... ..0. .... = LG bit: Globally unique
            address (factory default)
         .... = IG bit: Individual address (unicast)
    Type: IP (0x0800)
No. Time Source
Protocol Length Info
409 558.902520000 172.16.50.1
                                                   Destination
                                                   172.16.50.255
        ICMP
                 98
                          Echo (ping) request id=0x2dfb, seq=22/5632,
```

```
tt1=64
Frame 409: 98 bytes on wire (784 bits), 98 bytes captured (784 bits
    ) on interface 0
Ethernet II, Src: Kye_25:13:65 (00:c0:df:25:13:65), Dst: Broadcast
    (ff:ff:ff:ff:ff)
     Destination: Broadcast (ff:ff:ff:ff:ff:ff)
Address: Broadcast (ff:ff:ff:ff:ff:ff)
.... = LG bit: Locally
              administered address (this is NOT the factory default)
                   . . 1 . . .
                                           .... = IG bit: Group address (
              multicast/broadcast)
     Multicast/ Droadcast/
Source: Kye_25:13:65 (00:c0:df:25:13:65)
Address: Kye_25:13:65 (00:c0:df:25:13:65)
.... .0. .... = LG bit: Globally unique
              address (factory default)
           .... = IG bit: Individual address (unicast)
Type: IP (0x0800)
Internet Protocol Version 4, Src: 172.16.50.1 (172.16.50.1), Dst: 172.16.50.255 (172.16.50.255)
Internet Control Message Protocol
    Time Source
Protocol Length Info
411 559.902602000 172.16.50.1
                                                           Destination
                                                           172.16.50.255
                              Echo (ping) request
         ICMP
                     98
                                                          id=0x2dfb, seq=23/5888,
           ttl=64
Frame 411: 98 bytes on wire (784 bits), 98 bytes captured (784 bits
on interface 0

Ethernet II, Src: Kye_25:13:65 (00:c0:df:25:13:65), Dst: Broadcast (ff:ff:ff:ff:ff:ff)
     Destination: Broadcast (ff:ff:ff:ff:ff)
Address: Broadcast (ff:ff:ff:ff:ff:ff)
                 . . 1 .
                                             ... = LG bit: Locally
           administered address (this is NOT the factory default) .... = IG bit: Group address (
     address (factory default)
           .... = IG bit: Individual address (unicast)
     Type: IP (0x0800)
Internet Protocol Version 4, Src: 172.16.50.1 (172.16.50.1), Dst: 172.16.50.255 (172.16.50.255)
Internet Control Message Protocol
    Time Source
Protocol Length Info
412 560.902536000 172.16.50.1
CONTROL OR Echo (ping)
                                                           Destination
                                                           172.16.50.255
                              Echo (ping) request
                                                          id=0x2dfb, seq=24/6144,
           tt1=64
Frame 412: 98 bytes on wire (784 bits), 98 bytes captured (784 bits
on interface 0

Ethernet II, Src: Kye_25:13:65 (00:c0:df:25:13:65), Dst: Broadcast (ff:ff:ff:ff:ff:ff)
```

Destination: Broadcast (ff:ff:ff:ff:ff:ff)
 Address: Broadcast (ff:ff:ff:ff:ff:ff)
1. = LG bit: Locally
 administered address (this is NOT the factory default)
1. = IG bit: Group address (
 multicast/broadcast)

Source: Kye_25:13:65 (00:c0:df:25:13:65)
 Address: Kye_25:13:65 (00:c0:df:25:13:65)
0 = LG bit: Globally unique
 address (factory default)
0 = IG bit: Individual address
 (unicast)

Type: IP (0x0800)

```
Internet Protocol Version 4, Src: 172.16.50.1 (172.16.50.1), Dst: 172.16.50.255 (172.16.50.255) Internet Control Message Protocol
                                                         Destination
                             Source
    Protocol Length Info
414 561.902522000 172.16.50.1
                                                          172.16.50.255
         ICMP
                             Echo (ping) request
                                                        id=0x2dfb, seq=25/6400,
          ttl=64
Frame 414: 98 bytes on wire (784 bits), 98 bytes captured (784 bits
) on interface 0
Ethernet II, Src: Kye_25:13:65 (00:c0:df:25:13:65), Dst: Broadcast (ff:ff:ff:ff:ff:ff)
     Destination: Broadcast (ff:ff:ff:ff:ff)
Address: Broadcast (ff:ff:ff:ff:ff)
.... = LG bit: Locally
            .. ..1. .... .... = LG \bar{bit}: Locally administered address (this is NOT the factory default)
     multicast/broadcast)

Source: Kye_25:13:65 (00:c0:df:25:13:65)
          Address: Kye_25:13:65 (00:c0:df:25:13:65)
              . ..u. .... = LG bit: Globally unique address (factory default)
          .... = IG bit: Individual address (unicast)
     Type: IP (0x0800)
Internet Protocol Version 4, Src: 172.16.50.1 (172.16.50.1), Dst: 172.16.50.255 (172.16.50.255)
Internet Control Message Protocol
    Time
Protocol Length Info
415 562.902536000
                                                         Destination
                        Info
                             172.16.50.1
                                                         172.16.50.255
         ICMP
                   98
                            Echo (ping) request id=0x2dfb, seq=26/6656,
          tt1=64
Frame 415: 98 bytes on wire (784 bits), 98 bytes captured (784 bits
    ) on interface 0
multicast/broadcast)
Source: Kye_25:13:65 (00:c0:df:25:13:65)
Address: Kye_25:13:65 (00:c0:df:25:13:65)
... .00 ... ... ... = LG bit: G
                                          .... = IG bit: Group address (
          Type: IP (0x0800)
Internet Protocol Version 4, Src: 172.16.50.1 (172.16.50.1), Dst: 172.16.50.255 (172.16.50.255)
Internet Control Message Protocol
                                                         Destination
                             Source
    Protocol Length Info
417 563.902528000 172.16.50.1
                                                          172.16.50.255
         ICMP
                             Echo (ping) request id=0x2dfb, seq=27/6912,
          ttl=64
Frame 417: 98 bytes on wire (784 bits), 98 bytes captured (784 bits
) on interface 0
Ethernet II, Src: Kye_25:13:65 (00:c0:df:25:13:65), Dst: Broadcast (ff:ff:ff:ff:ff:ff)
     Destination: Broadcast (ff:ff:ff:ff:ff:ff)
Address: Broadcast (ff:ff:ff:ff:ff:ff:ff)
                                           ... = LG bit: Locally
              administered address (this is NOT the factory default)
```

```
\dots = IG bit: Group address (
           .... ...1 ....
     multicast/broadcast)
Source: Kye_25:13:65 (00:c0:df:25:13:65)
          Address: Kye_25:13:65 (00:c0:df:25:13:65)
.... = LG bit: Globally unique
             address (factory default)
           .... ...0 .... e IG bit: Individual address _(unicast)
     Type: IP (0x0800)
Internet Protocol Version 4, Src: 172.16.50.1 (172.16.50.1), Dst: 172.16.50.255 (172.16.50.255)
Internet Control Message Protocol
    Time Source
Protocol Length Info
418 564.378390000 Cisco_3a:f6:0f
LOOP 60 Reply
                                                            Destination
                                                            Cisco_3a:f6:0f
Frame 418: 60 bytes on wire (480 bits), 60 bytes captured (480 bits
) on interface 0
Ethernet II, Src: Cisco_3a:f6:0f (fc:fb:fb:3a:f6:0f), Dst: Cisco_3a:f6:0f (fc:fb:fb:3a:f6:0f)
     Destination: Cisco_3a:f6:Of (fc:fb:fb:3a:f6:Of)
Address: Cisco_3a:f6:Of (fc:fb:fb:3a:f6:Of)
.... ..0. .... ... ... ... = LG bit: Globally unique
              .. ..0. .... .... default)
                 ...0 .... = IG bit: Individual address
              (unicast)
     Source: Cisco_3a:f6:0f (fc:fb:fb:3a:f6:0f)
Address: Cisco_3a:f6:0f (fc:fb:fb:3a:f6:0f)
.... = LG bit: Globally unique
               address (factory default)
           .... = IG bit: Individual address (unicast)
Type: Loopback (0x9000)
Configuration Test Protocol (loopback)
Data (40 bytes)
0020 00 00 00 00 00 00 00
    Time Protocol Length Info 419 564.902537000
                                                            Destination
                              Source
                              172.16.50.1
                                                            172.16.50.255
         ICMP
                    98
                              Echo (ping) request id=0x2dfb, seq=28/7168,
Frame 419: 98 bytes on wire (784 bits), 98 bytes captured (784 bits
) on interface 0
Ethernet II, Src: Kye_25:13:65 (00:c0:df:25:13:65), Dst: Broadcast (ff:ff:ff:ff:ff:ff)
     ff:ff:ff:ff:ff:tf)
Destination: Broadcast (ff:ff:ff:ff:ff:ff)
   Address: Broadcast (ff:ff:ff:ff:ff:ff)
   1. .... = LG bit: Locally
             administered address (this is NOT the factory default)
           .... = IG bit: Group address (
multicast/broadcast)
     Source: Kye_25:13:65 (00:c0:df:25:13:65)
          Address: Kye_25:13:65 (00:c0:df:25:13:65)
.....0..... = LG bit: Globally unique address (factory default)
.....0 : .... = IG bit: Individual address
           (unicast)
Type: IP (0x0800)
Internet Protocol Version 4, Src: 172.16.50.1 (172.16.50.1), Dst: 172.16.50.255 (172.16.50.255)
Internet Control Message Protocol
    Time
Protocol Length Info
                                                            Destination
```

```
421 565.902537000 172.16.50.1
                                                              172.16.50.255
          ICMP
                      98
                                Echo (ping) request id=0x2dfb, seq=29/7424,
           ttl=64
Frame 421: 98 bytes on wire (784 bits), 98 bytes captured (784 bits
) on interface 0 Ethernet II, Src: Kye_25:13:65 (00:c0:df:25:13:65), Dst: Broadcast (ff:ff:ff:ff:ff)
     Destination: Broadcast (ff:ff:ff:ff:ff)
Address: Broadcast (ff:ff:ff:ff:ff)
.... ..1. .... .... = LG bit: Locally
               administered address (this is NOT the factory default)
              ....1 .... .... = IG bit: Group address ( multicast/broadcast)
     Source: Kye_25:13:65 (00:c0:df:25:13:65)
           Address: Kye_25:13:65 (00:c0:df:25:13:65)
... .0. ... = LG bit: Globally unique address (factory default)
           .... 0 .... = IG bit: Individual address (unicast)
     Type: IP (0x0800)
Internet Protocol Version 4, Src: 172.16.50.1 (172.16.50.1), Dst:
    172.16.50.255 (172.16.50.255)
Internet Control Message Protocol
    Time Source
Protocol Length Info
422 566.902521000 172.16.50.1
FORD 98 Echo (ping)
                                                              Destination
                                                              172.16.50.255
                                Echo (ping) request
                                                             id=0x2dfb, seq=30/7680,
           tt1=64
Frame 422: 98 bytes on wire (784 bits), 98 bytes captured (784 bits
) on interface 0
Ethernet II, Src: Kye_25:13:65 (00:c0:df:25:13:65), Dst: Broadcast (ff:ff:ff:ff:ff:ff)
     Destination: Broadcast (ff:ff:ff:ff:ff:ff)
Address: Broadcast (ff:ff:ff:ff:ff)
.....1........................ = LG bit: Locally
administered address (this is NOT the factory default)
                                             .... = IG bit: Group address (
                 . . . 1
     multicast/broadcast)
Source: Kye_25:13:65 (00:c0:df:25:13:65)
           Address: Kye_25:13:65 (00:c0:df:25:13:65)
.....0..... = LG bit: Globally unique address (factory default)
                 ...0 .... .... = IG bit: Individual address
               (unicast)
     Type: IP (0x0800)
Internet Protocol Version 4, Src: 172.16.50.1 (172.16.50.1), Dst: 172.16.50.255 (172.16.50.255)
Internet Control Message Protocol
    Time SProtocol Length Info 424 567.902521000 ICMP 98
                                                              Destination
                                172.16.50.1
                                                              172.16.50.255
                                Echo (ping) request id=0x2dfb, seq=31/7936,
           ttl=64
Frame 424: 98 bytes on wire (784 bits), 98 bytes captured (784 bits
) on interface 0 Ethernet II, Src: Kye_25:13:65 (00:c0:df:25:13:65), Dst: Broadcast (ff:ff:ff:ff)
     Destination: Broadcast (ff:ff:ff:ff:ff:ff)
Address: Broadcast (ff:ff:ff:ff:ff:ff)
.... = LG bit
           Source: Kye_25:13:65 (00:c0:df:25:13:65)
           Address: Kye_25:13:65 (00:c0:df:25:13:65)
.... = LG bit: Globally unique
               address (factory default)
```

```
.... 0 .... = IG bit: Individual address (unicast)
Type: IP (0x0800)
Internet Protocol Version 4, Src: 172.16.50.1 (172.16.50.1), Dst: 172.16.50.255 (172.16.50.255)
Internet Control Message Protocol
    Time
Protocol Length Info
425 568.902523000
                                                                        Destination
                                    172.16.50.1
                                                                        172.16.50.255
           ICMP
                         98
                                    Echo (ping) request
                                                                      id=0x2dfb, seq=32/8192,
             tt1=64
Frame 425: 98 bytes on wire (784 bits), 98 bytes captured (784 bits
) on interface 0
Ethernet II, Src: Kye_25:13:65 (00:c0:df:25:13:65), Dst: Broadcast (ff:ff:ff:ff:ff)
      Destination: Broadcast (ff:ff:ff:ff:ff)
Address: Broadcast (ff:ff:ff:ff:ff)
... = LG bit: Locally
                .. ..1. .... .... .... = LG bit: Locally administered address (this is NOT the factory default)
      ...1 ....
                                                    .... = IG bit: Group address (
Internet Protocol Version 4, Src: 172.16.50.1 (172.16.50.1), Dst: 172.16.50.255 (172.16.50.255)
Internet Control Message Protocol
            Time
                                                                        Destination
                                    Source
     Protocol Length Info
427 569.902559000 172.16.50.1
                                                                        172.16.50.255
           ICMP
                                    Echo (ping) request id=0x2dfb, seq=33/8448,
             ttl=64
Frame 427: 98 bytes on wire (784 bits), 98 bytes captured (784 bits
) on interface 0
Ethernet II, Src: Kye_25:13:65 (00:c0:df:25:13:65), Dst: Broadcast
     (ff:ff:ff:ff:ff)
      Destination: Broadcast (ff:ff:ff:ff:ff:ff)
Address: Broadcast (ff:ff:ff:ff:ff:ff)
.... 1. ... ... ... = LG bit
                                                            = LG bit: Locally
                 administered address (this is NOT the factory default)
. . . . . . . . . . . . . . . = IG bit: Group address (
             . . . . . . . . . . . . . . . .
      multicast/broadcast)

Source: Kye_25:13:65 (00:c0:df:25:13:65)

Address: Kye_25:13:65 (00:c0:df:25:13:65)

.... .0 .... = LG bit: Globally unique
                address (factory default)
Address (lactory default)
.... 0 .... = IG bit: Individual address (unicast)
Type: IP (0x0800)
Internet Protocol Version 4, Src: 172.16.50.1 (172.16.50.1), Dst: 172.16.50.255 (172.16.50.255)
Internet Control Message Protocol
    Time Source
Protocol Length Info
428 570.902523000 172.16.50.1
ICMP 98 Echo (ping)
                                                                        Destination
                                                                        172.16.50.255
                                     Echo (ping) request
                                                                      id=0x2dfb, seq=34/8704,
             tt1=64
Frame 428: 98 bytes on wire (784 bits), 98 bytes captured (784 bits) on interface 0
Ethernet II, Src: Kye_25:13:65 (00:c0:df:25:13:65), Dst: Broadcast (ff:ff:ff:ff:ff:ff)
      Destination: Broadcast (ff:ff:ff:ff:ff:ff)
Address: Broadcast (ff:ff:ff:ff:ff:ff)
```

```
administered address (this is NOT the factory default)
                                      .... = LG bit: Locally
                                      .... = IG bit: Group address (
    multicast/broadcast)

Source: Kye_25:13:65 (00:c0:df:25:13:65)

Address: Kye_25:13:65 (00:c0:df:25:13:65)

... .0. ... ... = LG bit: Globally unique address (factory default)

= TG bit: Individual address
         .... = IG bit: Individual address (unicast)
    Type: IP (0x0800)
Source
                                                   Destination
   Protocol Length Info
430 571.902539000 172.16.50.1
                                                   172.16.50.255
        ICMP
                  98
                          Echo (ping) request id=0x2dfb, seq=35/8960,
         ttl=64
Frame 430: 98 bytes on wire (784 bits), 98 bytes captured (784 bits
) on interface 0
Ethernet II, Src: Kye_25:13:65 (00:c0:df:25:13:65), Dst: Broadcast (ff:ff:ff:ff)
    Destination: Broadcast (ff:ff:ff:ff:ff:ff)
Address: Broadcast (ff:ff:ff:ff:ff:ff)
                                      .... = LG bit: Locally
             administered address (this is NOT the factory default)
                                     .... = IG bit: Group address (
         .... ...1 ...
    multicast/broadcast)
Source: Kye_25:13:65 (00:c0:df:25:13:65)
         Address: Kye_25:13:65 (00:c0:df:25:13:65)
.... ..0. .... = LG bit: Globally unique
           address (factory default)
             . ...0 .... = IG bit: Individual address (unicast)
    Type: IP (0x0800)
Internet Protocol Version 4, Src: 172.16.50.1 (172.16.50.1), Dst: 172.16.50.255 (172.16.50.255)
Internet Control Message Protocol
   Time Source
Protocol Length Info
431 572.902519000 172.16.50.1
ICMP 98 Echo (ping)
                                                   Destination
                                                   172.16.50.255
                          Echo (ping) request id=0x2dfb, seq=36/9216,
         tt1=64
Frame 431: 98 bytes on wire (784 bits), 98 bytes captured (784 bits
) on interface 0
Ethernet II, Src: Kye_25:13:65 (00:c0:df:25:13:65), Dst: Broadcast (ff:ff:ff:ff:ff:ff)
    \dots = IG bit: Group address (
            multicast/broadcast)
    Source: Kye_25:13:65 (00:c0:df:25:13:65)
         Address: Kye_25:13:65 (00:c0:df:25:13:65)
.... ..0. .... = LG bit: Globally unique
            address (factory default)
         .... = IG bit: Individual address (unicast)
    Type: IP (0x0800)
No. Time Source
Protocol Length Info
433 573.902523000 172.16.50.1
                                                   Destination
                                                   172.16.50.255
        ICMP
                 98
                          Echo (ping) request id=0x2dfb, seq=37/9472,
```

```
tt1=64
Frame 433: 98 bytes on wire (784 bits), 98 bytes captured (784 bits
    ) on interface 0
Ethernet II, Src: Kye_25:13:65 (00:c0:df:25:13:65), Dst: Broadcast
    (ff:ff:ff:ff:ff)
     Destination: Broadcast (ff:ff:ff:ff:ff:ff)
Address: Broadcast (ff:ff:ff:ff:ff:ff)
.... = LG bit: Locally
             administered address (this is NOT the factory default)
                  . . 1 . . .
                                        .... = IG bit: Group address (
             multicast/broadcast)
    Multicast/ Droadcast/
Source: Kye_25:13:65 (00:c0:df:25:13:65)
Address: Kye_25:13:65 (00:c0:df:25:13:65)
.... .0. .... = LG bit: Globally unique
             address (factory default)
          .... 0 .... = IG bit: Individual address (unicast)
Type: IP (0x0800)
Internet Protocol Version 4, Src: 172.16.50.1 (172.16.50.1), Dst: 172.16.50.255 (172.16.50.255)
Internet Control Message Protocol
    Time SProtocol Length Info 434 574.372247000 CLOOP 60
                                                        Destination
                            Cisco_3a:f6:0f
                                                       Cisco_3a:f6:0f
                            Reply
Frame 434: 60 bytes on wire (480 bits), 60 bytes captured (480 bits
. ..0. .... .... .... address (factory default)
    address (lactory default)
.....0 .... = IG bit: Individual address
(unicast)
Source: Cisco_3a:f6:0f (fc:fb:fb:3a:f6:0f)
Address: Cisco_3a:f6:0f (fc:fb:fb:3a:f6:0f)
.....0 .... = LG bit: Globally unique
address (factory default)

= IC bit: Individual address
              . ...0 .... = IG bit: Individual address (unicast)
Type: Loopback (0x9000)
Configuration Test Protocol (loopback)
Data (40 bytes)
0020 00 00 00 00 00 00 00
    Time Source
Protocol Length Info
435 574.902599000 172.16.50.1
                                                       Destination
                                                        172.16.50.255
                            Echo (ping) request id=0x2dfb, seq=38/9728,
          ttl=64
Frame 435: 98 bytes on wire (784 bits), 98 bytes captured (784 bits ) on interface 0 \,
Ethernet II, Src: Kye_25:13:65 (00:c0:df:25:13:65), Dst: Broadcast (ff:ff:ff:ff:ff)
```

multicast/broadcast)
Source: Kye_25:13:65 (00:c0:df:25:13:65)
Address: Kye_25:13:65 (00:c0:df:25:13:65)
.....0..... = LG bit: Globally unique

address (factory default)

.... ...1 = IG bit: Group address (

```
.... 0 .... = IG bit: Individual address (unicast)
Type: IP (0x0800)
Internet Protocol Version 4, Src: 172.16.50.1 (172.16.50.1), Dst: 172.16.50.255 (172.16.50.255)
Internet Control Message Protocol
    Time
Protocol Length Info
437 575.902537000
                                                        Destination
                            172.16.50.1
                                                        172.16.50.255
         ICMP
                   98
                            Echo (ping) request
                                                       id=0x2dfb, seq=39/9984,
          tt1=64
Frame 437: 98 bytes on wire (784 bits), 98 bytes captured (784 bits
             .. ..1. .... .... .... = LG bit: Locally administered address (this is NOT the factory default)
    ...1 ....
                                        .... = IG bit: Group address (
Internet Protocol Version 4, Src: 172.16.50.1 (172.16.50.1), Dst: 172.16.50.255 (172.16.50.255)
Internet Control Message Protocol
          Time
                                                        Destination
                            Source
    Protocol Length Info
438 576.902521000 172.16.50.1
ICMP 98 Echo (ping)
                                                        172.16.50.255
                            Echo (ping) request
                                                      id=0x2dfb, seq
         =40/10240, ttl=64
Frame 438: 98 bytes on wire (784 bits), 98 bytes captured (784 bits
) on interface 0
Ethernet II, Src: Kye_25:13:65 (00:c0:df:25:13:65), Dst: Broadcast (ff:ff:ff:ff:ff)
     Destination: Broadcast (ff:ff:ff:ff:ff)
Address: Broadcast (ff:ff:ff:ff:ff:ff)
.... = LG bit: Locally
              administered address (this is NOT the factory default)
                                         .... = IG bit: Group address (
          .... ...1 ....
             multicast/broadcast)
     Source: Kye_25:13:65 (00:c0:df:25:13:65)
    Address: Kye_25:13:65 (00:c0:df:25:13:65)
    .... ... ... = LG bit: Globally unique
             ....0. .... .... default)
          .... 0 .... = IG bit: Individual address (unicast)
     Type: IP (0x0800)
Time Source
Protocol Length Info
440 577.902535000 172.16.50.1
ICMP 98 Echo (ping) request
                                                        Destination
                                                        172.16.50.255
                                                      id=0x2dfb, seq
         =41/10496, ttl=64
Frame 440: 98 bytes on wire (784 bits), 98 bytes captured (784 bits) on interface 0

Ethernet II, Src: Kye_25:13:65 (00:c0:df:25:13:65), Dst: Broadcast (ff:ff:ff:ff:ff)
     Destination: Broadcast (ff:ff:ff:ff:ff)
          Address: Broadcast (ff:ff:ff:ff:ff)
```

```
administered address (this is NOT the factory default)
                                               .... = LG bit: Locally
                                               .... = IG bit: Group address (
               multicast/broadcast)
     Source: Kye_25:13:65 (00:c0:df:25:13:65)
Address: Kye_25:13:65 (00:c0:df:25:13:65)
.... .0. ... = LG bit: Globally unique address (factory default)

= TG bit: Individual address
            .... = IG bit: Individual address (unicast)
      Type: IP (0x0800)
Time Source
Protocol Length Info
441 578.902520000 172.16.50.1 172.16.50.255
98 Echo (ping) request id=0x2dfb, seq
Frame 441: 98 bytes on wire (784 bits), 98 bytes captured (784 bits
) on interface 0 Ethernet II, Src: Kye_25:13:65 (00:c0:df:25:13:65), Dst: Broadcast (ff:ff:ff:ff:ff)
      Destination: Broadcast (ff:ff:ff:ff:ff)
Address: Broadcast (ff:ff:ff:ff:ff)
.... ..1. .... .... = LG bit: Locally
                administered address (this is NOT the factory default)
                                              .... = IG bit: Group address (
     .... 1 .... = IG b

multicast/broadcast)

Source: Kye_25:13:65 (00:c0:df:25:13:65)
            .... ....1 ....
           Address: Kye_25:13:65 (00:c0:df:25:13:65)
.... .0. ... . ... = LG bit: Globally unique
              address (factory default)
            .... 0 .... = IG bit: Individual address (unicast)
Type: IP (0x0800)
Internet Protocol Version 4, Src: 172.16.50.1 (172.16.50.1), Dst: 172.16.50.255 (172.16.50.255)
Internet Control Message Protocol
    Time Source
Protocol Length Info
443 579.902541000 172.16.50.1
ICMP 98 Echo (ping) request
                                                                Destination
                                                                172.16.50.255
                                                               id=0x2dfb, seq
          =43/11008, ttl=64
Frame 443: 98 bytes on wire (784 bits), 98 bytes captured (784 bits
) on interface 0
Ethernet II, Src: Kye_25:13:65 (00:c0:df:25:13:65), Dst: Broadcast
     (ff:ff:ff:ff:ff)
      Destination: Broadcast (ff:ff:ff:ff:ff)
Address: Broadcast (ff:ff:ff:ff:ff)
.... ..1. .... .... = LG bit: Locally
               administered address (this is NOT the factory default)
....1 .... = IG bit: Group address (
     multicast/broadcast)
Source: Kye_25:13:65 (00:c0:df:25:13:65)
           Address: Kye_25:13:65 (00:c0:df:25:13:65)
.... .0. .... = LG bit: Globally unique address (factory default)
     .....0 .... = IG bit: Individual address (unicast)
Type: IP (0x0800)
Internet Protocol Version 4, Src: 172.16.50.1 (172.16.50.1), Dst: 172.16.50.255 (172.16.50.255)
Internet Control Message Protocol
    Time Source
Protocol Length Info
444 580.902521000 172.16.50.1
                                                                Destination
                                                                172.16.50.255
          ICMP
                      98
                                 Echo (ping) request id=0x2dfb, seq
```

```
=44/11264, ttl=64
Frame 444: 98 bytes on wire (784 bits), 98 bytes captured (784 bits
    ) on interface 0
Ethernet II, Src: Kye_25:13:65 (00:c0:df:25:13:65), Dst: Broadcast (ff:ff:ff:ff:ff)
     Destination: Broadcast (ff:ff:ff:ff:ff:ff)
Address: Broadcast (ff:ff:ff:ff:ff:ff)
.... = LG bit: Locally
             administered address (this is NOT the factory default)
                 . . . 1 . . . .
                                        .... = IG bit: Group address (
    multicast/broadcast)
Source: Kye_25:13:65 (00:c0:df:25:13:65)
Address: Kye_25:13:65 (00:c0:df:25:13:65)
.... = LG bit: Globally unique
             address (factory default)
          .... 0 .... = IG bit: Individual address (unicast)
Type: IP (0x0800)
Internet Protocol Version 4, Src: 172.16.50.1 (172.16.50.1), Dst: 172.16.50.255 (172.16.50.255)
Internet Control Message Protocol
   Time
Protocol Length Info
446 581.902537000 172.16.50.1
TOMP 98 Echo (ping) request
                                                        Destination
                                                        172.16.50.255
                                                       id=0x2dfb, seq
Frame 446: 98 bytes on wire (784 bits), 98 bytes captured (784 bits
) on interface 0
Ethernet II, Src: Kye_25:13:65 (00:c0:df:25:13:65), Dst: Broadcast (ff:ff:ff:ff:ff)
     Destination: Broadcast (ff:ff:ff:ff:ff:ff)
Address: Broadcast (ff:ff:ff:ff:ff:ff)
                                           ... = LG bit: Locally
              administered address (this is NOT the factory default)
. . . . . . . . . . . . . . . = IG bit: Group address (
    address (factory default)
          .... = IG bit: Individual address (unicast)
Type: IP (0x0800)
Internet Protocol Version 4, Src: 172.16.50.1 (172.16.50.1), Dst: 172.16.50.255 (172.16.50.255)
Internet Control Message Protocol
    Time Source
Protocol Length Info
447 582.902511000 172.16.50.1
ICMP 98 Echo (ping) request
                                                        Destination
                                                        172.16.50.255
                                                       id=0x2dfb, seq
         =46/11776, ttl=64
Frame 447: 98 bytes on wire (784 bits), 98 bytes captured (784 bits
) on interface 0
Ethernet II, Src: Kye_25:13:65 (00:c0:df:25:13:65), Dst: Broadcast (ff:ff:ff:ff:ff)
     address (factory default)
          .... = IG bit: Individual address (unicast)
```

```
Type: IP (0x0800)
Internet Protocol Version 4, Src: 172.16.50.1 (172.16.50.1), Dst: 172.16.50.255 (172.16.50.255)
Internet Control Message Protocol
    Time
Protocol Length Info
449 583.902525000 172.16.50.1
TCMP 98 Echo (ping)
                                                         Destination
                                                         172.16.50.255
                             Echo (ping) request
                                                       id=0x2dfb, seq
         =47/12032, ttl=64
Frame 449: 98 bytes on wire (784 bits), 98 bytes captured (784 bits
Frame 449: 98 bytes on wile (... 2-1)
) on interface 0
Ethernet II, Src: Kye_25:13:65 (00:c0:df:25:13:65), Dst: Broadcast (ff:ff:ff:ff:ff)
Destination: Broadcast (ff:ff:ff:ff:ff)
Address: Broadcast (ff:ff:ff:ff:ff)
.....1...... = LG bit: Locally
              administered address (this is NOT the factory default)
                                   .... = IG bit: Group address (
                ...1 ....
     multicast/broadcast)
Source: Kye_25:13:65 (00:c0:df:25:13:65)
          Address: Kye_25:13:65 (00:c0:df:25:13:65)
                . . 0 .
                                             . = LG bit: Globally unique
             address (factory default)
          .... = IG bit: Individual address (unicast)
     Type: IP (0x0800)
Internet Protocol Version 4, Src: 172.16.50.1 (172.16.50.1), Dst: 172.16.50.255 (172.16.50.255)
Internet Control Message Protocol
    Time Source
Protocol Length Info
450 584.379638000 Cisco_3a:f6:0f
                                                         Destination
                                                         Cisco_3a:f6:0f
         LOOP
                    60
                             Reply
Frame 450: 60 bytes on wire (480 bits), 60 bytes captured (480 bits
address (factory default)
                         ... .... .... = IG bit: Individual address
              (unicast)
     Source: Cisco_3a:f6:0f (fc:fb:fb:3a:f6:0f)
Address: Cisco_3a:f6:0f (fc:fb:fb:3a:f6:0f)
.....0..... = LG bit: Globally unique
address (factory default)
              . ...0 .... .... = IG bit: Individual address (unicast)
Type: Loopback (0x9000)
Configuration Test Protocol (loopback)
Data (40 bytes)
0020 00 00 00 00 00 00 00 00
    Time
Protocol Length Info
451 584.902578000 172.16.50.1
TCMP 98 Echo (ping)
                                                         Destination
                                                         172.16.50.255
                             Echo (ping) request id=0x2dfb, seq
Frame 451: 98 bytes on wire (784 bits), 98 bytes captured (784 bits
) on interface 0
Ethernet II, Src: Kye_25:13:65 (00:c0:df:25:13:65), Dst: Broadcast (ff:ff:ff:ff)
     Destination: Broadcast (ff:ff:ff:ff:ff)
```

```
Address: Broadcast (ff:ff:ff:ff:ff)
... .1. ... ... = LG bit: Locally
administered address (this is NOT the factory default)
            .... 1 .... = IG bit: Group address (
multicast/broadcast)
      Source: Kye_25:13:65 (00:c0:df:25:13:65)
            Address: Kye_25:13:65 (00:c0:df:25:13:65)
.... = LG bit: Globally unique
               address (factory default)
            .... 0 .... = IG bit: Individual address (unicast)
Type: IP (0x0800)
Internet Protocol Version 4, Src: 172.16.50.1 (172.16.50.1), Dst: 172.16.50.255 (172.16.50.255)
Internet Control Message Protocol
    Time Source Destination
Protocol Length Info
453 585.902510000 172.16.50.1 172.16.50.255
ICMP 98 Echo (ping) request id=0x2dfb, seq
           =49/12544, ttl=64
Frame 453: 98 bytes on wire (784 bits), 98 bytes captured (784 bits
) on interface 0
Ethernet II, Src: Kye_25:13:65 (00:c0:df:25:13:65), Dst: Broadcast (ff:ff:ff:ff:ff:ff)
      Destination: Broadcast (ff:ff:ff:ff:ff)
Address: Broadcast (ff:ff:ff:ff:ff:ff)
.... = LG bit: Locally
            administered address (this is NOT the factory default)
....1 .... = IG bit: Group address (
multicast/broadcast)
      Source: Kye_25:13:65 (00:c0:df:25:13:65)
               ....0. .... .... = LG bit: Globally unique address (factory default)
            Address: Kye_25:13:65 (00:c0:df:25:13:65)
            .... = IG bit: Individual address (unicast)
Type: IP (0x0800)
Internet Protocol Version 4, Src: 172.16.50.1 (172.16.50.1), Dst: 172.16.50.255 (172.16.50.255)
Internet Control Message Protocol
    Time Source Destination
Protocol Length Info
454 586.590655000 Cisco_3a:f6:0f CDP/VTP/DTP/PAgP/UDLD
CDP 436 Device ID: tux-sw5 Port ID: FastEthernet0
          /13
Frame 454: 436 bytes on wire (3488 bits), 436 bytes captured (3488
bits) on interface 0 IEEE 802.3 Ethernet Logical-Link Control
Cisco Discovery Protocol
    Time Source
Protocol Length Info
455 586.902561000 172.16.50.1 172.16.50.255
TCMP 98 Echo (ping) request id=0x2dfb, seq
Frame 455: 98 bytes on wire (784 bits), 98 bytes captured (784 bits
) on interface 0 Ethernet II, Src: Kye_25:13:65 (00:c0:df:25:13:65), Dst: Broadcast (ff:ff:ff:ff)
      Destination: Broadcast (ff:ff:ff:ff:ff)
Address: Broadcast (ff:ff:ff:ff:ff:ff)
.... ..1. .... = LG bit: Locally
               administered address (this is NOT the factory default)
            .... = IG bit: Group address (
multicast/broadcast)
      Source: Kye_25:13:65 (00:c0:df:25:13:65)
            Address: Kye_25:13:65 (00:c0:df:25:13:65)
```

```
..... = LG bit: Globally unique address (factory default)
           .... (unicast)
                              .... .... = IG bit: Individual address
     Type: IP (0x0800)
Internet Protocol Version 4, Src: 172.16.50.1 (172.16.50.1), Dst: 172.16.50.255 (172.16.50.255)
Internet Control Message Protocol
    Time Source
Protocol Length Info
457 587.902540000 172.16.50.1
ICMP 98 Echo (ping) request
                                                           Destination
                                                           172.16.50.255
                                                          id=0x2dfb, seq
         =51/13056, ttl=64
Frame 457: 98 bytes on wire (784 bits), 98 bytes captured (784 bits
) on interface 0
Ethernet II, Src: Kye_25:13:65 (00:c0:df:25:13:65), Dst: Broadcast
    (ff:ff:ff:ff:ff)
     Destination: Broadcast (ff:ff:ff:ff:ff)
Address: Broadcast (ff:ff:ff:ff:ff)
.... .1. .... .... = LG bit: Locally
             .. ..1. .... .... = LG bit: Locally administered address (this is NOT the factory default)
           .... 1 .... = IG bit: Group address (
multicast/broadcast)
     Source: Kye_25:13:65 (00:c0:df:25:13:65)
          Address: Kye_25:13:65 (00:c0:df:25:13:65)
                                           .... = LG bit: Globally unique
           .... 0 .... = IG bit: Individual address (unicast)
Type: IP (0x0800)
Internet Protocol Version 4, Src: 172.16.50.1 (172.16.50.1), Dst: 172.16.50.255 (172.16.50.255)
Internet Control Message Protocol
    Time Source
Protocol Length Info
458 588.902521000 172.16.50.1 172.16.50.200
ICMP 98 Echo (ping) request id=0x2dfb, seq
Frame 458: 98 bytes on wire (784 bits), 98 bytes captured (784 bits
) on interface 0
Ethernet II, Src: Kye_25:13:65 (00:c0:df:25:13:65), Dst: Broadcast
    (ff:ff:ff:ff:ff)
     Destination: Broadcast (ff:ff:ff:ff:ff)
Address: Broadcast (ff:ff:ff:ff:ff)
.... = LG bit: Locally
             administered address (this is NOT the factory default)
                ...1 ....
                                           .... = IG bit: Group address (
              multicast/broadcast)
     Source: Kye_25:13:65 (00:c0:df:25:13:65)
          Address: Kye_25:13:65 (00:c0:df:25:13:65)
                              .... = LG bit: Globally unique
           .... ..0. ....
             address (factory default)
           .... = IG bit: Individual address (unicast)
     Type: IP (0x0800)
Internet Protocol Version 4, Src: 172.16.50.1 (172.16.50.1), Dst: 172.16.50.255 (172.16.50.255)
Internet Control Message Protocol
    Time Source
Protocol Length Info
460 589.902550000 172.16.50.1
ICMP 98 Echo (ping)
                                                           Destination
                                                           172.16.50.255
                              Echo (ping) request id=0x2dfb, seq
         =53/13568, ttl=64
Frame 460: 98 bytes on wire (784 bits), 98 bytes captured (784 bits
) on interface 0
Ethernet II, Src: Kye_25:13:65 (00:c0:df:25:13:65), Dst: Broadcast
    (ff:ff:ff:ff:ff)
```

```
Destination: Broadcast (ff:ff:ff:ff:ff:ff)
   Address: Broadcast (ff:ff:ff:ff:ff:ff)
   .... ..1. .... .... = LG bit: Locally
                  . ..1. .... .... = LG bit: Locally administered address (this is NOT the factory default)
                ....1 .... = IG bit: Group address (
multicast/broadcast)
             .... ...1 ...
      Source: Kye_25:13:65 (00:c0:df:25:13:65)
Address: Kye_25:13:65 (00:c0:df:25:13:65)
.... .0. .... = LG bit: Globally unique address (factory default)

= TG bit: Individual addr
             .... o .... = IG bit: Individual address (unicast)
      Type: IP (0x0800)
Time Source
Protocol Length Info
461 590.902543000 172.16.50.1
ICMP 98 Echo (ping)
                                                                       Destination
                                                                       172.16.50.255
                                    Echo (ping) request
                                                                     id=0x2dfb, seq
            =54/13824, ttl=64
Frame 461: 98 bytes on wire (784 bits), 98 bytes captured (784 bits
) on interface 0
Ethernet II, Src: Kye_25:13:65 (00:c0:df:25:13:65), Dst: Broadcast (ff:ff:ff:ff:ff)
      Destination: Broadcast (ff:ff:ff:ff:ff)
Address: Broadcast (ff:ff:ff:ff:ff)
.... ..1. .... .... = LG bit: Locally
                administered address (this is NOT the factory default)
....1 .... = IG bit: Group address (
      multicast/broadcast)
Source: Kye_25:13:65 (00:c0:df:25:13:65)
Address: Kye_25:13:65 (00:c0:df:25:13:65)
.... 0. .... = LG bit: Globally unique
                .. ..0. .... .... default)
             .... 0 .... ueraurt)
.... = IG bit: Individual address
_(unicast)
Type: IP (0x0800)
Internet Protocol Version 4, Src: 172.16.50.1 (172.16.50.1), Dst: 172.16.50.255 (172.16.50.255)
Internet Control Message Protocol
     Time Source
Protocol Length Info
464 594.387012000 Cisco_3a:f6:0f
LOOP 60 Reply
                                                                       Destination
                                                                       Cisco_3a:f6:0f
Frame 464: 60 bytes on wire (+00 bits), ...
) on interface 0
Ethernet II, Src: Cisco_3a:f6:0f (fc:fb:fb:3a:f6:0f), Dst: Cisco_3a:f6:0f (fc:fb:fb:3a:f6:0f)
Destination: Cisco_3a:f6:0f (fc:fb:fb:3a:f6:0f)
Address: Cisco_3a:f6:0f (fc:fb:fb:3a:f6:0f)
.....0....... = LG bit: Globally unique address (factory default)

0 .... = IG bit: Individual address
Frame 464: 60 bytes on wire (480 bits), 60 bytes captured (480 bits
      Source: Cisco_3a:f6:0f (fc:fb:fb:3a:f6:0f)
Address: Cisco_3a:f6:0f (fc:fb:fb:fb:3a:f6:0f)
.... = LG bit: Globally unique
                 address (factory default)
                                            .... = IG bit: Individual address
                     ...0
                  (unicast)
Type: Loopback (0x9000)
Configuration Test Protocol (loopback)
Data (40 bytes)
0020 00 00 00 00 00 00 00 00
```

```
Time SProtocol Length Info 470 604.394391000 CLOOP 60
                      Source
                                           Destination
                      Cisco_3a:f6:0f
                                           Cisco_3a:f6:0f
                      Reply
Frame 470: 60 bytes on wire (480 bits), 60 bytes captured (480 bits
on interface 0

Ethernet II, Src: Cisco_3a:f6:0f (fc:fb:fb:3a:f6:0f), Dst: Cisco_3a:f6:0f (fc:fb:fb:3a:f6:0f)
   Destination: Cisco_3a:f6:0f (fc:fb:fb:3a:f6:0f)
Address: Cisco_3a:f6:0f (fc:fb:fb:3a:f6:0f)
.... .0. ... ... = LG bit: Globally unique
address (factory default)
          ....0 .... .... = IG bit: Individual address (unicast)
    .... = LG bit: Globally unique
          address (factory default)
        .... = IG bit: Individual address (unicast)
    Type: Loopback (0x9000)
Configuration Test Protocol (loopback)
Data (40 bytes)
0020 00 00 00 00 00 00 00
   Time Source
Protocol Length Info
476 614.393386000 Cisco_3a:f6:0f
                                           Destination
                                           Cisco_3a:f6:0f
Frame 476: 60 bytes on wire (480 bits), 60 bytes captured (480 bits
....0. .... .... .... default)
          ....0 .... = IG bit: Individual address (unicast)
   Source: Cisco_3a:f6:0f (fc:fb:fb:3a:f6:0f)
Address: Cisco_3a:f6:0f (fc:fb:fb:3a:f6:0f)
.... .0. .... = LG bit: Globally unique
address (factory default)
             ...0 .... = IG bit: Individual address
           (unicast)
Type: Loopback (0x9000)
Configuration Test Protocol (loopback)
Data (40 bytes)
0020 00 00 00 00 00 00 00
   Time Protocol Length Info 482 624.400887000 (LOOP 60
                                           Destination
                      Source
                      Cisco_3a:f6:0f
                                           Cisco_3a:f6:0f
                      Reply
Frame 482: 60 bytes on wire (480 bits), 60 bytes captured (480 bits
address (factory default)
```

```
.....0 .... = IG bit: Individual address (unicast)

Source: Cisco_3a:f6:0f (fc:fb:fb:3a:f6:0f)
Address: Cisco_3a:f6:0f (fc:fb:fb:3a:f6:0f)
.....0 .... = LG bit: Globally unique
            address (factory default)
                                     .... = IG bit: Individual address
                ...0 .... ....
(unicast)
Type: Loopback (0x9000)
Configuration Test Protocol (loopback)
Data (40 bytes)
0020 00 00 00 00 00 00 00
   Time Source
Protocol Length Info
488 634.404940000 Cisco
LOOP 60 Reply
                                                    Destination
                          Source
                          Cisco_3a:f6:0f
                                                    Cisco_3a:f6:0f
Frame 488: 60 bytes on wire (480 bits), 60 bytes captured (480 bits) on interface 0

Ethernet II, Src: Cisco_3a:f6:0f (fc:fb:fb:3a:f6:0f), Dst: Cisco_3a:f6:0f (fc:fb:fb:3a:f6:0f)
    Destination: Cisco_3a:f6:0f (fc:fb:fb:3a:f6:0f)
Address: Cisco_3a:f6:0f (fc:fb:fb:3a:f6:0f)
.... LG bit: Globally unique
            address (factory default)
....0 .... = IG bit: Grobally unique
(unicast)
    Source: Cisco_3a:f6:0f (fc:fb:fb:3a:f6:0f)
Address: Cisco_3a:f6:0f (fc:fb:fb:3a:f6:0f)
.....0..... = LG bit: Globally unique
            address (factory default)
         .... = IG bit: Individual address (unicast)
Type: Loopback (0x9000)
Configuration Test Protocol (loopback)
Data (40 bytes)
0020 00 00 00 00 00 00 00 00
   Time Source
Protocol Length Info
494 644.407147000 Cisco_3a:f6:0f
LOOP 60 Reply
                                                    Destination
                                                    Cisco_3a:f6:0f
Frame 494: 60 bytes on wire (480 bits), 60 bytes captured (480 bits
.. ..0. .... .... default)
         .... = IG bit: Individual address (unicast)
    Source: Cisco_3a:f6:0f (fc:fb:fb:3a:f6:0f)
         Address: Cisco_3a:f6:Of (fc:fb:fb:3a:f6:Of)
.....O..... = LG bit: Globally unique
address (factory default)
            ....0 .... = IG bit: Individual address (unicast)
Type: Loopback (0x9000)
Configuration Test Protocol (loopback)
Data (40 bytes)
```

```
0020 00 00 00 00 00 00 00 00
    Time Source
Protocol Length Info
496 646.606944000 Cisco_3a:f6:0f
                                                      Destination
                                                      CDP/VTP/DTP/PAgP/UDLD
        CDP
                   436
                            Device ID: tux-sw5 Port ID: FastEthernet0
        /13
Frame 496: 436 bytes on wire (3488 bits), 436 bytes captured (3488
bits) on interface 0
IEEE 802.3 Ethernet
Logical-Link Control
Cišco Discovery Protocol
    Time Source Protocol Length Info 501 654.414527000 Cisco_3a:f6:0f L00P 60 Reply
                                                      Destination
                                                      Cisco_3a:f6:0f
Frame 501: 60 bytes on wire (480 bits), 60 bytes captured (480 bits
address (factory default)
            ....0 .... = IG bit: Individual address (unicast)
    Source: Cisco_3a:f6:0f (fc:fb:fb:3a:f6:0f)
Address: Cisco_3a:f6:0f (fc:fb:fb:3a:f6:0f)
.... .0. .... = LG bit: Globally unique
address (factory default)

= TG bit: Individual addr
          .... = IG bit: Individual address (unicast)
Type: Loopback (0x9000)
Configuration Test Protocol (loopback)
Data (40 bytes)
0020 00 00 00 00 00 00 00 00
                                                                    . . . . . . . .
          Time
                                                      Destination
                           Source
    Protocol Length Info
507 664.421895000 Cisco_3a:f6:0f
LOOP 60 Reply
                                                      Cisco_3a:f6:0f
Frame 507: 60 bytes on wire (480 bits), 60 bytes captured (480 bits
Frame 507: 60 bytes on wire (400 bits), 65 bytes on interface 0

Ethernet II, Src: Cisco_3a:f6:0f (fc:fb:fb:3a:f6:0f), Dst: Cisco_3a:f6:0f (fc:fb:fb:3a:f6:0f)

Destination: Cisco_3a:f6:0f (fc:fb:fb:3a:f6:0f)

Address: Cisco_3a:f6:0f (fc:fb:fb:3a:f6:0f)

....... = LG bit: Globally unique
             address (factory default)
    .....0 ..... = IG bit: Individual address (unicast)

Source: Cisco_3a:f6:0f (fc:fb:fb:3a:f6:0f)

Address: Cisco_3a:f6:0f (fc:fb:fb:3a:f6:0f)

.....0 .... = LG bit: Globally unique
             address (factory default)
                ...0 .... = IG bit: Individual address
              (unicast)
Type: Loopback (0x9000)
Configuration Test Protocol (loopback)
Data (40 bytes)
```

```
0020 00 00 00 00 00 00 00 00
   Time S
Protocol Length Info
513 674.420882000 C
LOOP 60 H
                                                      Destination
                           Source
                           Cisco_3a:f6:0f
                                                      Cisco_3a:f6:0f
                           Reply
Frame 513: 60 bytes on wire (480 bits), 60 bytes captured (480 bits
on interface 0

Ethernet II, Src: Cisco_3a:f6:0f (fc:fb:fb:3a:f6:0f), Dst: Cisco_3a:f6:0f (fc:fb:fb:3a:f6:0f)
    .... ..0. .... = LG bit: Globally unique address (factory default) = IG bit: Individual address
             (unicast)
    Source: Cisco_3a:f6:0f (fc:fb:fb:3a:f6:0f)
Address: Cisco_3a:f6:0f (fc:fb:fb:3a:f6:0f)
.... .0. .... = LG bit: Globally unique
             address (factory default)
          .... = IG bit: Individual address (unicast)
Type: Loopback (0x9000)
Configuration Test Protocol (loopback)
Data (40 bytes)
0020 00 00 00 00 00 00 00
   Time
Protocol Length Info
519 684.428253000
LOOP 60
                           Source
                                                      Destination
                           Cisco_3a:f6:0f
                                                      Cisco_3a:f6:0f
                           Reply
Frame 519: 60 bytes on wire (480 bits), 60 bytes captured (480 bits
) on interface 0
Ethernet II, Src: Cisco_3a:f6:0f (fc:fb:fb:3a:f6:0f), Dst: Cisco_3a:f6:0f (fc:fb:fb:3a:f6:0f)
    Destination: Cisco_3a:f6:Of (fc:fb:fb:3a:f6:Of)
Address: Cisco_3a:f6:Of (fc:fb:fb:3a:f6:Of)
.....O....... = LG bit: Globally unique
address (factory default)
          .... = IG bit: Individual address (unicast)
    Source: Cisco_3a:f6:0f (fc:fb:fb:3a:f6:0f)
Address: Cisco_3a:f6:0f (fc:fb:fb:3a:f6:0f)
.....0..... = LG bit: Globally unique
address (factory default)
          .... = IG bit: Individual address (unicast)
Type: Loopback (0x9000)
Configuration Test Protocol (loopback)
Data (40 bytes)
0020 00 00 00 00 00 00 00 00
   Time Source
Protocol Length Info
525 694.435654000 Cisco_3a:f6:0f
                                                      Destination
                                                      Cisco 3a:f6:0f
Frame 525: 60 bytes on wire (480 bits), 60 bytes captured (480 bits
) on interface 0
Ethernet II, Src: Cisco_3a:f6:0f (fc:fb:fb:3a:f6:0f), Dst: Cisco_3a:f6:0f (fc:fb:fb:3a:f6:0f)
    Destination: Cisco_3a:f6:0f (fc:fb:fb:3a:f6:0f)
Address: Cisco_3a:f6:0f (fc:fb:fb:3a:f6:0f)
```

```
....0. .... = LG bit: Globally unique address (factory default)
             address (factory default)
                             .... = IG bit: Individual address (unicast)
Type: Loopback (0x9000)
Configuration Test Protocol (loopback)
Data (40 bytes)
0010 \\ \hline{)} \\ \\ \hline{)} \\ \hline{]} \\ \hline{]} \\ \hline{]} \\ \hline{]} \\ \hline{] \\ \hline{]} \\
0020 00 00 00 00 00 00 00
          Time
Protocol Length Info
531 704.443161000 (
LOOP 60
                                                                                                                                                            Destination
                                                                               Cisco_3a:f6:0f
                                                                                                                                                            Cisco_3a:f6:0f
                                                                               Reply
Frame 531: 60 bytes on wire (480 bits), 60 bytes captured (480 bits
) on interface 0
Ethernet II, Src: Cisco_3a:f6:0f (fc:fb:fb:3a:f6:0f), Dst: Cisco_3a:f6:0f (fc:fb:fb:3a:f6:0f)
              Destination: Cisco_3a:f6:0f (fc:fb:fb:3a:f6:0f)
Address: Cisco_3a:f6:0f (fc:fb:fb:3a:f6:0f)
.... .0. .... = LG bit: Globally unique
                                       address (factory default)
                                      . . . . 0 . . . . . . . . . . . = IG bit: Individual address (unicast)
              Source: Cisco_3a:f6:0f (fc:fb:fb:3a:f6:0f)
                            Address: Cisco_3a:f6:0f (fc:fb:fb:3a:f6:0f)
.... = LG bit: Globally unique
                                      address (factory default)
                                                                                                .... = IG bit: Individual address
                             .... (unicast)
              Type: Loopback (0x9000)
Configuration Test Protocol (loopback) Data (40 bytes)
0020 00 00 00 00 00 00 00
                           Time
                                                                                                                                                            Destination
                                                                               Source
           Protocol Length Info
              533 706.606991000 Cisco_3a:f6:Of CDP/VTP/DTP/PAgP/UDLIC CDP 436 Device ID: tux-sw5 Port ID: FastEthernet0
                                                                                                                                                            CDP/VTP/DTP/PAgP/UDLD
                         /13
Frame 533: 436 bytes on wire (3488 bits), 436 bytes captured (3488
bits) on interface 0
IEEE 802.3 Ethernet
Logical-Link Control
Cisco Discovery Protocol
           Time Source
Protocol Length Info
538 714.447327000 Cisco_3a:f6:0f
LOOP 60 Reply
                                                                                                                                                            Destination
                                                                                                                                                           Cisco_3a:f6:0f
Frame 538: 60 bytes on wire (480 bits), 60 bytes captured (480 bits
           ) on interface 0
Ethernet II, Src: Cisco_3a:f6:0f (fc:fb:fb:3a:f6:0f), Dst: Cisco_3a:f6:0f (fc:fb:fb:3a:f6:0f)
              Destination: Cisco_3a:f6:Of (fc:fb:fb:3a:f6:Of)
Address: Cisco_3a:f6:Of (fc:fb:fb:3a:f6:Of)
.... ..O. .... .... = LG bit: Globally unique
                                      address (factory default)
```

```
.....0 .... = IG bit: Individual address (unicast)

Source: Cisco_3a:f6:0f (fc:fb:fb:3a:f6:0f)
Address: Cisco_3a:f6:0f (fc:fb:fb:3a:f6:0f)
.....0 .... = LG bit: Globally unique
            address (factory default)
                                      .... = IG bit: Individual address
                ...0 .... ....
(unicast)
Type: Loopback (0x9000)
Configuration Test Protocol (loopback)
Data (40 bytes)
0020 00 00 00 00 00 00 00
   Time Source
Protocol Length Info
544 724.449417000 Cisco
LOOP 60 Reply
                                                    Destination
                           Source
                           Cisco_3a:f6:0f
                                                    Cisco_3a:f6:0f
Frame 544: 60 bytes on wire (480 bits), 60 bytes captured (480 bits) on interface 0

Ethernet II, Src: Cisco_3a:f6:0f (fc:fb:fb:3a:f6:0f), Dst: Cisco_3a:f6:0f (fc:fb:fb:3a:f6:0f)
    Destination: Cisco_3a:f6:0f (fc:fb:fb:3a:f6:0f)
Address: Cisco_3a:f6:0f (fc:fb:fb:3a:f6:0f)
.... LG bit: Globally unique
            address (factory default)
....0 .... = IG bit: Grobally unique
(unicast)
    Source: Cisco_3a:f6:0f (fc:fb:fb:3a:f6:0f)
Address: Cisco_3a:f6:0f (fc:fb:fb:3a:f6:0f)
.....0..... = LG bit: Globally unique
            address (factory default)
         .... = IG bit: Individual address (unicast)
Type: Loopback (0x9000)
Configuration Test Protocol (loopback)
Data (40 bytes)
0020 00 00 00 00 00 00 00 00
   Time Source
Protocol Length Info
550 734.456804000 Cisco_3a:f6:0f
LOOP 60 Reply
                                                    Destination
                                                    Cisco_3a:f6:0f
Frame 550: 60 bytes on wire (480 bits), 60 bytes captured (480 bits
.. ..0. .... .... default)
         .... = IG bit: Individual address (unicast)
    Source: Cisco_3a:f6:0f (fc:fb:fb:3a:f6:0f)
         Address: Cisco_3a:f6:Of (fc:fb:fb:3a:f6:Of)
.....O...... = LG bit: Globally unique
address (factory default)
            ....0 .... = IG bit: Individual address (unicast)
Type: Loopback (0x9000)
Configuration Test Protocol (loopback)
Data (40 bytes)
```

```
Time
                                                             Destination
                               Source
    Protocol Length Info
556 744.464201000
LOOP 60
                               Cisco_3a:f6:0f
                                                             Cisco_3a:f6:0f
                               Reply
Frame 556: 60 bytes on wire (480 bits), 60 bytes captured (480 bits
) on interface 0

Ethernet II, Src: Cisco_3a:f6:0f (fc:fb:fb:3a:f6:0f), Dst: Cisco_3a:f6:0f (fc:fb:fb:3a:f6:0f)

Destination: Cisco_3a:f6:0f (fc:fb:fb:3a:f6:0f)

Address: Cisco_3a:f6:0f (fc:fb:fb:3a:f6:0f)

.....0.....= LG bit: Globally unique
               . ..O. .... : LG bit: Globally unique address (factory default)
              ....0 .... = IG bit: Individual address (unicast)
     Source: Cisco_3a:f6:0f (fc:fb:fb:3a:f6:0f)
Address: Cisco_3a:f6:0f (fc:fb:fb:3a:f6:0f)
.... .0. .... = LG bit: Globally unique
              address (factory default)
           (unicast)
                                            .... = IG bit: Individual address
Type: Loopback (0x9000)
Configuration Test Protocol (loopback)
Data (40 bytes)
0020 00 00 00 00 00 00 00
    Time Source
Protocol Length Info
562 754.463129000 Cisco_3a:f6:0f
LOOP 60 Reply
                                                             Destination
                                                             Cisco_3a:f6:0f
                               Reply
Frame 562: 60 bytes on wire (480 bits), 60 bytes captured (480 bits
    ) on interface 0
cell of interface 0
Ethernet II, Src: Cisco_3a:f6:0f (fc:fb:fb:3a:f6:0f), Dst: Cisco_3a
:f6:0f (fc:fb:fb:3a:f6:0f)
Destination: Cisco_3a:f6:0f (fc:fb:fb:3a:f6:0f)
Address: Cisco_3a:f6:0f (fc:fb:fb:3a:f6:0f)
.....0..... = LG bit: Globally unique
address (factory default)
.....0..... = IG bit: Individual address
     .... 0 .... = IG bit: Individual address (unicast)

Source: Cisco_3a:f6:0f (fc:fb:fb:3a:f6:0f)
Address: Cisco_3a:f6:0f (fc:fb:fb:3a:f6:0f)
.... 0 .... = LG bit: Globally unique
address (factory default)
               address (factory default)
           .... = IG bit: Individual address (unicast)
Type: Loopback (0x9000)
Configuration Test Protocol (loopback)
Data (40 bytes)
0020 00 00 00 00 00 00 00 00
    Time Source
Protocol Length Info
568 764.470525000 Cisco_3a:f6:0f
LOOP 60 Reply
                                                             Destination
                                                            Cisco_3a:f6:0f
Frame 568: 60 bytes on wire (480 bits), 60 bytes captured (480 bits
) on interface 0
Ethernet II, Src: Cisco_3a:f6:0f (fc:fb:fb:3a:f6:0f), Dst: Cisco_3a:f6:0f (fc:fb:fb:3a:f6:0f)
     Destination: Cisco_3a:f6:Of (fc:fb:fb:3a:f6:Of)
```

```
Address: Cisco_3a:f6:0f (fc:fb:fb:3a:f6:0f)
             . ..0. .... : LG bit: Globally unique address (factory default)
            ....0 .... = IG bit: Individual address (unicast)
    Source: Cisco_3a:f6:0f (fc:fb:fb:3a:f6:0f)
Address: Cisco_3a:f6:0f (fc:fb:fb:3a:f6:0f)
.... ... ... ... = LG bit: Globally unique
            address (factory default)
         (unicast)
                                      .... = IG bit: Individual address
    Type: Loopback (0x9000)
Configuration Test Protocol (loopback)
Data (40 bytes)
0020 00 00 00 00 00 00 00 00
                                                                 . . . . . . . .
   Time Source
Protocol Length Info
570 766.609383000 Cisco_3a:f6:0f
CDP 436 Device ID: tux-sw5
                                                    Destination
                                                 CDP/VTP/DTP/PAgP/UDLD
Port ID: FastEthernet0
Frame 570: 436 bytes on wire (3488 bits), 436 bytes captured (3488
bits) on interface 0 IEEE 802.3 Ethernet Logical-Link Control
Cisco Discovery Protocol
   Time Source
Protocol Length Info
572 768.601662000 172.16.50.1
ICMP 98 Echo (ping)
                                                    Destination
                                                    172.16.50.255
                          Echo (ping) request id=0x2e8a, seq=1/256,
        tt1=64
Frame 572: 98 bytes on wire (784 bits), 98 bytes captured (784 bits
) on interface 0 Ethernet II, Src: Kye_25:13:65 (00:c0:df:25:13:65), Dst: Broadcast (ff:ff:ff:ff:ff)
    Destination: Broadcast (ff:ff:ff:ff:ff:ff)
Address: Broadcast (ff:ff:ff:ff:ff:ff)
.... = LG bit: Locally
             administered address (this is NOT the factory default)
                                      .... = IG bit: Group address (
         .... ...1 .... .... ....
            multicast/broadcast)
    address (factory default)
         .... = IG bit: Individual address (unicast)
Type: IP (0x0800)
Internet Protocol Version 4, Src: 172.16.50.1 (172.16.50.1), Dst: 172.16.50.255 (172.16.50.255)
Internet Control Message Protocol
        Time
                                                    Destination
   Protocol Length Info
573 769.600652000 172.16.50.1
ICMP 98 Echo (ping)
                                                    172.16.50.255
                          Echo (ping) request
                                                   id=0x2e8a, seq=2/512,
Frame 573: 98 bytes on wire (784 bits), 98 bytes captured (784 bits
) on interface 0
Ethernet II, Src: Kye_25:13:65 (00:c0:df:25:13:65), Dst: Broadcast (ff:ff:ff:ff:ff)
    administered address (this is NOT the factory default)
```

```
\dots = IG bit: Group address (
            .... ...1 ....
     multicast/broadcast)
Source: Kye_25:13:65 (00:c0:df:25:13:65)
            Address: Kye_25:13:65 (00:c0:df:25:13:65)
.... = LG bit: Globally unique
               address (factory default)
            .... ... 0 .... .... = IG bit: Individual address _(unicast)
      Type: IP (0x0800)
Internet Protocol Version 4, Src: 172.16.50.1 (172.16.50.1), Dst: 172.16.50.255 (172.16.50.255)
Internet Control Message Protocol
    Time Source
Protocol Length Info
575 770.599651000 172.16.50.1
Carrier 98 Echo (ping)
                                                                    Destination
                                                                    172.16.50.255
                                  Echo (ping) request
                                                                  id=0x2e8a, seq=3/768,
           ttl=64
Frame 575: 98 bytes on wire (784 bits), 98 bytes captured (784 bits
) on interface 0
Ethernet II, Src: Kye_25:13:65 (00:c0:df:25:13:65), Dst: Broadcast
     (ff:ff:ff:ff:ff)
      .... = IG bit: Group address (
                multicast/broadcast)
      Source: Kye_25:13:65 (00:c0:df:25:13:65)
    Address: Kye_25:13:65 (00:c0:df:25:13:65)
    .... ..0. .... = LG bit: Globally unique
                address (factory default)
            \dots . . . . 0 . . . . . . . . . . . . . = IG bit: Individual address (unicast)
      Type: IP (0x0800)
Internet Protocol Version 4, Src: 172.16.50.1 (172.16.50.1), Dst: 172.16.50.255 (172.16.50.255)
Internet Control Message Protocol
    Time Source
Protocol Length Info
576 771.598671000 172.16.50.1
                                                                    Destination
                                                                    172.16.50.255
           ICMP
                      98
                                   Echo (ping) request id=0x2e8a, seq=4/1024,
           tt1=64
Frame 576: 98 bytes on wire (784 bits), 98 bytes captured (784 bits
) on interface 0
Ethernet II, Src: Kye_25:13:65 (00:c0:df:25:13:65), Dst: Broadcast (ff:ff:ff:ff)
      Destination: Broadcast (ff:ff:ff:ff:ff:ff)
Address: Broadcast (ff:ff:ff:ff:ff:ff:
.... -1. .... = LG bit: Locally
               administered address (this is NOT the factory default)
     .... 1 .... = IG bit: Group address (multicast/broadcast)

Source: Kye_25:13:65 (00:c0:df:25:13:65)

Address: Kye_25:13:65 (00:c0:df:25:13:65)

.... 0. .... = LG bit: Globally unique address (factory default)

.... 15 Not the factory default

multicast/broadcast (multicast/broadcast)

Left bit: Globally unique address (factory default)

.... 16 Dit: Individual address (multicast/broadcast)
                   ...0 .... .... = IG bit: Individual address
                 (unicast)
      Type: IP (0x0800)
Internet Protocol Version 4, Src: 172.16.50.1 (172.16.50.1), Dst: 172.16.50.255 (172.16.50.255)
Internet Control Message Protocol
    Time Source
Protocol Length Info
578 772.598527000 172.16.50.1
ICMP 98 Echo (ping)
                                                                    Destination
                                                                    172.16.50.255
                                  Echo (ping) request id=0x2e8a, seq=5/1280,
           tt1=64
```

```
Frame 578: 98 bytes on wire (784 bits), 98 bytes captured (784 bits
) on interface 0
Ethernet II, Src: Kye_25:13:65 (00:c0:df:25:13:65), Dst: Broadcast (ff:ff:ff:ff:ff)
     Destination: Broadcast (ff:ff:ff:ff:ff)
Address: Broadcast (ff:ff:ff:ff:ff:ff)
.... = LG bit: Locally
               administered address (this is NOT the factory default)
           .... = IG bit: Group address (
multicast/broadcast)
     Source: Kye_25:13:65 (00:c0:df:25:13:65)
           Address: Kye_25:13:65 (00:c0:df:25:13:65)
                                              .... = LG bit: Globally unique
               address (factory default)
           .... (unicast)
                                .... : .... = IG bit: Individual address
     Type: IP (0x0800)
Internet Protocol Version 4, Src: 172.16.50.1 (172.16.50.1), Dst: 172.16.50.255 (172.16.50.255)
Internet Control Message Protocol
    Time SP Protocol Length Info 579 773.598543000 COMP 98
                                                               Destination
                                172.16.50.1
                                                               172.16.50.255
                                Echo (ping) request id=0x2e8a, seq=6/1536,
          ttl=64
Frame 579: 98 bytes on wire (784 bits), 98 bytes captured (784 bits
    ) on interface 0
Ethernet II, Src: Kye_25:13:65 (00:c0:df:25:13:65), Dst: Broadcast (ff:ff:ff:ff:ff)
     Destination: Broadcast (ff:ff:ff:ff:ff:ff)
Address: Broadcast (ff:ff:ff:ff:ff:ff)
.... ..1. .... = LG bit: Locally
              administered address (this is NOT the factory default)
                    . . 1 . . . . . . . . . . . . .
                                       \dots = IG bit: Group address (
              multicast/broadcast)
     Source: Kye_25:13:65 (00:c0:df:25:13:65)
Address: Kye_25:13:65 (00:c0:df:25:13:65)
.....0.... = LG bit: Globally unique
address (factory default)
.....0 .... = IG bit: Individual address
           (unicast)
     Type: IP (0x0800)
Time
                                Source
                                                               Destination
    Protocol Length Info
581 774.474570000 (
LOOP 60
                                Cisco_3a:f6:0f
                                                               Cisco_3a:f6:0f
                                Reply
Frame 581: 60 bytes on wire (480 bits), 60 bytes captured (480 bits
) on interface 0

Ethernet II, Src: Cisco_3a:f6:0f (fc:fb:fb:3a:f6:0f), Dst: Cisco_3a:f6:0f (fc:fb:fb:3a:f6:0f)

Destination: Cisco_3a:f6:0f (fc:fb:fb:3a:f6:0f)

Address: Cisco_3a:f6:0f (fc:fb:fb:3a:f6:0f)

.....0.....= LG bit: Globally unique
               . ..O. .... : .... = LG bit: Globally unique address (factory default)
               ....0 .... = IG bit: Individual address (unicast)
     Source: Cisco_3a:f6:0f (fc:fb:fb:3a:f6:0f)
Address: Cisco_3a:f6:0f (fc:fb:fb:3a:f6:0f)
.... ..0. .... = LG bit: Globally unique
              address (factory default)
               (unicast)
                                              .... = IG bit: Individual address
Type: Loopback (0x9000)
Configuration Test Protocol (loopback)
Data (40 bytes)
```

```
0020 00 00 00 00 00 00 00
   Time
Protocol Length Info
582 774.598511000 172.16.50.1
70MD 98 Echo (ping)
        Time
                        Source
                                               Destination
                                               172.16.50.255
                        Echo (ping) request id=0x2e8a, seq=7/1792,
       tt1=64
Frame 582: 98 bytes on wire (784 bits), 98 bytes captured (784 bits
) on interface 0 Ethernet II, Src: Kye_25:13:65 (00:c0:df:25:13:65), Dst: Broadcast
   (ff:ff:ff:ff:ff)
    administered address (this is NOT the factory default)
        .... 1 .... = IG bit: Group address (
multicast/broadcast)
    Source: Kye_25:13:65 (00:c0:df:25:13:65)
        Address: Kye_25:13:65 (00:c0:df:25:13:65)
                                   ... = LG bit: Globally unique
          address (factory default)
        .... = IG bit: Individual address (unicast)
    Type: IP (0x0800)
Internet Protocol Version 4, Src: 172.16.50.1 (172.16.50.1), Dst: 172.16.50.255 (172.16.50.255)
Internet Control Message Protocol
   Time Source
Protocol Length Info
583 775.598522000 172.16.50.1
ICMP 98 Echo (ping)
                                               Destination
                                               172.16.50.255
                        Echo (ping) request id=0x2e8a, seq=8/2048,
       tt1=64
Frame 583: 98 bytes on wire (784 bits), 98 bytes captured (784 bits
) on interface 0
Ethernet II, Src: Kye_25:13:65 (00:c0:df:25:13:65), Dst: Broadcast
   (ff:ff:ff:ff:ff)
    .. ...1 .... .... .... = IG bit: Group address (
multicast/broadcast)
    Source: Kye_25:13:65 (00:c0:df:25:13:65)
Address: Kye_25:13:65 (00:c0:df:25:13:65)
.... .0. ... ... = LG bit: Globally unique address (factory default)
        .... = IG bit: Individual address (unicast)
    Type: IP (0x0800)
Time
                        Source
                                               Destination
   Protocol Length Info 585 776.598544000 172.16.50.1
                                               172.16.50.255
       ICMP
                98
                        Echo (ping) request id=0x2e8a, seq=9/2304,
       ttl=64
Frame 585: 98 bytes on wire (784 bits), 98 bytes captured (784 bits
) on interface 0
Ethernet II, Src: Kye_25:13:65 (00:c0:df:25:13:65), Dst: Broadcast (ff:ff:ff:ff:ff)
    Destination: Broadcast (ff:ff:ff:ff:ff)
Address: Broadcast (ff:ff:ff:ff:ff)
.... = LG bit: Locally
            administered address (this is NOT the factory default)
```

```
\dots = IG bit: Group address (
    multicast/broadcast)
Source: Kye_25:13:65 (00:c0:df:25:13:65)
         Address: Kye_25:13:65 (00:c0:df:25:13:65)
.... = LG bit: Globally unique
           address (factory default)
         .... ...0 .... e IG bit: Individual address _(unicast)
    Type: IP (0x0800)
Internet Protocol Version 4, Src: 172.16.50.1 (172.16.50.1), Dst: 172.16.50.255 (172.16.50.255)
Internet Control Message Protocol
   Time Source
Protocol Length Info
586 777.598542000 172.16.50.1
ICMP 98 Echo (ping) request
                                                   Destination
                                                   172.16.50.255
                                                  id=0x2e8a, seq=10/2560,
         ttl=64
Frame 586: 98 bytes on wire (784 bits), 98 bytes captured (784 bits ) on interface 0 Ethernet II, Src: Kye_25:13:65 (00:c0:df:25:13:65), Dst: Broadcast
   (ff:ff:ff:ff:ff)
    .... = IG bit: Group address (
            multicast/broadcast)
    Source: Kye_25:13:65 (00:c0:df:25:13:65)
    Address: Kye_25:13:65 (00:c0:df:25:13:65)
    .... ..0. .... = LG bit: Globally unique
            address (factory default)
         .... = IG bit: Individual address (unicast)
    Type: IP (0x0800)
Internet Protocol Version 4, Src: 172.16.50.1 (172.16.50.1), Dst: 172.16.50.255 (172.16.50.255)
Internet Control Message Protocol
   Time
Protocol Length Info
591 784.482025000 Cisco_3a:f6:0f
LOOP 60 Reply
                                                   Destination
                                                   Cisco_3a:f6:0f
Frame 591: 60 bytes on wire (480 bits), 60 bytes captured (480 bits
address (factory default)
         \dots = IG bit: Individual address (unicast)
    Source: Cisco_3a:f6:0f (fc:fb:fb:3a:f6:0f)
         Address: Cisco_3a:f6:0f (fc:fb:fb:3a:f6:0f)
..... = LG bit: Globally unique
address (factory default)

= TG bit: Individual addr
              ...0 .... = IG bit: Individual address
             (unicast)
Type: Loopback (0x9000)
Configuration Test Protocol (loopback)
Data (40 bytes)
0020 00 00 00 00 00 00 00 00
No. Time
Protocol Length Info
                                                   Destination
```

```
597 794.489432000 Cisco_3a:f6:0f
                                                   Cisco_3a:f6:0f
         LOOP
                             Reply
Frame 597: 60 bytes on wire (480 bits), 60 bytes captured (480 bits
    ) on interface 0
address (factory default)
             ....0 .... .... = IG bit: Individual address (unicast)
     Source: Cisco_3a:f6:0f (fc:fb:fb:3a:f6:0f)
Address: Cisco_3a:f6:0f (fc:fb:fb:3a:f6:0f)
.....0..... = LG bit: Globally unique
address (factory default)
(unicast)
Type: Loopback (0x9000)
Configuration Test Protocol (loopback)
                                  .... = IG bit: Individual address
Data (40 bytes)
0020 00 00 00 00 00 00 00 00
    Time Source
Protocol Length Info
603 804.491670000 Cisco_3a:f6:0f
LOOP 60 Reply
                                                         Destination
                                                         Cisco_3a:f6:0f
                             Reply
Frame 603: 60 bytes on wire (480 bits), 60 bytes captured (480 bits
Frame 603: 60 bytes on wife (100 212),
) on interface 0
Ethernet II, Src: Cisco_3a:f6:0f (fc:fb:fb:3a:f6:0f), Dst: Cisco_3a:f6:0f (fc:fb:fb:3a:f6:0f)
Destination: Cisco_3a:f6:0f (fc:fb:fb:3a:f6:0f)
Address: Cisco_3a:f6:0f (fc:fb:fb:3a:f6:0f)
........ = LG bit: Globally unique
             Source: Cisco_3a:f6:0f (fc:fb:fb:3a:f6:0f)
Address: Cisco_3a:f6:0f (fc:fb:fb:3a:f6:0f)
.... ..0. .... .... .... = LG bit: Globally unique
              address (factory default)
                ...0 .... = IG bit: Individual address
              (unicast)
Type: Loopback (0x9000)
Configuration Test Protocol (loopback)
Data (40 bytes)
0020 00 00 00 00 00 00 00
    Time Source
Protocol Length Info
609 814.490904000 Cisco_3a:f6:0f
LOOP 60 Reply
                                                         Destination
                                                         Cisco_3a:f6:0f
Frame 609: 60 bytes on wire (480 bits), 60 bytes captured (480 bits
    ) on interface 0
Ethernet II, Src: Cisco_3a:f6:0f (fc:fb:fb:3a:f6:0f), Dst: Cisco_3a:f6:0f (fc:fb:fb:3a:f6:0f)

Destination: Cisco_3a:f6:0f (fc:fb:fb:3a:f6:0f)

Address: Cisco_3a:f6:0f (fc:fb:fb:3a:f6:0f)

.....0..... = LG bit: Globally unique

address (factory default)

O = IC bit: Individual address
                            \dots = IG bit: Individual address
          .... (unicast)
     Source: Cisco_3a:f6:0f (fc:fb:fb:3a:f6:0f)
```

```
Address: Cisco_3a:f6:0f (fc:fb:fb:3a:f6:0f)
            . ..0. .... : .... = LG bit: Globally unique address (factory default)
            . ...0 .... = IG bit: Individual address (unicast)
Type: Loopback (0x9000)
Configuration Test Protocol (loopback)
Data (40 bytes)
0020 00 00 00 00 00 00 00 00
   Time
Protocol Length Info
615 824.498060000
LOOP 60
                                                Destination
                        Cisco_3a:f6:0f
                                                Cisco_3a:f6:0f
                         Reply
Frame 615: 60 bytes on wire (480 bits), 60 bytes captured (480 bits
) on interface 0
Ethernet II, Src: Cisco_3a:f6:0f (fc:fb:fb:3a:f6:0f), Dst: Cisco_3a:f6:0f (fc:fb:fb:3a:f6:0f)
Destination: Cisco_3a:f6:0f (fc:fb:fb:3a:f6:0f)
Address: Cisco_3a:f6:0f (fc:fb:fb:3a:f6:0f)
.....0.....= LG bit: Globally unique
            address (factory default)
                     \dots = IG bit: Individual address
              ...0 .
         (unicast)
    Source: Cisco_3a:f6:0f (fc:fb:fb:3a:f6:0f)
Address: Cisco_3a:f6:0f (fc:fb:fb:3a:f6:0f)
.... .0. .... ... = LG bit: Globally unique
           address (factory default)
            . ...0 .... = IG bit: Individual address (unicast)
Type: Loopback (0x9000)
Configuration Test Protocol (loopback)
Data (40 bytes)
0020 00 00 00 00 00 00 00
   Time Source
Protocol Length Info
617 826.611668000 Cisco_3a:f6:0f
                                                Destination
                                                CDP/VTP/DTP/PAgP/UDLD
       CDP
                        Device ID: tux-sw5
                                             Port ID: FastEthernet0
                 436
        /13
Frame 617: 436 bytes on wire (3488 bits), 436 bytes captured (3488
bits) on interface 0
IEEE 802.3 Ethernet
Logical-Link Control
Cisco Discovery Protocol
   Time Source
Protocol Length Info
622 834.505467000 Cisco_3a:f6:0f
LOOP 60 Reply
                                                Destination
                                                Cisco_3a:f6:0f
Frame 622: 60 bytes on wire (480 bits), 60 bytes captured (480 bits
   ) on interface 0
address (factory default)
```

```
. ..0. .... = LG bit: Globally unique address (factory default)
                                                  . . 0
                                                                                                              .... = IG bit: Individual address
                            (unicast)
Type: Loopback (0x9000)
Configuration Test Protocol (loopback)
 Data (40 bytes)
 0020 00 00 00 00 00 00 00
           Time Protocol Length Info 628 844.512791000 CLOOP 60
                                                                                                                                                        Destination
                                                                              Source
                                                                              Cisco_3a:f6:0f
                                                                                                                                                        Cisco_3a:f6:0f
                                                                             Reply
 Frame 628: 60 bytes on wire (480 bits), 60 bytes captured (480 bits
) on interface 0
Ethernet II, Src: Cisco_3a:f6:0f (fc:fb:fb:3a:f6:0f), Dst: Cisco_3a:f6:0f (fc:fb:fb:3a:f6:0f)
             Destination: Cisco_3a:f6:0f (fc:fb:fb:3a:f6:0f)
Address: Cisco_3a:f6:0f (fc:fb:fb:3a:f6:0f)
.....0..... = LG bit: Globally unique
address (factory default)
                                    ....0 .... = IG bit: Individual address (unicast)
              address (factory default)
                                      ....0 .... = IG bit: Individual address (unicast)
Type: Loopback (0x9000)
Configuration Test Protocol (loopback)
 Data (40 bytes)
 0010 \\ \hline{)} \\ \\ \hline{)} \\ \hline{]} \\ \hline{]} \\ \hline{]} \\ \hline{]} \\ \hline{] \\ \hline{]} \\
 0020 00 00 00 00 00 00 00
          Time
Protocol Length Info
634 854.511887000 Cisco_3a:f6:0f
                                                                                                                                                        Destination
                                                                                                                                                        Cisco_3a:f6:0f
 Frame 634: 60 bytes on wire (480 bits), 60 bytes captured (480 bits
address (factory default)
                                    ....0 .... = IG bit: Individual address (unicast)
             Source: Cisco_3a:f6:0f (fc:fb:fb:3a:f6:0f)
Address: Cisco_3a:f6:0f (fc:fb:fb:3a:f6:0f)
.... .0. ... ... = LG bit: Globally unique
address (factory default)
                                            ...0 .... = IG bit: Individual address
                                       (unicast)
Type: Loopback (0x9000)
Configuration Test Protocol (loopback)
 Data (40 bytes)
 0020 00 00 00 00 00 00 00
```

```
Time Source
Protocol Length Info
636 856.720323000 Hewlett-_c3:78:70 Broadcast
ARP 60 Who has 172.16.50.1? Tell 172.16.50.254
Frame 636: 60 bytes on will (1) on interface 0

Ethernet II, Src: Hewlett-_c3:78:70 (00:21:5a:c3:78:70), Dst: Broadcast (ff:ff:ff:ff:ff)

Destination: Broadcast (ff:ff:ff:ff:ff:ff)

Address: Broadcast (ff:ff:ff:ff:ff:ff:ff)

.... 1 .... .... ELG bit: Locally
Frame 636: 60 bytes on wire (480 bits), 60 bytes captured (480 bits
                  administered address (this is NOT the factory default)
               .... - IG bit: Group address (
       multicast/broadcast)

Source: Hewlett-_c3:78:70 (00:21:5a:c3:78:70)

Address: Hewlett-_c3:78:70 (00:21:5a:c3:78:70)

.....0..... = LG bit: Globally unique address (factory default)
               .... = IG bit: Individual address (unicast)
       Address Resolution Protocol (request)
     Time Protocol Length Info 637 856.720417000 PARP 42
                                        Source
                                                                                Destination
                                         Frame 637: 42 bytes on wire (336 bits), 42 bytes captured (336 bits) on interface 0

Ethernet II, Src: Kye_25:13:65 (00:c0:df:25:13:65), Dst: Hewlett-
_c3:78:70 (00:21:5a:c3:78:70)

Destination: Hewlett-_c3:78:70 (00:21:5a:c3:78:70)

Address: Hewlett-_c3:78:70 (00:21:5a:c3:78:70)

.... 0. ... EG bit: Globally unique address (factory default)
               .... = IG bit: Individual address (unicast)
       Source: Kye_25:13:65 (00:c0:df:25:13:65)
Address: Kye_25:13:65 (00:c0:df:25:13:65)
.... = LG bit: Globally unique
                  address (factory default)
              .... = IG bit: Individual address (unicast)
       Type: ARP (0x0806)
Address Resolution Protocol (reply)
     Time Source
Protocol Length Info
638 856.720533000 172.16.50.254
TCMP 98 Echo (ping) request
                                                                                Destination
                                                                                172.16.50.1
                                                                              id=0x7295, seq=1/256,
Frame 638: 98 bytes on wire (784 bits), 98 bytes captured (784 bits
Frame 638: 98 bytes on wire (704 bits), 90 bytes captured (704 bits) on interface 0

Ethernet II, Src: Hewlett-_c3:78:70 (00:21:5a:c3:78:70), Dst: Kye_25:13:65 (00:c0:df:25:13:65)

Destination: Kye_25:13:65 (00:c0:df:25:13:65)

Address: Kye_25:13:65 (00:c0:df:25:13:65)

.... .0. .... = LG bit: Globally unique address (factory default)
               .... (unicast)
                                                          .... = IG bit: Individual address
       Source: Hewlett-_c3:78:70 (00:21:5a:c3:78:70)
Address: Hewlett-_c3:78:70 (00:21:5a:c3:78:70)
.... .0. ... ... = LG bit: Globally unique address (factory default)
               .... = IG bit: Individual address (unicast)
       Type: IP (0x0800)
```

```
Internet Protocol Version 4, Src: 172.16.50.254 (172.16.50.254),
   Dst: 172.16.50.1 (172.16.50.1)
Internet Control Message Protocol
            Time
                                                                    Destination
                                   Source
     Protocol Length Info
639 856.720594000 172.16.50.1
ICMP 98 Echo (ping)
                                                                    172.16.50.254
                                   Echo (ping) reply
                                                                   id=0x7295, seq=1/256,
           ttl=64
Frame 639: 98 bytes on wire (784 bits), 98 bytes captured (784 bits
....0 .... uerault)
.....0 .... = IG bit: Individual address
(unicast)
      Source: Kye_25:13:65 (00:c0:df:25:13:65)
Address: Kye_25:13:65 (00:c0:df:25:13:65)
                                              . .... = LG bit: Globally unique
                address (factory default)
            .... = IG bit: Individual address (unicast)
      Type: IP (0x0800)
Time Source
Protocol Length Info
640 857.719306000 172.16.50.254
ICMP 98 Echo (ping) r
                                                                    Destination
                                                                    172.16.50.1
                                  Echo (ping) request id=0x7295, seq=2/512,
Frame 640: 98 bytes on wire (784 bits), 98 bytes captured (784 bits
On interface 0

Ethernet II, Src: Hewlett-_c3:78:70 (00:21:5a:c3:78:70), Dst:
    Kye_25:13:65 (00:c0:df:25:13:65)
    Destination: Kye_25:13:65 (00:c0:df:25:13:65)
    Address: Kye_25:13:65 (00:c0:df:25:13:65)
    ... .0. ... ... = LG bit: Globally unique
                address (factory default)
     .....0 .... (unicast)

Source: Hewlett-_c3:78:70 (00:21:5a:c3:78:70)

Address: Hewlett-_c3:78:70 (00:21:5a:c3:78:70)

.....0 .... = LG bit: Globally unique

(factory default)

= TG bit: Individual address
                                                  .... = IG bit: Individual address
                   ...0 .... = IG bit: Individual address
                 (unicast)
      Type: IP (0x0800)
Internet Protocol Version 4, Src: 172.16.50.254 (172.16.50.254),
Dst: 172.16.50.1 (172.16.50.1)
Internet Control Message Protocol
            Time
                                                                    Destination
                                  Source
     Protocol Length Info
641 857.719376000
ICMP 98
                                  172.16.50.1
                                                                    172.16.50.254
                                  Echo (ping) reply
                                                                   id=0x7295, seq=2/512,
           ttl=64
Frame 641: 98 bytes on wire (784 bits), 98 bytes captured (784 bits
Frame 641: 90 bytes on will
) on interface 0
Ethernet II, Src: Kye_25:13:65 (00:c0:df:25:13:65), Dst: Hewlett-
_c3:78:70 (00:21:5a:c3:78:70)
Destination: Hewlett-_c3:78:70 (00:21:5a:c3:78:70)
    Address: Hewlett-_c3:78:70 (00:21:5a:c3:78:70)
    .... .0. .... = LG bit: Globally unique
                address (factory default)
                                                  .... = IG bit: Individual address
                    ...0 .
                 (unicast)
```

```
Source: Kye_25:13:65 (00:c0:df:25:13:65)
                   Address: Kye_25:13:65 (00:c0:df:25:13:65)
.... ..0. .... = LG bit: Globally unique
                           . ..0. .... .... .... address (factory default)
                    .... = IG bit: Individual address (unicast)
          Type: IP (0x0800)
Internet Protocol Version 4, Src: 172.16.50.1 (172.16.50.1), Dst: 172.16.50.254 (172.16.50.254)
Internet Control Message Protocol
       Time
Protocol Length Info
643 858.718941000
                                                                                                             Destination
                                                       Source
                                                       172.16.50.254
                                                                                                             172.16.50.1
                                                        Echo (ping) request id=0x7295, seq=3/768,
                 ICMP
                 tt1=64
Frame 643: 98 bytes on wire (784 bits), 98 bytes captured (784 bits
Prame 043: 30 bytes on the content of the cont
                         ....u. .... .... default)
                                                                                            = LG bit: Globally unique
                    .... = IG bit: Individual address (unicast)
         Source: Hewlett-_c3:78:70 (00:21:5a:c3:78:70)
    Address: Hewlett-_c3:78:70 (00:21:5a:c3:78:70)
    .... .0. .... = LG bit: Globally unique
                         address (factory default)
                               ...0 .... = IG bit: Individual address
                          (unicast)
         Type: IP (0x0800)
Internet Protocol Version 4, Src: 172.16.50.254 (172.16.50.254),
    Dst: 172.16.50.1 (172.16.50.1)
Internet Control Message Protocol
       Time Source
Protocol Length Info
644 858.719010000 172.16.50.1
ICMP 98 Echo (ping)
                                                                                                             Destination
                                                                                                             172.16.50.254
                                                        Echo (ping) reply
                                                                                                           id=0x7295, seq=3/768,
Frame 644: 98 bytes on wire (784 bits), 98 bytes captured (784 bits
address (factory default)
         .... = IG bit: Individual address (unicast)

Source: Kye_25:13:65 (00:c0:df:25:13:65)
                   Address: Kye_25:13:65 (00:c0:df:25:13:65)
.... = LG bit: Globally unique
                          address (factory default)
                    .... = IG bit: Individual address (unicast)
          Type: IP (0x0800)
Internet Protocol Version 4, Src: 172.16.50.1 (172.16.50.1), Dst: 172.16.50.254 (172.16.50.254)
Internet Control Message Protocol
                  Time
                                                       Source
                                                                                                             Destination
       Protocol Length Info
645 859.718917000 172.16.50.254
                                                                                                             172.16.50.1
                                                       Echo (ping) request id=0x7295, seq=4/1024,
                 ICMP
                 tt1=64
Frame 645: 98 bytes on wire (784 bits), 98 bytes captured (784 bits
        ) on interface 0
```

```
address (factory default)
                 ...0 .
                          ... .... .... = IG bit: Individual address
     (unicast)
Source: Hewlett-_
           ce: Hewlett-_c3:78:70 (00:21:5a:c3:78:70)
Address: Hewlett-_c3:78:70 (00:21:5a:c3:78:70)
... .0. ... = LG bit: Globally unique address (factory default)

= IG bit: Individual address
           .... 0 .... = IG bit: Individual address (unicast)
     Type: IP (0x0800)
Internet Protocol Version 4, Src: 172.16.50.254 (172.16.50.254),
   Dst: 172.16.50.1 (172.16.50.1)
Internet Control Message Protocol
    Time Source
Protocol Length Info
646 859.718987000 172.16.50.1
                                                            Destination
                                                            172.16.50.254
                               Echo (ping) reply
          ICMP
                     98
                                                           id=0x7295, seq=4/1024,
          ttl=64
Frame 646: 98 bytes on wire (784 bits), 98 bytes captured (784 bits
address (factory default)
.....0 .... = IG bit: Individual address
(unicast)
     Source: Kye_25:13:65 (00:c0:df:25:13:65)
           Address: Kye_25:13:65 (00:c0:df:25:13:65)
.... = LG bit: Globally unique
              address (factory default)
           (unicast)
                               .... .... = IG bit: Individual address
                  ...0 ....
Type: IP (0x0800)
Internet Protocol Version 4, Src: 172.16.50.1 (172.16.50.1), Dst: 172.16.50.254 (172.16.50.254)
Internet Control Message Protocol
    Time Source
Protocol Length Info
648 860.718919000 172.16.50.254
Figh 98 Figh (ping) r
                                                            Destination
                                                             172.16.50.1
         ICMP
                     98
                              Echo (ping) request
                                                           id=0x7295, seq=5/1280,
          ttl=64
Frame 648: 98 bytes on wild (...)
) on interface 0
Ethernet II, Src: Hewlett-_c3:78:70 (00:21:5a:c3:78:70), Dst:
    Kye_25:13:65 (00:c0:df:25:13:65)
    Destination: Kye_25:13:65 (00:c0:df:25:13:65)
    Address: Kye_25:13:65 (00:c0:df:25:13:65)
    ... ... = LG bit: Globally unique
Frame 648: 98 bytes on wire (784 bits), 98 bytes captured (784 bits
             address (factory default)
     .... = IG bit: Individual address
              address (factory default)
                               .... : .... = IG bit: Individual address
           .... (unicast)
     Type: IP (0x0800)
Internet Protocol Version 4, Src: 172.16.50.254 (172.16.50.254),
   Dst: 172.16.50.1 (172.16.50.1)
Internet Control Message Protocol
```

```
Time
                                      Source
                                                                           Destination
     Protocol Length Info 649 860.718988000 172.16.50.1
                                                                           172.16.50.254
            ICMP
                                      Echo (ping) reply
                                                                         id=0x7295, seq=5/1280,
Frame 649: 98 bytes on wire (784 bits), 98 bytes captured (784 bits) on interface 0

Ethernet II, Src: Kye_25:13:65 (00:c0:df:25:13:65), Dst: Hewlett-
_c3:78:70 (00:21:5a:c3:78:70)

Destination: Hewlett-_c3:78:70 (00:21:5a:c3:78:70)

Address: Hewlett-_c3:78:70 (00:21:5a:c3:78:70)

.... .0. ... ... = LG bit: Globally unique
                  address (factory default)
              .... (unicast)
                                                       .... = IG bit: Individual address
       Source: Kye_25:13:65 (00:c0:df:25:13:65)
             Address: Kye_25:13:65 (00:c0:df:25:13:65)
.... .0. .... = LG bit: Globally unique
                   address (factory default)
                   . ...0 .... = IG bit: Individual address (unicast)
      Type: IP (0x0800)
Internet Protocol Version 4, Src: 172.16.50.1 (172.16.50.1), Dst: 172.16.50.254 (172.16.50.254)
Internet Control Message Protocol
     Time Protocol Length Info 650 861.718910000 1CMP 98
                                                                           Destination
                                      Source
                                      172.16.50.254
                                                                           172.16.50.1
                                      Echo (ping) request id=0x7295, seq=6/1536,
            ttl=64
Frame 650: 98 bytes on wire (784 bits), 98 bytes captured (784 bits
) on interface 0

Ethernet II, Src: Hewlett-_c3:78:70 (00:21:5a:c3:78:70), Dst: Kye_25:13:65 (00:c0:df:25:13:65)

Destination: Kye_25:13:65 (00:c0:df:25:13:65)

Address: Kye_25:13:65 (00:c0:df:25:13:65)
                                                               = LG bit: Globally unique
                     . . 0 .
                 ....0. .... .... .... address (factory default)
              .... = IG bit: Individual address (unicast)
      Source: Hewlett-_c3:78:70 (00:21:5a:c3:78:70)
             Address: Hewlett-_c3:78:70 (00:21:5a:c3:78:70)
.... ..0. .... = LG bit: Globally unique
              address (factory default)
.....0 .... = IG bit: Individual address
(unicast)
      Type: IP (0x0800)
Internet Protocol Version 4, Src: 172.16.50.254 (172.16.50.254),
   Dst: 172.16.50.1 (172.16.50.1)
Internet Control Message Protocol
     Time
Protocol Length Info
651 861.718974000 172.16.50.1
TOMP 98 Echo (ping)
                                                                           Destination
                                                                           172.16.50.254
                                      Echo (ping) reply
                                                                         id=0x7295, seq=6/1536,
Frame 651: 98 bytes on wire (784 bits), 98 bytes captured (784 bits
Frame 651: 98 bytes on wife (101 220),
) on interface 0

Ethernet II, Src: Kye_25:13:65 (00:c0:df:25:13:65), Dst: Hewlett-
_c3:78:70 (00:21:5a:c3:78:70)

Destination: Hewlett-_c3:78:70 (00:21:5a:c3:78:70)

Address: Hewlett-_c3:78:70 (00:21:5a:c3:78:70)

.... .0. ... ... ... = LG bit: Globally unique
                  address (factory default)
                                                      .... = IG bit: Individual address
      .... = IG b
(unicast)
Source: Kye_25:13:65 (00:c0:df:25:13:65)
             Address: Kye_25:13:65 (00:c0:df:25:13:65)
```

```
address (factory default)
           .... = IG bit: Individual address (unicast)
     Type: IP (0x0800)
Internet Protocol Version 4, Src: 172.16.50.1 (172.16.50.1), Dst: 172.16.50.254 (172.16.50.254)
Internet Control Message Protocol
          Time
                                                              Destination
    Protocol Length Info
652 861.734437000 Kye_25:13:65 Hewlett-_c3:78:70
ARP 42 Who has 172.16.50.254? Tell 172.16.50.1
.... = IG bit: Individual address
               (unicast)
     Source: Kye_25:13:65 (00:c0:df:25:13:65)
Address: Kye_25:13:65 (00:c0:df:25:1
                  ss: Kye_25:13:65 (00:c0:df:25:13:65)
..0. .... = LG bit: Globally unique
              .. ..0. .... .... default)
           .... = IG bit: Individual address (unicast)
     Type: ARP (0x0806)
Address Resolution Protocol (request)
    Time Source
Protocol Length Info
653 861.734571000 Hewlett-_c3:78:70 Kye_25:13:65
ARP 60 172.16.50.254 is at 00:21:5a:c3:78:70
Frame 653: 60 bytes on wire (480 bits), 60 bytes captured (480 bits) on interface 0

Ethernet II, Src: Hewlett-_c3:78:70 (00:21:5a:c3:78:70), Dst:
    Kye_25:13:65 (00:c0:df:25:13:65)
    Destination: Kye_25:13:65 (00:c0:df:25:13:65)
    Address: Kye_25:13:65 (00:c0:df:25:13:65)
    ....    ....    ....    ....    = LG bit: Globally unique
              address (factory default)
....0 .... = IG bit: Individual address (unicast)
     Source: Hewlett-_c3:78:70 (00:21:5a:c3:78:70)
Address: Hewlett-_c3:78:70 (00:21:5a:c3:78:70)
.... .0. ... ... = LG bit: Globally unique
               . ..0. .... .... default)
           .... = IG bit: Individual address (unicast)
     Address Resolution Protocol (reply)
                                                               Destination
    Protocol Length Info
655 862.718898000 172.16.50.254
                                                              172.16.50.1
                                Echo (ping) request
          ICMP
                      98
                                                            id=0x7295, seq=7/1792,
          ttl=64
Frame 655: 98 bytes on wire (784 bits), 98 bytes captured (784 bits
) on interface 0
Ethernet II, Src: Hewlett-_c3:78:70 (00:21:5a:c3:78:70), Dst:
Kye_25:13:65 (00:c0:df:25:13:65)
     Destination: Kye_25:13:65 (00:c0:df:25:13:65)
Address: Kye_25:13:65 (00:c0:df:25:13:65)
                  . . 0 .
                                              .... = LG bit: Globally unique
               address (factory default)
```

```
.....0 .... = IG bit: Individual address (unicast)

Source: Hewlett-_c3:78:70 (00:21:5a:c3:78:70)

Address: Hewlett-_c3:78:70 (00:21:5a:c3:78:70)

.....0. .... = LG bit: Globally unique
             address (factory default)
           .... 0 .... = IG bit: Individual address (unicast)
     Type: IP (0x0800)
Internet Protocol Version 4, Src: 172.16.50.254 (172.16.50.254),
Dst: 172.16.50.1 (172.16.50.1)
Internet Control Message Protocol
    Time
Protocol Length Info
656 862.718973000 172.16.50.1
TOMB 98 Echo (ping) reply
                                                           Destination
                                                           172.16.50.254
                                                          id=0x7295, seq=7/1792,
Frame 656: 98 bytes on wire (784 bits), 98 bytes captured (784 bits
address (factory default)
           .... = IG bit: Individual address (unicast)
     Type: IP (0x0800)
Internet Protocol Version 4, Src: 172.16.50.1 (172.16.50.1), Dst: 172.16.50.254 (172.16.50.254)
Internet Control Message Protocol
          Time
    Protocol Length Info
657 863.718909000 172.16.50.254
ICMP 98 Echo (ping) re
                              Source
                                                           Destination
                                                           172.16.50.1
                              Echo (ping) request id=0x7295, seq=8/2048,
Frame 657: 98 bytes on wire (784 bits), 98 bytes captured (784 bits
Frame 657: 98 bytes on wife (104 5135), 05 2, 1
) on interface 0
Ethernet II, Src: Hewlett-_c3:78:70 (00:21:5a:c3:78:70), Dst:
   Kye_25:13:65 (00:c0:df:25:13:65)
   Destination: Kye_25:13:65 (00:c0:df:25:13:65)
   Address: Kye_25:13:65 (00:c0:df:25:13:65)
           .... ..0. ....
                              .... = LG bit: Globally unique
              address (factory default)
                                          .... = IG bit: Individual address
           .... (unicast)
     address (factory default)
          (unicast)
                          ... .... = IG bit: Individual address
     Type: IP (0x0800)
Internet Protocol Version 4, Src: 172.16.50.254 (172.16.50.254),
Dst: 172.16.50.1 (172.16.50.1)
Internet Control Message Protocol
    Time Source
Protocol Length Info
658 863.718971000 172.16.50.1
ICMP 98 Echo (ping)
                                                           Destination
                                                           172.16.50.254
                              Echo (ping) reply
                                                         id=0x7295, seq=8/2048,
         ttl=64
```

```
Frame 658: 98 bytes on wire (784 bits), 98 bytes captured (784 bits
              address (factory default)
             (unicast)
                                         .... = IG bit: Individual address
     (unicast)
Source: Kye_25:13:65 (00:c0:df:25:13:65)
Address: Kye_25:13:65 (00:c0:df:25:13:65)
.... ..0. .... = LG bit: Globally unique
             address (factory default)
          .... = IG bit: Individual address (unicast)
     Type: IP (0x0800)
Internet Protocol Version 4, Src: 172.16.50.1 (172.16.50.1), Dst: 172.16.50.254 (172.16.50.254)
Internet Control Message Protocol
    Time Source
Protocol Length Info
660 864.519209000 Cisco_3a:f6:0f
                                                        Destination
                                                        Cisco_3a:f6:0f
                            Reply
Frame 660: 60 bytes on wire (480 bits), 60 bytes captured (480 bits
) on interface 0

Ethernet II, Src: Cisco_3a:f6:0f (fc:fb:fb:3a:f6:0f), Dst: Cisco_3a:f6:0f (fc:fb:fb:3a:f6:0f)
     Destination: Cisco_3a:f6:0f (fc:fb:fb:3a:f6:0f)
    Address: Cisco_3a:f6:0f (fc:fb:fb:3a:f6:0f)
    ....    ...    ...    ...    = LG bit: Glo
             address (factory default)
                                                = LG bit: Globally unique
                         ... .... .... = IG bit: Individual address
             (unicast)
     Source: Cisco_3a:f6:0f (fc:fb:fb:3a:f6:0f)
Address: Cisco_3a:f6:0f (fc:fb:fb:3a:f6:0f)
.....0..... = LG bit: Globally unique
              address (factory default)
              . ...0 .... .... = IG bit: Individual address (unicast)
Type: Loopback (0x9000)
Configuration Test Protocol (loopback)
Data (40 bytes)
0020 00 00 00 00 00 00 00 00
                                                                       . . . . . . . .
    Time
Protocol Length Info
661 864.718877000
                                                        Destination
                             172.16.50.254
                                                        172.16.50.1
                             Echo (ping) request id=0x7295, seq=9/2304,
         TCMP
                    98
         ttl=64
Frame 661: 98 bytes on wire (784 bits), 98 bytes captured (784 bits
    ) on interface 0 ernet II, Src: Hewlett-_c3:78:70 (00:21:5a:c3:78:70), Dst: Kye_25:13:65 (00:c0:df:25:13:65)
Ethernet
     Destination: Kye_25:13:65 (00:c0:df:25:13:65)
Address: Kye_25:13:65 (00:c0:df:25:13:65)
                . . 0 . . . .
                                         .... = LG bit: Globally unique
              address (factory default)
...0 ... = IG bit: Individual address (unicast)
     Source: Hewlett-_c3:78:70 (00:21:5a:c3:78:70)
Address: Hewlett-_c3:78:70 (00:21:5a:c3:78:70)
.... ..0. .... = LG bit: Globally unique
              address (factory default)
                         .. .... = IG bit: Individual address
              (unicast)
```

```
Type: IP (0x0800)
Internet Protocol Version 4, Src: 172.16.50.254 (172.16.50.254),
Dst: 172.16.50.1 (172.16.50.1)
Internet Control Message Protocol
      Time Source
Protocol Length Info
662 864.718942000 172.16.50.1
GRAPH OR Echo (ping)
                                                                                   Destination
                                                                                   172.16.50.254
                                                                                  id=0x7295, seq=9/2304,
                                          Echo (ping) reply
             ttl=64
Frame 662: 98 bytes on wire (784 bits), 98 bytes captured (784 bits
Frame 662: 96 bytes on wife (764 bits), 35 bytes on interface 0

Ethernet II, Src: Kye_25:13:65 (00:c0:df:25:13:65), Dst: Hewlett-
_c3:78:70 (00:21:5a:c3:78:70)

Destination: Hewlett-_c3:78:70 (00:21:5a:c3:78:70)

Address: Hewlett-_c3:78:70 (00:21:5a:c3:78:70)

... .0. ... ... = LG bit: Globally unique
                     address (factory default)
                    . ...0 .... .... (unicast)
                                                            .... = IG bit: Individual address
       Source: Kye_25:13:65 (00:c0:df:25:13:65)
               Address: Kye_25:13:65 (00:c0:df:25:13:65)
.... = LG bit: Globally unique
                   address (factory default)
                     ....0 .... = IG bit: Individual address (unicast)
Type: IP (0x0800)
Internet Protocol Version 4, Src: 172.16.50.1 (172.16.50.1), Dst: 172.16.50.254 (172.16.50.254)
Internet Control Message Protocol
      Time Source
Protocol Length Info
663 865.718886000 172.16.50.254
ICMP 98 Echo (ping) r
                                                                                   Destination
                                                                                   172.16.50.1
                                           Echo (ping) request id=0x7295, seq=10/2560,
               t.t.1 = 64
Frame 663: 98 bytes on wire (784 bits), 98 bytes captured (784 bits) on interface 0

Ethernet II, Src: Hewlett-_c3:78:70 (00:21:5a:c3:78:70), Dst:
    Kye_25:13:65 (00:c0:df:25:13:65)
    Destination: Kye_25:13:65 (00:c0:df:25:13:65)
    Address: Kye_25:13:65 (00:c0:df:25:13:65)
                   ...0..... = LG bit: Globally unique address (factory default)
....0 .... = IG bit: Individual address (unicast)
       Source: Hewlett-_c3:78:70 (00:21:5a:c3:78:70)
    Address: Hewlett-_c3:78:70 (00:21:5a:c3:78:70)
    .... .0. .... = LG bit: Globally unique
                   address (factory default)
               .... = IG bit: Individual address (unicast)
       Type: IP (0x0800)
Internet Protocol Version 4, Src: 172.16.50.254 (172.16.50.254),
Dst: 172.16.50.1 (172.16.50.1)
Internet Control Message Protocol
      Time SProtocol Length Info 664 865.718945000 ICMP 98
                                                                                   Destination
                                          172.16.50.1
                                                                                    172.16.50.254
                                                                                  id=0x7295, seq=10/2560,
                                           Echo (ping) reply
Frame 664: 98 bytes on wire (784 bits), 98 bytes captured (784 bits
| On interface 0 | Ethernet II, Src: Kye_25:13:65 (00:c0:df:25:13:65), Dst: Hewlett-_c3:78:70 (00:21:5a:c3:78:70) | Destination: Hewlett-_c3:78:70 (00:21:5a:c3:78:70) | Address: Hewlett-_c3:78:70 (00:21:5a:c3:78:70) | .... ... ... ... = LG bit: Globally unique
                     address (factory default)
```

```
.... = IG bit: Individual address (unicast)

Source: Kye_25:13:65 (00:c0:df:25:13:65)
             Address: Kye_25:13:65 (00:c0:df:25:13:65)
.... = LG bit: Globally unique
                 address (factory default)
                  . ... 0 .... .... = IG bit: Individual address (unicast)
       Type: IP (0x0800)
Internet Protocol Version 4, Src: 172.16.50.1 (172.16.50.1), Dst: 172.16.50.254 (172.16.50.254)
Internet Control Message Protocol
     Time Source
Protocol Length Info
666 866.718895000 172.16.50.254
ICMP 98 Echo (ping) r
                                                                          Destination
                                                                           172.16.50.1
                                                                         id=0x7295, seq=11/2816,
                                      Echo (ping) request
              ttl=64
Frame 666: 98 bytes on wire (784 bits), 98 bytes captured (784 bits) on interface 0

Ethernet II, Src: Hewlett-_c3:78:70 (00:21:5a:c3:78:70), Dst: Kye_25:13:65 (00:c0:df:25:13:65)

Destination: Kye_25:13:65 (00:c0:df:25:13:65)

Address: Kye_25:13:65 (00:c0:df:25:13:65)

.... .0. .... = LG bit: Globally unique address (factory default)
                  . ...0 .... = IG bit: Individual address (unicast)
      Source: Hewlett-_c3:78:70 (00:21:5a:c3:78:70)
    Address: Hewlett-_c3:78:70 (00:21:5a:c3:78:70)
    .....0..... = LG bit: Globally unique
                 address (factory default)
              .... = IG bit: Individual address (unicast)
      Type: IP (0x0800)
Internet Protocol Version 4, Src: 172.16.50.254 (172.16.50.254),
Dst: 172.16.50.1 (172.16.50.1)
Internet Control Message Protocol
     Time Source
Protocol Length Info
667 866.718962000 172.16.50.1
                                                                          Destination
                                                                          172.16.50.254
            ICMP
                          98
                                      Echo (ping) reply
                                                                         id=0x7295, seq=11/2816,
Frame 667: 98 bytes on wire (784 bits), 98 bytes captured (784 bits
     ) on interface 0
Ethernet II, Src: Kye_25:13:65 (00:c0:df:25:13:65), Dst: Hewlett-
_c3:78:70 (00:21:5a:c3:78:70)
Destination: Hewlett-_c3:78:70 (00:21:5a:c3:78:70)
Address: Hewlett-_c3:78:70 (00:21:5a:c3:78:70)
.....0. .... = LG bit: Globally unique
                  address (factory default)
                                                       .... = IG bit: Individual address
      .... = IG b (unicast)
Source: Kye_25:13:65 (00:c0:df:25:13:65)
                      . . . 0 .
             Address: Kye_25:13:65 (00:c0:df:25:13:65)
.... = LG bit: Globally unique
                 ....0. .... .... .... address (factory default)
                     ...0 .... = IG bit: Individual address
             (unicast)
      Type: IP (0x0800)
Internet Protocol Version 4, Src: 172.16.50.1 (172.16.50.1), Dst: 172.16.50.254 (172.16.50.254)
Internet Control Message Protocol
     Time Source
Protocol Length Info
668 867.718875000 172.16.50.254
ICMP 98 Echo (ping) re
                                                                          Destination
                                                                          172.16.50.1
                                      Echo (ping) request id=0x7295, seq=12/3072,
              ttl=64
```

```
Frame 668: 98 bytes on wire (784 bits), 98 bytes captured (784 bits
Frame ooo: 50 bytes on ....
) on interface 0
Ethernet II, Src: Hewlett-_c3:78:70 (00:21:5a:c3:78:70), Dst:
   Kye_25:13:65 (00:c0:df:25:13:65)
   Destination: Kye_25:13:65 (00:c0:df:25:13:65)
   Address: Kye_25:13:65 (00:c0:df:25:13:65)
                 address (factory default)
                                                     .... = LG bit: Globally unique
                                                     .... = IG bit: Individual address
                 . ...0 .... .... (unicast)
      Source: Hewlett-_c3:78:70 (00:21:5a:c3:78:70)
Address: Hewlett-_c3:78:70 (00:21:5a:c3:78:70)
.... .0. ... ... = LG bit: Globally unique
                 address (factory default)
             .... = IG bit: Individual address (unicast)
      Type: IP (0x0800)
Internet Protocol Version 4, Src: 172.16.50.254 (172.16.50.254),
Dst: 172.16.50.1 (172.16.50.1)
Internet Control Message Protocol
     Time Source
Protocol Length Info
669 867.718941000 172.16.50.1
ICMP 98 Echo (ping)
                                                                        Destination
                                                                        172.16.50.254
                                                                       id=0x7295, seq=12/3072,
                                     Echo (ping) reply
Frame 669: 98 bytes on wire (784 bits), 98 bytes captured (784 bits) on interface 0

Ethernet II, Src: Kye_25:13:65 (00:c0:df:25:13:65), Dst: Hewlett-_c3:78:70 (00:21:5a:c3:78:70)

Destination: Hewlett-_c3:78:70 (00:21:5a:c3:78:70)

Address: Hewlett-_c3:78:70 (00:21:5a:c3:78:70)

.....0..... = LG bit: Globally unique address (factory default)

.....0 .... = IG bit: Individual address
                 . ...0 .... .... (unicast)
                                                     .... = IG bit: Individual address
      Source: Kye_25:13:65 (00:c0:df:25:13:65)
             Address: Kye_25:13:65 (00:c0:df:25:13:65)
.... ..0. .... = LG bit: Globally unique
                  address (factory default)
             .... = IG bit: Individual address (unicast)
      Type: IP (0x0800)
Internet Protocol Version 4, Src: 172.16.50.1 (172.16.50.1), Dst: 172.16.50.254 (172.16.50.254)
Internet Control Message Protocol
            Time
                                                                        Destination
                                     Source
     Protocol Length Info
671 868.718909000 172.16.50.254
                                                                        172.16.50.1
           ICMP
                                     Echo (ping) request id=0x7295, seq=13/3328,
                        98
Frame 671: 98 bytes on wire (784 bits), 98 bytes captured (784 bits
address (factory default)
                  . ...U ....
(unicast)
                                                    .... = IG bit: Individual address
      Source: Hewlett-_c3:78:70 (00:21:5a:c3:78:70)
    Address: Hewlett-_c3:78:70 (00:21:5a:c3:78:70)
    ... .0. ... ... = LG bit: Globally unique address (factory default)
                    ...0 .... .... = IG bit: Individual address
                  (unicast)
      Type: IP (0x0800)
Internet Protocol Version 4, Src: 172.16.50.254 (172.16.50.254), Dst: 172.16.50.1 (172.16.50.1)
```

```
Internet Control Message Protocol
          Time
                             Source
                                                         Destination
    Protocol Length Info 672 868.718977000
                             172.16.50.1
                                                         172.16.50.254
         ICMP
                   98
                             Echo (ping) reply
                                                        id=0x7295, seq=13/3328,
          tt1=64
Frame 672: 98 bytes on wire (784 bits), 98 bytes captured (784 bits
Frame 6/2: 98 bytes on will () on interface 0

Ethernet II, Src: Kye_25:13:65 (00:c0:df:25:13:65), Dst: Hewlett-_c3:78:70 (00:21:5a:c3:78:70)

Destination: Hewlett-_c3:78:70 (00:21:5a:c3:78:70)

Address: Hewlett-_c3:78:70 (00:21:5a:c3:78:70)

.... .0. ... ... ... = LG bit: Globally unique
             address (factory default)
              ...0 .... .... (unicast)
                                         .... = IG bit: Individual address
     Source: Kye_25:13:65 (00:c0:df:25:13:65)
          Address: Kye_25:13:65 (00:c0:df:25:13:65)
.... = LG bit: Globally unique
          address (factory default)
.... = IG bit: Individual address
              (unicast)
     Type: IP (0x0800)
Internet Protocol Version 4, Src: 172.16.50.1 (172.16.50.1), Dst: 172.16.50.254 (172.16.50.254)
Internet Control Message Protocol
    Time Source
Protocol Length Info
673 869.718875000 172.16.50.254
ICMP 98 Echo (ping) r
                                                         Destination
                                                         172.16.50.1
                             Echo (ping) request id=0x7295, seq=14/3584,
          tt1=64
Frame 673: 98 bytes on wire (784 bits), 98 bytes captured (784 bits
address (factory default)
     address (factory default)
          .... = IG bit: Individual address (unicast)
     Type: IP (0x0800)
Internet Protocol Version 4, Src: 172.16.50.254 (172.16.50.254),
Dst: 172.16.50.1 (172.16.50.1)
Internet Control Message Protocol
   Time Source
Protocol Length Info
674 869.718942000 172.16.50.1
TOMB 98 Echo (ping) reply
                                                         Destination
                                                         172.16.50.254
                                                        id=0x7295, seq=14/3584,
Frame 674: 98 bytes on wire (784 bits), 98 bytes captured (784 bits) on interface 0
Ethernet II, Src: Kye_25:13:65 (00:c0:df:25:13:65), Dst: Hewlett-
    .... = IG bit: Individual address (unicast)
     Source: Kye_25:13:65 (00:c0:df:25:13:65)
```

```
Address: Kye_25:13:65 (00:c0:df:25:13:65)
           .... ..0. .... = LG bit: Globally unique address (factory default)
            ... ... 0 .... .... = IG bit: Individual address _(unicast)
     Type: IP (0x0800)
Internet Protocol Version 4, Src: 172.16.50.1 (172.16.50.1), Dst:
    172.16.50.254 (172.16.50.254)
Internet Control Message Protocol
                                                               Destination
    Protocol Length Info
676 870.718885000 172.16.50.254
                                                               172.16.50.1
                                Echo (ping) request id=0x7295, seq=15/3840,
          ICMP
                      98
           ttl=64
Frame 676: 98 bytes on wire (784 bits), 98 bytes captured (784 bits
) on interface 0

Ethernet II, Src: Hewlett-_c3:78:70 (00:21:5a:c3:78:70), Dst: Kye_25:13:65 (00:c0:df:25:13:65)

Destination: Kye_25:13:65 (00:c0:df:25:13:65)

Address: Kye_25:13:65 (00:c0:df:25:13:65)
                                              .... = LG bit: Globally unique
                address (factory default)
                . ...0 .... .... = IG bit: Individual address (unicast)
     Source: Hewlett-_c3:78:70 (00:21:5a:c3:78:70)
           Address: Hewlett-_c3:78:70 (00:21:5a:c3:78:70)
.... .0. .... = LG bit: Globally unique
               address (factory default)
           .... = IG bit: Individual address (unicast)
     Type: IP (0x0800)
Internet Protocol Version 4, Src: 172.16.50.254 (172.16.50.254),
Dst: 172.16.50.1 (172.16.50.1)
Internet Control Message Protocol
    Time Source
Protocol Length Info
677 870.718951000 172.16.50.1
TOMB 98 Echo (ping)
                                                               Destination
                                                               172.16.50.254
                                Echo (ping) reply
                                                              id=0x7295, seq=15/3840,
           ttl=64
Frame 677: 98 bytes on wire (784 bits), 98 bytes captured (784 bits
) on interface 0
Ethernet II, Src: Kye_25:13:65 (00:c0:df:25:13:65), Dst: Hewlett-
    address (factory default)
               . ...0 .... = IG bit: Individual address (unicast)
     Source: Kye_25:13:65 (00:c0:df:25:13:65)
    Address: Kye_25:13:65 (00:c0:df:25:13:65)
    ....    ....    ....    ....    = LG bit: Globally unique
               address (factory default)
           .... 0 .... = IG bit: Individual address (unicast)
     Type: IP (0x0800)
Internet Protocol Version 4, Src: 172.16.50.1 (172.16.50.1), Dst:
    172.16.50.254 (172.16.50.254)
Internet Control Message Protocol
    Time Source
Protocol Length Info
678 871.718867000 172.16.50.254
ICMP 98 Echo (ping) r
                                                               Destination
                                                               172.16.50.1
                                Echo (ping) request
                                                             id=0x7295, seq=16/4096,
           tt1=64
Frame 678: 98 bytes on wire (784 bits), 98 bytes captured (784 bits) on interface 0
Ethernet II, Src: Hewlett-_c3:78:70 (00:21:5a:c3:78:70), Dst:
    Kye_25:13:65 (00:c0:df:25:13:65)
```

```
Destination: Kye_25:13:65 (00:c0:df:25:13:65)
   Address: Kye_25:13:65 (00:c0:df:25:13:65)
   .... .0. .... = LG bit: Globally unique address (factory default)
      .... 0 .... = IG bit: Individual address (unicast)

Source: Hewlett-_c3:78:70 (00:21:5a:c3:78:70)
             address (factory default)
                     ...0 .... = IG bit: Individual address
      (unicast)
Type: IP (0x0800)
Internet Protocol Version 4, Src: 172.16.50.254 (172.16.50.254),
Dst: 172.16.50.1 (172.16.50.1)
Internet Control Message Protocol
     Time Source
Protocol Length Info
679 871.718934000 172.16.50.1
ICMP 98 Echo (ping) reply
                                                                         Destination
                                                                          172.16.50.254
                                                                        id=0x7295, seq=16/4096,
             tt1=64
Frame 679: 98 bytes on wire (784 bits), 98 bytes captured (784 bits
Frame 6/9: 98 bytes on wife (.c. 220.),
) on interface 0
Ethernet II, Src: Kye_25:13:65 (00:c0:df:25:13:65), Dst: Hewlett-
_c3:78:70 (00:21:5a:c3:78:70)

Destination: Hewlett-_c3:78:70 (00:21:5a:c3:78:70)

Address: Hewlett-_c3:78:70 (00:21:5a:c3:78:70)

......0. .... = LG bit: Globally unique
address (factory default)

0 .... = IG bit: Individual addres
             .... = IG bit: Individual address (unicast)
      Source: Kye_25:13:65 (00:c0:df:25:13:65)
             Address: Kye_25:13:65 (00:c0:df:25:13:65)
                     ..0. .... = LG bit: Globally unique
                 address (factory default)
             .... = IG bit: Individual address (unicast)
      Type: IP (0x0800)
Internet Protocol Version 4, Src: 172.16.50.1 (172.16.50.1), Dst: 172.16.50.254 (172.16.50.254)
Internet Control Message Protocol
     Time Source Destination
Protocol Length Info
681 872.718866000 172.16.50.254 172.16.50.1
ICMP 98 Echo (ping) request id=0x7295, seq=17/4352,
             tt1=64
Frame 681: 98 bytes on wire (784 bits), 98 bytes captured (784 bits
     ) on interface 0
Ethernet II, Src: Hewlett-_c3:78:70 (00:21:5a:c3:78:70), Dst:
    Kye_25:13:65 (00:c0:df:25:13:65)
    Destination: Kye_25:13:65 (00:c0:df:25:13:65)
    Address: Kye_25:13:65 (00:c0:df:25:13:65)
    ... .0. ... ... = LG bit: Globally unique
                 address (factory default)
                     ...0 .
      (unicast)

Source: Hewlett-_c3:78:70 (00:21:5a:c3:78:70)

Address: Hewlett-_c3:78:70 (00:21:5a:c3:78:70)

... .0. ... = LG bit: Globally unique
                                                     .... = IG bit: Individual address
             .... o .... = IG bit: Individual address (unicast)
      Type: IP (0x0800)
Internet Protocol Version 4, Src: 172.16.50.254 (172.16.50.254),
Dst: 172.16.50.1 (172.16.50.1)
Internet Control Message Protocol
No. Time Protocol Length Info
                                                                         Destination
```

```
682 872.718933000 172.16.50.1
                                                             172.16.50.254
                                                            id=0x7295, seq=17/4352,
         ICMP
                               Echo (ping) reply
                     98
           ttl=64
Frame 682: 98 bytes on wire (784 bits), 98 bytes captured (784 bits
address (factory default)
     .... 0 .... = IG bit: Individual address (unicast)

Source: Kye_25:13:65 (00:c0:df:25:13:65)
           Address: Kye_25:13:65 (00:c0:df:25:13:65)
.... ..0. .... = LG bit: Globally unique
              address (factory default)
                  ...0 .... = IG bit: Individual address
               (unicast)
Type: IP (0x0800)
Internet Protocol Version 4, Src: 172.16.50.1 (172.16.50.1), Dst: 172.16.50.254 (172.16.50.254)
Internet Control Message Protocol
    Time Source
Protocol Length Info
683 873.722881000 172.16.50.254
ICMP 98 Echo (ping) r
                                                             Destination
                                                             172.16.50.1
                                                            id=0x7295, seq=18/4608,
                               Echo (ping) request
           tt1=64
Frame 683: 98 bytes on wire (784 bits), 98 bytes captured (784 bits
address (factory default)
                 ...0 .... = IG bit: Individual address
              (unicast)
     Source: Hewlett-_c3:78:70 (00:21:5a:c3:78:70)
    Address: Hewlett-_c3:78:70 (00:21:5a:c3:78:70)
    .....0..... = LG bit: Globally unique
               address (factory default)
           .... = IG bit: Individual address (unicast)
     Type: IP (0x0800)
Internet Protocol Version 4, Src: 172.16.50.254 (172.16.50.254),
Dst: 172.16.50.1 (172.16.50.1)
Internet Control Message Protocol
    Time Source
Protocol Length Info
684 873.722944000 172.16.50.1
ICMP 98 Echo (ping)
                                                             Destination
                                                             172.16.50.254
                              Echo (ping) reply
                                                            id=0x7295, seq=18/4608,
Frame 684: 98 bytes on wire (784 bits), 98 bytes captured (784 bits
Frame 684: 98 bytes on wire (764 bits), 36 bytes captured) on interface 0

Ethernet II, Src: Kye_25:13:65 (00:c0:df:25:13:65), Dst: Hewlett-
_c3:78:70 (00:21:5a:c3:78:70)

Destination: Hewlett-_c3:78:70 (00:21:5a:c3:78:70)

Address: Hewlett-_c3:78:70 (00:21:5a:c3:78:70)

.....0..... = LG bit: Globally unique address (factory default)
                                             .... = IG bit: Individual address
     (unicast)
Source: Kye_25:13:65 (00:c0:df:25:13:65)
           Address: Kye_25:13:65 (00:c0:df:25:13:65)
.... .0. .... = LG bit: Globally unique
              address (factory default)
```

```
.... 0 .... = IG bit: Individual address (unicast)
Type: IP (0x0800)
Internet Protocol Version 4, Src: 172.16.50.1 (172.16.50.1), Dst: 172.16.50.254 (172.16.50.254)
Internet Control Message Protocol
        Time Source
Protocol Length Info
686 874.531619000 Cisco_3a:f6:0f
                                                                                                                   Destination
                                                                                                                   Cisco_3a:f6:0f
                                                          Reply
Frame 686: 60 bytes on wire (480 bits), 60 bytes captured (480 bits
.. ..0. .... .... default)
                     .... (unicast)
                                                                                   .... = IG bit: Individual address
          Source: Cisco_3a:f6:0f (fc:fb:fb:3a:f6:0f)
Address: Cisco_3a:f6:0f (fc:fb:fb:3a:f6:0f)
.... .0. .... = LG bit: Globally unique
address (factory default)
                             . ...0 .... = IG bit: Individual address (unicast)
Type: Loopback (0x9000)
Configuration Test Protocol (loopback)
Data (40 bytes)
0020 00 00 00 00 00 00 00 00
                    Time
                                                                                                                   Destination
                                                           Source
        Protocol Length Info
687 874.722856000 172.16.50.254
                                                                                                                   172.16.50.1
                  ICMP
                                         98
                                                          Echo (ping) request id=0x7295, seq=19/4864,
                     tt1=64
Frame 687: 98 bytes on wire (784 bits), 98 bytes captured (784 bits
Frame 687: 98 bytes on wife (764 blos), 36 s,the large of the property of the 
                             address (factory default)
                     .... 0 .... = IG bit: Individual address (unicast)
          Source: Hewlett-_c3:78:70 (00:21:5a:c3:78:70)
    Address: Hewlett-_c3:78:70 (00:21:5a:c3:78:70)
    .... .0. .... = LG bit: Globally unique
                          address (factory default)
                                 ...0 .... .... = IG bit: Individual address
          (unicast)
Type: IP (0x0800)
Internet Protocol Version 4, Src: 172.16.50.254 (172.16.50.254),
Dst: 172.16.50.1 (172.16.50.1)
Internet Control Message Protocol
        Time Source
Protocol Length Info
688 874.722925000 172.16.50.1
ICMP 98 Echo (ping) reply
                                                                                                                   Destination
                                                                                                                    172.16.50.254
                                                                                                                 id=0x7295, seq=19/4864,
                     tt1=64
Frame 688: 98 bytes on wire (784 bits), 98 bytes captured (784 bits
) on interface 0
Ethernet II, Src: Kye_25:13:65 (00:c0:df:25:13:65), Dst: Hewlett-
_c3:78:70 (00:21:5a:c3:78:70)
```

```
Destination: Hewlett-_c3:78:70 (00:21:5a:c3:78:70)
    Address: Hewlett-_c3:78:70 (00:21:5a:c3:78:70)
    .... .0. .... = LG bit: Globally unique
                   . ..O. .... .... default)
      .... ... 0 .... = IG bit: Individual address (unicast)

Source: Kye_25:13:65 (00:c0:df:25:13:65)
             Address: Kye_25:13:65 (00:c0:df:25:13:65)
.... ..0. .... = LG bit: Globally unique
                 address (factory default)
                      ...0 .... = IG bit: Individual address
                   (unicast)
       Type: IP (0x0800)
Internet Protocol Version 4, Src: 172.16.50.1 (172.16.50.1), Dst: 172.16.50.254 (172.16.50.254)
Internet Control Message Protocol
     Time Source
Protocol Length Info
689 875.722850000 172.16.50.254
ICMP 98 Echo (ping) request
                                                                             Destination
                                                                             172.16.50.1
                                                                           id=0x7295, seq=20/5120,
              tt1=64
Frame 689: 98 bytes on wire (784 bits), 98 bytes captured (784 bits
Frame 689: 98 bytes on wire (.61 222., ) on interface 0

Ethernet II, Src: Hewlett-_c3:78:70 (00:21:5a:c3:78:70), Dst: Kye_25:13:65 (00:c0:df:25:13:65)

Destination: Kye_25:13:65 (00:c0:df:25:13:65)

Address: Kye_25:13:65 (00:c0:df:25:13:65)

.....0...... = LG bit: Globally unique address (factory default)

0 ..... = IG bit: Individual address
                  ....0 .... = IG bit: Individual address (unicast)
      Source: Hewlett-_c3:78:70 (00:21:5a:c3:78:70)
    Address: Hewlett-_c3:78:70 (00:21:5a:c3:78:70)
    .....0..... = LG bit: Globally unique
                 address (factory default)
              .... = IG bit: Individual address (unicast)
       Type: IP (0x0800)
Internet Protocol Version 4, Src: 172.16.50.254 (172.16.50.254),
Dst: 172.16.50.1 (172.16.50.1)
Internet Control Message Protocol
     Time Source
Protocol Length Info
690 875.722909000 172.16.50.1
ICMP 98 Echo (ping)
                                                                             Destination
                                                                             172.16.50.254
                                      Echo (ping) reply
                                                                           id=0x7295, seq=20/5120,
              ttl=64
Frame 690: 98 bytes on wire (784 bits), 98 bytes captured (784 bits
     ) on interface 0
Ethernet II, Src: Kye_25:13:65 (00:c0:df:25:13:65), Dst: Hewlett-
_c3:78:70 (00:21:5a:c3:78:70)
Destination: Hewlett-_c3:78:70 (00:21:5a:c3:78:70)
Address: Hewlett-_c3:78:70 (00:21:5a:c3:78:70)
.....0. .... = LG bit: Globally unique
address (factory default)
      .... = IG b
(unicast)
Source: Kye_25:13:65 (00:c0:df:25:13:65)
                                                        .... = IG bit: Individual address
             Address: Kye_25:13:65 (00:c0:df:25:13:65)
.... .0. .... = LG bit: Globally unique
                   address (factory default)
                   . ...0 .... = IG bit: Individual address (unicast)
      Type: IP (0x0800)
Internet Protocol Version 4, Src: 172.16.50.1 (172.16.50.1), Dst: 172.16.50.254 (172.16.50.254)
Internet Control Message Protocol
     Time
Protocol Length Info
                                                                             Destination
```

```
692 876.722860000 172.16.50.254
                                                         172.16.50.1
         ICMP
                             Echo (ping) request id=0x7295, seq=21/5376,
                    98
          ttl=64
Frame 692: 98 bytes on wire (784 bits), 98 bytes captured (784 bits
address (factory default)
     address (factory default)
                 ...0 .
                         ... .... .... = IG bit: Individual address
              (unicast)
     Type: IP (0x0800)
Internet Protocol Version 4, Src: 172.16.50.254 (172.16.50.254),
Dst: 172.16.50.1 (172.16.50.1)
Internet Control Message Protocol
    Time Source
Protocol Length Info
693 876.722925000 172.16.50.1
ICMP 98 Echo (ping)
                                                         Destination
                                                         172.16.50.254
                             Echo (ping) reply
                                                        id=0x7295, seq=21/5376,
          tt1=64
Frame 693: 98 bytes on wire (784 bits), 98 bytes captured (784 bits
....0 .... = IG bit: Individual address (unicast)
     Source: Kye_25:13:65 (00:c0:df:25:13:65)
          Address: Kye_25:13:65 (00:c0:df:25:13:65)
                                          .... = LG bit: Globally unique
              address (factory default)
          .... = IG bit: Individual address (unicast)
     Type: IP (0x0800)
Internet Protocol Version 4, Src: 172.16.50.1 (172.16.50.1), Dst: 172.16.50.254 (172.16.50.254)
Internet Control Message Protocol
    Time Source
Protocol Length Info
694 877.722849000 172.16.50.254
ICMP 98 Echo (ping) r
                                                         Destination
                                                         172.16.50.1
                            Echo (ping) request id=0x7295, seq=22/5632,
Frame 694: 98 bytes on wire (784 bits), 98 bytes captured (784 bits
Frame 694: 98 bytes on wife (764 bits), 56 bytes darille.

) on interface 0

Ethernet II, Src: Hewlett-_c3:78:70 (00:21:5a:c3:78:70), Dst:

Kye_25:13:65 (00:c0:df:25:13:65)

Destination: Kye_25:13:65 (00:c0:df:25:13:65)

Address: Kye_25:13:65 (00:c0:df:25:13:65)

.... .0. .... = LG bit: Globally unique address (factory default)
                 ...0 .
                                         .... = IG bit: Individual address
     (unicast)
Source: Hewlett-_c3:78:70 (00:21:5a:c3:78:70)
Address: Hewlett-_c3:78:70 (00:21:5a:c3:78:70)
0 ... ... ... = LG bit: Globally unique
             address (factory default)
```

```
.... 0 .... = IG bit: Individual address (unicast)
           Type: IP (0x0800)
Internet Protocol Version 4, Src: 172.16.50.254 (172.16.50.254),
Dst: 172.16.50.1 (172.16.50.1)
Internet Control Message Protocol
        Time Protocol Length Info 695 877.722916000 1CMP 98
                                                                                                                           Destination
                                                              172.16.50.1
                                                                                                                           172.16.50.254
                                                              Echo (ping) reply
                                                                                                                         id=0x7295, seq=22/5632,
                      tt1=64
Frame 695: 98 bytes on wire (784 bits), 98 bytes captured (784 bits
| Trame 695: 96 Bytes on will | On interface 0 | Ethernet II, Src: Kye_25:13:65 (00:c0:df:25:13:65), Dst: Hewlett-_c3:78:70 (00:21:5a:c3:78:70) | Destination: Hewlett-_c3:78:70 (00:21:5a:c3:78:70) | Address: Hewlett-_c3:78:70 (00:21:5a:c3:78:70) | One factor | | One fa
                      Address: Hewlett-_c3:78:70 (00:21:5a:c3:78:70) .... ..0. .... = LG bit: Globally unique
                            address (factory default)
                                                                                          .... = IG bit: Individual address
                      (unicast)
                                     ...0 .
           Source: Kye_25:13:65 (00:c0:df:25:13:65)
    Address: Kye_25:13:65 (00:c0:df:25:13:65)
    .... ..0. .... = LG bit: Globally unique
                             address (factory default)
                      .... 0 .... = IG bit: Individual address (unicast)
Type: IP (0x0800)
Internet Protocol Version 4, Src: 172.16.50.1 (172.16.50.1), Dst: 172.16.50.254 (172.16.50.254)
Internet Control Message Protocol
        Destination
Frame 697: 98 bytes on wire (784 bits), 98 bytes captured (784 bits
) on interface 0

Ethernet II, Src: Hewlett-_c3:78:70 (00:21:5a:c3:78:70), Dst:
    Kye_25:13:65 (00:c0:df:25:13:65)
           Destination: Kye_25:13:65 (00:c0:df:25:13:65)
Address: Kye_25:13:65 (00:c0:df:25:13:65)
                                    . . 0 .
                                                                                          .... = LG bit: Globally unique
                               address (factory default)
                      .... = IG bit: Individual address (unicast)
          Source: Hewlett-_c3:78:70 (00:21:5a:c3:78:70)
Address: Hewlett-_c3:78:70 (00:21:5a:c3:78:70)
.... .0. ... ... = LG bit: Globally unique address (factory default)
                      .... = IG bit: Individual address (unicast)
Type: IP (0x0800)
Internet Protocol Version 4, Src: 172.16.50.254 (172.16.50.254),
Dst: 172.16.50.1 (172.16.50.1)
Internet Control Message Protocol
        Time Source
Protocol Length Info
698 878.722922000 172.16.50.1
CARROLL OR Echo (ping)
                                                                                                                           Destination
                                                                                                                           172.16.50.254
                                                               Echo (ping) reply
                                                                                                                        id=0x7295, seq=23/5888,
                      tt1=64
Frame 698: 98 bytes on wire (784 bits), 98 bytes captured (784 bits
        ) on interface 0
Ethernet II, Src: Kye_25:13:65 (00:c0:df:25:13:65), Dst: Hewlett-
_c3:78:70 (00:21:5a:c3:78:70)
Destination: Hewlett-_c3:78:70 (00:21:5a:c3:78:70)
Address: Hewlett-_c3:78:70 (00:21:5a:c3:78:70)
```

```
....0. .... = LG bit: Globally unique address (factory default)
                  . . 0 .
                                        .... = IG bit: Individual address
    .... = IG b
(unicast)
Source: Kye_25:13:65 (00:c0:df:25:13:65)
         Address: Kye_25:13:65 (00:c0:df:25:13:65)
.... = LG bit: Globally unique
            address (factory default)
          .... = IG bit: Individual address (unicast)
Type: IP (0x0800)
Internet Protocol Version 4, Src: 172.16.50.1 (172.16.50.1), Dst: 172.16.50.254 (172.16.50.254)
Internet Control Message Protocol
   Time SProtocol Length Info 702 884.539090000 CLOOP 60
                                                       Destination
                          Cisco_3a:f6:0f
                                                       Cisco_3a:f6:0f
                            Reply
Frame 702: 60 bytes on wire (480 bits), 60 bytes captured (480 bits
    ) on interface 0
address (factory default)
    address (lactory default)
....0 .... = IG bit: Individual address (unicast)

Source: Cisco_3a:f6:0f (fc:fb:fb:3a:f6:0f)
Address: Cisco_3a:f6:0f (fc:fb:fb:3a:f6:0f)
....0 ... = LG bit: Globally unique address (factory default)

= IC bit: Individual address
(unicast)
Type: Loopback (0x9000)
Configuration Test Protocol (loopback)
Data (40 bytes)
                                  .... = IG bit: Individual address
0020 00 00 00 00 00 00 00
                                                       Destination
         Time
                            Source
    Protocol Length Info
    704 886.614269000 Cisco_3a:f6:0f
                           Cisco_3a:f6:Of CDP/VTP/DTP/PAgP/UDLD Device ID: tux-sw5 Port ID: FastEthernet0
        CDP
                    436
         /13
Frame 704: 436 bytes on wire (3488 bits), 436 bytes captured (3488
bits) on interface 0 IEEE 802.3 Ethernet Logical-Link Control
Cisco Discovery Protocol
   Time Source
Protocol Length Info
709 894.532890000 Cisco_3a:f6:0f
LOOP 60 Reply
                                                       Destination
                                                       Cisco_3a:f6:0f
                           Reply
Frame 709: 60 bytes on wire (480 bits), 60 bytes captured (480 bits
address (factory default)
             . ...0 .... = IG bit: Individual address (unicast)
    Source: Cisco_3a:f6:0f (fc:fb:fb:3a:f6:0f)
Address: Cisco_3a:f6:0f (fc:fb:fb:3a:f6:0f)
```

```
. ..0. .... = LG bit: Globally unique address (factory default)
                                     . . 0
                                                                                  .... = IG bit: Individual address
                     (unicast)
Type: Loopback (0x9000)
Configuration Test Protocol (loopback)
Data (40 bytes)
0020 00 00 00 00 00 00 00 00
        Time Protocol Length Info 715 904.540316000 CLOOP 60
                                                                                                                  Destination
                                                          Source
                                                          Cisco_3a:f6:0f
                                                                                                                  Cisco_3a:f6:0f
                                                          Reply
Frame 715: 60 bytes on wire (480 bits), 60 bytes captured (480 bits
) on interface 0
Ethernet II, Src: Cisco_3a:f6:0f (fc:fb:fb:3a:f6:0f), Dst: Cisco_3a:f6:0f (fc:fb:fb:3a:f6:0f)
          Destination: Cisco_3a:f6:Of (fc:fb:fb:3a:f6:Of)
Address: Cisco_3a:f6:Of (fc:fb:fb:3a:f6:Of)
.....O....... = LG bit: Globally unique
address (factory default)
.....O...... = IG bit: Individual address
(unicast)
Source: Cisco_22:f6:Of (factor Cisco_22:f6
          address (factory default)
                            ....0 .... = IG bit: Individual address (unicast)
Type: Loopback (0x9000)
Configuration Test Protocol (loopback)
Data (40 bytes)
0020 00 00 00 00 00 00 00 00
       Time Source
Protocol Length Info
716 904.568170000 172.16.50.254
Echo (ping) r
                                                                                                                  Destination
                                                                                                                  172.16.50.1
                                                        Echo (ping) request id=0x72b4, seq=1/256,
                  ttl=64
Frame 716: 98 bytes on wire (784 bits), 98 bytes captured (784 bits
) on interface 0

Ethernet II, Src: Hewlett-_c3:78:70 (00:21:5a:c3:78:70), Dst:
    Kye_25:13:65 (00:c0:df:25:13:65)
    Destination: Kye_25:13:65 (00:c0:df:25:13:65)
    Address: Kye_25:13:65 (00:c0:df:25:13:65)
    ... .0. ... ... ... = LG bit: Globally unique
                          address (factory default)
                                 ...0
                                                   .. .... = IG bit: Individual address
         (unicast)
Source: Hewlett-_c3:78:70 (00:21:5a:c3:78:70)
Address: Hewlett-_c3:78:70 (00:21:5a:c3:78:70)
... .0. ... = LG bit: Globally unique address (factory default)
                     .... (unicast)
                                                          .... : .... = IG bit: Individual address
          Type: IP = 0.0800
Internet Protocol Version 4, Src: 172.16.50.254 (172.16.50.254),
   Dst: 172.16.50.1 (172.16.50.1)
Internet Control Message Protocol
No. Time
Protocol Length Info
                                                                                                                  Destination
```

```
717 904.568243000 172.16.50.1
                                                              172.16.50.254
                                                             id=0x72b4, seq=1/256,
          ICMP
                    98
                                Echo (ping) reply
          tt1=64
Frame 717: 98 bytes on wire (784 bits), 98 bytes captured (784 bits
.... 0 .... = IG bit: Individual address (unicast)

Source: Kye_25:13:65 (00:c0:df:25:13:65)
           Address: Kye_25:13:65 (00:c0:df:25:13:65)
.... ..0. .... = LG bit: Globally unique
              address (factory default)
                  ...0 .... = IG bit: Individual address
               (unicast)
Type: IP (0x0800)
Internet Protocol Version 4, Src: 172.16.50.1 (172.16.50.1), Dst: 172.16.50.254 (172.16.50.254)
Internet Control Message Protocol
    Time Source
Protocol Length Info
718 905.567138000 172.16.50.254
ICMP 98 Echo (ping) r
                                                              Destination
                                                              172.16.50.1
                                                             id=0x72b4, seq=2/512,
                               Echo (ping) request
          tt1=64
Frame 718: 98 bytes on wire (784 bits), 98 bytes captured (784 bits
address (factory default)
                 ...0 .... = IG bit: Individual address
               (unicast)
     Source: Hewlett-_c3:78:70 (00:21:5a:c3:78:70)
    Address: Hewlett-_c3:78:70 (00:21:5a:c3:78:70)
    .....0..... = LG bit: Globally unique
               address (factory default)
           .... = IG bit: Individual address (unicast)
     Type: IP (0x0800)
Internet Protocol Version 4, Src: 172.16.50.254 (172.16.50.254),
Dst: 172.16.50.1 (172.16.50.1)
Internet Control Message Protocol
    Time Source
Protocol Length Info
719 905.567208000 172.16.50.1
ICMP 98 Echo (ping)
                                                              Destination
                                                              172.16.50.254
                               Echo (ping) reply
                                                             id=0x72b4, seq=2/512,
          tt1=64
Frame 719: 98 bytes on wire (784 bits), 98 bytes captured (784 bits
Frame (19: 98 bytes on wife (704 bits), 35 bytes days.
) on interface 0

Ethernet II, Src: Kye_25:13:65 (00:c0:df:25:13:65), Dst: Hewlett-
_c3:78:70 (00:21:5a:c3:78:70)

Destination: Hewlett-_c3:78:70 (00:21:5a:c3:78:70)

Address: Hewlett-_c3:78:70 (00:21:5a:c3:78:70)

.....0..... = LG bit: Globally unique address (factory default)
                                              .... = IG bit: Individual address
     .... = IG b
(unicast)
Source: Kye_25:13:65 (00:c0:df:25:13:65)
                  ...0 .
           Address: Kye_25:13:65 (00:c0:df:25:13:65)
.... .0. .... = LG bit: Globally unique
              address (factory default)
```

```
.... 0 .... = IG bit: Individual address (unicast)
Type: IP (0x0800)
Internet Protocol Version 4, Src: 172.16.50.1 (172.16.50.1), Dst: 172.16.50.254 (172.16.50.254)
Internet Control Message Protocol
     Time Source
Protocol Length Info
721 906.566738000 172.16.50.254
                                                                            Destination
                                                                            172.16.50.1
            TCMP
                          98
                                      Echo (ping) request
                                                                           id=0x72b4, seq=3/768,
            tt1=64
Frame 721: 98 bytes on wild (...)
) on interface 0
Ethernet II, Src: Hewlett-_c3:78:70 (00:21:5a:c3:78:70), Dst:
    Kye_25:13:65 (00:c0:df:25:13:65)
    Destination: Kye_25:13:65 (00:c0:df:25:13:65)
    Address: Kye_25:13:65 (00:c0:df:25:13:65)
    ... .0. ... = LG bit: Globally unique
Frame 721: 98 bytes on wire (784 bits), 98 bytes captured (784 bits
                  address (factory default)
                                                       .... = IG bit: Individual address
      .... 0 .... = IG bit: Individual address (unicast)
Type: IP (0x0800)
Internet Protocol Version 4, Src: 172.16.50.254 (172.16.50.254),
Dst: 172.16.50.1 (172.16.50.1)
Internet Control Message Protocol
     Time Source
Protocol Length Info
722 906.566807000 172.16.50.1
TCMP 98 Echo (ping) reply
                                                                            Destination
                                                                            172.16.50.254
                                                                           id=0x72b4, seq=3/768,
Frame 722: 98 bytes on wire (784 bits), 98 bytes captured (784 bits
Frame 722: 98 bytes on wire (784 bits), 90 bytes captured (784 bits) on interface 0

Ethernet II, Src: Kye_25:13:65 (00:c0:df:25:13:65), Dst: Hewlett-_c3:78:70 (00:21:5a:c3:78:70)

Destination: Hewlett-_c3:78:70 (00:21:5a:c3:78:70)

Address: Hewlett-_c3:78:70 (00:21:5a:c3:78:70)

.... .0. .... = LG bit: Globally unique address (factory default)
              .... = IG bit: Individual address (unicast)
       Source: Kye_25:13:65 (00:c0:df:25:13:65)
Address: Kye_25:13:65 (00:c0:df:25:13:65)
              .... ..0. ....
                                       .... = LG bit: Globally unique
                  address (factory default)
              .... = IG bit: Individual address (unicast)
Type: IP (0x0800)
Internet Protocol Version 4, Src: 172.16.50.1 (172.16.50.1), Dst: 172.16.50.254 (172.16.50.254)
Internet Control Message Protocol
     Time Source
Protocol Length Info
723 907.566743000 172.16.50.254
ICMP 98 Echo (ping) r
                                                                            Destination
                                                                            172.16.50.1
                                       Echo (ping) request id=0x72b4, seq=4/1024,
            ttl=64
Frame 723: 98 bytes on wire (784 bits), 98 bytes captured (784 bits
     ) on interface 0
Ethernet II, Src: Hewlett-_c3:78:70 (00:21:5a:c3:78:70), Dst: Kye_25:13:65 (00:c0:df:25:13:65)
    Destination: Kye_25:13:65 (00:c0:df:25:13:65)
    Address: Kye_25:13:65 (00:c0:df:25:13:65)
```

```
....0. .... = LG bit: Globally unique address (factory default)
    .....0 .... (unicast)

Source: Hewlett-_c3:78:70 (00:21:5a:c3:78:70)

Address: Hewlett-_c3:78:70 (00:21:5a:c3:78:70)

.....0 .... = LG bit: Globally unique

(factory default)

= TG bit: Individual address
                                         .... = IG bit: Individual address
          .... = IG bit: Individual address (unicast)
     Type: IP (0x0800)
Internet Protocol Version 4, Src: 172.16.50.254 (172.16.50.254),
Dst: 172.16.50.1 (172.16.50.1)
Internet Control Message Protocol
    Time Source
Protocol Length Info
724 907.566814000 172.16.50.1
70MD 98 Echo (ping) reply
                                                        Destination
                                                         172.16.50.254
                                                       id=0x72b4, seq=4/1024,
Frame 724: 98 bytes on wire (784 bits), 98 bytes captured (784 bits
(unicast)
                                         .... = IG bit: Individual address
     Source: Kye_25:13:65 (00:c0:df:25:13:65)
          Address: Kye_25:13:65 (00:c0:df:25:13:65)
          .... ..0. .... = LG bit: Globally unique address (factory default) = IG bit: Individual address
                ..0. ...
              (unicast)
     Type: IP (0x0800)
Internet Protocol Version 4, Src: 172.16.50.1 (172.16.50.1), Dst: 172.16.50.254 (172.16.50.254)
Internet Control Message Protocol
    Time
Protocol Length Info
726 909.574407000 I
                                                        Destination
                             Source
                             Frame 726: 42 bytes on wire (336 bits), 42 bytes captured (336 bits
(unicast)
                                         .... = IG bit: Individual address
     Source: Kye_25:13:65 (00:c0:df:25:13:65)
    Address: Kye_25:13:65 (00:c0:df:25:13:65)
    ... .0. ... ... = LG bit: Globally unique address (factory default)
          .... = IG bit: Individual address (unicast)
     Type: ARP (0x0806)
Address Resolution Protocol (request)
    Time Source
Protocol Length Info
727 909.574556000 Hewlett-_c3:78:70 Kye_25:13:65
ARP 60 172.16.50.254 is at 00:21:5a:c3:78:70
Frame 727: 60 bytes on wire (480 bits), 60 bytes captured (480 bits
    ) on interface 0
```

```
address (factory default)
                 ...0 .
                         ... .... .... = IG bit: Individual address
     (unicast)
Source: Hewlett-_
          ce: Hewlett-_c3:78:70 (00:21:5a:c3:78:70)
Address: Hewlett-_c3:78:70 (00:21:5a:c3:78:70)
... .0. ... = LG bit: Globally unique address (factory default)

= IG bit: Individual address
     Address Resolution Protocol (reply)
    Time S
Protocol Length Info
731 914.547665000 (
LOOP 60
                              Source
                                                          Destination
                              Cisco_3a:f6:0f
                                                          Cisco_3a:f6:0f
                              Reply
Frame 731: 60 bytes on wire (480 bits), 60 bytes captured (480 bits) on interface 0

Ethernet II, Src: Cisco_3a:f6:0f (fc:fb:fb:3a:f6:0f), Dst: Cisco_3a:f6:0f (fc:fb:fb:3a:f6:0f)
     Destination: Cisco_3a:f6:0f (fc:fb:fb:3a:f6:0f)
Address: Cisco_3a:f6:0f (fc:fb:fb:3a:f6:0f)
.... ..0. .... ... ... = LG bit: Globally unique
              address (factory default)
                ...0 .... = IG bit: Individual address
              (unicast)
     Source: Cisco_3a:f6:0f (fc:fb:fb:3a:f6:0f)
Address: Cisco_3a:f6:0f (fc:fb:fb:3a:f6:0f)
.... = LG bit: Globally unique
              address (factory default)
          .... = IG bit: Individual address (unicast)
     Type: Loopback (0x9000)
Configuration Test Protocol (loopback)
Data (40 bytes)
0020 00 00 00 00 00 00 00
    Time Source
Protocol Length Info
737 924.555060000 Cisco_3a:f6:0f
                                                          Destination
                                                          Cisco_3a:f6:0f
                             Reply
Frame 737: 60 bytes on wire (480 bits), 60 bytes captured (480 bits
) on interface 0
Ethernet II, Src: Cisco_3a:f6:0f (fc:fb:fb:3a:f6:0f), Dst: Cisco_3a:f6:0f (fc:fb:fb:3a:f6:0f)
     Destination: Cisco_3a:f6:Of (fc:fb:fb:3a:f6:Of)
   Address: Cisco_3a:f6:Of (fc:fb:fb:3a:f6:Of)
   .... .... .... .... = LG bit: Globally unique
             address (factory default)
                ...0 ....
                                           .... = IG bit: Individual address
              (unicast)
     Source: Cisco_3a:f6:0f (fc:fb:fb:3a:f6:0f)
Address: Cisco_3a:f6:0f (fc:fb:fb:3a:f6:0f)
.... .0. ... ... = LG bit: Globally unique
address (factory default)
              . ...0 .... = IG bit: Individual address (unicast)
Type: Loopback (0x9000)
Configuration Test Protocol (loopback)
Data (40 bytes)
```

```
0020 00 00 00 00 00 00 00
   Time SProtocol Length Info 743 934.554044000 CLOOP 60
                           Source
                                                      Destination
                           Cisco_3a:f6:0f
                                                      Cisco_3a:f6:0f
                           Reply
Frame 743: 60 bytes on wire (480 bits), 60 bytes captured (480 bits
on interface 0

Ethernet II, Src: Cisco_3a:f6:0f (fc:fb:fb:3a:f6:0f), Dst: Cisco_3a:f6:0f (fc:fb:fb:3a:f6:0f)
    Destination: Cisco_3a:f6:0f (fc:fb:fb:3a:f6:0f)
Address: Cisco_3a:f6:0f (fc:fb:fb:3a:f6:0f)
.... .0. .... ... = LG bit: Globally unique
address (factory default)
.... .0 .... = TC bit. Today 1
          \dots = IG bit: Individual address
             (unicast)
    .... = LG bit: Globally unique
             address (factory default)
             ....0 .... = IG bit: Individual address (unicast)
     Type: Loopback (0x9000)
Configuration Test Protocol (loopback)
Data (40 bytes)
0020 00 00 00 00 00 00 00
   Time Protocol Length Info 744 936.016159000
                                                      Destination
                           172.16.50.254
                                                      172.16.50.1
        TCMP
                   98
                          Echo (ping) request id=0x72c7, seq=1/256,
        tt1=64
Frame 744: 98 bytes on wire (784 bits), 98 bytes captured (784 bits
) on interface 0

Ethernet II, Src: Hewlett-_c3:78:70 (00:21:5a:c3:78:70), Dst:
    Kye_25:13:65 (00:c0:df:25:13:65)
    Destination: Kye_25:13:65 (00:c0:df:25:13:65)
    Address: Kye_25:13:65 (00:c0:df:25:13:65)
    .... .0. .... = LG bit: Globally unique
            address (factory default)
                       ... .... : IG bit: Individual address
    .... = IG bit: Individual address (unicast)
Type: IP (0x0800)
Internet Protocol Version 4, Src: 172.16.50.254 (172.16.50.254),
Dst: 172.16.50.1 (172.16.50.1)
Internet Control Message Protocol
   Time Source
Protocol Length Info
745 936.016227000 172.16.50.1
98 Echo (ping)
                                                      Destination
                                                      172.16.50.254
                           Echo (ping) reply
                                                     id=0x72c7, seq=1/256,
        ttl=64
Frame 745: 98 bytes on wire (784 bits), 98 bytes captured (784 bits
    ) on interface 0
Ethernet II, Src: Kye_25:13:65 (00:c0:df:25:13:65), Dst: Hewlett-
_c3:78:70 (00:21:5a:c3:78:70)
Destination: Hewlett-_c3:78:70 (00:21:5a:c3:78:70)
Address: Hewlett-_c3:78:70 (00:21:5a:c3:78:70)
```

```
....0. .... = LG bit: Globally unique address (factory default)
                                               .... = IG bit: Individual address
      .... = IG b
(unicast)
Source: Kye_25:13:65 (00:c0:df:25:13:65)
           Address: Kye_25:13:65 (00:c0:df:25:13:65)
.... = LG bit: Globally unique
               address (factory default)
            .... = IG bit: Individual address (unicast)
Type: IP (0x0800)
Internet Protocol Version 4, Src: 172.16.50.1 (172.16.50.1), Dst: 172.16.50.254 (172.16.50.254)
Internet Control Message Protocol
    Time Source
Protocol Length Info
747 937.015121000 172.16.50.254 172.16.50.1
TCMP 98 Echo (ping) request id=0x72c7, seq=2/512,
Frame 747: 98 bytes on wire (784 bits), 98 bytes captured (784 bits
    on interface 0
ernet II, Src: Hewlett-_c3:78:70 (00:21:5a:c3:78:70), Dst:
Kye_25:13:65 (00:c0:df:25:13:65)
Destination: Kye_25:13:65 (00:c0:df:25:13:65)
Address: Kye_25:13:65 (00:c0:df:25:13:65)
Ethernet
            .... o.... = LG bit: Globally unique address (factory default)
..... = IG bit: Individual address
               (unicast)
      Source: Hewlett-_c3:78:70 (00:21:5a:c3:78:70)
           Address: Hewlett-_c3:78:70 (00:21:5a:c3:78:70)
... .0. ... ... = LG bit: Globally unique address (factory default)
            .... = IG bit: Individual address (unicast)
      Type: IP (0x0800)
Internet Protocol Version 4, Src: 172.16.50.254 (172.16.50.254),
Dst: 172.16.50.1 (172.16.50.1)
Internet Control Message Protocol
    Time Source
Protocol Length Info
748 937.015186000 172.16.50.1
ICMP 98 Echo (ping)
                                                                Destination
                                                                172.16.50.254
                                 Echo (ping) reply
                                                               id=0x72c7, seq=2/512,
          tt1=64
Frame 748: 98 bytes on wire (784 bits), 98 bytes captured (784 bits
address (factory default)
     .... 0 .... = IG b
(unicast)
Source: Kye_25:13:65 (00:c0:df:25:13:65)
                                               .... = IG bit: Individual address
           Address: Kye_25:13:65 (00:c0:df:25:13:65)
.... = LG bit: Globally unique
              address (factory default)
            .... ...0 .... e IG bit: Individual address (unicast)
Type: IP (0x0800)
Internet Protocol Version 4, Src: 172.16.50.1 (172.16.50.1), Dst: 172.16.50.254 (172.16.50.254)
Internet Control Message Protocol
    Time Source
Protocol Length Info
749 938.014628000 172.16.50.254
Page 98 Echo (ping) re
                                                                Destination
                                                                172.16.50.1
                                 Echo (ping) request id=0x72c7, seq=3/768,
```

```
tt1=64
```

```
Frame 749: 98 bytes on wire (784 bits), 98 bytes captured (784 bits
     ) on interface 0
Ethernet II, Src: Hewlett-_c3:78:70 (00:21:5a:c3:78:70), Dst: Kye_25:13:65 (00:c0:df:25:13:65)
      Destination: Kye_25:13:65 (00:c0:df:25:13:65)
Address: Kye_25:13:65 (00:c0:df:25:13:65)
.... ..0. .... = LG bit: Globally unique
                address (factory default)
      .... = IG bit: Individual address
            .... = IG bit: Individual address (unicast)
      Type: IP (0x0800)
Internet Protocol Version 4, Src: 172.16.50.254 (172.16.50.254),
Dst: 172.16.50.1 (172.16.50.1)
Internet Control Message Protocol
     Time Source
Protocol Length Info
750 938.014693000 172.16.50.1
TOMP 98 Echo (ping) reply
                                                                   Destination
                                                                    172.16.50.254
                                                                  id=0x72c7, seq=3/768,
Frame 750: 98 bytes on wire (784 bits), 98 bytes captured (784 bits
Frame 750: 98 bytes on wife (764 blos), 35 cl., 17 ) on interface 0

Ethernet II, Src: Kye_25:13:65 (00:c0:df:25:13:65), Dst: Hewlett-
_c3:78:70 (00:21:5a:c3:78:70)

Destination: Hewlett-_c3:78:70 (00:21:5a:c3:78:70)

Address: Hewlett-_c3:78:70 (00:21:5a:c3:78:70)

.... .0. ... ... = LG bit: Globally unique address (factory default)

0 .... = IG bit: Individual addres
                                                 .... = IG bit: Individual address
            .... (unicast)
      Source: Kye_25:13:65 (00:c0:df:25:13:65)
            Address: Kye_25:13:65 (00:c0:df:25:13:65)
.... ... = LG bit: Globally unique address (factory default)

= TG bit: Individual addr
            .... = IG bit: Individual address (unicast)
      Type: IP (0x0800)
Internet Protocol Version 4, Src: 172.16.50.1 (172.16.50.1), Dst: 172.16.50.254 (172.16.50.254)
Internet Control Message Protocol
     Time Source
Protocol Length Info
752 939.014642000 172.16.50.254
98 Echo (ping) r
                                                                   Destination
                                                                   172.16.50.1
                                  Echo (ping) request id=0x72c7, seq=4/1024,
           ttl=64
Frame 752: 98 bytes on wire (784 bits), 98 bytes captured (784 bits
) on interface 0

Ethernet II, Src: Hewlett-_c3:78:70 (00:21:5a:c3:78:70), Dst:
    Kye_25:13:65 (00:c0:df:25:13:65)
    Destination: Kye_25:13:65 (00:c0:df:25:13:65)
    Address: Kye_25:13:65 (00:c0:df:25:13:65)
                 . ..0. .... .... .... address (factory default)
                    . . 0 .
                                                      . = LG bit: Globally unique
      ... .... .... = IG bit: Individual address
            .... = IG bit: Individual address (unicast)
      Type: IP (0x0800)
```

```
Internet Protocol Version 4, Src: 172.16.50.254 (172.16.50.254),
   Dst: 172.16.50.1 (172.16.50.1)
Internet Control Message Protocol
    Time Source
Protocol Length Info
753 939.014706000 172.16.50.1
ICMP 98 Echo (ping)
                                                           Destination
                                                           172.16.50.254
                              Echo (ping) reply
                                                          id=0x72c7, seq=4/1024,
         tt1=64
Frame 753: 98 bytes on wire (784 bits), 98 bytes captured (784 bits
....0 .... uerault)
.....0 .... = IG bit: Individual address
(unicast)
     Source: Kye_25:13:65 (00:c0:df:25:13:65)
Address: Kye_25:13:65 (00:c0:df:25:13:65)
                                        . .... = LG bit: Globally unique
              address (factory default)
           .... = IG bit: Individual address (unicast)
     Type: IP (0x0800)
Time Source
Protocol Length Info
756 943.104069000 172.16.50.254
ICMP 98 Echo (ping) r
                                                           Destination
                                                           172.16.50.1
                              Echo (ping) request id=0x72cb, seq=1/256,
Frame 756: 98 bytes on wire (784 bits), 98 bytes captured (784 bits
) on interface 0

Ethernet II, Src: Hewlett-_c3:78:70 (00:21:5a:c3:78:70), Dst:
    Kye_25:13:65 (00:c0:df:25:13:65)
    Destination: Kye_25:13:65 (00:c0:df:25:13:65)
    Address: Kye_25:13:65 (00:c0:df:25:13:65)
    ... .0. ... ... = LG bit: Globally unique
              address (factory default)
     .....0 .... (unicast)

Source: Hewlett-_c3:78:70 (00:21:5a:c3:78:70)

Address: Hewlett-_c3:78:70 (00:21:5a:c3:78:70)

.....0 .... = LG bit: Globally unique

(factory default)

= TG bit: Individual address
                                           .... = IG bit: Individual address
                 ...0 .... = IG bit: Individual address
               (unicast)
     Type: IP (0x0800)
Internet Protocol Version 4, Src: 172.16.50.254 (172.16.50.254),
Dst: 172.16.50.1 (172.16.50.1)
Internet Control Message Protocol
    Time Protocol Length Info 757 943.104138000
                                                           Destination
                              Source
                              172.16.50.1
                                                           172.16.50.254
                              Echo (ping) reply
                                                          id=0x72cb, seq=1/256,
         ttl=64
Frame 757: 98 bytes on wire (784 bits), 98 bytes captured (784 bits
address (factory default)
                                           .... = IG bit: Individual address
                 ...0 .
               (unicast)
```

```
Source: Kye_25:13:65 (00:c0:df:25:13:65)
         Address: Kye_25:13:65 (00:c0:df:25:13:65)
.... ..0. .... = LG bit: Globally unique
            address (factory default)
          .... = IG bit: Individual address (unicast)
     Type: IP (0x0800)
Internet Protocol Version 4, Src: 172.16.50.1 (172.16.50.1), Dst: 172.16.50.254 (172.16.50.254)
Internet Control Message Protocol
   Time
Protocol Length Info
758 944.103070000
                                                      Destination
                           Source
                           172.16.50.254
                                                       172.16.50.1
                            Echo (ping) request id=0x72cb, seq=2/512,
        ICMP
         tt1=64
Frame 758: 98 bytes on wire (784 bits), 98 bytes captured (784 bits
address (factory default)
                                              = LG bit: Globally unique
          .... = IG bit: Individual address (unicast)
    Source: Hewlett-_c3:78:70 (00:21:5a:c3:78:70)
    Address: Hewlett-_c3:78:70 (00:21:5a:c3:78:70)
    ... .0. ... = LG bit: Globally unique address (factory default)
               ...0 .... = IG bit: Individual address
             (unicast)
    Type: IP (0x0800)
Internet Protocol Version 4, Src: 172.16.50.254 (172.16.50.254),
Dst: 172.16.50.1 (172.16.50.1)
Internet Control Message Protocol
   Time Source
Protocol Length Info
759 944.103131000 172.16.50.1
ICMP 98 Echo (ping)
                                                      Destination
                                                       172.16.50.254
                            Echo (ping) reply
                                                     id=0x72cb, seq=2/512,
Frame 759: 98 bytes on wire (784 bits), 98 bytes captured (784 bits
address (factory default)
    .... = IG bit: Individual address (unicast)

Source: Kye_25:13:65 (00:c0:df:25:13:65)
         Address: Kye_25:13:65 (00:c0:df:25:13:65)
.... .0. .... = LG bit: Globally unique
            address (factory default)
          .... = IG bit: Individual address (unicast)
     Type: IP (0x0800)
Internet Protocol Version 4, Src: 172.16.50.1 (172.16.50.1), Dst: 172.16.50.254 (172.16.50.254)
Internet Control Message Protocol
   Time Source
Protocol Length Info
761 944.561455000 Cisco_3a:f6:0f
LOOP 60 Reply
                                                      Destination
                                                      Cisco_3a:f6:0f
                            Reply
Frame 761: 60 bytes on wire (480 bits), 60 bytes captured (480 bits
    ) on interface 0
```

```
address (factory default)
                                                 ... .... .... = IG bit: Individual address
                                  ...0 .
         . ..O. .... .... .... address (factory default)
                             . ...0 .... = IG bit: Individual address (unicast)
Type: Loopback (0x9000)
Configuration Test Protocol (loopback)
Data (40 bytes)
0020 00 00 00 00 00 00 00
        Time Source Destination
Protocol Length Info
762 945.102612000 172.16.50.254 172.16.50.1
ICMP 98 Echo (ping) request id=0x72cb, seq=3/768,
                   tt1=64
Frame 762: 98 bytes on wire (784 bits), 98 bytes captured (784 bits
       me 702: 90 bytes on wife (102); 90 bytes on wife (102)
Ethernet
                          Source: Hewlett-_c3:78:70 (00:21:5a:c3:78:70)
                    Address: Hewlett -c3:78:70 (00:21:5a:c3:78:70)
... .0. ... ... = LG bit: Globally unique address (factory default)

= LG bit: Individual address
                     .... = IG bit: Individual address (unicast)
Type: IP (0x0800)
Internet Protocol Version 4, Src: 172.16.50.254 (172.16.50.254),
Dst: 172.16.50.1 (172.16.50.1)
Internet Control Message Protocol
       Time Source
Protocol Length Info
763 945.102679000 172.16.50.1
CONTROL OR Echo (ping)
                                                                                                                  Destination
                                                                                                                  172.16.50.254
                                                        Echo (ping) reply
                                                                                                               id=0x72cb, seq=3/768,
                  ttl=64
Frame 763: 98 bytes on wire (784 bits), 98 bytes captured (784 bits
        ) on interface 0
Ethernet II, Src: Kye_25:13:65 (00:c0:df:25:13:65), Dst: Hewlett-
_c3:78:70 (00:21:5a:c3:78:70)
Destination: Hewlett-_c3:78:70 (00:21:5a:c3:78:70)
Address: Hewlett-_c3:78:70 (00:21:5a:c3:78:70)
.... ..0. .... = LG bit: Globally unique
                             address (factory default)
          .... = IG b
(unicast)
Source: Kye_25:13:65 (00:c0:df:25:13:65)
                                                                                  .... = IG bit: Individual address
                    Address: Kye_25:13:65 (00:c0:df:25:13:65)
.... = LG bit: Globally unique
                          address (factory default)
                     .... 0 .... = IG bit: Individual address (unicast)
          Type: IP (0x0800)
```

```
Internet Protocol Version 4, Src: 172.16.50.1 (172.16.50.1), Dst: 172.16.50.254 (172.16.50.254) Internet Control Message Protocol
                                                                 Destination
           Time
                                 Source
    Protocol Length Info
764 946.102600000 172.16.50.254
ICMP 98 Echo (ping) r
                                                                 172.16.50.1
                                 Echo (ping) request
                                                                id=0x72cb, seq=4/1024,
          tt1=64
Frame 764: 98 bytes on wire (784 bits), 98 bytes captured (784 bits
) on interface 0

Ethernet II, Src: Hewlett-_c3:78:70 (00:21:5a:c3:78:70), Dst:
    Kye_25:13:65 (00:c0:df:25:13:65)
    Destination: Kye_25:13:65 (00:c0:df:25:13:65)
    Address: Kye_25:13:65 (00:c0:df:25:13:65)
    .... .0. .... = LG bit: Globally unique
               address (factory default)
               ....0 .... = IG bit: Individual address (unicast)
     Source: Hewlett-_c3:78:70 (00:21:5a:c3:78:70)
Address: Hewlett-_c3:78:70 (00:21:5a:c3:78:70)
.... = LG bit: Globally unique
               address (factory default)
            .... = IG bit: Individual address (unicast)
      Type: IP (0x0800)
Internet Protocol Version 4, Src: 172.16.50.254 (172.16.50.254),
   Dst: 172.16.50.1 (172.16.50.1)
Internet Control Message Protocol
    Time Source
Protocol Length Info
765 946.102661000 172.16.50.1
ICMP 98 Echo (ping)
                                                                 Destination
                                                                 172.16.50.254
                                 Echo (ping) reply
                                                                id=0x72cb, seq=4/1024,
          tt1=64
Frame 765: 98 bytes on wire (784 bits), 98 bytes captured (784 bits
.... (unicast)
                                                .... = IG bit: Individual address
      Source: Kye_25:13:65 (00:c0:df:25:13:65)
           Address: Kye_25:13:65 (00:c0:df:25:13:65)
... .0. ... = LG bit: Globally unique address (factory default)
                  ...0 .... = IG bit: Individual address
                (unicast)
      Type: IP (0x0800)
Internet Protocol Version 4, Src: 172.16.50.1 (172.16.50.1), Dst: 172.16.50.254 (172.16.50.254)
Internet Control Message Protocol
    Time
Protocol Length Info
                                                                 Destination
                                 Source
      767 946.621446000 Cisco_3a:f6:Of CDP/VTP/DTP/PAgP/UDLD CDP 436 Device ID: tux-sw5 Port ID: FastEthernet0
          /13
Frame 767: 436 bytes on wire (3488 bits), 436 bytes captured (3488
bits) on interface 0 IEEE 802.3 Ethernet Logical-Link Control
Cisco Discovery Protocol
    Time Source
Protocol Length Info
768 947.102610000 172.16.50.254
ICMP 98 Echo (ping) re
                                                                 Destination
                                                                 172.16.50.1
                                 Echo (ping) request id=0x72cb, seq=5/1280,
```

```
tt1=64
Frame 768: 98 bytes on wire (784 bits), 98 bytes captured (784 bits
     ) on interface 0
Ethernet II, Src: Hewlett-_c3:78:70 (00:21:5a:c3:78:70), Dst:
    Kye_25:13:65 (00:c0:df:25:13:65)
    Destination: Kye_25:13:65 (00:c0:df:25:13:65)
    Address: Kye_25:13:65 (00:c0:df:25:13:65)
    ... .0. ... ... ... = LG bit: Globally unique
                 address (factory default)
      . . . 0
                                                   .... = IG bit: Individual address
                  address (factory default)
             .... = IG bit: Individual address (unicast)
      Type: IP (0x0800)
Internet Protocol Version 4, Src: 172.16.50.254 (172.16.50.254),
Dst: 172.16.50.1 (172.16.50.1)
Internet Control Message Protocol
     Time Source
Protocol Length Info
769 947.102689000 172.16.50.1
ICMP 98 Echo (ping) reply
                                                                      Destination
                                                                      172.16.50.254
                                                                    id=0x72cb, seq=5/1280,
           ttl=64
Frame 769: 98 bytes on wire (784 bits), 98 bytes captured (784 bits
Frame 769: 98 bytes on wife (764 blos), 35 cl., 17 ) on interface 0

Ethernet II, Src: Kye_25:13:65 (00:c0:df:25:13:65), Dst: Hewlett-
_c3:78:70 (00:21:5a:c3:78:70)

Destination: Hewlett-_c3:78:70 (00:21:5a:c3:78:70)

Address: Hewlett-_c3:78:70 (00:21:5a:c3:78:70)

.... .0. ... ... = LG bit: Globally unique address (factory default)

0 .... = IG bit: Individual address
             .... = IG bit: Individual address (unicast)
      Source: Kye_25:13:65 (00:c0:df:25:13:65)
            Address: Kye_25:13:65 (00:c0:df:25:13:65)
.... ... = LG bit: Globally unique address (factory default)

= TG bit: Individual addr
             .... = IG bit: Individual address (unicast)
      Type: IP (0x0800)
Internet Protocol Version 4, Src: 172.16.50.1 (172.16.50.1), Dst: 172.16.50.254 (172.16.50.254)
Internet Control Message Protocol
     Time SProtocol Length Info 770 948.118404000 H
                                                                      Destination
                                    Source
                                   Kye_25:13:65 H
Who has 172.16.50.254?
                                                                      Hewlett-_c3:78:70
Tell 172.16.50.1
Frame 770: 42 bytes on wire (336 bits), 42 bytes captured (336 bits
```

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.... (unicast)

Address Resolution Protocol (request)

Type: ARP (0x0806)

Source: Kye_25:13:65 (00:c0:df:25:13:65)

Address: Kye_25:13:65 (00:c0:df:25:13:65)

address (factory default)

.... = IG bit: Individual address (unicast)

.... = IG bit: Individual address

```
Time Protocol Length Info 771 948.118538000
                              Source
                                                           Destination
                              A R.P
                    60
Frame 771: 60 bytes on wire (480 bits), 60 bytes captured (480 bits ) on interface 0

Ethernet II, Src: Hewlett-_c3:78:70 (00:21:5a:c3:78:70), Dst: Kye_25:13:65 (00:c0:df:25:13:65)

Destination: Kye_25:13:65 (00:c0:df:25:13:65)

Address: Kye_25:13:65 (00:c0:df:25:13:65)

.... .0 .... ... = LG bit: Globally unique
              address (factory default)
          .... = IG bit: Individual address (unicast)
     Source: Hewlett-_c3:78:70 (00:21:5a:c3:78:70)
Address: Hewlett-_c3:78:70 (00:21:5a:c3:78:70)
.... .0. ... . . . . . . . . = LG bit: Globally unique
              address (factory default)
          .... = IG bit: Individual address (unicast)
     Address Resolution Protocol (reply)
                              Source
    Protocol Length Info
773 949.135976000 172.16.50.254
                                                           172.16.50.1
         ICMP
                    98
                              Echo (ping) request id=0x72d2, seq=1/256,
         tt1=64
Frame 773: 98 bytes on wire (784 bits), 98 bytes captured (784 bits
Trame 773: 96 bytes on wire (784 bits), 96 bytes captured (78) ) on interface 0

Ethernet II, Src: Hewlett-_c3:78:70 (00:21:5a:c3:78:70), Dst: Kye_25:13:65 (00:c0:df:25:13:65)

Destination: Kye_25:13:65 (00:c0:df:25:13:65)

Address: Kye_25:13:65 (00:c0:df:25:13:65)

.... 0. .... ELG bit: Globally unique
                                           .... = LG bit: Globally unique
               address (factory default)
          .... = IG bit: Individual address (unicast)
     address (factory default)
          .... = IG bit: Individual address (unicast)
     Type: IP (0x0800)
Internet Protocol Version 4, Src: 172.16.50.254 (172.16.50.254),
Dst: 172.16.50.1 (172.16.50.1)
Internet Control Message Protocol
   Time
Protocol Length Info
774 949.136042000 172.16.50.1
TCMP 98 Echo (ping) reply
                                                           Destination
                                                           172.16.50.254
                                                          id=0x72d2, seq=1/256,
Frame 774: 98 bytes on wire (784 bits), 98 bytes captured (784 bits
) on interface 0 Ethernet II, Src: Kye_25:13:65 (00:c0:df:25:13:65), Dst: Hewlett-
    address (factory default)
     address (factory default)
```

```
.... 0 .... = IG bit: Individual address (unicast)
Type: IP (0x0800)
Internet Protocol Version 4, Src: 172.16.50.1 (172.16.50.1), Dst: 172.16.50.254 (172.16.50.254)
Internet Control Message Protocol
     Time Source
Protocol Length Info
776 950.775945000 172.16.50.254
                                                                            Destination
                                                                            172.16.50.1
            TCMP
                          98
                                                                           id=0x72d3, seq=1/256,
                                      Echo (ping) request
            tt1=64
Frame 776: 98 bytes on wild (...)
) on interface 0
Ethernet II, Src: Hewlett-_c3:78:70 (00:21:5a:c3:78:70), Dst:
    Kye_25:13:65 (00:c0:df:25:13:65)
    Destination: Kye_25:13:65 (00:c0:df:25:13:65)
    Address: Kye_25:13:65 (00:c0:df:25:13:65)
    ... .0. ... = LG bit: Globally unique
Frame 776: 98 bytes on wire (784 bits), 98 bytes captured (784 bits
                  address (factory default)
                                                       .... = IG bit: Individual address
      .... 0 .... = IG bit: Individual address (unicast)
Type: IP (0x0800)
Internet Protocol Version 4, Src: 172.16.50.254 (172.16.50.254),
Dst: 172.16.50.1 (172.16.50.1)
Internet Control Message Protocol
                                                                            Destination
     Protocol Length Info
777 950.776004000 172.16.50.1
ICMP 98 Echo (ping) reply
                                                                           172.16.50.254
id=0x72d3, seq=1/256,
            tt1=64
Frame 777: 98 bytes on wire (784 bits), 98 bytes captured (784 bits
Frame 777: 98 bytes on wire (784 bits), 90 bytes captured (784 bits) on interface 0

Ethernet II, Src: Kye_25:13:65 (00:c0:df:25:13:65), Dst: Hewlett-_c3:78:70 (00:21:5a:c3:78:70)

Destination: Hewlett-_c3:78:70 (00:21:5a:c3:78:70)

Address: Hewlett-_c3:78:70 (00:21:5a:c3:78:70)

....... = LG bit: Globally unique address (factory default)
              .... = IG bit: Individual address (unicast)
       Source: Kye_25:13:65 (00:c0:df:25:13:65)
Address: Kye_25:13:65 (00:c0:df:25:13:65)
              .... ..0. ....
                                       .... = LG bit: Globally unique
                  address (factory default)
              .... = IG bit: Individual address (unicast)
Type: IP (0x0800)
Internet Protocol Version 4, Src: 172.16.50.1 (172.16.50.1), Dst: 172.16.50.254 (172.16.50.254)
Internet Control Message Protocol
     Time Source
Protocol Length Info
778 951.774951000 172.16.50.254
FORD 98 Echo (ping) re
                                                                            Destination
                                                                            172.16.50.1
                                       Echo (ping) request id=0x72d3, seq=2/512,
            ttl=64
Frame 778: 98 bytes on wire (784 bits), 98 bytes captured (784 bits
     ) on interface 0
Ethernet II, Src: Hewlett-_c3:78:70 (00:21:5a:c3:78:70), Dst: Kye_25:13:65 (00:c0:df:25:13:65)
    Destination: Kye_25:13:65 (00:c0:df:25:13:65)
    Address: Kye_25:13:65 (00:c0:df:25:13:65)
```

```
....0. .... = LG bit: Globally unique address (factory default)
    .....0 .... (unicast)

Source: Hewlett-_c3:78:70 (00:21:5a:c3:78:70)

Address: Hewlett-_c3:78:70 (00:21:5a:c3:78:70)

.....0 .... = LG bit: Globally unique

(factory default)

= TG bit: Individual address
                                       .... = IG bit: Individual address
          .... = IG bit: Individual address (unicast)
     Type: IP (0x0800)
Internet Protocol Version 4, Src: 172.16.50.254 (172.16.50.254), Dst: 172.16.50.1 (172.16.50.1) Internet Control Message Protocol
   Time
Protocol Length Info
779 951.775017000 172.16.50.1
TCMP 98 Echo (ping) reply
         Time
                                                      Destination
                                                      172.16.50.254
                                                     id=0x72d3, seq=2/512,
         tt1=64
Frame 779: 98 bytes on wire (784 bits), 98 bytes captured (784 bits
....0 .... .... (unicast)
                                       .... = IG bit: Individual address
     Source: Kye_25:13:65 (00:c0:df:25:13:65)
         Address: Kye_25:13:65 (00:c0:df:25:13:65)
... .0. ... = LG bit: G
          .... ..0. .... = LG bit: Globally unique address (factory default) = IG bit: Individual address
             (unicast)
     Type: IP (0x0800)
Internet Protocol Version 4, Src: 172.16.50.1 (172.16.50.1), Dst: 172.16.50.254 (172.16.50.254)
Internet Control Message Protocol
    Time SProtocol Length Info 782 954.565568000 CLOOP 60
                                                      Destination
                           Source
                           Cisco_3a:f6:0f
                                                      Cisco_3a:f6:0f
                           Reply
Frame 782: 60 bytes on wire (480 bits), 60 bytes captured (480 bits
address (factory default)
                       ... .... .... = IG bit: Individual address
             (unicast)
    Source: Cisco_3a:f6:0f (fc:fb:fb:3a:f6:0f)
Address: Cisco_3a:f6:0f (fc:fb:fb:3a:f6:0f)
.... = LG bit: Globally unique
             address (factory default)
             . ...0 .... = IG bit: Individual address (unicast)
Type: Loopback (0x9000)
Configuration Test Protocol (loopback)
0020 00 00 00 00 00 00 00 00
                                                                   . . . . . . . .
```

```
Time
                                Source
                                                               Destination
    Protocol Length Info
783 955.575989000 172.16.50.254
                                                               172.16.50.1
          ICMP
                                Echo (ping) request id=0x72d7, seq=1/256,
          tt1=64
Frame 783: 98 bytes on wire (784 bits), 98 bytes captured (784 bits) on interface 0

Ethernet II, Src: Hewlett-_c3:78:70 (00:21:5a:c3:78:70), Dst:
    Kye_25:13:65 (00:c0:df:25:13:65)
    Destination: Kye_25:13:65 (00:c0:df:25:13:65)
    Address: Kye_25:13:65 (00:c0:df:25:13:65)
    .... .0 .... = LG bit: Globally unique
               address (factory default)
     .... = IG bit: Individual address
                  ...0 .... = IG bit: Individual address
           (unicast)
     Type: IP (0x0800)
Internet Protocol Version 4, Src: 172.16.50.254 (172.16.50.254),
Dst: 172.16.50.1 (172.16.50.1)
Internet Control Message Protocol
    Time SProtocol Length Info 784 955.576055000
                                                               Destination
                                Source
                                172.16.50.1
                                                                172.16.50.254
          ICMP
                                Echo (ping) reply
                                                              id=0x72d7, seq=1/256,
                     98
          ttl=64
Frame 784: 98 bytes on wire (784 bits), 98 bytes captured (784 bits
address (factory default)
     cource: Kye_25:13:65 (00:c0:df:25:13:65)
                                               .... = IG bit: Individual address
           Address: Kye_25:13:65 (00:c0:df:25:13:65)
.... ..0. .... = LG bit: Globally unique
               address (factory default)
.....0 .... = IG bit: Individual address
               (unicast)
     Type: IP (0x0800)
Internet Protocol Version 4, Src: 172.16.50.1 (172.16.50.1), Dst:
    172.16.50.254 (172.16.50.254)
Internet Control Message Protocol
    Time Source
Protocol Length Info
786 956.574924000 172.16.50.254
                                                               Destination
                                                                172.16.50.1
          ICMP
                      98
                                Echo (ping) request id=0x72d7, seq=2/512,
          tt1=64
Frame 786: 98 bytes on wire (784 bits), 98 bytes captured (784 bits
) on interface 0
Ethernet II, Src: Hewlett-_c3:78:70 (00:21:5a:c3:78:70), Dst:
Kye_25:13:65 (00:c0:df:25:13:65)
     Destination: Kye_25:13:65 (00:c0:df:25:13:65)
    Address: Kye_25:13:65 (00:c0:df:25:13:65)
    .... .0. .... = LG bit: Globally unique address (factory default)

- TG bit: Individual addr
     .... 0 .... = IG bit: Individual address (unicast)

Source: Hewlett-_c3:78:70 (00:21:5a:c3:78:70)
           Address: Hewlett-_c3:78:70 (00:21:5a:c3:78:70)
```

```
....0. .... = LG bit: Globally unique address (factory default)
          .... (unicast)
                             .... .... = IG bit: Individual address
     Type: IP (0x0800)
Internet Protocol Version 4, Src: 172.16.50.254 (172.16.50.254),
Dst: 172.16.50.1 (172.16.50.1)
Internet Control Message Protocol
          Time
                                                         Destination
    Protocol Length Info
787 956.574985000 172.16.50.1
                                                         172.16.50.254
         ICMP
                             Echo (ping) reply
                   98
                                                        id=0x72d7, seq=2/512,
         ttl=64
Frame 787: 98 bytes on wire (784 bits), 98 bytes captured (784 bits
) on interface 0 Ethernet II, Src: Kye_25:13:65 (00:c0:df:25:13:65), Dst: Hewlett-
   address (factory default)
     ... ... 0 ... ... = IG bit: Individual address (unicast)

Source: Kye_25:13:65 (00:c0:df:25:13:65)

Address: Kye_25:13:65 (00:c0:df:25:13:65)
              . ..0. .... = \overline{LG} bit: Globally unique address (factory default)
          .... = IG bit: Individual address (unicast)
     Type: IP (0x0800)
Internet Protocol Version 4, Src: 172.16.50.1 (172.16.50.1), Dst:
    172.16.50.254 (172.16.50.254)
Internet Control Message Protocol
                                                         Destination
    Protocol Length Info
788 957.574565000 172.16.50.254
                                                         172.16.50.1
         ICMP
                   98
                             Echo (ping) request
                                                        id=0x72d7, seq=3/768,
         tt1=64
Frame 788: 98 bytes on wire (784 bits), 98 bytes captured (784 bits
    ) on interface 0
...0 .... .... ....
                                          .... = IG bit: Individual address
     (unicast)
Source: Hewlett-_c3:78:70 (00:21:5a:c3:78:70)
Address: Hewlett-_c3:78:70 (00:21:5a:c3:78:70)
.....0.....= LG bit: Globally unique
              address (factory default)
          .... 0 .... = IG bit: Individual address (unicast)
     Type: IP (0x0800)
Internet Protocol Version 4, Src: 172.16.50.254 (172.16.50.254),
   Dst: 172.16.50.1 (172.16.50.1)
Internet Control Message Protocol
   Time Source
Protocol Length Info
789 957.574632000 172.16.50.1
TOMP 98 Echo (ping) reply
                                                         Destination
                                                         172.16.50.254
                                                        id=0x72d7, seq=3/768,
Frame 789: 98 bytes on wire (784 bits), 98 bytes captured (784 bits
) on interface 0
Ethernet II, Src: Kye_25:13:65 (00:c0:df:25:13:65), Dst: Hewlett-
_c3:78:70 (00:21:5a:c3:78:70)
```

```
Destination: Hewlett-_c3:78:70 (00:21:5a:c3:78:70)
    Address: Hewlett-_c3:78:70 (00:21:5a:c3:78:70)
    .... .0. .... = LG bit: Globally unique
                   . ..O. .... .... default)
      .... ... 0 .... = IG bit: Individual address (unicast)

Source: Kye_25:13:65 (00:c0:df:25:13:65)
             Address: Kye_25:13:65 (00:c0:df:25:13:65)
.... ..0. .... = LG bit: Globally unique
                 address (factory default)
                      ...0 .... = IG bit: Individual address
                   (unicast)
       Type: IP (0x0800)
Internet Protocol Version 4, Src: 172.16.50.1 (172.16.50.1), Dst: 172.16.50.254 (172.16.50.254)
Internet Control Message Protocol
     Time Source
Protocol Length Info
791 958.574523000 172.16.50.254
ICMP 98 Echo (ping) request
                                                                             Destination
                                                                             172.16.50.1
                                                                           id=0x72d7, seq=4/1024,
            ttl=64
Frame 791: 98 bytes on wire (784 bits), 98 bytes captured (784 bits
Frame 791: 98 bytes on wire (.01 2227, ...) on interface 0

Ethernet II, Src: Hewlett-_c3:78:70 (00:21:5a:c3:78:70), Dst: Kye_25:13:65 (00:c0:df:25:13:65)

Destination: Kye_25:13:65 (00:c0:df:25:13:65)

Address: Kye_25:13:65 (00:c0:df:25:13:65)

.....0..... = LG bit: Globally unique address (factory default)

0 ..... = IG bit: Individual address
                  ....0 .... = IG bit: Individual address (unicast)
      Source: Hewlett-_c3:78:70 (00:21:5a:c3:78:70)
    Address: Hewlett-_c3:78:70 (00:21:5a:c3:78:70)
    .....0..... = LG bit: Globally unique
                  address (factory default)
              .... = IG bit: Individual address (unicast)
       Type: IP (0x0800)
Internet Protocol Version 4, Src: 172.16.50.254 (172.16.50.254),
Dst: 172.16.50.1 (172.16.50.1)
Internet Control Message Protocol
     Time Source
Protocol Length Info
792 958.574585000 172.16.50.1
ICMP 98 Echo (ping) reply
                                                                             Destination
                                                                             172.16.50.254
                                                                            id=0x72d7, seq=4/1024,
            tt1=64
Frame 792: 98 bytes on wire (784 bits), 98 bytes captured (784 bits
     ) on interface 0
Ethernet II, Src: Kye_25:13:65 (00:c0:df:25:13:65), Dst: Hewlett-
_c3:78:70 (00:21:5a:c3:78:70)
Destination: Hewlett-_c3:78:70 (00:21:5a:c3:78:70)
Address: Hewlett-_c3:78:70 (00:21:5a:c3:78:70)
.....0. .... = LG bit: Globally unique
address (factory default)
      .... = IG b
(unicast)
Source: Kye_25:13:65 (00:c0:df:25:13:65)
                                                        .... = IG bit: Individual address
             Address: Kye_25:13:65 (00:c0:df:25:13:65)
.... .0. .... = LG bit: Globally unique
                   address (factory default)
                   . ...0 .... = IG bit: Individual address (unicast)
      Type: IP (0x0800)
Internet Protocol Version 4, Src: 172.16.50.1 (172.16.50.1), Dst: 172.16.50.254 (172.16.50.254)
Internet Control Message Protocol
     Time
Protocol Length Info
                                                                             Destination
```

```
796 964.578374000 Cisco_3a:f6:0f
                                                    Cisco_3a:f6:0f
         LOOP
                             Reply
                    60
Frame 796: 60 bytes on wire (480 bits), 60 bytes captured (480 bits
    ) on interface 0
address (factory default)
             ....0 .... .... = IG bit: Individual address (unicast)
     Source: Cisco_3a:f6:0f (fc:fb:fb:3a:f6:0f)
Address: Cisco_3a:f6:0f (fc:fb:fb:3a:f6:0f)
.....0..... = LG bit: Globally unique
address (factory default)
.... 0 .... = IG bit: Individual address (unicast)

Type: Loopback (0x9000)

Configuration Test Protocol (loopback)
Data (40 bytes)
0020 00 00 00 00 00 00 00 00
    Time Source
Protocol Length Info
802 974.588673000 Cisco_3a:f6:0f
LOOP 60 Reply
                                                          Destination
                                                          Cisco_3a:f6:0f
                             Reply
Frame 802: 60 bytes on wire (480 bits), 60 bytes captured (480 bits
Frame 802: 60 bytes on wife (100 212),
) on interface 0
Ethernet II, Src: Cisco_3a:f6:0f (fc:fb:fb:3a:f6:0f), Dst: Cisco_3a:f6:0f (fc:fb:fb:3a:f6:0f)
Destination: Cisco_3a:f6:0f (fc:fb:fb:3a:f6:0f)
Address: Cisco_3a:f6:0f (fc:fb:fb:3a:f6:0f)
........ = LG bit: Globally unique
             Source: Cisco_3a:f6:0f (fc:fb:fb:3a:f6:0f)
Address: Cisco_3a:f6:0f (fc:fb:fb:3a:f6:0f)
.... ..0. .... .... .... = LG bit: Globally unique
              address (factory default)
                ...0 .... = IG bit: Individual address
              (unicast)
Type: Loopback (0x9000)
Configuration Test Protocol (loopback)
Data (40 bytes)
0020 00 00 00 00 00 00 00
    Time Source
Protocol Length Info
808 984.596098000 Cisco_3a:f6:0f
LOOP 60 Reply
                                                          Destination
                                                          Cisco_3a:f6:0f
Frame 808: 60 bytes on wire (480 bits), 60 bytes captured (480 bits
    ) on interface 0
Ethernet II, Src: Cisco_3a:f6:0f (fc:fb:fb:3a:f6:0f), Dst: Cisco_3a:f6:0f (fc:fb:fb:3a:f6:0f)

Destination: Cisco_3a:f6:0f (fc:fb:fb:3a:f6:0f)

Address: Cisco_3a:f6:0f (fc:fb:fb:3a:f6:0f)

.....0.....= LG bit: Globally unique

address (factory default)

.....0.....= IG bit: Individual address
                            .... .... = IG bit: Individual address
          .... (unicast)
     Source: Cisco_3a:f6:0f (fc:fb:fb:3a:f6:0f)
```

```
Address: Cisco_3a:f6:0f (fc:fb:fb:3a:f6:0f)
             . ..0. .... : .... = LG bit: Globally unique address (factory default)
              . ...0 .... = IG bit: Individual address (unicast)
Type: Loopback (0x9000)
Configuration Test Protocol (loopback)
Data (40 bytes)
0020 00 00 00 00 00 00 00 00
    Time
Protocol Length Info
814 994.603561000
LOOP 60
                                                       Destination
                            Cisco_3a:f6:0f
                                                       Cisco_3a:f6:0f
                            Reply
Frame 814: 60 bytes on wire (480 bits), 60 bytes captured (480 bits
) on interface 0
Ethernet II, Src: Cisco_3a:f6:0f (fc:fb:fb:3a:f6:0f), Dst: Cisco_3a:f6:0f (fc:fb:fb:3a:f6:0f)
Destination: Cisco_3a:f6:0f (fc:fb:fb:3a:f6:0f)
Address: Cisco_3a:f6:0f (fc:fb:fb:3a:f6:0f)
.....0.....= LG bit: Globally unique
              address (factory default)
          .... 0 .... = IG bit: Individual address (unicast)
     Source: Cisco_3a:f6:0f (fc:fb:fb:3a:f6:0f)
Address: Cisco_3a:f6:0f (fc:fb:fb:3a:f6:0f)
.... .0. .... ... ... = LG bit: Globally unique
             address (factory default)
              . ...0 .... = IG bit: Individual address (unicast)
Type: Loopback (0x9000)
Configuration Test Protocol (loopback)
Data (40 bytes)
0020 00 00 00 00 00 00 00 00
   Time Source
Protocol Length Info
820 1004.597296000 Cisco_3a:f6:0f
LOOP 60 Reply
                                                       Destination
                                                       Cisco_3a:f6:0f
Frame 820: 60 bytes on wire (480 bits), 60 bytes captured (480 bits
    ) on interface 0
Ethernet II, Src: Cisco_3a:f6:0f (fc:fb:fb:3a:f6:0f), Dst: Cisco_3a:f6:0f (fc:fb:fb:3a:f6:0f)

Destination: Cisco_3a:f6:0f (fc:fb:fb:3a:f6:0f)

Address: Cisco_3a:f6:0f (fc:fb:fb:3a:f6:0f)

.....0.....= LG bit: Globally unique
             address (factory default)
          .... ...0 .... .... (unicast)
                                        .... = IG bit: Individual address
     Source: Cisco_3a:f6:0f (fc:fb:fb:3a:f6:0f)
Address: Cisco_3a:f6:0f (fc:fb:fb:3a:f6:0f)
.... .0. .... = LG bit: Globally unique
address (factory default)

= TC bit: Individual addr
                                  .... = IG bit: Individual address
          .... (unicast)
Type: Loopback (0x9000)
Configuration Test Protocol (loopback)
Data (40 bytes)
0020 00 00 00 00 00 00 00
```

```
Time Source
Protocol Length Info
822 1006.618646000 Cisco_3a:f6:0f
                                                                       Destination
                                                                       CDP/VTP/DTP/PAgP/UDLD
                                    Device ID: tux-sw5 Port ID: FastEthernet0
           CDP
                         436
            /13
Frame 822: 436 bytes on wire (3488 bits), 436 bytes captured (3488
bits) on interface 0 IEEE 802.3 Ethernet Logical-Link Control
Cisco Discovery Protocol
     Time
Protocol Length Info
827 1014.604681000 Cisco_3a:f6:0f
LOOP 60 Reply
                                                                       Destination
                                                                       Cisco_3a:f6:0f
Frame 827: 60 bytes on wire (480 bits), 60 bytes captured (480 bits
Frame 827: 60 bytes on wife (160 525),
) on interface 0
Ethernet II, Src: Cisco_3a:f6:0f (fc:fb:fb:3a:f6:0f), Dst: Cisco_3a:f6:0f (fc:fb:fb:3a:f6:0f)
Destination: Cisco_3a:f6:0f (fc:fb:fb:3a:f6:0f)
Address: Cisco_3a:f6:0f (fc:fb:fb:3a:f6:0f)
.....0....... = LG bit: Globally unique
address (factory default)
0 ..... = IG bit: Individual address
             .... = IG bit: Individual address (unicast)
      Source: Cisco_3a:f6:0f (fc:fb:fb:3a:f6:0f)
Address: Cisco_3a:f6:0f (fc:fb:fb:3a:f6:0f)
.....0..... = LG bit: Globally unique
address (factory default)
             (unicast)
                                           .... = IG bit: Individual address
Type: Loopback (0x9000)
Configuration Test Protocol (loopback)
Data (40 bytes)
0020 00 00 00 00 00 00 00 00
     Time Source
Protocol Length Info
833 1024.612082000 Cisco_3a:f6:0f
                                                                       Destination
                                                                       Cisco_3a:f6:0f
Frame 833: 60 bytes on wire (480 bits), 60 bytes captured (480 bits
Prame 835: 60 bytes on wire (460 bits), 60 bytes captured (460 bits) on interface 0

Ethernet II, Src: Cisco_3a:f6:0f (fc:fb:fb:3a:f6:0f), Dst: Cisco_3a:f6:0f (fc:fb:fb:3a:f6:0f)

Destination: Cisco_3a:f6:0f (fc:fb:fb:3a:f6:0f)

Address: Cisco_3a:f6:0f (fc:fb:fb:3a:f6:0f)

.... .0. ... ... ... = LG bit: Globally unique
                address (factory default)
      address (lactory default)
.....0 .... = IG bit: Individual address (unicast)
Source: Cisco_3a:f6:0f (fc:fb:fb:3a:f6:0f)
Address: Cisco_3a:f6:0f (fc:fb:fb:3a:f6:0f)
.....0 .... = LG bit: Globally unique address (factory default)

= IC bit: Individual address
                  ....0 .... = IG bit: Individual address (unicast)
Type: Loopback (0x9000)
Configuration Test Protocol (loopback)
Data (40 bytes)
        00 00 00 00 00 00 00
No. Time
Protocol Length Info
                                                                       Destination
```

```
838 1034.619551000 Cisco_3a:f6:0f
                                                      Cisco_3a:f6:0f
                     60
                              Reply
Frame 838: 60 bytes on wire (480 bits), 60 bytes captured (480 bits
Frame 838: 00 bytes on will () on interface 0

Ethernet II, Src: Cisco_3a:f6:0f (fc:fb:fb:3a:f6:0f), Dst: Cisco_3a:f6:0f (fc:fb:fb:3a:f6:0f)

Destination: Cisco_3a:f6:0f (fc:fb:fb:3a:f6:0f)

Address: Cisco_3a:f6:0f (fc:fb:fb:3a:f6:0f)

.... .0. .... = LG bit: Globally unique
               address (factory default)
              ....0 .... .... = IG bit: Individual address (unicast)
     Source: Cisco_3a:f6:0f (fc:fb:fb:3a:f6:0f)
Address: Cisco_3a:f6:0f (fc:fb:fb:3a:f6:0f)
.....0..... = LG bit: Globally unique
address (factory default)
.... 0 .... = IG bit: Individual address (unicast)

Type: Loopback (0x9000)

Configuration Test Protocol (loopback)
Data (40 bytes)
0020 00 00 00 00 00 00 00 00
    Time Source
Protocol Length Info
844 1044.623724000 Cisco_3a:f6:0f
LOOP 60 Reply
                                                            Destination
                                                            Cisco_3a:f6:0f
Frame 844: 60 bytes on wire (480 bits), 60 bytes captured (480 bits
Source: Cisco_3a:f6:0f (fc:fb:fb:3a:f6:0f)
Address: Cisco_3a:f6:0f (fc:fb:fb:3a:f6:0f)
.... ..0. .... .... .... = LG bit: Globally unique
               address (factory default)
                 ...0 .... = IG bit: Individual address
               (unicast)
Type: Loopback (0x9000)
Configuration Test Protocol (loopback)
Data (40 bytes)
0020 00 00 00 00 00 00 00
    Time Source
Protocol Length Info
850 1054.630944000 Cisco_3a:f6:0f
LOOP 60 Reply
                                                            Destination
                                                            Cisco_3a:f6:0f
Frame 850: 60 bytes on wire (100 blook),
) on interface 0
Ethernet II, Src: Cisco_3a:f6:0f (fc:fb:fb:3a:f6:0f), Dst: Cisco_3a:f6:0f (fc:fb:fb:3a:f6:0f)
Destination: Cisco_3a:f6:0f (fc:fb:fb:3a:f6:0f)
Address: Cisco_3a:f6:0f (fc:fb:fb:3a:f6:0f)
.....0........ = LG bit: Globally unique
address (factory default)
0 ...... = IG bit: Individual address
Frame 850: 60 bytes on wire (480 bits), 60 bytes captured (480 bits
           .... (unicast)
     Source: Cisco_3a:f6:0f (fc:fb:fb:3a:f6:0f)
```

```
Address: Cisco_3a:f6:0f (fc:fb:fb:3a:f6:0f)
           . ..0. .... : .... = LG bit: Globally unique address (factory default)
            . ...0 .... = IG bit: Individual address (unicast)
Type: Loopback (0x9000)
Configuration Test Protocol (loopback)
Data (40 bytes)
0020 00 00 00 00 00 00 00 00
   Time Source
Protocol Length Info
856 1064.633378000 Cisco_3a:f6:0f
                                                Destination
                                                Cisco_3a:f6:0f
       T.OOP
                 60
                        Reply
Frame 856: 60 bytes on wire (480 bits), 60 bytes captured (480 bits
) on interface 0
Ethernet II, Src: Cisco_3a:f6:0f (fc:fb:fb:3a:f6:0f), Dst: Cisco_3a:f6:0f (fc:fb:fb:3a:f6:0f)
Destination: Cisco_3a:f6:0f (fc:fb:fb:3a:f6:0f)
Address: Cisco_3a:f6:0f (fc:fb:fb:3a:f6:0f)
.....0.....= LG bit: Globally unique
            address (factory default)
                     \dots = IG bit: Individual address
              ...0 .
         (unicast)
    Source: Cisco_3a:f6:0f (fc:fb:fb:3a:f6:0f)
Address: Cisco_3a:f6:0f (fc:fb:fb:3a:f6:0f)
.... .0. .... ... ... = LG bit: Globally unique
           address (factory default)
            . ...0 .... = IG bit: Individual address (unicast)
Type: Loopback (0x9000)
Configuration Test Protocol (loopback)
Data (40 bytes)
0020 00 00 00 00 00 00 00
   Time
Protocol Length Info
                        Source
                                                Destination
    858 1066.621040000 Cisco_3a:f6:0f
                                                CDP/VTP/DTP/PAgP/UDLD
       C\bar{D}P
                 436
                        Device ID: tux-sw5
                                            Port ID: FastEthernet0
        /13
Frame 858: 436 bytes on wire (3488 bits), 436 bytes captured (3488
bits) on interface 0
IEEE 802.3 Ethernet
Logical-Link Control
Cisco Discovery Protocol
   Time Source
Protocol Length Info
863 1074.640729000 Cisco_3a:f6:0f
LOOP 60 Reply
                                                Destination
                                                Cisco_3a:f6:0f
Frame 863: 60 bytes on wire (480 bits), 60 bytes captured (480 bits
   ) on interface 0
address (factory default)
```

```
. ..0. .... = LG bit: Globally unique address (factory default)
                                                  . . 0
                                                                                                               .... = IG bit: Individual address
                            (unicast)
Type: Loopback (0x9000)
Configuration Test Protocol (loopback)
 Data (40 bytes)
 0020 00 00 00 00 00 00 00 00
          Time Source
Protocol Length Info
869 1084.639774000 Cisco_3a:f6:0f
LOOP 60 Reply
                                                                                                                                                         Destination
                                                                                                                                                         Cisco_3a:f6:0f
 Frame 869: 60 bytes on wire (480 bits), 60 bytes captured (480 bits
) on interface 0
Ethernet II, Src: Cisco_3a:f6:0f (fc:fb:fb:3a:f6:0f), Dst: Cisco_3a:f6:0f (fc:fb:fb:3a:f6:0f)
             Destination: Cisco_3a:f6:0f (fc:fb:fb:3a:f6:0f)
Address: Cisco_3a:f6:0f (fc:fb:fb:3a:f6:0f)
.....0..... = LG bit: Globally unique
address (factory default)
                            .... = IG bit: Individual address (unicast)
              address (factory default)
                                       ....0 .... = IG bit: Individual address (unicast)
Type: Loopback (0x9000)
Configuration Test Protocol (loopback)
 Data (40 bytes)
 0010 \\ \hline{)} \\ \\ \hline{)} \\ \hline{]} \\ \hline{]} \\ \hline{]} \\ \hline{]} \\ \hline{] \\ \hline{]} \\
 0020 00 00 00 00 00 00 00
          Time
Protocol Length Info
875 1094.647056000 Cisco_3a:f6:0f
                                                                                                                                                         Destination
                                                                                                                                                         Cisco_3a:f6:0f
 Frame 875: 60 bytes on wire (480 bits), 60 bytes captured (480 bits
address (factory default)
                                     ....0 .... = IG bit: Individual address (unicast)
             Source: Cisco_3a:f6:0f (fc:fb:fb:3a:f6:0f)
Address: Cisco_3a:f6:0f (fc:fb:fb:3a:f6:0f)
.... .0. ... ... = LG bit: Globally unique
address (factory default)
                                            ...0 .... = IG bit: Individual address
                                       (unicast)
Type: Loopback (0x9000)
Configuration Test Protocol (loopback)
 Data (40 bytes)
 0020 00 00 00 00 00 00 00
```

```
Time Source
Protocol Length Info
881 1104.646197000 Cisco_3a:f6:0f
                                                 Destination
                                                 Cisco_3a:f6:0f
                         Reply
Frame 881: 60 bytes on wire (480 bits), 60 bytes captured (480 bits
) on interface 0
Ethernet II, Src: Cisco_3a:f6:0f (fc:fb:fb:3a:f6:0f), Dst: Cisco_3a:f6:0f (fc:fb:fb:3a:f6:0f)
    Destination: Cisco_3a:f6:0f (fc:fb:fb:3a:f6:0f)
Address: Cisco_3a:f6:0f (fc:fb:fb:3a:f6:0f)
.... = LG bit: Globally unique
           address (factory default)
              ...0 .... = IG bit: Individual address
           (unicast)
    Source: Cisco_3a:f6:0f (fc:fb:fb:3a:f6:0f)
Address: Cisco_3a:f6:0f (fc:fb:fb:3a:f6:0f)
.....0..... = LG bit: Globally unique
address (factory default)
         .... = IG bit: Individual address (unicast)
Type: Loopback (0x9000)
Configuration Test Protocol (loopback)
Data (40 bytes)
00 00 00 00 00 00 00
   Time Source
Protocol Length Info
887 1114.653418000 Cisco_3a:f6:0f
LOOP 60 Reply
                                                 Destination
                                                 Cisco_3a:f6:0f
Frame 887: 60 bytes on wire (480 bits), 60 bytes captured (480 bits
address (factory default)
    address (factory default)
.....0 .... = IG bit: Individual address
(unicast)
Source: Cisco_3a:f6:0f (fc:fb:fb:3a:f6:0f)
Address: Cisco_3a:f6:0f (fc:fb:fb:3a:f6:0f)
.....0 .... = LG bit: Globally unique
           address (factory default)
            . ...0 .... = IG bit: Individual address (unicast)
Type: Loopback (0x9000)
Configuration Test Protocol (loopback)
Data (40 bytes)
0020 00 00 00 00 00 00 00
   Time Source
Protocol Length Info
893 1124.660795000 Cisco_3a:f6:0f
LOOP 60 Reply
                                                 Destination
                                                 Cisco 3a:f6:0f
Frame 893: 60 bytes on wire (480 bits), 60 bytes captured (480 bits
address (factory default)
```

```
.....0 .... = IG bit: Individual address (unicast)

Source: Cisco_3a:f6:0f (fc:fb:fb:3a:f6:0f)
Address: Cisco_3a:f6:0f (fc:fb:fb:3a:f6:0f)
.....0 .... = LG bit: Globally unique
          address (factory default)
(unicast)
Type: Loopback (0x9000)
Configuration Test Protocol (loopback)
                            .... = IG bit: Individual address
Data (40 bytes)
0020 00 00 00 00 00 00 00
   Time Source
Protocol Length Info
895 1126.623330000 Cisco_3a:f6:0f CDP/VTP/DTP/PAgP/UDLD
CDP 454 Device ID: tux-sw5 Port ID: FastEthernet0
Frame 895: 454 bytes on wire (3632 bits), 454 bytes captured (3632
bits) on interface 0 IEEE 802.3 Ethernet Logical-Link Control
Cisco Discovery Protocol
   Time Source
Protocol Length Info
900 1134.672899000 Cisco_3a:f6:0f
LOOP 60 Reply
                                              Destination
                                              Cisco_3a:f6:0f
Frame 900: 60 bytes on wire (480 bits), 60 bytes captured (480 bits
) on interface 0
Ethernet II, Src: Cisco_3a:f6:0f (fc:fb:fb:3a:f6:0f), Dst: Cisco_3a
   address (factory default)
    address (factory default)
        .... (unicast)
                                 .... = IG bit: Individual address
Type: Loopback (0x9000)
Configuration Test Protocol (loopback)
Data (40 bytes)
0020 00 00 00 00 00 00 00
   Time Source
Protocol Length Info
906 1144.667628000 Cisco_3a:f6:0f
LOOP 60 Reply
                                              Destination
                                              Cisco_3a:f6:0f
Frame 906: 60 bytes on wire (480 bits), 60 bytes captured (480 bits
on interface 0

Ethernet II, Src: Cisco_3a:f6:0f (fc:fb:fb:3a:f6:0f), Dst: Cisco_3a:f6:0f (fc:fb:fb:3a:f6:0f)
    (unicast)
```

```
address (factory default)
                                         .... = IG bit: Individual address
          .... (unicast)
Type: Loopback (0x9000)
Configuration Test Protocol (loopback)
Data (40 bytes)
0020 00 00 00 00 00 00 00
    Time Source
Protocol Length Info
912 1154.674693000 Cisco_3a:f6:0f
LOOP 60 Reply
                                                         Destination
                                                         Cisco_3a:f6:0f
Frame 912: 60 bytes on wire (480 bits), 60 bytes captured (480 bits
) on interface 0
Ethernet II, Src: Cisco_3a:f6:0f (fc:fb:fb:3a:f6:0f), Dst: Cisco_3a:f6:0f (fc:fb:fb:3a:f6:0f)
     Destination: Cisco_3a:f6:0f (fc:fb:fb:3a:f6:0f)
Address: Cisco_3a:f6:0f (fc:fb:fb:3a:f6:0f)
.... = LG bit: Globally unique
             address (factory default)
          .... (unicast)
                                               = IG bit: Individual address
     Source: Cisco_3a:f6:0f (fc:fb:fb:3a:f6:0f)
          Address: Cisco_3a:f6:Of (fc:fb:fb:3a:f6:Of)
.... ..0. .... = LG bit: Globally unique
             address (factory default)
                ...0 .... = IG bit: Individual address
              (unicast)
Type: Loopback (0x9000)
Configuration Test Protocol (loopback)
Data (40 bytes)
0020 00 00 00 00 00 00 00 00
    Time Source
Protocol Length Info
918 1164.682040000 Cisco_3a:f6:0f
LOOP 60 Reply
                                                         Destination
                                                         Cisco_3a:f6:0f
Frame 918: 60 bytes on wire (480 bits), 60 bytes captured (480 bits
Frame 918: 60 Bytes on will (100 2012),
) on interface 0
Ethernet II, Src: Cisco_3a:f6:0f (fc:fb:fb:3a:f6:0f), Dst: Cisco_3a:f6:0f (fc:fb:fb:3a:f6:0f)
Destination: Cisco_3a:f6:0f (fc:fb:fb:3a:f6:0f)
Address: Cisco_3a:f6:0f (fc:fb:fb:3a:f6:0f)
.....0...... = LG bit: Globally unique
address (factory default)
...... = IG bit: Individual address
          .... (unicast)
     Source: Cisco_3a:f6:0f (fc:fb:fb:3a:f6:0f)
Address: Cisco_3a:f6:0f (fc:fb:fb:3a:f6:0f)
.... .0. .... = LG bit: Globally unique address (factory default)
.... - LG bit: Globally unique

Guaress (factory default)
.....0 .... .... = IG bit: Individual address
(unicast)
Type: Loopback (0x9000)
Configuration Test Protocol (loopback)
Data (40 bytes)
```

```
0020 00 00 00 00 00 00 00 00
   Time Source
Protocol Length Info
924 1174.689364000 Cisco_3a:f6:0f
LOOP 60 Reply
                                                     Destination
                                                      Cisco_3a:f6:0f
Frame 924: 60 bytes on wire (480 bits), 60 bytes captured (480 bits
on interface 0

Ethernet II, Src: Cisco_3a:f6:0f (fc:fb:fb:3a:f6:0f), Dst: Cisco_3a:f6:0f (fc:fb:fb:3a:f6:0f)
    .... ..0. .... = LG bit: Globally unique address (factory default) = IG bit: Individual address
             (unicast)
    Source: Cisco_3a:f6:0f (fc:fb:fb:3a:f6:0f)
Address: Cisco_3a:f6:0f (fc:fb:fb:3a:f6:0f)
.....0.....= LG bit: Globally unique
             address (factory default)
          .... = IG bit: Individual address (unicast)
Type: Loopback (0x9000)
Configuration Test Protocol (loopback)
Data (40 bytes)
0020 00 00 00 00 00 00 00
   Time Source
Protocol Length Info
930 1184.688309000 Cisco_3a:f6:0f
LOOP 60 Reply
                                                      Destination
                                                      Cisco_3a:f6:0f
Frame 930: 60 bytes on wire (480 bits), 60 bytes captured (480 bits
) on interface 0
Ethernet II, Src: Cisco_3a:f6:0f (fc:fb:fb:3a:f6:0f), Dst: Cisco_3a:f6:0f (fc:fb:fb:3a:f6:0f)
    Destination: Cisco_3a:f6:0f (fc:fb:fb:3a:f6:0f)
Address: Cisco_3a:f6:0f (fc:fb:fb:3a:f6:0f)
.... .0. .... ... = LG bit: Globally unique
address (factory default)
            ....0 .... = IG bit: Individual address (unicast)
    Source: Cisco_3a:f6:0f (fc:fb:fb:3a:f6:0f)
Address: Cisco_3a:f6:0f (fc:fb:fb:3a:f6:0f)
.....0..... = LG bit: Globally unique
address (factory default)
          .... = IG bit: Individual address (unicast)
Type: Loopback (0x9000)
Configuration Test Protocol (loopback)
Data (40 bytes)
0020 00 00 00 00 00 00 00 00
   Time Source
Protocol Length Info
932 1186.625646000 Cisco_3a:f6:0f
                                                     Destination
                                                      CDP/VTP/DTP/PAgP/UDLD
        CDP
                   454
                          Device ID: tux-sw5 Port ID: FastEthernet0
         /13
Frame 932: 454 bytes on wire (3632 bits), 454 bytes captured (3632
bits) on interface 0 IEEE 802.3 Ethernet Logical-Link Control
Cisco Discovery Protocol
```

```
Time Source
Protocol Length Info
936 1192.741030000 Cisco_3a:f6:0f
                                                                  Destination
                                                                  CDP/VTP/DTP/PAgP/UDLD
                                 Device ID: tux-sw5 [Malformed Packet]
Frame 936: 60 bytes on wire (480 bits), 60 bytes captured (480 bits
) on interface 0
IEEE 802.3 Ethernet
Logical-Link Control
Cisco Discovery Protocol
[Malformed Packet: CDP]
    Time Source
Protocol Length Info
938 1194.700827000 Cisco_3a:f6:0f
LOOP 60 Reply
                                                                  Destination
                                                                  Cisco_3a:f6:0f
                                 Reply
Frame 938: 60 bytes on wire (480 bits), 60 bytes captured (480 bits
on interface 0

Ethernet II, Src: Cisco_3a:f6:0f (fc:fb:fb:3a:f6:0f), Dst: Cisco_3a:f6:0f (fc:fb:fb:3a:f6:0f)
     Destination: Cisco_3a:f6:0f (fc:fb:fb:3a:f6:0f)
Address: Cisco_3a:f6:0f (fc:fb:fb:3a:f6:0f)
.....0..... = LG bit: Globally unique
address (factory default)
            .... = IG bit: Individual address (unicast)
     Source: Cisco_3a:f6:0f (fc:fb:fb:3a:f6:0f)
Address: Cisco_3a:f6:0f (fc:fb:fb:3a:f6:0f)
.... .0. .... .... = LG bit: Glo
              ..... = LG bit: Globally unique address (factory default)
            .... = IG bit: Individual address (unicast)
      Type: Loopback (0x9000)
Configuration Test Protocol (loopback)
Data (40 bytes)
0020 00 00 00 00 00 00 00 00
    Time Source
Protocol Length Info
940 1325.375437000 Cisco_3a:f6:0f CDP/VTP/DTP/PAgP/UDLD
CDP 436 Device ID: tux-sw5 Port ID: FastEthernet0
Frame 940: 436 bytes on wire (3488 bits), 436 bytes captured (3488
bits) on interface 0
IEEE 802.3 Ethernet
Logical-Link Control
Cisco Discovery Protocol
    Time Source
Protocol Length Info
941 1325.834307000 Cisco_3a:f6:0f
LOOP 60 Reply
                                                                  Destination
                                                                  Cisco_3a:f6:0f
Frame 941: 60 bytes on wire (480 bits), 60 bytes captured (480 bits ) on interface 0 \,
Ethernet II, Src: Cisco_3a:f6:0f (fc:fb:fb:3a:f6:0f), Dst: Cisco_3a:f6:0f (fc:fb:fb:3a:f6:0f)

Destination: Cisco_3a:f6:0f (fc:fb:fb:3a:f6:0f)

Address: Cisco_3a:f6:0f (fc:fb:fb:3a:f6:0f)

.....0..... = LG bit: Globally unique

address (factory default)
            .... (unicast)
                                                .... = IG bit: Individual address
     Source: Cisco_3a:f6:0f (fc:fb:fb:3a:f6:0f)
Address: Cisco_3a:f6:0f (fc:fb:fb:3a:f6:0f)
.....0..... = LG bit: Globally unique address (factory default)
```

```
...0 ....
                               .... = IG bit: Individual address
           .... (unicast)
Type: Loopback (0x9000)
Configuration Test Protocol (loopback)
Data (40 bytes)
0020 00 00 00 00 00 00 00
No. Time Source Protocol Length Info 942 1326.382330000 Cisco_3a:f6:0f
                                                               Destination
                                                               CDP/VTP/DTP/PAgP/UDLD
                      436
                               Device ID: tux-sw5 Port ID: FastEthernet0
Frame 942: 436 bytes on wire (3488 bits), 436 bytes captured (3488
bits) on interface 0
IEEE 802.3 Ethernet
Logical-Link Control
Cisco Discovery Protocol
    Time Source
Protocol Length Info
944 1327.289611000 Cisco_3a:f6:0f
CDP 436 Device ID: tux
                                                               Destination
                               Cisco_3a:f6:Of CDP/VTP/DTP/PAgP/UDLD Device ID: tux-sw5 Port ID: FastEthernet0
          /13
Frame 944: 436 bytes on wire (3488 bits), 436 bytes captured (3488
bits) on interface 0
IEEE 802.3 Ethernet
Logical-Link Control
Cisco Discovery Protocol
    Time Source
Protocol Length Info
945 1328.295817000 Cisco_3a:f6:0f CDP/VTP/DTP/PAgP/UDLD
CDP 436 Device ID: tux-sw5 Port ID: FastEthernet0
Frame 945: 436 bytes on wire (3488 bits), 436 bytes captured (3488
bits) on interface 0
IEEE 802.3 Ethernet
Logical-Link Control
Cisco Discovery Protocol
    Time Source
Protocol Length Info
947 1329.302237000 Cisco_3a:f6:0f
CDP 436 Device ID: tux-
                                                               Destination
                                                              CDP/VTP/DTP/PAgP/UDLD
                             Device ID: tux-sw5 Port ID: FastEthernet0
Frame 947: 436 bytes on wire (3488 bits), 436 bytes captured (3488
bits) on interface 0
IEEE 802.3 Ethernet
Logical-Link Control
Cisco Discovery Protocol
    Time Source
Protocol Length Info
948 1330.308875000 Cisco_3a:f6:0f
                                                               Destination
                                                               CDP/VTP/DTP/PAgP/UDLD
                                Device ID: tux-sw5 Port ID: FastEthernet0
         CDP
                      436
          /13
Frame 948: 436 bytes on wire (3488 bits), 436 bytes captured (3488
bits) on interface 0
IEEE 802.3 Ethernet
Logical-Link Control
Cisco Discovery Protocol
    Time Source -
Protocol Length Info
950 1331.315463000 Cisco_3a:f6:0f CDP/VTP/DTP/PAgP/UDLD
CDP 436 Device ID: tux-sw5 Port ID: FastEthernet0
```

```
Frame 950: 436 bytes on wire (3488 bits), 436 bytes captured (3488
bits) on interface 0
IEEE 802.3 Ethernet
Logical-Link Control
Cisco Discovery Protocol
   CDP/VTP/DTP/PAgP/UDLD
Frame 952: 436 bytes on wire (3488 bits), 436 bytes captured (3488
bits) on interface 0
IEEE 802.3 Ethernet
Logical-Link Control
Cisco Discovery Protocol
   Time S
Protocol Length Info
                                                   Destination
    953 1333.328759000 Cisco_3a:f6:Of CDP/VTP/DTP/PAgP/UDLD CDP 436 Device ID: tux-sw5 Port ID: FastEthernet0
        /13
Frame 953: 436 bytes on wire (3488 bits), 436 bytes captured (3488
bits) on interface 0 IEEE 802.3 Ethernet Logical-Link Control
Cisco Discovery Protocol
   Time Source
Protocol Length Info
955 1334.335366000 Cisco_3a:f6:0f CDP/VTP/DTP/PAgP/UDLI
                                                  CDP/VTP/DTP/PAgP/UDLD
Frame 955: 436 bytes on wire (3488 bits), 436 bytes captured (3488
bits) on interface 0
IEEE 802.3 Ethernet
Logical-Link Control
Cisco Discovery Protocol
   Time Source
Protocol Length Info
956 1335.341934000 Cisco_3a:f6:0f
                                                   Destination
                                                   CDP/VTP/DTP/PAgP/UDLD
        CDP
                  436
                         Device ID: tux-sw5 Port ID: FastEthernet0
Frame 956: 436 bytes on wire (3488 bits), 436 bytes captured (3488
bits) on interface 0 IEEE 802.3 Ethernet Logical-Link Control
Cisco Discovery Protocol
   Time Source
Protocol Length Info
958 1335.828126000 Cisco_3a:f6:0f
                                                   Destination
                                                   Cisco_3a:f6:0f
        LOOP
                 60
                          Reply
Frame 958: 60 bytes on wire (480 bits), 60 bytes captured (480 bits
address (factory default)
            . . . . 0 . . . . . . . . . . . . = IG bit: Individual address (unicast)
    address (factory default)
         .... = IG bit: Individual address (unicast)
    Type: Loopback (0x9000)
```

```
Configuration Test Protocol (loopback)
Data (40 bytes)
0020 00 00 00 00 00 00 00 00
            Time Source
Protocol Length Info
964 1345.835434000 Cisco_3a:f6:0f
LOOP 60 Reply
                                                                                                                                                                              Destination
                                                                                                                                                                              Cisco_3a:f6:0f
Frame 964: 60 bytes on wire (480 bits), 60 bytes captured (480 bits
            ) on interface 0
. ...0 .... = IG bit: Individual address (unicast)
               Source: Cisco_3a:f6:Of (fc:fb:fb:3a:f6:Of)
Address: Cisco_3a:f6:Of (fc:fb:fb:3a:f6:Of)
.... = LG bit: Globally unique
                                            address (factory default)
                                .... = IG bit: Individual address (unicast)
Type: Loopback (0x9000)
Configuration Test Protocol (loopback)
Data (40 bytes)
0010 \\ \hline{)} \\ \\ \hline{)} \\ \\ \hline{)} \\ \\ \hline{)} \\ \hline{)} \\ \hline{)} \\ \hline{)} \\ \hline{)} \\ \hline{)} \\ \\ \hline{)} \\ \hline{)} \\ \hline{)} \\ \hline{]} \\
0020 00 00 00 00 00 00 00 00
            Time Source
Protocol Length Info
969 1355.303432000 Cisco_3a:f6:0f CDP,
DTP 60 Dynamic Trunking Protocol
                                                                                                                                                                              Destination
                                                                                                                                                                              CDP/VTP/DTP/PAgP/UDLD
Frame 969: 60 bytes on wire (480 bits), 60 bytes captured (480 bits
) on interface 0
IEEE 802.3 Ethernet
Logical-Link Control
Dynamic Trunking Protocol
           Time Source
Protocol Length Info
970 1355.303488000 Cisco_3a:f6:0f CDP,
DTP 90 Dynamic Trunking Protocol
                                                                                                                                                                              Destination
                                                                                                                                                                              CDP/VTP/DTP/PAgP/UDLD
Frame 970: 90 bytes on wire (720 bits), 90 bytes captured (720 bits
) on interface 0
ISL
IEEE 802.3 Ethernet
Logical-Link Control
Dynamic Trunking Protocol
VSS-Monitoring ethernet trailer, Timestamp: 01:00:00.000000000,
Source Port: 0
           Time Source
Protocol Length Info
971 1355.357446000 Cisco_3a:f6:40 Broadcast
App 60 Gratuitous ARP for 172.16.1.50 (Reply)
Frame 971: 60 bytes on wire (480 bits), 60 bytes captured (480 bits
) on interface 0
Ethernet II, Src: Cisco_3a:f6:40 (fc:fb:fb:3a:f6:40), Dst:
Broadcast (ff:ff:ff:ff:ff)
               Destination: Broadcast (ff:ff:ff:ff:ff:ff)
Address: Broadcast (ff:ff:ff:ff:ff:ff)
```

```
. ..1. .... = LG bit: Locally administered address (this is NOT the factory default)
     .... = IG bit: Individual address (unicast)
     Address Resolution Protocol (reply/gratuitous ARP)
    Time Source
Protocol Length Info
972 1355.865076000 Cisco_3a:f6:0f
LOOP 60 Reply
                                                          Cisco_3a:f6:0f
.... = IG bit: Individual address (unicast)
     Source: Cisco_3a:f6:0f (fc:fb:fb:3a:f6:0f)
    Address: Cisco_3a:f6:0f (fc:fb:fb:3a:f6:0f)
    ....    ....    ....    = LG bit: Glo
                                           .... = LG bit: Globally unique
             address (factory default)
          .... = IG bit: Individual address (unicast)
     Type: Loopback (0x9000)
Configuration Test Protocol (loopback)
Data (40 bytes)
0020 00 00 00 00 00 00 00
    Time Source
Protocol Length Info
975 1357.327964000 Hewlett-_b3:05:dd Broadcast
ARP 60 Who has 172.16.1.254? Tell 172.16.1.53
Frame 975: 60 bytes on wire (480 bits), 60 bytes captured (480 bits
on interface 0

Ethernet II, Src: Hewlett-_b3:05:dd (00:1b:78:b3:05:dd), Dst:

Broadcast (ff:ff:ff:ff:ff)
     Destination: Broadcast (ff:ff:ff:ff:ff)
Address: Broadcast (ff:ff:ff:ff:ff)
.... .1. .... .... = LG bit: Locally
administered address (this is NOT the factory default)
     administered address (this is NOI the lactory default)
.... 1 .... = IG bit: Group address (
multicast/broadcast)

Source: Hewlett-_b3:05:dd (00:1b:78:b3:05:dd)
Address: Hewlett-_b3:05:dd (00:1b:78:b3:05:dd)
.... 0 .... EG bit: Globally unique
address (factory default)
.... 0 .... = IG bit: Individual address
(unicast)

Type: ARP (0x0806)
     Address Resolution Protocol (request)
    Time Source Destination
Protocol Length Info
976 1357.328109000 172.16.1.53 193.136.28.10
DNS 72 Standard query 0x833e A id.google.pt
```

```
Frame 976: 72 bytes on wire (576 bits), 72 bytes captured (576 bits
) on interface 0
Ethernet II, Src: Hewlett-_b3:05:dd (00:1b:78:b3:05:dd), Dst:
Watchgua_30:b3:e1 (00:90:7f:30:b3:e1)
      Destination: Watchgua_30:b3:e1 (00:90:7f:30:b3:e1)

Address: Watchgua_30:b3:e1 (00:90:7f:30:b3:e1)

.... .0. ... ... = LG bit: Globally unique address (factory default)

= LG bit: Individual address
             .... = IG bit: Individual address (unicast)
      Source: Hewlett-_b3:05:dd (00:1b:78:b3:05:dd)
Address: Hewlett-_b3:05:dd (00:1b:78:b3:05:dd)
.... = LG bit: Globally unique
                 address (factory default)
             .... = IG bit: Individual address (unicast)
      Type: IP (0x0800)
Internet Protocol Version 4, Src: 172.16.1.53 (172.16.1.53), Dst: 193.136.28.10 (193.136.28.10)
User Datagram Protocol, Src Port: 51255 (51255), Dst Port: domain
     (53)
Domain Name System (query)
     Time Source Destination
Protocol Length Info
977 1357.328119000 172.16.1.53 193.136.28.10
DNS 75 Standard query 0x54af A ssl.gstatic.com
Frame 977: 75 bytes on wire (600 bits), 75 bytes captured (600 bits) on interface 0

Ethernet II, Src: Hewlett-_b3:05:dd (00:1b:78:b3:05:dd), Dst:
Watchgua_30:b3:e1 (00:90:7f:30:b3:e1)
      Destination: Watchgua_30:b3:e1 (00:90:71:30:b3:e1)

Address: Watchgua_30:b3:e1 (00:90:7f:30:b3:e1)

... .0 ... ... = LG bit: Globally unique
address (factory default)

... .0 ... ... = IG bit: Individual address
                  (unicast)
      .... 0 .... = IG bit: Individual address (unicast)
Type: IP (0x0800)
Internet Protocol Version 4, Src: 172.16.1.53 (172.16.1.53), Dst: 193.136.28.10 (193.136.28.10)
User Datagram Protocol, Src Port: 42436 (42436), Dst Port: domain
     (53)
Domain Name System (query)
     Time Source
Protocol Length Info
978 1357.328125000 172.16.1.53 193.136.28.10
DNS 73 Standard query Oxd85d A www.google.pt
Frame 978: 73 bytes on wire (584 bits), 73 bytes captured (584 bits
) on interface 0
Ethernet II, Src: Hewlett-_b3:05:dd (00:1b:78:b3:05:dd), Dst:
Watchgua_30:b3:e1 (00:90:7f:30:b3:e1)
      Destination: Watchgua_30:b3:e1 (00:90:7f:30:b3:e1)

Address: Watchgua_30:b3:e1 (00:90:7f:30:b3:e1)

.... .0. ... ... = LG bit: Globally unique address (factory default)
      (unicast)

Source: Hewlett-_b3:05:dd (00:1b:78:b3:05:dd)

Address: Hewlett-_b3:05:dd (00:1b:78:b3:05:dd)

.....0..... = LG bit: Globally unique address (factory default)
                                                     .... = IG bit: Individual address
             .... o .... = IG bit: Individual address (unicast)
```

```
Type: IP (0x0800)
Internet Protocol Version 4, Src: 172.16.1.53 (172.16.1.53), Dst: 193.136.28.10 (193.136.28.10)
User Datagram Protocol, Src Port: 55061 (55061), Dst Port: domain
Domain Name System (query)
      Time Source Destination
Protocol Length Info
979 1357.329379000 172.16.1.53 173.194.41.223
TCP 74 58460 > https [SYN] Seq=0 Win=14600 Len=0
MSS=1460 SACK_PERM=1 TSval=195245991 TSecr=0 WS=16
Frame 979: 74 bytes on wire (592 bits), 74 bytes captured (592 bits
) on interface 0
Ethernet II, Src: Hewlett-_b3:05:dd (00:1b:78:b3:05:dd), Dst:
Watchgua_30:b3:e1 (00:90:7f:30:b3:e1)
       Destination: Watchgua_30:b3:e1 (00:90:7f:30:b3:e1)
    Address: Watchgua_30:b3:e1 (00:90:7f:30:b3:e1)
    .... .0. .... = LG bit: Global
                     . .... : .... = LG bit: Globally unique address (factory default)
       address (factory default)
.....0 .... = IG bit: Individual address (unicast)

Source: Hewlett-_b3:05:dd (00:1b:78:b3:05:dd)
Address: Hewlett-_b3:05:dd (00:1b:78:b3:05:dd)
....0 .... = LG bit: Globally unique address (factory default)
....0 .... = IG bit: Individual address (unicast)

Type: IP (0x0800)
       Type: IP (0x0800)
Internet Protocol Version 4, Src: 172.16.1.53 (172.16.1.53), Dst: 173.194.41.223 (173.194.41.223)
Transmission Control Protocol, Src Port: 58460 (58460), Dst Port: https (443), Seq: 0, Len: 0
      Time Source Destination
Protocol Length Info
980 1357.335459000 172.16.1.53 173.194.41.223
TCP 66 58460 > https [ACK] Seq=1 Ack=1 Win=14608
Len=0 TSval=195245992 TSecr=1322722643
Frame 980: 66 bytes on wire (528 bits), 66 bytes captured (528 bits
) on interface 0
Ethernet II, Src: Hewlett-_b3:05:dd (00:1b:78:b3:05:dd), Dst:
Watchgua_30:b3:e1 (00:90:7f:30:b3:e1)
       Destination: Watchgua_30:b3:e1 (00:90:7f:30:b3:e1)
   Address: Watchgua_30:b3:e1 (00:90:7f:30:b3:e1)
   .... .0 .... = LG bit: Global
                    address (factory default)
                                                                          = LG bit: Globally unique
       .... ...0 .... .... = IG bit: Individual address (unicast)

Source: Hewlett-_b3:05:dd (00:1b:78:b3:05:dd)
               Address: Hewlett-_b3:05:dd (00:1b:78:b3:05:dd)
.... ..0. .... = LG bit: Globally unique
                    address (factory default)
                .... = IG bit: Individual address (unicast)
       Type: IP (0x0800)
Internet Protocol Version 4, Src: 172.16.1.53 (172.16.1.53), Dst: 173.194.41.223 (173.194.41.223)
Transmission Control Protocol, Src Port: 58460 (58460), Dst Port: https (443), Seq: 1, Ack: 1, Len: 0
               Time
                                                                                        Destination
      Protocol Length Info
981 1357.336267000 172.16.1.53
SSL 222 Client Hello
                                                                                        173.194.41.223
Frame 981: 222 bytes on wire (1776 bits), 222 bytes captured (1776
bits) on interface 0
Ethernet II, Src: Hewlett-_b3:05:dd (00:1b:78:b3:05:dd), Dst:
Watchgua_30:b3:e1 (00:90:7f:30:b3:e1)
Destination: Watchgua_30:b3:e1 (00:90:7f:30:b3:e1)
```

```
Address: Watchgua_30:b3:e1 (00:90:7f:30:b3:e1)
             .... ..0. .... = LG bit: Globally unique address (factory default)
                 ....0 .... = IG bit: Individual address (unicast)
      Source: Hewlett-_b3:05:dd (00:1b:78:b3:05:dd)
    Address: Hewlett-_b3:05:dd (00:1b:78:b3:05:dd)
    ....    ...    ...    ...    = LG bit: Global
                address (factory default)
                                                         . = LG bit: Globally unique
             .... o .... = IG bit: Individual address (unicast)
      Type: IP (0x0800)
Internet Protocol Version 4, Src: 172.16.1.53 (172.16.1.53), Dst: 173.194.41.223 (173.194.41.223)
Transmission Control Protocol, Src Port: 58460 (58460), Dst Port: https (443), Seq: 1, Ack: 1, Len: 156
Secure Sockets Layer
     Time Source Destination
Protocol Length Info
982 1357.343871000 172.16.1.53 173.194.41.223
TCP 66 58460 > https [ACK] Seq=157 Ack=1419 Win
=17504 Len=0 TSval=195245995 TSecr=1322722650
Frame 982: 66 bytes on wire (528 bits), 66 bytes captured (528 bits
address (factory default)
      address (factory default)
             .... (unicast)
                                    .... .... = IG bit: Individual address
Type: IP (0x0800)
Internet Protocol Version 4, Src: 172.16.1.53 (172.16.1.53), Dst: 173.194.41.223 (173.194.41.223)
Transmission Control Protocol, Src Port: 58460 (58460), Dst Port: https (443), Seq: 157, Ack: 1419, Len: 0
    Time Source
Protocol Length Info
983 1357.343948000 172.16.1.53 173.194.41.223
TCP 66 58460 > https [ACK] Seq=157 Ack=2837 Win
=20400 Len=0 TSval=195245995 TSecr=1322722650
Frame 983: 66 bytes on wire (528 bits), 66 bytes captured (528 bits
) on interface 0
Ethernet II, Src: Hewlett-_b3:05:dd (00:1b:78:b3:05:dd), Dst:
Watchgua_30:b3:e1 (00:90:7f:30:b3:e1)
      Destination: Watchgua_30:b3:e1 (00:90:7f:30:b3:e1)
   Address: Watchgua_30:b3:e1 (00:90:7f:30:b3:e1)
   .... .0. .... = LG bit: Globally unique
                ....0. .... .... default)
             .... (unicast)
                                                    .... = IG bit: Individual address
      Source: Hewlett-_b3:05:dd (00:1b:78:b3:05:dd)
Address: Hewlett-_b3:05:dd (00:1b:78:b3:05:dd)
                 ...0. ... ... = LG bit: Globally unique address (factory default)
             .... = IG bit: Individual address (unicast)
      Type: IP (0x0800)
Internet Protocol Version 4, Src: 172.16.1.53 (172.16.1.53), Dst: 173.194.41.223 (173.194.41.223)
Transmission Control Protocol, Src Port: 58460 (58460), Dst Port: https (443), Seq: 157, Ack: 2837, Len: 0
```

```
Time Source Destination
Protocol Length Info
984 1357.344039000 172.16.1.53 173.194.41.223
TCP 66 58460 > https [ACK] Seq=157 Ack=3861 Win
=23232 Len=0 TSval=195245995 TSecr=1322722650
Frame 984: 66 bytes on wire (528 bits), 66 bytes captured (528 bits
) on interface 0
Ethernet II, Src: Hewlett-_b3:05:dd (00:1b:78:b3:05:dd), Dst:
Watchgua_30:b3:e1 (00:90:7f:30:b3:e1)
     Destination: Watchgua_30:b3:e1 (00:90:7f:30:b3:e1)
Address: Watchgua_30:b3:e1 (00:90:7f:30:b3:e1)
                                                      . = LG bit: Globally unique
               address (factory default)
                   . . 0 .
            .... = IG bit: Individual address (unicast)
     Source: Hewlett-_b3:05:dd (00:1b:78:b3:05:dd)
    Address: Hewlett-_b3:05:dd (00:1b:78:b3:05:dd)
    ... .0. ... ... = LG bit: Globally unique
    address (factory default)
                                                 .... = IG bit: Individual address
            .... (unicast)
      Type: IP (0x0800)
Internet Protocol Version 4, Src: 172.16.1.53 (172.16.1.53), Dst: 173.194.41.223 (173.194.41.223)
Transmission Control Protocol, Src Port: 58460 (58460), Dst Port: https (443), Seq: 157, Ack: 3861, Len: 0
    Time Source
Protocol Length Info
985 1357.556516000 Hewlett-_b3:05:dd
ARP 60 Who has 172.16.1.2?
                                                                    Destination
                                                                 Broadcast
Tell 172.16.1.53
Frame 985: 60 bytes on wire (480 bits), 60 bytes captured (480 bits
) on interface 0
Ethernet II, Src: Hewlett-_b3:05:dd (00:1b:78:b3:05:dd), Dst:
Broadcast (ff:ff:ff:ff:ff)
      Destination: Broadcast (ff:ff:ff:ff:ff)
Address: Broadcast (ff:ff:ff:ff:ff:ff)
.... = LG bit: Locally
                administered address (this is NOT the factory default)
....1 .... = IG bit: Group address (
     multicast/broadcast)
Source: Hewlett-_b3:05:dd (00:1b:78:b3:05:dd)
Address: Hewlett-_b3:05:dd (00:1b:78:b3:05:dd)
.....0..... = LG bit: Globally unique
                 address (factory default)
            .... = IG bit: Individual address (unicast)
      Address Resolution Protocol (request)
    Time
Protocol Length Info
986 1357.556567000 172.16.1.53
DNS 75 Standard qu
                                                                    Destination
                                                                    172.16.1.2
                                   Standard query Oxaba6 A www.gstatic.com
Frame 986: 75 bytes on wire (600 bits), 75 bytes captured (600 bits
) on interface 0

Ethernet II, Src: Hewlett-_b3:05:dd (00:1b:78:b3:05:dd), Dst:
    Hewlett-_19:02:ba (00:22:64:19:02:ba)
    Destination: Hewlett-_19:02:ba (00:22:64:19:02:ba)
    Address: Hewlett-_19:02:ba (00:22:64:19:02:ba)

= I.G. bit: Globally unique
                                                      . = LG bit: Globally unique
                 address (factory default)
                   ...0 .... = IG bit: Individual address
     address (factory default)
```

```
.... 0 .... = IG bit: Individual address (unicast)
Type: IP (0x0800)
Internet Protocol Version 4, Src: 172.16.1.53 (172.16.1.53), Dst: 172.16.1.2 (172.16.1.2)
User Datagram Protocol, Src Port: 37601 (37601), Dst Port: domain
             (53)
 Domain Name System (query)
            Time Source
Protocol Length Info
987 1357.566458000 172.16.1.53 172.16.1.2
DNS 75 Standard query Oxa6e1 A ssl.gstatic.com
...0 .... ....
                                                                                                                                 .... = IG bit: Individual address
                (unicast)
Source: Hewlett-_b3:05:dd (00:1b:78:b3:05:dd)
                                Address: Hewlett-_b3:05:dd (00:1b:78:b3:05:dd)
.... .0. .... = LG bit: Globally unique address (factory default)
                                 .... = IG bit: Individual address (unicast)
                Type: IP (0x0800)
 Internet Protocol Version 4, Src: 172.16.1.53 (172.16.1.53), Dst: 172.16.1.2 (172.16.1.2)
 User Datagram Protocol, Src Port: 25335 (25335), Dst Port: domain
              (53)
 Domain Name System (query)
             Time Source
Protocol Length Info
992 1365.866991000 Cisco_3a:f6:0f
LOOP 60 Reply
                                                                                                                                                                                  Destination
                                                                                                                                                                                  Cisco_3a:f6:0f
 Frame 992: 60 bytes on wire (480 bits), 60 bytes captured (480 bits
             ) on interface 0
Ethernet II, Src: Cisco_3a:f6:0f (fc:fb:fb:3a:f6:0f), Dst: Cisco_3a:f6:0f (fc:fb:fb:3a:f6:0f)

Destination: Cisco_3a:f6:0f (fc:fb:fb:3a:f6:0f)

Address: Cisco_3a:f6:0f (fc:fb:fb:3a:f6:0f)

.....0..... = LG bit: Globally unique

address (factory default)
                                                   ...0 .... ....
                                                                                                                                 .... = IG bit: Individual address
                                            (unicast)
                Source: Cisco_3a:f6:0f (fc:fb:fb:3a:f6:0f)
Address: Cisco_3a:f6:0f (fc:fb:fb:3a:f6:0f)
... .0. ... ... = LG bit: Globally unique
                                             address (factory default)
                                                                                                            .... = IG bit: Individual address
                                 .... (unicast)
Type: Loopback (0x9000)
Configuration Test Protocol (loopback)
 Data (40 bytes)
 0010 \\ \hline{)} \\ \\ \hline{)} \\ \hline{]} \\ \hline{]} \\ \hline{]} \\ \hline{]} \\ \hline{] \\ \hline{]} \\
 0020 00 00 00 00 00 00 00 00
            Time
Protocol Length Info
994 1366.492845000 172.16.1.44
DNS 78 Standard que
                                                                                                                                                                                  Destination
                                                                                           172.16.1.44 172.16.1.1 Standard query 0x9aee A fa.netlab.fe.up.pt
 Frame 994: 78 bytes on wire (624 bits), 78 bytes captured (624 bits
             ) on interface 0
```

```
Ethernet II, Src: Hewlett-_c7:64:8e (00:21:5a:c7:64:8e), Dst:
    AsustekC_80:01:fb (00:17:31:80:01:fb)
    Destination: AsustekC_80:01:fb (00:17:31:80:01:fb)
    Address: AsustekC_80:01:fb (00:17:31:80:01:fb)
    ... .0. ... ... = LG bit: Globally unique
                address (factory default)
                                                  .... = IG bit: Individual address
                    ...0 .
      (unicast)
Source: Hewlett-_c7:64:8e (00:21:5a:c7:64:8e)
Address: Hewlett-_c7:64:8e (00:21:5a:c7:64:8e)
................................ = LG bit: Globally unique
                 address (factory default)
            .... = IG bit: Individual address (unicast)
      Type: IP (0x0800)
Internet Protocol Version 4, Src: 172.16.1.44 (172.16.1.44), Dst: 172.16.1.1 (172.16.1.1)
User Datagram Protocol, Src Port: 57708 (57708), Dst Port: domain
     (53)
Domain Name System (query)
           Time
                                                                    Destination
     Time
Protocol Length Info
995 1366.492909000 172.16.1.44 172.16.1.1
DNS 68 Standard query 0x0a28 A fe.up.pt
Frame 995: 68 bytes on wire (544 bits), 68 bytes captured (544 bits
.... = IG bit: Individual address
                (unicast)
      Source: Hewlett-_c7:64:8e (00:21:5a:c7:64:8e)
    Address: Hewlett-_c7:64:8e (00:21:5a:c7:64:8e)
    ....    ....    ....    = LG bit: Globally unique
                 address (factory default)
                   ...0 .... = IG bit: Individual address
                 (unicast)
Type: IP (0x0800)
Internet Protocol Version 4, Src: 172.16.1.44 (172.16.1.44), Dst: 172.16.1.1 (172.16.1.1)

The protocol Src Port: 40777 (40777). Dst Port: domain
User Datagram Protocol, Src Port: 40777 (40777), Dst Port: domain
     (53)
Domain Name System (query)
    Time Source Destination
Protocol Length Info
996 1366.492990000 172.16.1.44 172.16.1.1
DNS 70 Standard query 0x70cd A google.com
Frame 996: 70 bytes on wire (560 bits), 70 bytes captured (560 bits
address (factory default)
                                                 .... = IG bit: Individual address
      (unicast)
Source: Hewlett-_c7:64:8e (00:21:5a:c7:64:8e)
Address: Hewlett-_c7:64:8e (00:21:5a:c7:64:8e)
.....0....= LG bit: Globally unique address (factory default)
            .... ...0 .... ueraurt)
.... = IG bit: Individual address
(unicast)
      Type: IP (0x0800)
Internet Protocol Version 4, Src: 172.16.1.44 (172.16.1.44), Dst: 172.16.1.1 (172.16.1.1)
```

```
User Datagram Protocol, Src Port: 5141 (5141), Dst Port: domain
    (53)
Domain Name System (query)
    Time Source Destination
Protocol Length Info
997 1366.494471000 172.16.1.1 172.16.1.44
DNS 210 Standard query response 0x0a28 A
          193.136.28.205
Frame 997: 210 bytes on wire (1680 bits), 210 bytes captured (1680
....0 .... = IG bit: Individual address (unicast)
     Source: AsustekC_80:01:fb (00:17:31:80:01:fb)
    Address: AsustekC_80:01:fb (00:17:31:80:01:fb)
    .... .0. .... = LG bit: Globally unique address (factory default)
           .... = IG bit: Individual address (unicast)
     Type: IP (0x0800)
Internet Protocol Version 4, Src: 172.16.1.1 (172.16.1.1), Dst: 172.16.1.44 (172.16.1.44)
      Datagram Protocol, Src Port: domain (53), Dst Port: 40777
    (40777)
Domain Name System (response)
    Time Source
Protocol Length Info
998 1366.494530000 172.16.1.1 172.16.1.44
DNS 123 Standard query response 0x9aee No such name
Frame 998: 123 bytes on wire (984 bits), 123 bytes captured (984
bits) on interface 0

Ethernet II, Src: AsustekC_80:01:fb (00:17:31:80:01:fb), Dst:
    Hewlett-_c7:64:8e (00:21:5a:c7:64:8e)
    Destination: Hewlett-_c7:64:8e (00:21:5a:c7:64:8e)
    Address: Hewlett-_c7:64:8e (00:21:5a:c7:64:8e)
    ... .0. ... ... ELG bit: Globally unique
               . ..0. .... .... address (factory default)
              (unicast)
                                             .... = IG bit: Individual address
     Source: AsustekC_80:01:fb (00:17:31:80:01:fb)
    Address: AsustekC_80:01:fb (00:17:31:80:01:fb)
    .... .0. .... = LG bit: Globally unique
              address (factory default)
           .... (unicast)
                                            .... = IG bit: Individual address
Type: IP (0x0800)
Internet Protocol Version 4, Src: 172.16.1.1 (172.16.1.1), Dst: 172.16.1.44 (172.16.1.44)
User Datagram Protocol, Src Port: domain (53), Dst Port: 57708
    (57708)
Domain Name System (response)
    Time Source
Protocol Length Info
999 1366.495046000 172.16.1.44 172.16.1.1
DNS 73 Standard query 0x2227 A inescporto.pt
Frame 999: 73 bytes on wire (584 bits), 73 bytes captured (584 bits
address (factory default)
```

```
.....0 .... = IG bit: Individual address (unicast)

Source: Hewlett-_c7:64:8e (00:21:5a:c7:64:8e)

Address: Hewlett-_c7:64:8e (00:21:5a:c7:64:8e)

.... 0. .... = LG bit: Globally unique
                   address (factory default)
               .... = IG bit: Individual address (unicast)
       Type: IP (0x0800)
Internet Protocol Version 4, Src: 172.16.1.44 (172.16.1.44), Dst:
172.16.1.1 (172.16.1.1)
User Datagram Protocol, Src Port: 47093 (47093), Dst Port: domain
      (53)
Domain Name System (query)
     Time Source
Protocol Length Info
1000 1366.495165000 172.16.1.44 172.16.1.1
DNS 71 Standard query 0xc0eb A fa.fe.up.pt
.... 0 .... .... = IG bit: Individual address (unicast)

Source: Hewlett-_c7:64:8e (00:21:5a:c7:64:8e)

Address: Hewlett-_c7:64:8e (00:21:5a:c7:64:8e)

.... 0 .... EG bit: Globally unique address (factory default)

.... 10 .... EIG bit: Individual address (unicast)
       Type: IP (0x0800)
Internet Protocol Version 4, Src: 172.16.1.44 (172.16.1.44), Dst: 172.16.1.1 (172.16.1.1)
User Datagram Protocol, Src Port: 49617 (49617), Dst Port: domain
      (53)
Domain Name System (query)
     Time Source
Protocol Length Info
1001 1366.496226000 172.16.1.1 172.16.1.44
DNS 116 Standard query response 0xc0eb No such name
Frame 1001: 116 bytes on wire (928 bits), 116 bytes captured (928
Frame 1001: 116 bytes on wire (920 bits), 110 bytes days bits) on interface 0

Ethernet II, Src: AsustekC_80:01:fb (00:17:31:80:01:fb), Dst:
    Hewlett-_c7:64:8e (00:21:5a:c7:64:8e)
    Destination: Hewlett-_c7:64:8e (00:21:5a:c7:64:8e)
    Address: Hewlett-_c7:64:8e (00:21:5a:c7:64:8e)
    ......0. ..... = LG bit: Globally unique address (factory default)
       .... ...0 .... .... = IG bit: Individual addr (unicast)

Source: AsustekC_80:01:fb (00:17:31:80:01:fb)
   Address: AsustekC_80:01:fb (00:17:31:80:01:fb)
   .... .0 .... = LG bit: Globally unique
                                                   .... = IG bit: Individual address
                     . ...0 .... .... = IG bit: Individual address (unicast)
                   address (factory default)
       Type: IP (0x0800)
Internet Protocol Version 4, Src: 172.16.1.1 (172.16.1.1), Dst: 172.16.1.44 (172.16.1.44)
User Datagram Protocol, Src Port: domain (53), Dst Port: 49617
      (49617)
Domain Name System (response)
No. Time
Protocol Length Info
             Time
                                                                                    Destination
```

```
1002 1366.497478000 172.16.1.44 172.16.1.1 DNS 78 Standard query 0xeebb A fa.netlab.fe.up.pt
Frame 1002: 78 bytes on wire (624 bits), 78 bytes captured (624
bits) on interface 0

Ethernet II, Src: Hewlett-_c7:64:8e (00:21:5a:c7:64:8e), Dst:
    AsustekC_80:01:fb (00:17:31:80:01:fb)
    Destination: AsustekC_80:01:fb (00:17:31:80:01:fb)
    Address: AsustekC_80:01:fb (00:17:31:80:01:fb)
    .... .... = LG bit: Globally unique
                  address (factory default)
                 (unicast)
                                                     .... = IG bit: Individual address
      Source: Hewlett-_c7:64:8e (00:21:5a:c7:64:8e)
Address: Hewlett-_c7:64:8e (00:21:5a:c7:64:8e)
.... .0. ... ... = LG bit: Globally unique address (factory default)
             .... 0 .... = IG bit: Individual address (unicast)
      Type: IP (0x0800)
Internet Protocol Version 4, Src: 172.16.1.44 (172.16.1.44), Dst: 172.16.1.1 (172.16.1.1)
User Datagram Protocol, Src Port: 49526 (49526), Dst Port: domain
Domain Name System (query)
     Time Source
Protocol Length Info
1003 1366.497600000 172.16.1.1 172.16.1.44
DNS 123 Standard query response 0xeebb No such name
Frame 1003: 123 bytes on wire (984 bits), 123 bytes captured (984
address (factory default)
                 ....0 .... ueraurt)
.....0 .... = IG bit: Individual address
(unicast)
      Source: AsustekC_80:01:fb (00:17:31:80:01:fb)
    Address: AsustekC_80:01:fb (00:17:31:80:01:fb)
    ... .0. ... ... = LG bit: Globally unique
    address (factory default)
             .... = IG bit: Individual address (unicast)
       Type: IP (0x0800)
Internet Protocol Version 4, Src: 172.16.1.1 (172.16.1.1), Dst: 172.16.1.44 (172.16.1.44)
User Datagram Protocol, Src Port: domain (53), Dst Port: 49526
      (49526)
Domain Name System (response)
     Time Source
Protocol Length Info
1004 1366.497763000 172.16.1.44 172.16.1.1
DNS 71 Standard query 0xa695 A fa.fe.up.pt
Frame 1004: 71 bytes on wire (568 bits), 71 bytes captured (568
Frame 1004: /1 bytes on wire (500 bits), /1 bytes captured (512 bits) on interface 0
Ethernet II, Src: Hewlett-_c7:64:8e (00:21:5a:c7:64:8e), Dst:
   AsustekC_80:01:fb (00:17:31:80:01:fb)
   Destination: AsustekC_80:01:fb (00:17:31:80:01:fb)
        Address: AsustekC_80:01:fb (00:17:31:80:01:fb)
        ...... = LG bit: Globally unique
        address (factory default)
             .... = IG bit: Individual address (unicast)
      Source: Hewlett-_c7:64:8e (00:21:5a:c7:64:8e)
   Address: Hewlett-_c7:64:8e (00:21:5a:c7:64:8e)
   .... ..0. .... = LG bit: Globally unique
                  address (factory default)
```

```
.... 0 .... = IG bit: Individual address (unicast)
Type: IP (0x0800)
Internet Protocol Version 4, Src: 172.16.1.44 (172.16.1.44), Dst: 172.16.1.1 (172.16.1.1)
User Datagram Protocol, Src Port: 40555 (40555), Dst Port: domain
     (53)
Domain Name System (query)
     Time Source Destination
Protocol Length Info
1005 1366.497843000 172.16.1.1 172.16.1.44
DNS 116 Standard query response 0xa695 No such name
Frame 1005: 116 bytes on wire (928 bits), 116 bytes captured (928 bits) on interface 0

Ethernet II, Src: AsustekC_80:01:fb (00:17:31:80:01:fb), Dst:
    Hewlett-_c7:64:8e (00:21:5a:c7:64:8e)
    Destination: Hewlett-_c7:64:8e (00:21:5a:c7:64:8e)
    Address: Hewlett-_c7:64:8e (00:21:5a:c7:64:8e)
    .....0....= LG bit: Globally unique address (factory default)
    .....0 .... = IG bit: Individual address
      address (lactory default)
.... 0 .... = IG bit: Individual addr (unicast)
Source: AsustekC_80:01:fb (00:17:31:80:01:fb)
Address: AsustekC_80:01:fb (00:17:31:80:01:fb)
.... 0 .... EG bit: Globally unique address (factory default)
                                                          .... = IG bit: Individual address
               .... = IG bit: Individual address (unicast)
       Type: IP (0x0800)
Internet Protocol Version 4, Src: 172.16.1.1 (172.16.1.1), Dst: 172.16.1.44 (172.16.1.44)
User Datagram Protocol, Src Port: domain (53), Dst Port: 40555 (40555)
Domain Name System (response)
     Time
Protocol Length Info
1006 1366.497947000 172.16.1.44 1/2.

DNS 62 Standard query 0x5318 A fa
                                                                                Destination
                                                                                172.16.1.1
. ...0 .... .... (unicast)
                                                          .... = IG bit: Individual address
       Source: Hewlett-_c7:64:8e (00:21:5a:c7:64:8e)
Address: Hewlett-_c7:64:8e (00:21:5a:c7:64:8e)
.... .0. ... ... = LG bit: Globally unique address (factory default)

= TG bit: Individual addr
                                                .... = IG bit: Individual address
               .... (unicast)
       Type: IP (0x0800)
Internet Protocol Version 4, Src: 172.16.1.44 (172.16.1.44), Dst:
172.16.1.1 (172.16.1.1)
User Datagram Protocol, Src Port: 39883 (39883), Dst Port: domain
      (53)
Domain Name System (query)
     Time Source
Protocol Length Info
1011 1375.874384000 Cisco_3a:f6:0f
LOOP 60 Reply
                                                                                Destination
                                                                                Cisco_3a:f6:0f
Frame 1011: 60 bytes on wire (480 bits), 60 bytes captured (480 bits) on interface 0 \,
```

```
address (factory default)
                          ... .... .... = IG bit: Individual address
                  ...0 .
     (unicast)
Source: Cisco_3a:f6:0f (fc:fb:fb:3a:f6:0f)
Address: Cisco_3a:f6:0f (fc:fb:fb:3a:f6:0f)
.....0..... = LG bit: Globally unique
address (factory default)

= TG bit: Individual addr
               . ...0 .... = IG bit: Individual address (unicast)
Type: Loopback (0x9000)
Configuration Test Protocol (loopback)
Data (40 bytes)
0020 00 00 00 00 00 00 00
    Time Source
Protocol Length Info
1017 1385.303007000 Cisco_3a:f6:0f CDF
TOTO 60 Dynamic Trunking Protocol
                                                             Destination
                                                             CDP/VTP/DTP/PAgP/UDLD
Frame 1017: 60 bytes on wire (480 bits), 60 bytes captured (480 bits) on interface 0
IEEE 802.3 Ethernet
Logical-Link Control
Dynamic Trunking Protocol
    Time Source Determined Protocol Length Info
1018 1385.303073000 Cisco_3a:f6:0f CDM DTP 90 Dynamic Trunking Protocol
                                                             Destination
                                                             CDP/VTP/DTP/PAgP/UDLD
Frame 1018: 90 bytes on wire (720 bits), 90 bytes captured (720 bits) on interface 0
ISL
IEEE 802.3 Ethernet
Logical-Link Control
Dynamic Trunking Protocol
VSS-Monitoring ethernet trailer, Timestamp: 01:00:00.000000000,
Source Port: 0
Destination
    Time Source
Protocol Length Info
1019 1385.881773000 Cisco_3a:f6:0f
LOOP 60 Reply
                                                             Destination
                                                             Cisco_3a:f6:0f
Frame 1019: 60 bytes on wire (480 bits), 60 bytes captured (480
bits) on interface 0
Ethernet II, Src: Cisco_3a:f6:0f (fc:fb:fb:3a:f6:0f), Dst: Cisco_3a:f6:0f (fc:fb:fb:3a:f6:0f)
     Destination: Cisco_3a:f6:0f (fc:fb:fb:3a:f6:0f)
Address: Cisco_3a:f6:0f (fc:fb:fb:3a:f6:0f)
.... .0. ... ... ... = LG bit: Globally unique
              address (factory default)
           .... = IG bit: Individual address (unicast)
     Source: Cisco_3a:f6:0f (fc:fb:fb:3a:f6:0f)
Address: Cisco_3a:f6:0f (fc:fb:fb:3a:f6:0f)
.....0..... = LG bit: Globally unique
              address (factory default)
              . ...0 .... = IG bit: Individual address (unicast)
Type: Loopback (0x9000)
Configuration Test Protocol (loopback)
Data (40 bytes)
```

```
0020 00 00 00 00 00 00 00 00
   Time Source
Protocol Length Info
1025 1395.344238000 Cisco_3a:f6:0f
                                                       Destination
                                                       CDP/VTP/DTP/PAgP/UDLD
                  454
                           Device ID: tux-sw5 Port ID: FastEthernet0/13
Frame 1025: 454 bytes on wire (3632 bits), 454 bytes captured (3632
bits) on interface 0
IEEE 802.3 Ethernet
Logical-Link Control
Cisco Discovery Protocol
    Time Source
Protocol Length Info
1026 1395.885777000 Cisco_3a:f6:0f
LOOP 60 Reply
                                                       Destination
                                                       Cisco_3a:f6:0f
Frame 1026: 60 bytes on wire (480 bits), 60 bytes captured (480
bits) on interface 0

Ethernet II, Src: Cisco_3a:f6:0f (fc:fb:fb:3a:f6:0f), Dst: Cisco_3a:f6:0f (fc:fb:fb:3a:f6:0f)

Destination: Cisco_3a:f6:0f (fc:fb:fb:3a:f6:0f)

Address: Cisco_3a:f6:0f (fc:fb:fb:3a:f6:0f)

.....0.....= LG bit: Globally unique
              address (factory default)
             ....0 .... = IG bit: Individual address (unicast)
    Source: Cisco_3a:f6:0f (fc:fb:fb:3a:f6:0f)
Address: Cisco_3a:f6:0f (fc:fb:fb:3a:f6:0f)
.... = LG bit: Globally unique
             address (factory default)
                                  .... = IG bit: Individual address
                . . . 0 .
              (unicast)
Type: Loopback (0x9000)
Configuration Test Protocol (loopback)
Data (40 bytes)
0020 00 00 00 00 00 00 00
   Time
Protocol Length Info
1032 1405.893348000 Cisco_3a:f6:0f
60 Reply
                                                       Destination
                                                       Cisco_3a:f6:0f
Frame 1032: 60 bytes on wire (480 bits), 60 bytes captured (480 bits) on interface 0
Ethernet II, Src: Cisco_3a:f6:0f (fc:fb:fb:3a:f6:0f), Dst: Cisco_3a:f6:0f (fc:fb:fb:3a:f6:0f)

Destination: Cisco_3a:f6:0f (fc:fb:fb:3a:f6:0f)

Address: Cisco_3a:f6:0f (fc:fb:fb:3a:f6:0f)

.....0.....= LG bit: Globally unique
             address (factory default)
              . ...0 .... = IG bit: Individual address (unicast)
     Source: Cisco_3a:f6:0f (fc:fb:fb:3a:f6:0f)
         Address: Cisco_3a:f6:0f (fc:fb:fb:3a:f6:0f)
... .0. ... ... ... = LG bit: Globally unique
address (factory default)
          (unicast)
                                  .... = IG bit: Individual address
     Type: Loopback (0x9000)
Configuration Test Protocol (loopback)
Data (40 bytes)
0020 00 00 00 00 00 00 00
```

```
Time Source
Protocol Length Info
1038 1415.313693000 Cisco_3a:f6:0f CDM
TO 60 Dynamic Trunking Protocol
                                                  Destination
                                                  CDP/VTP/DTP/PAgP/UDLD
Frame 1038: 60 bytes on wire (480 bits), 60 bytes captured (480
bits) on interface 0
IEEE 802.3 Ethernet
Logical-Link Control
Dynamic Trunking Protocol
   Time Source Des
Protocol Length Info
1039 1415.313758000 Cisco_3a:f6:0f CDM
DTP 90 Dynamic Trunking Protocol
                                                  Destination
                                                  CDP/VTP/DTP/PAgP/UDLD
Frame 1039: 90 bytes on wire (720 bits), 90 bytes captured (720
   bits) on interface 0
IEEE 802.3 Ethernet
Logical-Link Control
Dynamic Trunking Protocol
   Time Source
Protocol Length Info
1040 1415.900718000 Cisco_3a:f6:0f
LOOP 60 Reply
                                                  Destination
                                                  Cisco_3a:f6:0f
Frame 1040: 60 bytes on wire (480 bits), 60 bytes captured (480
bits) on interface 0
Ethernet II, Src: Cisco_3a:f6:0f (fc:fb:fb:3a:f6:0f), Dst: Cisco_3a
   address (factory default)
    address (factory default)
         .... 0 .... = IG bit: Individual address (unicast)
Type: Loopback (0x9000)
Configuration Test Protocol (loopback)
Data (40 bytes)
0020 00 00 00 00 00 00 00 00
   Time
Protocol Length Info
1046 1425.902904000 Cisco_3a:f6:0f
60 Reply
                                                  Destination
                                                  Cisco_3a:f6:0f
Frame 1046: 60 bytes on wire (480 bits), 60 bytes captured (480 bits) on interface 0
Ethernet II, Src: Cisco_3a:f6:0f (fc:fb:fb:3a:f6:0f), Dst: Cisco_3a
   :f6:0f (fc:fb:fb:3a:f6:0f)
    address (factory default)
              ...0 .... = IG bit: Individual address
            (unicast)
    Source: Cisco_3a:f6:0f (fc:fb:fb:3a:f6:0f)
Address: Cisco_3a:f6:0f (fc:fb:fb:3a:f6:0f)
.... .0. .... = LG bit: Globally unique
address (factory default)

= LG bit: Individual addr
                         .... .... = IG bit: Individual address
         .... (unicast)
    Type: Loopback (0x9000)
```

```
Configuration Test Protocol (loopback)
 Data (40 bytes)
 0020 00 00 00 00 00 00 00 00
             Time Source
Protocol Length Info
1052 1435.902312000 Cisco_3a:f6:0f
LOOP 60 Reply
                                                                                                                                                                                             Destination
                                                                                                                                                                                             Cisco_3a:f6:0f
Frame 1052: 60 bytes on wire (480 bits), 60 bytes captured (480 bits) on interface 0
Ethernet II, Src: Cisco_3a:f6:0f (fc:fb:fb:3a:f6:0f), Dst: Cisco_3a
              :f6:0f (fc:fb:fb:3a:f6:0f)
                 . ...0 .... = IG bit: Individual address (unicast)
                 Source: Cisco_3a:f6:Of (fc:fb:fb:3a:f6:Of)
Address: Cisco_3a:f6:Of (fc:fb:fb:3a:f6:Of)
.... = LG bit: Globally unique
                                                address (factory default)
                                   .... = IG bit: Individual address (unicast)
 Type: Loopback (0x9000)
Configuration Test Protocol (loopback)
 Data (40 bytes)
 0010 \\ \hline{)} \\ \\ \hline{)} \\ \\ \hline{)} \\ \\ \hline{)} \\ \hline{)} \\ \hline{)} \\ \hline{)} \\ \hline{)} \\ \hline{)} \\ \\ \hline{)} \\ \hline{)} \\ \hline{)} \\ \hline{]} \\
 0020 00 00 00 00 00 00 00 00
             Time Source
Protocol Length Info
1058 1445.313745000 Cisco_3a:f6:0f CDM
DTP 60 Dynamic Trunking Protocol
60 byte
                                                                                                                                                                                             Destination
                                                                                                                                                                                             CDP/VTP/DTP/PAgP/UDLD
Frame 1058: 60 bytes on wire (480 bits), 60 bytes captured (480 bits) on interface 0
IEEE 802.3 Ethernet
Logical-Link Control
Dynamic Trunking Protocol
             Time Source
Protocol Length Info
1059 1445.313811000 Cisco_3a:f6:0f CDN
DTP 90 Dynamic Trunking Protocol
(720 bits), 90 byte
                                                                                                                                                                                             Destination
                                                                                                                                                                                             CDP/VTP/DTP/PAgP/UDLD
 Frame 1059: 90 bytes on wire (720 bits), 90 bytes captured (720
 bits) on interface 0
ISL
IEEE 802.3 Ethernet
Logical-Link Control
Dynamic Trunking Protocol
             Time Source
Protocol Length Info
1060 1445.909275000 Cisco_3a:f6:0f
                                                                                                                                                                                             Destination
                                                                                                                                                                                             Cisco_3a:f6:0f
 Frame 1060: 60 bytes on wire (480 bits), 60 bytes captured (480
Frame 1060: 60 bytes on wile (165 bits) on interface 0

Ethernet II, Src: Cisco_3a:f6:0f (fc:fb:fb:3a:f6:0f), Dst: Cisco_3a:f6:0f (fc:fb:fb:3a:f6:0f)

Destination: Cisco_3a:f6:0f (fc:fb:fb:3a:f6:0f)

Address: Cisco_3a:f6:0f (fc:fb:fb:3a:f6:0f)

.... .0. ... ... ... = LG bit: Globally unique
                                               address (factory default)
```

```
.....0 .... = IG bit: Individual address (unicast)

Source: Cisco_3a:f6:0f (fc:fb:fb:3a:f6:0f)
Address: Cisco_3a:f6:0f (fc:fb:fb:3a:f6:0f)
.....0 .... = LG bit: Globally unique
                address (factory default)
(unicast)
Type: Loopback (0x9000)
Configuration Test Protocol (loopback)
                                                   .... = IG bit: Individual address
Data (40 bytes)
0020 00 00 00 00 00 00 00
     Time Source Destination
Protocol Length Info
1062 1446.309415000 193.136.37.80 172.16.1.44
TCP 66 https > 45934 [ACK] Seq=1 Ack=1 Win=171 Len=0
TSval=3744006601 TSecr=172030030
Frame 1062: 66 bytes on wire (528 bits), 66 bytes captured (528
address (factory default)
                ....0 .... = IG bit: Individual address (unicast)
      Source: Watchgua_30:b3:e1 (00:90:7f:30:b3:e1)
    Address: Watchgua_30:b3:e1 (00:90:7f:30:b3:e1)
    .... .0. .... = LG bit: Global
                ....0. .... .... = LG bit: Globally unique address (factory default)
             .... = IG bit: Individual address (unicast)
      Type: IP (0x0800)
Internet Protocol Version 4, Src: 193.136.37.80 (193.136.37.80), Dst: 172.16.1.44 (172.16.1.44)
Transmission Control Protocol, Src Port: https (443), Dst Port: 45934 (45934), Seq: 1, Ack: 1, Len: 0
    Time Source
Protocol Length Info
1064 1449.259648000 172.16.1.44
DNS 86 Standard query 0x14fd
                                                                       Destination
                                                                     172.16.1.1
PTR 95.132.125.74.in-
         addr.arpa
Frame 1064: 86 bytes on wire (688 bits), 86 bytes captured (688
     bits) on interface 0
Ethernet II, Src: Hewlett-_c7:64:8e (00:21:5a:c7:64:8e), Dst:
    AsustekC_80:01:fb (00:17:31:80:01:fb)
    Destination: AsustekC_80:01:fb (00:17:31:80:01:fb)
    Address: AsustekC_80:01:fb (00:17:31:80:01:fb)
    .....0. .... = LG bit: Globally unique
    address (factory default)
                                                   .... = IG bit: Individual address
             .... (unicast)
      Source: Hewlett-_c7:64:8e (00:21:5a:c7:64:8e)
Address: Hewlett-_c7:64:8e (00:21:5a:c7:64:8e)
... .0. ... ... ... = LG bit: Globally unique
address (factory default)
             .... (unicast)
                                                   .... = IG bit: Individual address
      Type: IP (0x0800)
Internet Protocol Version 4, Src: 172.16.1.44 (172.16.1.44), Dst: 172.16.1.1 (172.16.1.1)
User Datagram Protocol, Src Port: 32917 (32917), Dst Port: domain
     (53)
Domain Name System (query)
```

```
Time Source Destination
Protocol Length Info
1065 1449.260212000 172.16.1.44 172.16.1.1
DNS 87 Standard query 0x6240 PTR 212.41.194.173.in-
          addr.arpa
Frame 1065: 87 bytes on wire (696 bits), 87 bytes captured (696
bits) on interface 0

Ethernet II, Src: Hewlett-_c7:64:8e (00:21:5a:c7:64:8e), Dst:
    AsustekC_80:01:fb (00:17:31:80:01:fb)
    Destination: AsustekC_80:01:fb (00:17:31:80:01:fb)
    Address: AsustekC_80:01:fb (00:17:31:80:01:fb)
    ... .0. ... ... EG bit: Globally unique
                   address (factory default)
      .... 0 .... = IG bit: Individual address (unicast)

Source: Hewlett-_c7:64:8e (00:21:5a:c7:64:8e)

Address: Hewlett-_c7:64:8e (00:21:5a:c7:64:8e)

.... 0 .... ELG bit: Globally unique
                  address (factory default)
                   . ...0 .... .... = IG bit: Individual address (unicast)
       Type: IP (0x0800)
Internet Protocol Version 4, Src: 172.16.1.44 (172.16.1.44), Dst: 172.16.1.1 (172.16.1.1)
User Datagram Protocol, Src Port: 36515 (36515), Dst Port: domain
Domain Name System (query)
     Time Source
Protocol Length Info
1066 1449.260623000 172.16.1.44
DNS 87 Standard query 0x083a
                                                                            Destination
                                                                          172.16.1.1
PTR 207.41.194.173.in-
           addr.arpa
Frame 1066: 87 bytes on wire (696 bits), 87 bytes captured (696
address (factory default)
              .... ...0 .... .... = IG bit: Individual address
                  (unicast)
       Source: Hewlett-_c7:64:8e (00:21:5a:c7:64:8e)
             Address: Hewlett-_c7:64:8e (00:21:5a:c7:64:8e)
.... ..0. .... = LG bit: Globally unique
                  address (factory default)
              .... = IG bit: Individual address (unicast)
       Type: IP (0x0800)
Internet Protocol Version 4, Src: 172.16.1.44 (172.16.1.44), Dst: 172.16.1.1 (172.16.1.1)
User Datagram Protocol, Src Port: 37901 (37901), Dst Port: domain
      (53)
Domain Name System (query)
     Time Source Destination
Protocol Length Info
1067 1449.261038000 172.16.1.44 172.16.1.1
DNS 87 Standard query Oxabf9 PTR 222.41.194.173.in-
          addr.arpa
Frame 1067: 87 bytes on wire (696 bits), 87 bytes captured (696
bits) on interface 0

Ethernet II, Src: Hewlett-_c7:64:8e (00:21:5a:c7:64:8e), Dst:
    AsustekC_80:01:fb (00:17:31:80:01:fb)
    Destination: AsustekC_80:01:fb (00:17:31:80:01:fb)
    Address: AsustekC_80:01:fb (00:17:31:80:01:fb)
    .... .0. .... ... ... = LG bit: Globally unique
                   address (factory default)
```

```
.....0 .... = IG bit: Individual address (unicast)

Source: Hewlett-_c7:64:8e (00:21:5a:c7:64:8e)

Address: Hewlett-_c7:64:8e (00:21:5a:c7:64:8e)

.... 0. .... = LG bit: Globally unique
              address (factory default)
           .... = IG bit: Individual address (unicast)
     Type: IP (0x0800)
Internet Protocol Version 4, Src: 172.16.1.44 (172.16.1.44), Dst:
172.16.1.1 (172.16.1.1)
User Datagram Protocol, Src Port: 39323 (39323), Dst Port: domain
     (53)
Domain Name System (query)
    Time Source Destination
Protocol Length Info
1068 1449.261470000 172.16.1.44 172.16.1.1
DNS 87 Standard query 0xe915 PTR 161.28.136.193.in-
        addr.arpa
Frame 1068: 87 bytes on wire (696 bits), 87 bytes captured (696
....0 .... = IG bit: Individual address (unicast)
     Source: Hewlett-_c7:64:8e (00:21:5a:c7:64:8e)
Address: Hewlett-_c7:64:8e (00:21:5a:c7:64:8e)
.... .0. ... ... = LG bit: Globally unique address (factory default)
               ....0 .... = IG bit: Individual address (unicast)
Type: IP (0x0800)
Internet Protocol Version 4, Src: 172.16.1.44 (172.16.1.44), Dst: 172.16.1.1 (172.16.1.1)

The Protocol Sec Port: 52959 (52959), Dst Port: domain
User Datagram Protocol, Src Port: 52959 (52959), Dst Port: domain
    (53)
Domain Name System (query)
    Time Source
Protocol Length Info
1072 1455.354251000 Cisco_3a:f6:0f CDP/VTP/DTP/PAgP/UULU
CDP 454 Device ID: tux-sw5 Port ID: FastEthernet0/13
Frame 1072: 454 bytes on wire (3632 bits), 454 bytes captured (3632
bits) on interface 0
IEEE 802.3 Ethernet
Logical-Link Control
Cisco Discovery Protocol
    Time Source
Protocol Length Info
1074 1455.916675000 Cisco_3a:f6:0f
LOOP 60 Reply
                                                              Destination
                                                              Cisco_3a:f6:0f
Frame 1074: 60 bytes on wire (480 bits), 60 bytes captured (480
bits) on interface 0

Ethernet II, Src: Cisco_3a:f6:0f (fc:fb:fb:3a:f6:0f), Dst: Cisco_3a:f6:0f (fc:fb:fb:3a:f6:0f)
     Destination: Cisco_3a:f6:0f (fc:fb:fb:3a:f6:0f)
Address: Cisco_3a:f6:0f (fc:fb:fb:3a:f6:0f)
.... ..0. .... = LG bit: Globally unique
              address (factory default)
                  ...0 .... = IG bit: Individual address
```

```
.... (unicast)
                          .... : IG bit: Individual address
Type: Loopback (0x9000)
Configuration Test Protocol (loopback)
Data (40 bytes)
0020 00 00 00 00 00 00 00 00
   Time Source
Protocol Length Info
1080 1465.924010000 Cisco_3a:f6:0f
LOOP 60 Reply
                                                    Destination
                                                    Cisco_3a:f6:0f
Frame 1080: 60 bytes on wire (480 bits), 60 bytes captured (480
.... = IG bit: Individual address (unicast)
    Source: Cisco_3a:f6:0f (fc:fb:fb:3a:f6:0f)
Address: Cisco_3a:f6:0f (fc:fb:fb:3a:f6:0f)
.....0..... = LG bit: Globally unique
            address (factory default)
             . ...0 .... .... = IG bit: Individual address (unicast)
Type: Loopback (0x9000)
Configuration Test Protocol (loopback)
Data (40 bytes)
0020 00 00 00 00 00 00 00
   Time Protocol Length Info
                                                    Destination
   1085 1475.319155000 Cisco_3a:f6:Of CDI
DTP 60 Dynamic Trunking Protocol
                                                    CDP/VTP/DTP/PAgP/UDLD
Frame 1085: 60 bytes on wire (480 bits), 60 bytes captured (480
bits) on interface 0
IEEE 802.3 Ethernet
Logical-Link Control
Dynamic Trunking Protocol
   Time Source
Protocol Length Info
1086 1475.319213000 Cisco_3a:f6:0f
                                                    Destination
                                                    CDP/VTP/DTP/PAgP/UDLD
                         Dynamic Trunking Protocol
                 90
Frame 1086: 90 bytes on wire (720 bits), 90 bytes captured (720
   bits) on interface 0
ISL
IEEE 802.3 Ethernet
Logical-Link Control
Dynamic Trunking Protocol
   Time Source
Protocol Length Info
1088 1475.923049000 Cisco_3a:f6:0f
LOOP 60 Reply
                                                    Destination
                                                    Cisco_3a:f6:0f
Frame 1088: 60 bytes on wire (480 bits), 60 bytes captured (480
bits) on interface 0
Ethernet II, Src: Cisco_3a:f6:0f (fc:fb:fb:3a:f6:0f), Dst: Cisco_3a:f6:0f (fc:fb:fb:3a:f6:0f)
Destination: Cisco_3a:f6:0f (fc:fb:fb:3a:f6:0f)
Address: Cisco_3a:f6:0f (fc:fb:fb:3a:f6:0f)
```

```
....0. .... = LG bit: Globally unique address (factory default)
             address (factory default)
                            .... = IG bit: Individual address (unicast)
Type: Loopback (0x9000)
Configuration Test Protocol (loopback)
Data (40 bytes)
0010 \\ \hline{)} \\ \\ \hline{)} \\ \\ \hline{)} \\ \\ \hline{)} \\ \hline{)} \\ \hline{)} \\ \hline{)} \\ \hline{)} \\ \hline{)} \\ \\ \hline{)} \\ \hline{)} \\ \hline{)} \\ \hline{]} \\
0020 00 00 00 00 00 00 00
          Time Source
Protocol Length Info
1094 1485.930440000 Cisco_3a:f6:0f
60 Reply
                                                                                                                                                         Destination
                                                                                                                                                         Cisco_3a:f6:0f
Frame 1094: 60 bytes on wire (480 bits), 60 bytes captured (480
bits) on interface 0
Ethernet II, Src: Cisco_3a:f6:0f (fc:fb:fb:3a:f6:0f), Dst: Cisco_3a:f6:0f (fc:fb:fb:3a:f6:0f)
             Destination: Cisco_3a:f6:0f (fc:fb:fb:3a:f6:0f)
Address: Cisco_3a:f6:0f (fc:fb:fb:3a:f6:0f)
.... .0. .... = LG bit: Globally unique
                                       address (factory default)
                                     . . . . 0 . . . . . . . . . . . = IG bit: Individual address (unicast)
              Source: Cisco_3a:f6:0f (fc:fb:fb:3a:f6:0f)
                           Address: Cisco_3a:f6:0f (fc:fb:fb:3a:f6:0f)
.... = LG bit: Globally unique
                                      address (factory default)
                                                                                              .... = IG bit: Individual address
                            .... (unicast)
              Type: Loopback (0x9000)
Configuration Test Protocol (loopback) Data (40 bytes)
0020 00 00 00 00 00 00 00
          Time Source
Protocol Length Info
1099 1495.929483000 Cisco_3a:f6:0f
LOOP 60 Reply
                                                                                                                                                         Destination
                                                                                                                                                         Cisco_3a:f6:0f
Frame 1099: 60 bytes on wire (480 bits), 60 bytes captured (480
bits) on interface 0
Ethernet II, Src: Cisco_3a:f6:0f (fc:fb:fb:3a:f6:0f), Dst: Cisco_3a:f6:0f (fc:fb:fb:3a:f6:0f)
             Destination: Cisco_3a:f6:0f (fc:fb:fb:3a:f6:0f)
   Address: Cisco_3a:f6:0f (fc:fb:fb:3a:f6:0f)
   .... .0. .... = LG bit: Globally unique
   address (factory default)
                                     . ...0 .... = IG bit: Individual address (unicast)
              address (factory default)
                            .... = IG bit: Individual address (unicast)
Type: Loopback (0x9000)
Configuration Test Protocol (loopback)
Data (40 bytes)
```

```
0020 00 00 00 00 00 00 00 00
No. Time Source
Protocol Length Info
1105_1505.324475000_Cisco_3a:f6:0f
                                                            Destination
                                                            CDP/VTP/DTP/PAgP/UDLD
                   60
                             Dynamic Trunking Protocol
Frame 1105: 60 bytes on wire (480 bits), 60 bytes captured (480
bits) on interface 0
IEEE 802.3 Ethernet
Logical-Link Control
Dynamic Trunking Protocol
    Time Source
Protocol Length Info
1106 1505.324532000 Cisco_3a:f6:0f CDM
                                                            Destination
                                                            CDP/VTP/DTP/PAgP/UDLD
Frame 1106: 90 bytes on wire (720 bits), 90 bytes captured (720
   bits) on interface 0
ISL
IEEE 802.3 Ethernet
Logical-Link Control
Dynamic Trunking Protocol
    Time Source
Protocol Length Info
1107 1505.936795000 Cisco_3a:f6:0f
LOOP 60 Reply
                                                            Destination
                                                            Cisco_3a:f6:0f
Frame 1107: 60 bytes on wire (480 bits), 60 bytes captured (480 bits) on interface 0
Ethernet II, Src: Cisco_3a:f6:0f (fc:fb:fb:3a:f6:0f), Dst: Cisco_3a:f6:0f (fc:fb:fb:3a:f6:0f)
     Destination: Cisco_3a:f6:Of (fc:fb:fb:3a:f6:Of)
   Address: Cisco_3a:f6:Of (fc:fb:fb:3a:f6:Of)
   ... .0. ... = LG bit: Globally unique
   address (factory default)
   ... .0 ... = LG bit: Individual address
                 ...0 .... = IG bit: Individual address
              (unicast)
     Source: Cisco_3a:f6:0f (fc:fb:fb:3a:f6:0f)
Address: Cisco_3a:f6:0f (fc:fb:fb:3a:f6:0f)
.... = LG bit: Globally unique
               address (factory default)
                                     .... = IG bit: Individual address
           .... (unicast)
Type: Loopback (0x9000)
Configuration Test Protocol (loopback)
Data (40 bytes)
0020 00 00 00 00 00 00 00
    Time
Protocol Length Info
                              Source
                                                            Destination
    1113 1515.348950000 Cisco_3a:f6:Of CDP/VTP/DTP/PAgP/UDLD CDP 454 Device ID: tux-sw5 Port ID: FastEthernet0/13
Frame 1113: 454 bytes on wire (3632 bits), 454 bytes captured (3632
bits) on interface 0 IEEE 802.3 Ethernet Logical-Link Control
Cisco Discovery Protocol
    Time Source
Protocol Length Info
1114 1515.944299000 Cisco_3a:f6:0f
LOOP 60 Reply
                                                            Destination
                                                            Cisco_3a:f6:0f
```

```
Frame 1114: 60 bytes on wire (480 bits), 60 bytes captured (480
    bits) on interface 0
    Ethernet
              . ..0. .... .... .... address (factory default)
             . . . . 0 . . . . . . . . . . . . = IG bit: Individual address (unicast)
    Source: Cisco_3a:f6:0f (fc:fb:fb:3a:f6:0f)
    Address: Cisco_3a:f6:0f (fc:fb:fb:3a:f6:0f)
    .... .0. .... ... ... = LG bit: Globally unique
             address (factory default)
              . ...0 .... = IG bit: Individual address (unicast)
Type: Loopback (0x9000)
Configuration Test Protocol (loopback)
Data (40 bytes)
0020 00 00 00 00 00 00 00 00
   Time Source
Protocol Length Info
1120 1525.951561000 Cisco_3a:f6:0f
LOOP 60 Reply
                                                       Destination
                                                       Cisco_3a:f6:0f
Frame 1120: 60 bytes on wire (480 bits), 60 bytes captured (480
address (factory default)
    address (lactory default)
.....0 .... = IG bit: Individual address (unicast)
Source: Cisco_3a:f6:0f (fc:fb:fb:3a:f6:0f)
Address: Cisco_3a:f6:0f (fc:fb:fb:3a:f6:0f)
.....0 .... = LG bit: Globally unique address (factory default)

= IG bit: Individual address
             . ...0 .... = IG bit: Individual address (unicast)
Type: Loopback (0x9000)
Configuration Test Protocol (loopback)
Data (40 bytes)
0020 00 00 00 00 00 00 00
   Time Source
Protocol Length Info
1126 1535.329966000 Cisco_3a:f6:0f CDM
DTP 60 Dynamic Trunking Protocol
                                                       Destination
                                                       CDP/VTP/DTP/PAgP/UDLD
Frame 1126: 60 bytes on wire (480 bits), 60 bytes captured (480 bits) on interface 0
IEEE 802.3 Ethernet
Logical-Link Control
Dynamic Trunking Protocol
   Time Source
Protocol Length Info
1127 1535.330036000 Cisco_3a:f6:0f CDI
TTP 90 Dynamic Trunking Protocol
                                                       Destination
                                                      CDP/VTP/DTP/PAgP/UDLD
Frame 1127: 90 bytes on wire (720 bits), 90 bytes captured (720 bits) on interface 0 ^{\circ}
```

```
IEEE 802.3 Ethernet
Logical-Link Control
Dynamic Trunking Protocol
   Time Source
Protocol Length Info
1128 1535.950630000 Cisco_3a:f6:0f
LOOP 60 Reply
                                                      Destination
                                                      Cisco_3a:f6:0f
Frame 1128: 60 bytes on wire (480 bits), 60 bytes captured (480 bits) on interface 0

Ethernet II, Src: Cisco_3a:f6:0f (fc:fb:fb:3a:f6:0f), Dst: Cisco_3a:f6:0f (fc:fb:fb:3a:f6:0f)
    Destination: Cisco_3a:f6:0f)

Address: Cisco_3a:f6:0f (fc:fb:fb:3a:f6:0f)

Address: Cisco_3a:f6:0f (fc:fb:fb:3a:f6:0f)

.....0..... = LG bit: Globally unique

address (factory default)

.....0 .... = IG bit: Individual address

(unicast)
     .... = LG bit: Globally unique
             address (factory default)
          .... = IG bit: Individual address (unicast)
Type: Loopback (0x9000)
Configuration Test Protocol (loopback)
Data (40 bytes)
0020 00 00 00 00 00 00 00
   Time
Protocol Length Info
1134 1545.957939000 Cisco_3a:f6:0f
T.OOP 60 Reply
                                                      Destination
                                                      Cisco_3a:f6:0f
Frame 1134: 60 bytes on wire (480 bits), 60 bytes captured (480
.. ..0. .... .... default)
          .... = IG bit: Individual address (unicast)
    Source: Cisco_3a:f6:0f (fc:fb:fb:3a:f6:0f)
Address: Cisco_3a:f6:0f (fc:fb:fb:3a:f6:0f)
.....0..... = LG bit: Globally unique
address (factory default)
             ....0 .... = IG bit: Individual address (unicast)
Type: Loopback (0x9000)
Configuration Test Protocol (loopback)
Data (40 bytes)
0020 00 00 00 00 00 00 00 00
    Time Source
Protocol Length Info
1140 1555.965312000 Cisco_3a:f6:0f
LOOP 60 Reply
                                                      Destination
                                                      Cisco_3a:f6:0f
Frame 1140: 60 bytes on wire (480 bits), 60 bytes captured (480
bits) on interface 0
Ethernet II, Src: Cisco_3a:f6:0f (fc:fb:fb:3a:f6:0f), Dst: Cisco_3a:f6:0f (fc:fb:fb:3a:f6:0f)
     Destination: Cisco_3a:f6:0f (fc:fb:fb:3a:f6:0f)
```

```
Address: Cisco_3a:f6:0f (fc:fb:fb:3a:f6:0f)
... .0. ... ... = LG bit: Globally unique
address (factory default)
                ....0 .... = IG bit: Individual address (unicast)
      Source: Cisco_3a:f6:0f (fc:fb:fb:3a:f6:0f)
Address: Cisco_3a:f6:0f (fc:fb:fb:3a:f6:0f)
.....0..... = LG bit: Globally unique
address (factory default)
             (unicast)
                                                  .... = IG bit: Individual address
      Type: Loopback (0x9000)
Configuration Test Protocol (loopback)
Data (40 bytes)
0020 00 00 00 00 00 00 00 00
    Time Source
Protocol Length Info
1146 1565.335208000 Cisco_3a:f6:0f CDF
DTP 60 Dynamic Trunking Protocol
                                                                       Destination
                                                                     CDP/VTP/DTP/PAgP/UDLD
Frame 1146: 60 bytes on wire (480 bits), 60 bytes captured (480
bits) on interface 0
IEEE 802.3 Ethernet
Logical-Link Control
Dynamic Trunking Protocol
    Time Source Des
Protocol Length Info
1147 1565.335273000 Cisco_3a:f6:0f CDF
DTP 90 Dynamic Trunking Protocol
                                                                       Destination
                                                                      CDP/VTP/DTP/PAgP/UDLD
Frame 1147: 90 bytes on wire (720 bits), 90 bytes captured (720
    bits) on interface 0
ISL
IEEE 802.3 Ethernet
Logical-Link Control
Dynamic Trunking Protocol
     Time Source
Protocol Length Info
1148 1565.977958000 Cisco_3a:f6:0f
LOOP 60 Reply
                                                                       Destination
                                                                      Cisco_3a:f6:0f
Frame 1148: 60 bytes on wire (480 bits), 60 bytes captured (480 bits) on interface 0

Ethernet II, Src: Cisco_3a:f6:0f (fc:fb:fb:3a:f6:0f), Dst: Cisco_3a:f6:0f (fc:fb:fb:3a:f6:0f)

Destination: Cisco_3a:f6:0f (fc:fb:fb:3a:f6:0f)

Address: Cisco_3a:f6:0f (fc:fb:fb:3a:f6:0f)

.....0..... = LG bit: Globally unique address (factory default)

.....0 .... = IG bit: Individual address
      address (lactory default)
.....0 .... = IG bit: Individual address (unicast)
Source: Cisco_3a:f6:0f (fc:fb:fb:3a:f6:0f)
Address: Cisco_3a:f6:0f (fc:fb:fb:3a:f6:0f)
.....0 .... = LG bit: Globally unique address (factory default)
             .... = IG bit: Individual address (unicast)
Type: Loopback (0x9000)
Configuration Test Protocol (loopback)
Data (40 bytes)
0020 00 00 00 00 00 00 00
           Time
                                    Source
                                                                      Destination
    Protocol Length Info
```

```
CDP/VTP/DTP/PAgP/UDLD
   1154 1575.356489000 Cisco_3a:f6:0f
                        Device ID: tux-sw5 Port ID: FastEthernet0/13
                454
Frame 1154: 454 bytes on wire (3632 bits), 454 bytes captured (3632
bits) on interface 0
IEEE 802.3 Ethernet
Logical-Link Control
Cisco Discovery Protocol
   Time
Protocol Length Info
1155 1575.971696000 Cisco_3a:f6:0f
I.OOP 60 Reply
                                                  Destination
                                                  Cisco_3a:f6:0f
Frame 1155: 60 bytes on wire (480 bits), 60 bytes captured (480
address (factory default)
         .... = IG bit: Individual address (unicast)
    Source: Cisco_3a:f6:0f (fc:fb:fb:3a:f6:0f)
Address: Cisco_3a:f6:0f (fc:fb:fb:3a:f6:0f)
.... .0. .... ... ... = LG bit: Globally unique
            address (factory default)
         .... = IG bit: Individual address (unicast)
    Type: Loopback (0x9000)
Configuration Test Protocol (loopback) Data (40 bytes)
0020 00 00 00 00 00 00 00
   Time
Protocol Length Info
1161 1585.979079000 Cisco_3a:f6:0f
60 Reply
                                                  Destination
                                                  Cisco_3a:f6:0f
Frame 1161: 60 bytes on wire (480 bits), 60 bytes captured (480 bits) on interface 0
Ethernet II, Src: Cisco_3a:f6:0f (fc:fb:fb:3a:f6:0f), Dst: Cisco_3a
   :f6:0f (fc:fb:fb:3a:f6:0f)
Destination: Cisco_3a:f6:0f (fc:fb:fb:3a:f6:0f)
Address: Cisco_3a:f6:0f (fc:fb:fb:3a:f6:0f)
.... = LG bit: Globally unique
           address (factory default)
            . ...0 .... = IG bit: Individual address (unicast)
    Source: Cisco_3a:f6:0f (fc:fb:fb:3a:f6:0f)
Address: Cisco_3a:f6:0f (fc:fb:fb:3a:f6:0f)
.... .0. ... ... ... = LG bit: Globally unique
            address (factory default)
         .... (unicast)
                               .... = IG bit: Individual address
    Type: Loopback (0x9000)
Configuration Test Protocol (loopback)
Data (40 bytes)
0020 00 00 00 00 00 00 00
   Time Source
Protocol Length Info
1166 1595.340855000 Cisco_3a:f6:0f CDF
TO 60 Dynamic Trunking Protocol
                                                  Destination
                                                  CDP/VTP/DTP/PAgP/UDLD
```

```
Frame 1166: 60 bytes on wire (480 bits), 60 bytes captured (480
bits) on interface 0
IEEE 802.3 Ethernet
Logical-Link Control
Dynamic Trunking Protocol
   Time Source
Protocol Length Info
1167 1595.340910000 Cisco_3a:f6:0f CDM
TOP 90 Dynamic Trunking Protocol
                                                           Destination
                                                           CDP/VTP/DTP/PAgP/UDLD
Frame 1167: 90 bytes on wire (720 bits), 90 bytes captured (720
   bits) on interface 0
ISL
IEEE 802.3 Ethernet
Logical-Link Control
Dynamic Trunking Protocol
    Time Source
Protocol Length Info
1169 1595.986483000 Cisco_3a:f6:0f
LOOP 60 Reply
                                                           Destination
                                                           Cisco_3a:f6:0f
Frame 1169: 60 bytes on wire (480 bits), 60 bytes captured (480 bits) on interface 0
Ethernet II, Src: Cisco_3a:f6:0f (fc:fb:fb:3a:f6:0f), Dst: Cisco_3a
    :f6:0f (fc:fb:fb:3a:f6:0f)
     Destination: Cisco_3a:f6:0f (fc:fb:fb:3a:f6:0f)
Address: Cisco_3a:f6:0f (fc:fb:fb:3a:f6:0f)
... .0. ... = LG bit: Globally unique
             address (factory default)
....0 .... = IG bit: Individual address (unicast)
     Source: Cisco_3a:f6:0f (fc:fb:fb:3a:f6:0f)
    Address: Cisco_3a:f6:0f (fc:fb:fb:3a:f6:0f)
    .... .0. .... ... ... = LG bit: Globally unique
              address (factory default)
                                    .... = IG bit: Individual address
          .... (unicast)
Type: Loopback (0x9000)
Configuration Test Protocol (loopback)
Data (40 bytes)
0020 00 00 00 00 00 00 00
    Time Source
Protocol Length Info
1175 1605.993893000 Cisco_3a:f6:0f
LOOP 60 Reply
                                                           Destination
                                                           Cisco_3a:f6:0f
Frame 1175: 60 bytes on wire (480 bits), 60 bytes captured (480
bits) on interface 0
Ethernet II, Src: Cisco_3a:f6:0f (fc:fb:fb:3a:f6:0f), Dst: Cisco_3a:f6:0f (fc:fb:fb:3a:f6:0f)
     .. ..0. .... .... default)
          .... = IG bit: Individual address (unicast)
     Source: Cisco_3a:f6:0f (fc:fb:fb:3a:f6:0f)
Address: Cisco_3a:f6:0f (fc:fb:fb:3a:f6:0f)
.... .0. .... = LG bit: Globally unique
              address (factory default)
               . ...0 .... = IG bit: Individual address (unicast)
Type: Loopback (0x9000)
Configuration Test Protocol (loopback)
Data (40 bytes)
```

```
0020 00 00 00 00 00 00 00 00
   Time Source
Protocol Length Info
1181 1615.993174000 Cisco_3a:f6:0f
LOOP 60 Reply
                                                 Destination
                                                 Cisco_3a:f6:0f
Frame 1181: 60 bytes on wire (480 bits), 60 bytes captured (480
. ..O. .... : LG bit: Globally unique address (factory default)
           ....0 .... = IG bit: Individual address (unicast)
    Source: Cisco_3a:f6:0f (fc:fb:fb:3a:f6:0f)
Address: Cisco_3a:f6:0f (fc:fb:fb:3a:f6:0f)
.... .0. .... = LG bit: Globally unique
           address (factory default)
         (unicast)
                                   .... = IG bit: Individual address
Type: Loopback (0x9000)
Configuration Test Protocol (loopback)
Data (40 bytes)
0020 00 00 00 00 00 00 00
   Time
Protocol Length Info
                                                 Destination
   1186 1625.345971000 Cisco_3a:f6:0f
                                                CDP/VTP/DTP/PAgP/UDLD
                       Dynamic Trunking Protocol
                60
Frame 1186: 60 bytes on wire (480 bits), 60 bytes captured (480
bits) on interface 0
IEEE 802.3 Ethernet
Logical-Link Control
Dynamic Trunking Protocol
   Time Protocol Length Info
                                                 Destination
                        Source
   1187 1625.346031000 Cisco_3a:f6:0f CDF DTP 90 Dynamic Trunking Protocol
                                                 CDP/VTP/DTP/PAgP/UDLD
Frame 1187: 90 bytes on wire (720 bits), 90 bytes captured (720
   bits) on interface 0
ISL
IEEE 802.3 Ethernet
Logical-Link Control
Dynamic Trunking Protocol
   Time Source
Protocol Length Info
1189 1626.004875000 Cisco_3a:f6:0f
LOOP 60 Reply
                                                 Destination
                                                Cisco_3a:f6:0f
Frame 1189: 60 bytes on wire (480 bits), 60 bytes captured (480
   bits) on interface 0
Ethernet II, Src: Cisco_3a:f6:0f (fc:fb:fb:3a:f6:0f), Dst: Cisco_3a:f6:0f (fc:fb:fb:3a:f6:0f)
    address (factory default)
.... 0 .... = IG bit: Individual address (unicast)
    Source: Cisco_3a:f6:0f (fc:fb:fb:3a:f6:0f)
Address: Cisco_3a:f6:0f (fc:fb:fb:3a:f6:0f)
```

```
. ..0. .... = LG bit: Globally unique address (factory default)
                 . . 0
                                     .... = IG bit: Individual address
         (unicast)
Type: Loopback (0x9000)
Configuration Test Protocol (loopback)
Data (40 bytes)
0020 00 00 00 00 00 00 00
         Time
                                                    Destination
                          Source
   Protocol Length Info
1194 1635.353736000 Cisco_3a:f6:Of CDP/VTP/DTP/PAgP/UDLD
CDP 454 Device ID: tux-sw5 Port ID: FastEthernet0/13
Frame 1194: 454 bytes on wire (3632 bits), 454 bytes captured (3632
bits) on interface 0 IEEE 802.3 Ethernet Logical-Link Control
Cisco Discovery Protocol
   Time Source
Protocol Length Info
1195 1635.999202000 Cisco_3a:f6:0f
LOOP 60 Reply
                                                    Destination
                                                    Cisco_3a:f6:0f
Frame 1195: 60 bytes on wire (480 bits), 60 bytes captured (480
address (factory default)
         .... o .... = IG bit: Individual address (unicast)
    Source: Cisco_3a:f6:0f (fc:fb:fb:3a:f6:0f)
Address: Cisco_3a:f6:0f (fc:fb:fb:3a:f6:0f)
.....0..... = LG bit: Globally unique
address (factory default)
         .... (unicast)
                                .... = IG bit: Individual address
Type: Loopback (0x9000)
Configuration Test Protocol (loopback)
Data (40 bytes)
0020 00 00 00 00 00 00 00 00
   Time Protocol Length Info
1201 1646.006588000 Cisco_3a:f6:0f
60 Reply
                                                    Destination
                                                    Cisco_3a:f6:0f
Frame 1201: 60 bytes on wire (480 bits), 60 bytes captured (480
bits) on interface 0
Ethernet II, Src: Cisco_3a:f6:0f (fc:fb:fb:3a:f6:0f), Dst: Cisco_3a:f6:0f (fc:fb:fb:3a:f6:0f)
    Destination: Cisco_3a:f6:0f (fc:fb:fb:3a:f6:0f)
Address: Cisco_3a:f6:0f (fc:fb:fb:3a:f6:0f)
.... .0. .... ... = LG bit: Globally unique
            address (factory default)
                          .... : .... = IG bit: Individual address
            (unicast)
    Source: Cisco_3a:f6:0f (fc:fb:fb:3a:f6:0f)
Address: Cisco_3a:f6:0f (fc:fb:fb:3a:f6:0f)
.... ..0. .... .... = LG bit: Globally unique
           address (factory default)
```

```
.... ...0 .... (unicast)
                             .... .... = IG bit: Individual address
Type: Loopback (0x9000)
Configuration Test Protocol (loopback)
Data (40 bytes)
0020 00 00 00 00 00 00 00 00
    Time Source
Protocol Length Info
1207 1655.365340000 Cisco_3a:f6:0f CDI
                                                            Destination
                                                            CDP/VTP/DTP/PAgP/UDLD
Frame 1207: 60 bytes on wire (480 bits), 60 bytes captured (480 bits) on interface 0
IEEE 802.3 Ethernet
Logical-Link Control
Dynamic Trunking Protocol
   Time Source
Protocol Length Info
1208 1655.365399000 Cisco_3a:f6:0f CDI
TTD 90 Dynamic Trunking Protocol
                                                            Destination
                                                            CDP/VTP/DTP/PAgP/UDLD
Frame 1208: 90 bytes on wire (720 bits), 90 bytes captured (720
bits) on interface 0 _{\rm ISL}
ISL
IEEE 802.3 Ethernet
Logical-Link Control
Dynamic Trunking Protocol
    Time Source
Protocol Length Info
1209 1656.014010000 Cisco_3a:f6:0f
LOOP 60 Reply
                                                            Destination
                                                            Cisco_3a:f6:0f
Frame 1209: 60 bytes on wire (480 bits), 60 bytes captured (480
bits) on interface 0
Ethernet II, Src: Cisco_3a:f6
:f6:0f (fc:fb:fb:3a:f6:0f)
                Src: Cisco_3a:f6:0f (fc:fb:fb:3a:f6:0f), Dst: Cisco_3a
     Destination: Cisco_3a:f6:0f (fc:fb:fb:3a:f6:0f)
Address: Cisco_3a:f6:0f (fc:fb:fb:3a:f6:0f)
.... = LG bit: Globally unique
              address (factory default)
              ....0 .... = IG bit: Individual address (unicast)
     Source: Cisco_3a:f6:0f (fc:fb:fb:3a:f6:0f)
Address: Cisco_3a:f6:0f (fc:fb:fb:3a:f6:0f)
.... = LG bit: Globally unique
              address (factory default)
            ... ...0 .... = IG bit: Individual address (unicast)
Type: Loopback (0x9000)
Configuration Test Protocol (loopback)
Data (40 bytes)
0020 00 00 00 00 00 00 00
                                                                           . . . . . . . .
    Time Source
Protocol Length Info
1215 1666.026531000 Cisco_3a:f6:0f
LOOP 60 Reply
                                                            Destination
                                                            Cisco_3a:f6:0f
Frame 1215: 60 bytes on wire (480 bits), 60 bytes captured (480
bits) on interface 0
Ethernet II, Src: Cisco_3a:f6:0f (fc:fb:fb:3a:f6:0f), Dst: Cisco_3a:f6:0f (fc:fb:fb:3a:f6:0f)
Destination: Cisco_3a:f6:0f (fc:fb:fb:3a:f6:0f)
Address: Cisco_3a:f6:0f (fc:fb:fb:3a:f6:0f)
```

```
....0. .... = LG bit: Globally unique address (factory default)
               .... 0 .... = IG bit: Individual address (unicast)

Source: Cisco_3a:f6:0f (fc:fb:fb:3a:f6:0f)
Address: Cisco_3a:f6:0f (fc:fb:fb:3a:f6:0f)
.... 0 .... EG bit: Globally unique address (factory default)
                                 .... = IG bit: Individual address (unicast)
Type: Loopback (0x9000)
Configuration Test Protocol (loopback)
Data (40 bytes)
0010 \\ \hline{)} \\ \\ \hline{)} \\ \\ \hline{)} \\ \\ \hline{)} \\ \hline{)} \\ \hline{)} \\ \hline{)} \\ \hline{)} \\ \hline{)} \\ \\ \hline{)} \\ \hline{)} \\ \hline{)} \\ \hline{]} \\
0020 00 00 00 00 00 00 00
           Time
Protocol Length Info
1221 1676.020413000 Cisco_3a:f6:0f
I.OOP 60 Reply
                                                                                                                                                                                  Destination
                                                                                                                                                                                  Cisco_3a:f6:0f
Frame 1221: 60 bytes on wire (480 bits), 60 bytes captured (480
bits) on interface 0
Ethernet II, Src: Cisco_3a:f6:0f (fc:fb:fb:3a:f6:0f), Dst: Cisco_3a:f6:0f (fc:fb:fb:3a:f6:0f)
                Destination: Cisco_3a:f6:0f (fc:fb:fb:3a:f6:0f)
Address: Cisco_3a:f6:0f (fc:fb:fb:3a:f6:0f)
.... .0. .... = LG bit: Globally unique
                                             address (factory default)
                                           . . . . 0 . . . . . . . . . . . = IG bit: Individual address (unicast)
               Source: Cisco_3a:f6:0f (fc:fb:fb:3a:f6:0f)
Address: Cisco_3a:f6:0f (fc:fb:fb:3a:f6:0f)
.... = LG bit: Globally unique
                                           address (factory default)
                                                                                                              .... = IG bit: Individual address
                                 .... (unicast)
                Type: Loopback (0x9000)
Configuration Test Protocol (loopback) Data (40 bytes)
0020 00 00 00 00 00 00 00
            Time
Protocol Length Info
                                                                                                                                                                                  Destination
                                                                                           Source
            1227 1685.365147000 Cisco_3a:f6:0f CDM
DTP 60 Dynamic Trunking Protocol
                                                                                                                                                                                  CDP/VTP/DTP/PAgP/UDLD
Frame 1227: 60 bytes on wire (480 bits), 60 bytes captured (480 bits) on interface 0
IEEE 802.3 Ethernet
Logical-Link Control
Dynamic Trunking Protocol
            Time
Protocol Length Info
1228 1685.365239000 Cisco_3a:f6:0f CDI
DTP 90 Dynamic Trunking Protocol
(720 bits), 90 byte
                                                                                                                                                                                  Destination
                                                                                                                                                                                  CDP/VTP/DTP/PAgP/UDLD
Frame 1228: 90 bytes on wire (720 bits), 90 bytes captured (720
         bits) on interface 0
ISL
IEEE 802.3 Ethernet
Logical-Link Control
Dynamic Trunking Protocol
No. Time Source Protocol Length Info
                                                                                                                                                                                  Destination
```

```
1229 1686.027778000 Cisco_3a:f6:0f LOOP 60 Reply
                                            Cisco_3a:f6:0f
Frame 1229: 60 bytes on wire (480 bits), 60 bytes captured (480
....0 .... = IG bit: Individual address (unicast)
    Source: Cisco_3a:f6:0f (fc:fb:fb:3a:f6:0f)
Address: Cisco_3a:f6:0f (fc:fb:fb:3a:f6:0f)
.... .0. .... = LG bit: Globally unique
address (factory default)
Type: Loopback (0x9000)
Configuration Test Protocol (loopback)
Data (40 bytes)
0020 00 00 00 00 00 00 00 00
   Time Source
Protocol Length Info
1235 1695.355971000 Cisco_3a:f6:0f
                                                  Destination
                                                 CDP/VTP/DTP/PAgP/UDLD
                454
                        Device ID: tux-sw5 Port ID: FastEthernet0/13
Frame 1235: 454 bytes on wire (3632 bits), 454 bytes captured (3632
bits) on interface 0
IEEE 802.3 Ethernet
Logical-Link Control
Cisco Discovery Protocol
   Time Source
Protocol Length Info
1236 1696.035120000 Cisco_3a:f6:0f
LOOP 60 Reply
                                                  Destination
                                                  Cisco_3a:f6:0f
address (factory default)
    address (lactory default)
.... 0 .... .... = IG bit: Individual address (unicast)
Source: Cisco_3a:f6:0f (fc:fb:fb:3a:f6:0f)
Address: Cisco_3a:f6:0f (fc:fb:fb:3a:f6:0f)
.... 0 .... = LG bit: Globally unique address (factory default)
                                    .... = IG bit: Individual address
         .... = IG bit: Individual address (unicast)
Type: Loopback (0x9000)
Configuration Test Protocol (loopback)
Data (40 bytes)
0020 00 00 00 00 00 00 00
   Time Source
Protocol Length Info
1242 1704.253543000 172.16.1.44 172.16.1.1
DNS 87 Standard query 0xdd04 PTR 192.41.194.173.in-
```

```
Frame 1242: 87 bytes on wire (696 bits), 87 bytes captured (696
     bits) on interface 0
= LG bit: Globally unique
                address (factory default)
            .... = IG bit: Individual address (unicast)
     Source: Hewlett-_c7:64:8e (00:21:5a:c7:64:8e)
    Address: Hewlett-_c7:64:8e (00:21:5a:c7:64:8e)
    ....    ....    ....    ....    = LG bit: Globally unique
                address (factory default)
                                        .... = IG bit: Individual address
            .... (unicast)
                   ...0 .
Type: IP (0x0800)
Internet Protocol Version 4, Src: 172.16.1.44 (172.16.1.44), Dst: 172.16.1.1 (172.16.1.1)
User Datagram Protocol, Src Port: 56646 (56646), Dst Port: domain
     (53)
Domain Name System (query)
    Time Source
Protocol Length Info
1243 1704.253806000 172.16.1.1 172.16.1.44
DNS 271 Standard query response 0xdd04 PTR lis01s05-
Frame 1243: 271 bytes on wild (2005)
bits) on interface 0
Ethernet II, Src: AsustekC_80:01:fb (00:17:31:80:01:fb), Dst:
    Hewlett-_c7:64:8e (00:21:5a:c7:64:8e)
    Destination: Hewlett-_c7:64:8e (00:21:5a:c7:64:8e)
    Address: Hewlett-_c7:64:8e (00:21:5a:c7:64:8e)
    .... = LG bit: Globally unique
Frame 1243: 271 bytes on wire (2168 bits), 271 bytes captured (2168
               address (factory default)
     address (lactory default)
.... 0 .... ... = IG bit: Individual address (unicast)
Source: AsustekC_80:01:fb (00:17:31:80:01:fb)
Address: AsustekC_80:01:fb (00:17:31:80:01:fb)
.... 0 ... ... = LG bit: Globally unique address (factory default)
                                                .... = IG bit: Individual address
            .... 0 .... uerauit)
.... = IG bit: Individual address
(unicast)
Type: IP (0x0800)
Internet Protocol Version 4, Src: 172.16.1.1 (172.16.1.1), Dst: 172.16.1.44 (172.16.1.44)
User Datagram Protocol, Src Port: domain (53), Dst Port: 56646 (56646)
Domain Name System (response)
    Time Source
Protocol Length Info
1245 1706.042491000 Cisco_3a:f6:0f
LOOP 60 Reply
                                                                 Destination
                                                                 Cisco_3a:f6:0f
Frame 1245: 60 bytes on wire (480 bits), 60 bytes captured (480
...0 .
                                               .... = IG bit: Individual address
      address (factory default)
```

```
.... .... = IG bit: Individual address
           .... ...0 .... (unicast)
Type: Loopback (0x9000)
Configuration Test Protocol (loopback)
Data (40 bytes)
0020 00 00 00 00 00 00 00 00
    Time Source
Protocol Length Info
1250 1715.370462000 Cisco_3a:f6:0f CDM
TD 60 Dynamic Trunking Protocol
                                                             Destination
                                                            CDP/VTP/DTP/PAgP/UDLD
Frame 1250: 60 bytes on wire (480 bits), 60 bytes captured (480 bits) on interface 0
IEEE 802.3 Ethernet
Logical-Link Control
Dynamic Trunking Protocol
    Time Source
Protocol Length Info
1251 1715.370520000 Cisco_3a:f6:0f CDI
TTD 90 Dynamic Trunking Protocol
                                                             Destination
                                                             CDP/VTP/DTP/PAgP/UDLD
Frame 1251: 90 bytes on wire (720 bits), 90 bytes captured (720
bits) on interface 0 _{\rm ISL}
ISL
IEEE 802.3 Ethernet
Logical-Link Control
Dynamic Trunking Protocol
    Time Source
Protocol Length Info
1253 1716.041833000 Cisco_3a:f6:0f
LOOP 60 Reply
                                                             Destination
                                                             Cisco_3a:f6:0f
Frame 1253: 60 bytes on wire (480 bits), 60 bytes captured (480
bits) on interface 0
Ethernet II, Src: Cisco_3a:f6
:f6:0f (fc:fb:fb:3a:f6:0f)
                Src: Cisco_3a:f6:0f (fc:fb:fb:3a:f6:0f), Dst: Cisco_3a
     Destination: Cisco_3a:f6:0f (fc:fb:fb:3a:f6:0f)
Address: Cisco_3a:f6:0f (fc:fb:fb:3a:f6:0f)
.... = LG bit: Globally unique
               address (factory default)
              ....0 .... = IG bit: Individual address (unicast)
     Source: Cisco_3a:f6:0f (fc:fb:fb:3a:f6:0f)
Address: Cisco_3a:f6:0f (fc:fb:fb:3a:f6:0f)
.... = LG bit: Globally unique
              address (factory default)
            ... ...0 .... = IG bit: Individual address (unicast)
Type: Loopback (0x9000)
Configuration Test Protocol (loopback)
Data (40 bytes)
0020 00 00 00 00 00 00 00
                                                                            . . . . . . . .
    Time Source
Protocol Length Info
1259 1726.048840000 Cisco_3a:f6:0f
LOOP 60 Reply
                                                             Destination
                                                             Cisco_3a:f6:0f
Frame 1259: 60 bytes on wire (480 bits), 60 bytes captured (480
bits) on interface 0
Ethernet II, Src: Cisco_3a:f6:0f (fc:fb:fb:3a:f6:0f), Dst: Cisco_3a:f6:0f (fc:fb:fb:3a:f6:0f)
Destination: Cisco_3a:f6:0f (fc:fb:fb:3a:f6:0f)
Address: Cisco_3a:f6:0f (fc:fb:fb:3a:f6:0f)
```

```
....0. .... = LG bit: Globally unique address (factory default)
               .... 0 .... = IG bit: Individual address (unicast)

Source: Cisco_3a:f6:0f (fc:fb:fb:3a:f6:0f)
Address: Cisco_3a:f6:0f (fc:fb:fb:3a:f6:0f)
.... 0 .... EG bit: Globally unique address (factory default)
                                 .... = IG bit: Individual address (unicast)
Type: Loopback (0x9000)
Configuration Test Protocol (loopback)
Data (40 bytes)
0010 \\ \hline{)} \\ \\ \hline{)} \\ \\ \hline{)} \\ \\ \hline{)} \\ \hline{)} \\ \hline{)} \\ \hline{)} \\ \hline{)} \\ \hline{)} \\ \\ \hline{)} \\ \hline{)} \\ \hline{)} \\ \hline{]} \\
0020 00 00 00 00 00 00 00
            Time Source
Protocol Length Info
1265 1736.056331000 Cisco_3a:f6:0f
LOOP 60 Reply
                                                                                                                                                                                     Destination
                                                                                                                                                                                     Cisco_3a:f6:0f
Frame 1265: 60 bytes on wire (480 bits), 60 bytes captured (480
bits) on interface 0

Ethernet II, Src: Cisco_3a:f6:0f (fc:fb:fb:3a:f6:0f), Dst: Cisco_3a:f6:0f (fc:fb:fb:3a:f6:0f)
                Destination: Cisco_3a:f6:0f (fc:fb:fb:3a:f6:0f)
   Address: Cisco_3a:f6:0f (fc:fb:fb:3a:f6:0f)
   .... .0. .... = LG bit: Globally unique
   address (factory default)
                                 .... = IG bit: Individual address (unicast)
               Source: Cisco_3a:f6:0f (fc:fb:fb:3a:f6:0f)
Address: Cisco_3a:f6:0f (fc:fb:fb:3a:f6:0f)
.... = LG bit: Globally unique
                                            address (factory default)
                                                                                                                .... = IG bit: Individual address
                                 .... (unicast)
                Type: Loopback (0x9000)
Configuration Test Protocol (loopback) Data (40 bytes)
0020 00 00 00 00 00 00 00
            Time
Protocol Length Info
                                                                                                                                                                                     Destination
                                                                                            Source
            1270 1745.375846000 Cisco_3a:f6:Of CDM
DTP 60 Dynamic Trunking Protocol
                                                                                                                                                                                     CDP/VTP/DTP/PAgP/UDLD
Frame 1270: 60 bytes on wire (480 bits), 60 bytes captured (480 bits) on interface 0
IEEE 802.3 Ethernet
Logical-Link Control
Dynamic Trunking Protocol
            Time
Protocol Length Info
1271 1745.375906000 Cisco_3a:f6:0f CDF
DTP 90 Dynamic Trunking Protocol
(720 bits), 90 byte
                                                                                                                                                                                     Destination
                                                                                                                                                                                    CDP/VTP/DTP/PAgP/UDLD
Frame 1271: 90 bytes on wire (720 bits), 90 bytes captured (720
         bits) on interface 0
ISL
IEEE 802.3 Ethernet
Logical-Link Control
Dynamic Trunking Protocol
No. Time Source Protocol Length Info
                                                                                                                                                                                     Destination
```

```
1273 1746.063590000 Cisco_3a:f6:0f LOOP 60 Reply
                                            Cisco_3a:f6:0f
Frame 1273: 60 bytes on wire (480 bits), 60 bytes captured (480
....0 .... = IG bit: Individual address (unicast)
    Source: Cisco_3a:f6:0f (fc:fb:fb:3a:f6:0f)
Address: Cisco_3a:f6:0f (fc:fb:fb:3a:f6:0f)
.... .0. .... = LG bit: Globally unique
address (factory default)
Type: Loopback (0x9000)
Configuration Test Protocol (loopback)
Data (40 bytes)
0020 00 00 00 00 00 00 00 00
   Time Source
Protocol Length Info
1278 1755.358647000 Cisco_3a:f6:0f
                                                  Destination
                                                 CDP/VTP/DTP/PAgP/UDLD
                454
                        Device ID: tux-sw5 Port ID: FastEthernet0/13
Frame 1278: 454 bytes on wire (3632 bits), 454 bytes captured (3632
bits) on interface 0
IEEE 802.3 Ethernet
Logical-Link Control
Cisco Discovery Protocol
   Time Source
Protocol Length Info
1279 1756.062885000 Cisco_3a:f6:0f
LOOP 60 Reply
                                                  Destination
                                                  Cisco_3a:f6:0f
address (factory default)
    address (lactory default)
.... 0 .... .... = IG bit: Individual address (unicast)
Source: Cisco_3a:f6:0f (fc:fb:fb:3a:f6:0f)
Address: Cisco_3a:f6:0f (fc:fb:fb:3a:f6:0f)
.... 0 .... = LG bit: Globally unique address (factory default)
                                    .... = IG bit: Individual address
         .... = IG bit: Individual address (unicast)
Type: Loopback (0x9000)
Configuration Test Protocol (loopback)
Data (40 bytes)
0020 00 00 00 00 00 00 00
No. Time Source
Protocol Length Info
1285 1766.070003000 Cisco_3a:f6:0f
LOOP 60 Reply
                                                  Destination
                                                 Cisco_3a:f6:0f
```

```
Frame 1285: 60 bytes on wire (480 bits), 60 bytes captured (480
    bits) on interface 0
Ethernet II, Src: Cisco_3a:f6:0f (fc:fb:fb:3a:f6:0f), Dst: Cisco_3a:f6:0f (fc:fb:fb:3a:f6:0f), Dest: Cisco_3a:f6:0f (fc:fb:fb:3a:f6:0f)

Destination: Cisco_3a:f6:0f (fc:fb:fb:3a:f6:0f)

Address: Cisco_3a:f6:0f (fc:fb:fb:3a:f6:0f)

.... .0. .... = LG bit: Globally unique

address (factory default)

To bit: Individual address
               . . . . 0 . . . . . . . . . . . . = IG bit: Individual address (unicast)
     Source: Cisco_3a:f6:0f (fc:fb:fb:3a:f6:0f)
    Address: Cisco_3a:f6:0f (fc:fb:fb:3a:f6:0f)
    .... .0. .... ... ... = LG bit: Globally unique
               address (factory default)
               ....0 .... = IG bit: Individual address (unicast)
Type: Loopback (0x9000)
Configuration Test Protocol (loopback)
Data (40 bytes)
0020 00 00 00 00 00 00 00 00
    Time Source
Protocol Length Info
1291 1775.381185000 Cisco_3a:f6:0f
                                                                Destination
                                                                CDP/VTP/DTP/PAgP/UDLD
                              Dynamic Trunking Protocol
Frame 1291: 60 bytes on wire (480 bits), 60 bytes captured (480
bits) on interface 0
IEEE 802.3 Ethernet
Logical-Link Control
Dynamic Trunking Protocol
    Time Source
Protocol Length Info
1292 1775.381241000 Cisco_3a:f6:0f CDM
Dynamic Trunking Protocol
Dynamic Trunking Protocol
                                                                Destination
                                                                CDP/VTP/DTP/PAgP/UDLD
Frame 1292: 90 bytes on wire (720 bits), 90 bytes captured (720
    bits) on interface 0
ISL
IEEE 802.3 Ethernet
Logical-Link Control
Dynamic Trunking Protocol
    Time Source
Protocol Length Info
1293 1776.077445000 Cisco_3a:f6:0f
LOOP 60 Reply
                                                                Destination
                                                                Cisco_3a:f6:0f
Frame 1293: 60 bytes on wire (480 bits), 60 bytes captured (480 bits) on interface 0
Ethernet II, Src: Cisco_3a:f6:0f (fc:fb:fb:3a:f6:0f), Dst: Cisco_3a:f6:0f (fc:fb:fb:3a:f6:0f)
     Destination: Cisco_3a:f6:0f (fc:fb:fb:3a:f6:0f)
Address: Cisco_3a:f6:0f (fc:fb:fb:3a:f6:0f)
... .0. ... = LG bit: Globally unique
                address (factory default)
            .... = IG bit: Individual address (unicast)
     Source: Cisco_3a:f6:0f (fc:fb:fb:3a:f6:0f)
           Address: Cisco_3a:f6:Of (fc:fb:fb:3a:f6:Of)
.... = LG bit: Globally unique
               address (factory default)
            .... (unicast)
                                        .... = IG bit: Individual address
Type: Loopback (0x9000)
Configuration Test Protocol (loopback)
Data (40 bytes)
```

```
0020 00 00 00 00 00 00 00 00
   Time Source
Protocol Length Info
1299 1786.084766000 Cisco_3a:f6:0f
                                                        Destination
                                                        Cisco_3a:f6:0f
Frame 1299: 60 bytes on wire (480 bits), 60 bytes captured (480
. ..O. .... : LG bit: Globally unique address (factory default)
             ....0 .... = IG bit: Individual address (unicast)
    Source: Cisco_3a:f6:0f (fc:fb:fb:3a:f6:0f)
Address: Cisco_3a:f6:0f (fc:fb:fb:3a:f6:0f)
.... .0. .... = LG bit: Globally unique
             address (factory default)
          (unicast)
                                         .... = IG bit: Individual address
Type: Loopback (0x9000)
Configuration Test Protocol (loopback)
Data (40 bytes)
0020 00 00 00 00 00 00 00
    Time Source
Protocol Length Info
1305 1796.089086000 Cisco_3a:f6:0f
LOOP 60 Reply
                                                        Destination
                                                        Cisco_3a:f6:0f
Frame 1305: 60 bytes on wire (480 bits), 60 bytes captured (480
bits) on interface 0
Ethernet II, Src: Cisco_3a:f6:0f (fc:fb:fb:3a:f6:0f), Dst: Cisco_3a:f6:0f (fc:fb:fb:3a:f6:0f)
Destination: Cisco_3a:f6:0f (fc:fb:fb:3a:f6:0f)
Address: Cisco_3a:f6:0f (fc:fb:fb:3a:f6:0f)
...... = LG bit: Globally unique address (factory default)
..... = IG bit: Individual address
    .... 0 .... = IG bit: Individual address (unicast)

Source: Cisco_3a:f6:0f (fc:fb:fb:3a:f6:0f)
Address: Cisco_3a:f6:0f (fc:fb:fb:3a:f6:0f)
.... 0 .... = LG bit: Globally unique
address (factory default)
              address (factory default)
          .... = IG bit: Individual address (unicast)
Type: Loopback (0x9000)
Configuration Test Protocol (loopback)
Data (40 bytes)
0020 00 00 00 00 00 00 00 00
   Time
Protocol Length Info
1311 1805.386561000 Cisco_3a:f6:0f CDF
DTD 60 Dynamic Trunking Protocol
                                                        Destination
                                                        CDP/VTP/DTP/PAgP/UDLD
Frame 1311: 60 bytes on wire (480 bits), 60 bytes captured (480 bits) on interface 0
IEEE 802.3 Ethernet
Logical-Link Control
Dynamic Trunking Protocol
```

```
Time Source
Protocol Length Info
1312 1805.386633000 Cisco_3a:f6:0f CDM
TOP 90 Dynamic Trunking Protocol
                                                               Destination
                                                               CDP/VTP/DTP/PAgP/UDLD
Frame 1312: 90 bytes on wire (720 bits), 90 bytes captured (720
bits) on interface 0
ISE
IEEE 802.3 Ethernet
Logical-Link Control
Dynamic Trunking Protocol
    Time Source
Protocol Length Info
1313 1806.096343000 Cisco_3a:f6:0f
                                                               Destination
                                                               Cisco_3a:f6:0f
Frame 1313: 60 bytes on wire (480 bits), 60 bytes captured (480
....0 .... = IG bit: Individual address (unicast)
     Source: Cisco_3a:f6:0f (fc:fb:fb:3a:f6:0f)
Address: Cisco_3a:f6:0f (fc:fb:fb:3a:f6:0f)
.....0..... = LG bit: Globally unique
address (factory default)
           .... = IG bit: Individual address (unicast)
Type: Loopback (0x9000)
Configuration Test Protocol (loopback)
Data (40 bytes)
0020 00 00 00 00 00 00 00 00
                                                                               . . . . . . . . .
    Time Source
Protocol Length Info
1319 1815.360690000 Cisco_3a:f6:0f CDP/VTP/DTP/PAgr/עבערט 454 Device ID: tux-sw5 Port ID: FastEthernet0/13
Frame 1319: 454 bytes on wire (3632 bits), 454 bytes captured (3632
bits) on interface 0
IEEE 802.3 Ethernet
Logical-Link Control
Cisco Discovery Protocol
    Time Source
Protocol Length Info
1320 1816.109809000 Cisco_3a:f6:0f
LOOP 60 Reply
                                                               Destination
                                                               Cisco_3a:f6:0f
Frame 1320: 60 bytes on wire (480 bits), 60 bytes captured (480 bits) on interface 0
Ethernet II, Src: Cisco_3a:f6:0f (fc:fb:fb:3a:f6:0f), Dst: Cisco_3a
    :f6:0f (fc:fb:fb:3a:f6:0f)
     Destination: Cisco_3a:f6:0f (fc:fb:fb:3a:f6:0f)
   Address: Cisco_3a:f6:0f (fc:fb:fb:3a:f6:0f)
   ... .0. ... . ... = LG bit: Globally unique
   address (factory default)

= TC bit. Individual address
                  ...0 .... = IG bit: Individual address
               (unicast)
     Source: Cisco_3a:f6:0f (fc:fb:fb:3a:f6:0f)
Address: Cisco_3a:f6:0f (fc:fb:fb:3a:f6:0f)
.... = LG bit: Globally unique
                address (factory default)
           .... = IG bit: Individual address (unicast)
```

```
Type: Loopback (0x9000)
Configuration Test Protocol (loopback)
Data (40 bytes)
0020 00 00 00 00 00 00 00
   Time Source
Protocol Length Info
1326 1826.106403000 Cisco_3a:f6:0f
LOOP 60 Reply
                                              Destination
                                              Cisco_3a:f6:0f
Frame 1326: 60 bytes on wire (480 bits), 60 bytes captured (480
.... = IG bit: Individual address (unicast)
    Source: Cisco_3a:f6:0f (fc:fb:fb:3a:f6:0f)
Address: Cisco_3a:f6:0f (fc:fb:fb:3a:f6:0f)
.... .0. ... ... = LG bit: Globally unique
address (factory default)
        .... (unicast)
                                 .... = IG bit: Individual address
    Type: Loopback (0x9000)
Configuration Test Protocol (loopback)
Data (40 bytes)
0020 00 00 00 00 00 00 00 00
   Time Source
Protocol Length Info
1332 1835.391936000 Cisco_3a:f6:0f CDF
TO 60 Dynamic Trunking Protocol
                                              Destination
                                              CDP/VTP/DTP/PAgP/UDLD
Frame 1332: 60 bytes on wire (480 bits), 60 bytes captured (480
bits) on interface 0
IEEE 802.3 Ethernet
Logical-Link Control
Dynamic Trunking Protocol
   Time Source Des
Protocol Length Info
1333 1835.392035000 Cisco_3a:f6:0f CDF
DTP 90 Dynamic Trunking Protocol
                                              Destination
                                              CDP/VTP/DTP/PAgP/UDLD
Frame 1333: 90 bytes on wire (720 bits), 90 bytes captured (720
   bits) on interface 0
IEEE 802.3 Ethernet
Logical-Link Control
Dynamic Trunking Protocol
   Time Source
Protocol Length Info
1334 1836.113311000 Cisco_3a:f6:0f
LOOP 60 Reply
                                              Destination
                                              Cisco_3a:f6:0f
Frame 1334: 60 bytes on wire (480 bits), 60 bytes captured (480
address (factory default)
```

```
.....0 .... = IG bit: Individual address (unicast)

Source: Cisco_3a:f6:0f (fc:fb:fb:3a:f6:0f)
Address: Cisco_3a:f6:0f (fc:fb:fb:3a:f6:0f)
.....0 .... = LG bit: Globally unique
            address (factory default)
                                      .... = IG bit: Individual address
                ...0 .... ....
(unicast)
Type: Loopback (0x9000)
Configuration Test Protocol (loopback)
Data (40 bytes)
0020 00 00 00 00 00 00 00
   Time Source
Protocol Length Info
1340 1846.120662000 Cisco_3a:f6:0f
LOOP 60 Reply
                                                     Destination
                                                     Cisco_3a:f6:0f
Frame 1340: 60 bytes on wire (480 bits), 60 bytes captured (480 bits) on interface 0

Ethernet II, Src: Cisco_3a:f6:0f (fc:fb:fb:3a:f6:0f), Dst: Cisco_3a:f6:0f (fc:fb:fb:3a:f6:0f)
    Destination: Cisco_3a:f6:0f (fc:fb:fb:3a:f6:0f)
Address: Cisco_3a:f6:0f (fc:fb:fb:3a:f6:0f)
.... LG bit: Globally unique
            address (factory default)
....0 .... = IG bit: Grobally unique
(unicast)
    Source: Cisco_3a:f6:0f (fc:fb:fb:3a:f6:0f)
Address: Cisco_3a:f6:0f (fc:fb:fb:3a:f6:0f)
.....0..... = LG bit: Globally unique
address (factory default)
         .... = IG bit: Individual address (unicast)
Type: Loopback (0x9000)
Configuration Test Protocol (loopback)
Data (40 bytes)
0020 00 00 00 00 00 00 00 00
   Time
Protocol Length Info
1346 1856.128090000 Cisco_3a:f6:0f
                                                     Destination
                                                     Cisco_3a:f6:0f
Frame 1346: 60 bytes on wire (480 bits), 60 bytes captured (480
.... = IG bit: Individual address (unicast)
    Source: Cisco_3a:f6:0f (fc:fb:fb:3a:f6:0f)
         Address: Cisco_3a:f6:Of (fc:fb:fb:3a:f6:Of)
.....O..... = LG bit: Globally unique
address (factory default)
            ....0 .... = IG bit: Individual address (unicast)
Type: Loopback (0x9000)
Configuration Test Protocol (loopback)
Data (40 bytes)
```

```
0020 00 00 00 00 00 00 00 00
   Time Source
Protocol Length Info
1351 1865.402443000 Cisco_3a:f6:0f CDM
TO 60 Dynamic Trunking Protocol
                                                   Destination
                                                   CDP/VTP/DTP/PAgP/UDLD
Frame 1351: 60 bytes on wire (480 bits), 60 bytes captured (480
bits) on interface 0
IEEE 802.3 Ethernet
Logical-Link Control
Dynamic Trunking Protocol
   Time Source
Protocol Length Info
1352 1865.402502000 Cisco_3a:f6:0f CDM
                                                   Destination
                                                   CDP/VTP/DTP/PAgP/UDLD
Frame 1352: 90 bytes on wire (720 bits), 90 bytes captured (720
  bits) on interface 0
ISL
IEEE 802.3 Ethernet
Logical-Link Control
Dynamic Trunking Protocol
   Time Source
Protocol Length Info
1354 1866.127047000 Cisco_3a:f6:0f
LOOP 60 Reply
                                                   Destination
                                                   Cisco_3a:f6:0f
address (factory default)
              ...0 .... ....
                                     .... = IG bit: Individual address
    cource: Cisco_3a:f6:0f (fc:fb:fb:3a:f6:0f)
Address: Cisco_3a:f6:0f (fc:fb:fb:fb:3a:f6:0f)
... .0. ... ... ... = LG bit: Globally unique
            address (factory default)
         .... = IG bit: Individual address (unicast)
Type: Loopback (0x9000)
Configuration Test Protocol (loopback)
Data (40 bytes)
0020 00 00 00 00 00 00 00
   Time Source
Protocol Length Info
1357 1870.542413000 Hewlett-_c5:61:bb
ARP 60 Who has 172.16.1.254?
                                                   Destination
                                                   Broadcast
                                                 Tell 172.16.1.64
Frame 1357: 60 bytes on wire (480 bits), 60 bytes captured (480
multicast/broadcast)
Source: Hewlett-_c5:61:bb (00:21:5a:c5:61:bb)
Address: Hewlett-_c5:61:bb (00:21:5a:c5:61:bb)
```

```
....0. .... = LG bit: Globally unique address (factory default)
                                    .... = IG bit: Individual address
             .... (unicast)
      Address Resolution Protocol (request)
           Time
                                   Source
     Time Source Protocol Length Info 1358 1870.542451000 Watchgua_30:b3:e1 Hewlett-_c5:6 ARP 60 172.16.1.254 is at 00:90:7f:30:b3:e1
                                                                      Hewlett-c5:61:bb
Frame 1358: 60 bytes on wire (480 bits), 60 bytes captured (480
address (factory default)
                                                  .... = IG bit: Individual address
                    ...0 .
                 (unicast)
      Source: Watchgua_30:b3:e1 (00:90:7f:30:b3:e1)
   Address: Watchgua_30:b3:e1 (00:90:7f:30:b3:e1)
   .... .0. .... = LG bit: Globally unique address (factory default)
             .... = IG bit: Individual address (unicast)
      Type: ARP (0x0806)
Padding: 202020202020202020202020200000000
Address Resolution Protocol (reply)
     Time Source
Protocol Length Info
1362 1874.249061000 172.16.1.44
DNS 87 Standard query 0x5954
                                                                      Destination
                                                                    172.16.1.1
PTR 192.41.194.173.in-
          addr.arpa
Frame 1362: 87 bytes on wire (696 bits), 87 bytes captured (696
bits) on interface 0

Ethernet II, Src: Hewlett-_c7:64:8e (00:21:5a:c7:64:8e), Dst:
    AsustekC_80:01:fb (00:17:31:80:01:fb)
    Destination: AsustekC_80:01:fb (00:17:31:80:01:fb)
    Address: AsustekC_80:01:fb (00:17:31:80:01:fb)
    ....... = LG bit: Globally unique address (factory default)
      .... 0 .... = IG bit: Individual address (unicast)

Source: Hewlett-_c7:64:8e (00:21:5a:c7:64:8e)

Address: Hewlett-_c7:64:8e (00:21:5a:c7:64:8e)

... 0. ... ELG bit: Globally unique
                address (factory default)
      .... = IG bit: Individual address (unicast)
Type: IP (0x0800)
Internet Protocol Version 4, Src: 172.16.1.44 (172.16.1.44), Dst:
172.16.1.1 (172.16.1.1)
User Datagram Protocol, Src Port: 35596 (35596), Dst Port: domain
     (53)
Domain Name System (query)
     Time Source Destination
Protocol Length Info
1363 1874.249330000 172.16.1.1 172.16.1.44

DNS 271 Standard query response 0x5954 PTR lis01s05-
Frame 1363: 271 bytes on wire (2168 bits), 271 bytes captured (2168
bits) on interface 0
Ethernet II, Src: AsustekC_80:01:fb (00:17:31:80:01:fb), Dst:
    Hewlett-_c7:64:8e (00:21:5a:c7:64:8e)
    Destination: Hewlett-_c7:64:8e (00:21:5a:c7:64:8e)
    Address: Hewlett-_c7:64:8e (00:21:5a:c7:64:8e)
```

```
....0. .... = LG bit: Globally unique address (factory default)
      .... = IG bit: Individual address
             .... = IG bit: Individual address (unicast)
      Type: IP (0x0800)
Internet Protocol Version 4, Src: 172.16.1.1 (172.16.1.1), Dst: 172.16.1.44 (172.16.1.44)
User Datagram Protocol, Src Port: domain (53), Dst Port: 35596
     (35596)
Domain Name System (response)
     Time Source
Protocol Length Info
1364 1874.249682000 172.16.1.44
DNS 87 Standard query 0x9281
                                                                          Destination
                                                                        172.16.1.1
PTR 207.41.194.173.in-
          addr.arpa
Frame 1364: 87 bytes on wire (696 bits), 87 bytes captured (696
Frame 1364: 87 bytes on wire (030 bits), 6. bytes capture bits) on interface 0

Ethernet II, Src: Hewlett-_c7:64:8e (00:21:5a:c7:64:8e), Dst:
    AsustekC_80:01:fb (00:17:31:80:01:fb)
    Destination: AsustekC_80:01:fb (00:17:31:80:01:fb)
    Address: AsustekC_80:01:fb (00:17:31:80:01:fb)
    ..... = LG bit: Globally unique address (factory default)
             .... = IG bit: Individual address (unicast)
      Source: Hewlett-_c7:64:8e (00:21:5a:c7:64:8e)
   Address: Hewlett-_c7:64:8e (00:21:5a:c7:64:8e)
   ... .0. ... ... = LG bit: Globally unique
   address (factory default)
             .... = IG bit: Individual address (unicast)
      Type: IP (0x0800)
Internet Protocol Version 4, Src: 172.16.1.44 (172.16.1.44), Dst: 172.16.1.1 (172.16.1.1)
User Datagram Protocol, Src Port: 58901 (58901), Dst Port: domain
     (53)
Domain Name System (query)
     Time Source Destination
Protocol Length Info
1365 1874.249855000 172.16.1.1 172.16.1.44

DNS 272 Standard query response 0x9281 PTR lis01s05-
in-f15.1e100.net
Frame 1365: 272 bytes on wire (2176 bits), 272 bytes captured (2176
bits) on interface 0

Ethernet II, Src: AsustekC_80:01:fb (00:17:31:80:01:fb), Dst:

Hewlett-_c7:64:8e (00:21:5a:c7:64:8e)

Destination: Hewlett-_c7:64:8e (00:21:5a:c7:64:8e)

Address: Hewlett-_c7:64:8e (00:21:5a:c7:64:8e)

.... .0. .... = LG bit: Globally unique address (factory default)
      .... = IG bit: Individual address
                 address (factory default)
                     ...0 .... = IG bit: Individual address
                  (unicast)
Type: IP (0x0800)
Internet Protocol Version 4, Src: 172.16.1.1 (172.16.1.1), Dst: 172.16.1.44 (172.16.1.44)
User Datagram Protocol, Src Port: domain (53), Dst Port: 58901
     (58901)
```

```
Domain Name System (response)
            Time Source
Protocol Length Info
1366 1875.368219000 Cisco_3a:f6:0f CDP/VTP/DTP/PAgr/UDLD
CDP 454 Device ID: tux-sw5 Port ID: FastEthernet0/13
 Frame 1366: 454 bytes on wire (3632 bits), 454 bytes captured (3632
 bits) on interface 0 IEEE 802.3 Ethernet Logical-Link Control
 Cisco Discovery Protocol
            Time Source
Protocol Length Info
1368 1876.134486000 Cisco_3a:f6:0f
LOOP 60 Reply
                                                                                                                                                                                  Destination
                                                                                                                                                                               Cisco_3a:f6:0f
 Frame 1368: 60 bytes on wire (480 bits), 60 bytes captured (480
.... = IG bit: Individual address (unicast)
                Source: Cisco_3a:f6:0f (fc:fb:fb:3a:f6:0f)
Address: Cisco_3a:f6:0f (fc:fb:fb:3a:f6:0f)
.....0..... = LG bit: Globally unique
address (factory default)
                                 .... = IG bit: Individual address
                                             (unicast)
Type: Loopback (0x9000)
Configuration Test Protocol (loopback)
 Data (40 bytes)
 0010 \\ \hline{)} \\ \\ \hline{)} \\ \hline{]} \\ \hline{]} \\ \hline{]} \\ \hline{]} \\ \hline{] \\ \hline{]} \\
 0020 00 00 00 00 00 00 00 00
            Time Source
Protocol Length Info
1370 1878.375706000 Hewlett-_c5:61:bb
ARP 60 Who has 172.16.1.1?
                                                                                                                                                                                  {\tt Destination}
                                                                                                                                                                          Broadcast
Tell 172.16.1.64
Frame 1370: 60 bytes on wire (480 bits), 60 bytes captured (480
                                        ....1. .... .... = LG bit: Locally administered address (this is NOT the factory default)
                                 .... ...1 ....
                                                                                                                                 .... = IG bit: Group address (
                multicast/broadcast)

Source: Hewlett-_c5:61:bb (00:21:5a:c5:61:bb)

Address: Hewlett-_c5:61:bb (00:21:5a:c5:61:bb)

... .0. ... ... = LG bit: Globally unique address (factory default)

- TC bit: Individual address
                                 .... = IG bit: Individual address (unicast)
                Address Resolution Protocol (request)
            Time Source
Protocol Length Info
1375 1886.141787000 Cisco_3a:f6:0f
LOOP 60 Reply
                                                                                                                                                                                  Destination
                                                                                                                                                                                  Cisco_3a:f6:0f
Frame 1375: 60 bytes on wire (480 bits), 60 bytes captured (480 bits) on interface 0 \,
```

```
address (factory default)
                          ... .... .... = IG bit: Individual address
                  ...0 .
     (unicast)
Source: Cisco_3a:f6:0f (fc:fb:fb:3a:f6:0f)
Address: Cisco_3a:f6:0f (fc:fb:fb:3a:f6:0f)
.....0..... = LG bit: Globally unique
address (factory default)

= TG bit: Individual addr
               . ...0 .... = IG bit: Individual address (unicast)
Type: Loopback (0x9000)
Configuration Test Protocol (loopback)
Data (40 bytes)
0020 00 00 00 00 00 00 00
    Time Source
Protocol Length Info
1380 1895.402660000 Cisco_3a:f6:0f CDF
TO 60 Dynamic Trunking Protocol
                                                             Destination
                                                             CDP/VTP/DTP/PAgP/UDLD
Frame 1380: 60 bytes on wire (480 bits), 60 bytes captured (480 bits) on interface 0
IEEE 802.3 Ethernet
Logical-Link Control
Dynamic Trunking Protocol
    Time Source Determined Protocol Length Info
1381 1895.402718000 Cisco_3a:f6:0f CDD
DTP 90 Dynamic Trunking Protocol
                                                             Destination
                                                             CDP/VTP/DTP/PAgP/UDLD
Frame 1381: 90 bytes on wire (720 bits), 90 bytes captured (720 bits) on interface 0 ISL
ISL
IEEE 802.3 Ethernet
Logical-Link Control
Dynamic Trunking Protocol
VSS-Monitoring ethernet trailer, Timestamp: 01:00:00.000000000,
Source Port: 0
Destination
    Time Source
Protocol Length Info
1382 1896.154436000 Cisco_3a:f6:0f
LOOP 60 Reply
                                                             Destination
                                                             Cisco_3a:f6:0f
Frame 1382: 60 bytes on wire (480 bits), 60 bytes captured (480
bits) on interface 0
Ethernet II, Src: Cisco_3a:f6:0f (fc:fb:fb:3a:f6:0f), Dst: Cisco_3a:f6:0f (fc:fb:fb:3a:f6:0f)
     Destination: Cisco_3a:f6:0f (fc:fb:fb:3a:f6:0f)
Address: Cisco_3a:f6:0f (fc:fb:fb:3a:f6:0f)
.... .0. ... ... ... = LG bit: Globally unique
              address (factory default)
           .... = IG bit: Individual address (unicast)
     Source: Cisco_3a:f6:0f (fc:fb:fb:3a:f6:0f)
Address: Cisco_3a:f6:0f (fc:fb:fb:3a:f6:0f)
.....0..... = LG bit: Globally unique
              address (factory default)
              . ...0 .... = IG bit: Individual address (unicast)
Type: Loopback (0x9000)
Configuration Test Protocol (loopback)
Data (40 bytes)
```

```
0020 00 00 00 00 00 00 00 00
   Time Source
Protocol Length Info
1388 1906.148421000 Cisco_3a:f6:0f
LOOP 60 Reply
                                               Destination
                                               Cisco_3a:f6:0f
Frame 1388: 60 bytes on wire (480 bits), 60 bytes captured (480
. ..O. .... : LG bit: Globally unique address (factory default)
           ....0 .... = IG bit: Individual address (unicast)
    Source: Cisco_3a:f6:0f (fc:fb:fb:3a:f6:0f)
Address: Cisco_3a:f6:0f (fc:fb:fb:3a:f6:0f)
.... .0. .... = LG bit: Globally unique
          address (factory default)
        (unicast)
                                  .... = IG bit: Individual address
Type: Loopback (0x9000)
Configuration Test Protocol (loopback)
Data (40 bytes)
0020 00 00 00 00 00 00 00
   Time Source
Protocol Length Info
1394 1916.155549000 Cisco_3a:f6:0f
LOOP 60 Reply
                                               Destination
                                               Cisco_3a:f6:0f
Frame 1394: 60 bytes on wire (480 bits), 60 bytes captured (480
.... 0 .... = IG bit: Individual address (unicast)

Source: Cisco_3a:f6:0f (fc:fb:fb:3a:f6:0f)
Address: Cisco_3a:f6:0f (fc:fb:fb:3a:f6:0f)
.... 0 .... = LG bit: Globally unique
address (factory default)
           address (factory default)
        .... = IG bit: Individual address (unicast)
Type: Loopback (0x9000)
Configuration Test Protocol (loopback)
Data (40 bytes)
0020 00 00 00 00 00 00 00 00
   Time
Protocol Length Info
1400 1925.408010000 Cisco_3a:f6:0f CDF
DTD 60 Dynamic Trunking Protocol
                                               Destination
                                               CDP/VTP/DTP/PAgP/UDLD
Frame 1400: 60 bytes on wire (480 bits), 60 bytes captured (480 bits) on interface 0
IEEE 802.3 Ethernet
Logical-Link Control
Dynamic Trunking Protocol
```

```
Time Source
Protocol Length Info
1401 1925.408080000 Cisco_3a:f6:0f CDM
TO 90 Dynamic Trunking Protocol
                                                               Destination
                                                               CDP/VTP/DTP/PAgP/UDLD
Frame 1401: 90 bytes on wire (720 bits), 90 bytes captured (720
bits) on interface 0
ISE
IEEE 802.3 Ethernet
Logical-Link Control
Dynamic Trunking Protocol
    Time
Protocol Length Info
1402 1926.162940000 Cisco_3a:f6:0f
I.OOP 60 Reply
                                                               Destination
                                                               Cisco_3a:f6:0f
Frame 1402: 60 bytes on wire (480 bits), 60 bytes captured (480
....0 .... = IG bit: Individual address (unicast)
     Source: Cisco_3a:f6:0f (fc:fb:fb:3a:f6:0f)
Address: Cisco_3a:f6:0f (fc:fb:fb:3a:f6:0f)
.....0..... = LG bit: Globally unique
address (factory default)
            .... = IG bit: Individual address (unicast)
Type: Loopback (0x9000)
Configuration Test Protocol (loopback)
Data (40 bytes)
0020 00 00 00 00 00 00 00 00
                                                                               . . . . . . . . .
    Time Source
Protocol Length Info
1408 1935.365678000 Cisco_3a:f6:0f CDP/VTP/DTP/PAgr/עבערט 454 Device ID: tux-sw5 Port ID: FastEthernet0/13
Frame 1408: 454 bytes on wire (3632 bits), 454 bytes captured (3632
bits) on interface 0
IEEE 802.3 Ethernet
Logical-Link Control
Cisco Discovery Protocol
    Time Source
Protocol Length Info
1409 1936.170321000 Cisco_3a:f6:0f
LOOP 60 Reply
                                                               Destination
                                                               Cisco_3a:f6:0f
Frame 1409: 60 bytes on wire (480 bits), 60 bytes captured (480 bits) on interface 0
Ethernet II, Src: Cisco_3a:f6:0f (fc:fb:fb:3a:f6:0f), Dst: Cisco_3a
    :f6:0f (fc:fb:fb:3a:f6:0f)
     Destination: Cisco_3a:f6:0f (fc:fb:fb:3a:f6:0f)
   Address: Cisco_3a:f6:0f (fc:fb:fb:3a:f6:0f)
   ... .0. ... . ... = LG bit: Globally unique
   address (factory default)

= TC bit. Individual address
                  ...0 .... = IG bit: Individual address
               (unicast)
     Source: Cisco_3a:f6:0f (fc:fb:fb:3a:f6:0f)
Address: Cisco_3a:f6:0f (fc:fb:fb:3a:f6:0f)
.... = LG bit: Globally unique
                address (factory default)
            .... = IG bit: Individual address (unicast)
```

```
Type: Loopback (0x9000)
Configuration Test Protocol (loopback)
Data (40 bytes)
0020 00 00 00 00 00 00 00
   Time Source
Protocol Length Info
1415 1946.169423000 Cisco_3a:f6:0f
LOOP 60 Reply
                                             Destination
                                             Cisco_3a:f6:0f
Frame 1415: 60 bytes on wire (480 bits), 60 bytes captured (480
.... = IG bit: Individual address (unicast)
    Source: Cisco_3a:f6:0f (fc:fb:fb:3a:f6:0f)
Address: Cisco_3a:f6:0f (fc:fb:fb:3a:f6:0f)
.... .0. ... ... = LG bit: Globally unique
address (factory default)
        .... (unicast)
                                 .... = IG bit: Individual address
    Type: Loopback (0x9000)
Configuration Test Protocol (loopback)
Data (40 bytes)
0020 00 00 00 00 00 00 00 00
   Time
Protocol Length Info
1421 1955.418754000 Cisco_3a:f6:0f CDF
DTD 60 Dynamic Trunking Protocol
                                             Destination
                                             CDP/VTP/DTP/PAgP/UDLD
Frame 1421: 60 bytes on wire (480 bits), 60 bytes captured (480
bits) on interface 0
IEEE 802.3 Ethernet
Logical-Link Control
Dynamic Trunking Protocol
   Time S
Protocol Length Info
                                             Destination
   1422 1955.418847000 Cisco_3a:f6:Of CDF DTP 90 Dynamic Trunking Protocol
                                             CDP/VTP/DTP/PAgP/UDLD
Frame 1422: 90 bytes on wire (720 bits), 90 bytes captured (720
   bits) on interface 0
IEEE 802.3 Ethernet
Logical-Link Control
Dynamic Trunking Protocol
   Time Source
Protocol Length Info
1423 1956.176731000 Cisco_3a:f6:0f
LOOP 60 Reply
                                             Destination
                                             Cisco_3a:f6:0f
Frame 1423: 60 bytes on wire (480 bits), 60 bytes captured (480
address (factory default)
```

```
.....0 .... = IG bit: Individual address (unicast)

Source: Cisco_3a:f6:0f (fc:fb:fb:3a:f6:0f)
Address: Cisco_3a:f6:0f (fc:fb:fb:3a:f6:0f)
.....0 .... = LG bit: Globally unique
            address (factory default)
                                      .... = IG bit: Individual address
                ...0 .... ....
(unicast)
Type: Loopback (0x9000)
Configuration Test Protocol (loopback)
Data (40 bytes)
0020 00 00 00 00 00 00 00
   Time Source
Protocol Length Info
1429 1966.181003000 Cisco_3a:f6:0f
LOOP 60 Reply
                                                     Destination
                                                     Cisco_3a:f6:0f
Frame 1429: 60 bytes on wire (480 bits), 60 bytes captured (480 bits) on interface 0

Ethernet II, Src: Cisco_3a:f6:0f (fc:fb:fb:3a:f6:0f), Dst: Cisco_3a:f6:0f (fc:fb:fb:3a:f6:0f)
    Destination: Cisco_3a:f6:0f (fc:fb:fb:3a:f6:0f)
Address: Cisco_3a:f6:0f (fc:fb:fb:3a:f6:0f)
.... LG bit: Globally unique
            address (factory default)
....0 .... = IG bit: Grobally unique
(unicast)
    Source: Cisco_3a:f6:0f (fc:fb:fb:3a:f6:0f)
Address: Cisco_3a:f6:0f (fc:fb:fb:3a:f6:0f)
.....0..... = LG bit: Globally unique
address (factory default)
          .... = IG bit: Individual address (unicast)
Type: Loopback (0x9000)
Configuration Test Protocol (loopback)
Data (40 bytes)
0020 00 00 00 00 00 00 00 00
   Time Source
Protocol Length Info
1435 1976.183031000 Cisco_3a:f6:0f
LOOP 60 Reply
                                                     Destination
                                                     Cisco_3a:f6:0f
Frame 1435: 60 bytes on wire (480 bits), 60 bytes captured (480
.... = IG bit: Individual address (unicast)
    Source: Cisco_3a:f6:0f (fc:fb:fb:3a:f6:0f)
         Address: Cisco_3a:f6:Of (fc:fb:fb:3a:f6:Of)
.....O..... = LG bit: Globally unique
address (factory default)
            ....0 .... = IG bit: Individual address (unicast)
Type: Loopback (0x9000)
Configuration Test Protocol (loopback)
Data (40 bytes)
```

```
0020 00 00 00 00 00 00 00 00
    Time Source
Protocol Length Info
1440 1985.418727000 Cisco_3a:f6:0f CDM
TO 60 Dynamic Trunking Protocol
                                                                      Destination
                                                                      CDP/VTP/DTP/PAgP/UDLD
Frame 1440: 60 bytes on wire (480 bits), 60 bytes captured (480
bits) on interface 0
IEEE 802.3 Ethernet
Logical-Link Control
Dynamic Trunking Protocol
    Time Source
Protocol Length Info
1441 1985.418785000 Cisco_3a:f6:0f CDN
DTP 90 Dynamic Trunking Protocol
(720 bits), 90 byte
                                                                      Destination
                                                                      CDP/VTP/DTP/PAgP/UDLD
Frame 1441: 90 bytes on wire (720 bits), 90 bytes captured (720
    bits) on interface 0
ISL
IEEE 802.3 Ethernet
Logical-Link Control
Dynamic Trunking Protocol
     Time Source
Protocol Length Info
1443 1986.190435000 Cisco_3a:f6:0f
LOOP 60 Reply
                                                                      Destination
                                                                      Cisco_3a:f6:0f
Frame 1443: 60 bytes on wire (480 bits), 60 bytes captured (480 bits) on interface 0

Ethernet II, Src: Cisco_3a:f6:0f (fc:fb:fb:3a:f6:0f), Dst: Cisco_3a:f6:0f (fc:fb:fb:3a:f6:0f)

Destination: Cisco_3a:f6:0f (fc:fb:fb:3a:f6:0f)

Address: Cisco_3a:f6:0f (fc:fb:fb:3a:f6:0f)

.....0.....= LG bit: Globally unique address (factory default)

.....0....= IG bit: Individual address
                    ...0 .... = IG bit: Individual address
      councest)
Source: Cisco_3a:f6:0f (fc:fb:fb:3a:f6:0f)
Address: Cisco_3a:f6:0f (fc:fb:fb:3a:f6:0f)
... .0. ... ... = LG bit: Globally unique
                 address (factory default)
             .... = IG bit: Individual address (unicast)
Type: Loopback (0x9000)
Configuration Test Protocol (loopback)
Data (40 bytes)
0020 00 00 00 00 00 00 00
    Time Source
Protocol Length Info
1448 1995.367710000 Cisco_3a:f6:0f CDP/VTP/DTP/PAgP/UDLD
CDP 454 Device ID: tux-sw5 Port ID: FastEthernet0/13
Frame 1448: 454 bytes on wire (3632 bits), 454 bytes captured (3632
bits) on interface 0
IEEE 802.3 Ethernet
Logical-Link Control
Cisco Discovery Protocol
    Time Source
Protocol Length Info
1450 1996.197935000 Cisco_3a:f6:0f
LOOP 60 Reply
                                                                      Destination
                                                                     Cisco_3a:f6:0f
Frame 1450: 60 bytes on wire (480 bits), 60 bytes captured (480
     bits) on interface 0
```

```
address (factory default)
                     ... .... .... = IG bit: Individual address
               ...0 .
    (unicast)
Source: Cisco_3a:f6:0f (fc:fb:fb:3a:f6:0f)
Address: Cisco_3a:f6:0f (fc:fb:fb:3a:f6:0f)
.....0...... = LG bit: Globally unique
            . ..0. .... .... .... address (factory default)
            . ...0 .... = IG bit: Individual address (unicast)
Type: Loopback (0x9000)
Configuration Test Protocol (loopback)
Data (40 bytes)
0020 00 00 00 00 00 00 00
   Destination
                                                 Cisco_3a:f6:0f
Frame 1456: 60 bytes on wire (480 bits), 60 bytes captured (480
address (factory default)
    address (factory default)
.....0 .... = IG bit: Individual address (unicast)
Source: Cisco_3a:f6:0f (fc:fb:fb:3a:f6:0f)
Address: Cisco_3a:f6:0f (fc:fb:fb:3a:f6:0f)
.....0 .... = LG bit: Globally unique address (factory default)

= IG bit: Individual address
(unicast)
Type: Loopback (0x9000)
Configuration Test Protocol (loopback)
                                   .... = IG bit: Individual address
Data (40 bytes)
0020 00 00 00 00 00 00 00
   Time Source
Protocol Length Info
1460 2012.505592000 Cisco_3a:f6:0f CDP/VTP/DTP/rag
60 Device ID: tux-sw5 [Malformed Packet]
                                                  CDP/VTP/DTP/PAgP/UDLD
Frame 1460: 60 bytes on wire (480 bits), 60 bytes captured (480
bits) on interface 0
IEEE 802.3 Ethernet
Logical-Link Control
Cisco Discovery Protocol
[Malformed Packet: CDP]
   Time Source
Protocol Length Info
1462 2015.437732000 Cisco_3a:f6:0f CDI
                                                  Destination
                                                 CDP/VTP/DTP/PAgP/UDLD
Frame 1462: 60 bytes on wire (480 bits), 60 bytes captured (480
bits) on interface 0 IEEE 802.3 Ethernet
Logical-Link Control
```

```
Dynamic Trunking Protocol
   Time
Protocol Length Info

1463 2015.437792000 Cisco_3a:f6:0f CDF
DTP 90 Dynamic Trunking Protocol
(720 bits), 90 byte
                                                         Destination
                                                        CDP/VTP/DTP/PAgP/UDLD
Frame 1463: 90 bytes on wire (720 bits), 90 bytes captured (720
   bits) on interface 0
ISL
IEEE 802.3 Ethernet
Logical-Link Control
Dynamic Trunking Protocol
   Time Source
Protocol Length Info
1464 2145.303508000 Cisco_3a:f6:0f CDP/VTP/DTP/PAgP/UJLJU
CDP 436 Device ID: tux-sw5 Port ID: FastEthernet0/13
Frame 1464: 436 bytes on wire (3488 bits), 436 bytes captured (3488
bits) on interface 0 IEEE 802.3 Ethernet Logical-Link Control
Cisco Discovery Protocol
   Time Source
Protocol Length Info
1465 2145.617238000 Cisco_3a:f6:0f
LOOP 60 Reply
                                                         Destination
                                                         Cisco_3a:f6:0f
Frame 1465: 60 bytes on wire (480 bits), 60 bytes captured (480
bits) on interface 0
Ethernet II, Src: Cisco_3a:f6:0f (fc:fb:fb:3a:f6:0f), Dst: Cisco_3a:f6:0f (fc:fb:fb:3a:f6:0f)
     ....0 .... = IG bit: Individual address (unicast)
     Source: Cisco_3a:f6:0f (fc:fb:fb:3a:f6:0f)
Address: Cisco_3a:f6:0f (fc:fb:fb:3a:f6:0f)
.... = LG bit: Globally unique
              address (factory default)
          .... = IG bit: Individual address (unicast)
     Type: Loopback (0x9000)
Configuration Test Protocol (loopback)
Data (40 bytes)
0020 00 00 00 00 00 00 00 00
   Time Source
Protocol Length Info
1466 2146.313337000 Cisco_3a:f6:0f CDP/VTP/DTP/PAgP/UULU
CDP 436 Device ID: tux-sw5 Port ID: FastEthernet0/13
Frame 1466: 436 bytes on wire (3488 bits), 436 bytes captured (3488
bits) on interface 0
IEEE 802.3 Ethernet
Logical-Link Control
Cisco Discovery Protocol
   Time Source
Protocol Length Info
1468 2147.169733000 Cisco_3a:f6:0f
                                                        Destination
                                                        CDP/VTP/DTP/PAgP/UDLD
                           Device ID: tux-sw5 Port ID: FastEthernet0/13
                   436
Frame 1468: 436 bytes on wire (3488 bits), 436 bytes captured (3488
bits) on interface 0
IEEE 802.3 Ethernet
Logical-Link Control
Cisco Discovery Protocol
```

```
No. Time
Protocol Length Info
                                     Source
     1469 2148.175983000 Cisco_3a:f6:0f CDP/VTP/DTP/PAgP/UDLD CDP 436 Device ID: tux-sw5 Port ID: FastEthernet0/13
Frame 1469: 436 bytes on wire (3488 bits), 436 bytes captured (3488
bits) on interface 0 IEEE 802.3 Ethernet Logical-Link Control
Cisco Discovery Protocol
     Time Source
Protocol Length Info
1471 2149.183879000 Cisco_3a:f6:0f CDP/VTP/DTP/PAgP/עבעע 436 Device ID: tux-sw5 Port ID: FastEthernet0/13
Frame 1471: 436 bytes on wire (3488 bits), 436 bytes captured (3488 bits) on interface 0
IEEE 802.3 Ethernet
Logical-Link Control
Cisco Discovery Protocol
     Time Source
Protocol Length Info
1472 2150.190478000 Cisco_3a:f6:0f CDP/VTP/DTP/PAgP/UJLJJ
CDD 436 Device ID: tux-sw5 Port ID: FastEthernet0/13
Frame 1472: 436 bytes on wire (3488 bits), 436 bytes captured (3488
bits) on interface 0
IEEE 802.3 Ethernet
Logical-Link Control
Cisco Discovery Protocol
     Time Source
Protocol Length Info
1474 2151.196085000 Cisco_3a:f6:0f CDP/VTP/DTP/PAgP/UJLJJ
CDP 436 Device ID: tux-sw5 Port ID: FastEthernet0/13
Frame 1474: 436 bytes on wire (3488 bits), 436 bytes captured (3488
bits) on interface 0
IEEE 802.3 Ethernet
Logical-Link Control
Cisco Discovery Protocol
No. Time Source
Protocol Length Info
1476 2152.202505000 Cisco_3a:f6:0f CDP/VTP/DTP/PAgP/UULU
CDP 436 Device ID: tux-sw5 Port ID: FastEthernet0/13
bits) on interface 0 IEEE 802.3 Ethernet Logical-Link Control
Cisco Discovery Protocol
    Time Source
Protocol Length Info
1477 2153.209116000 Cisco_3a:f6:0f CDP/VTP/DTP/PAgP/UULU
CDP 436 Device ID: tux-sw5 Port ID: FastEthernet0/13
Frame 1477: 436 bytes on wire (3488 bits), 436 bytes captured (3488
bits) on interface 0 IEEE 802.3 Ethernet Logical-Link Control
Cisco Discovery Protocol
     Time Source
Protocol Length Info
1479 2154.215976000 Cisco_3a:f6:0f
                                                                          Destination
                                                                         CDP/VTP/DTP/PAgP/UDLD
                                 Device ID: tux-sw5 Port ID: FastEthernet0/13
                        436
Frame 1479: 436 bytes on wire (3488 bits), 436 bytes captured (3488
bits) on interface 0
IEEE 802.3 Ethernet
Logical-Link Control
Cisco Discovery Protocol
```

```
Time Source
Protocol Length Info
1480 2155.227473000 Cisco_3a:f6:0f CDP/VTP/DTP/PAgP/UULU
CDP 436 Device ID: tux-sw5 Port ID: FastEthernet0/13
Frame 1480: 436 bytes on wire (3488 bits), 436 bytes captured (3488
bits) on interface 0 IEEE 802.3 Ethernet Logical-Link Control
Cisco Discovery Protocol
    Time Source
Protocol Length Info
1481 2155.624624000 Cisco_3a:f6:0f
                                                            Destination
                                                            Cisco_3a:f6:0f
Frame 1481: 60 bytes on wire (480 bits), 60 bytes captured (480
.... = IG bit: Individual address (unicast)
     Source: Cisco_3a:f6:0f (fc:fb:fb:3a:f6:0f)
Address: Cisco_3a:f6:0f (fc:fb:fb:3a:f6:0f)
.... .0. .... = LG bit: Globally unique
address (factory default)
           (unicast)
                                     .... = IG bit: Individual address
Type: Loopback (0x9000)
Configuration Test Protocol (loopback)
Data (40 bytes)
0020 00 00 00 00 00 00 00 00
    Time
Protocol Length Info
1487 2165.631991000 Cisco_3a:f6:0f
60 Reply
                                                            Destination
                                                            Cisco_3a:f6:0f
Frame 1487: 60 bytes on wire (480 bits), 60 bytes captured (480
Frame 148/: 60 bytes on wife (100 2122),
bits) on interface 0
Ethernet II, Src: Cisco_3a:f6:0f (fc:fb:fb:3a:f6:0f), Dst: Cisco_3a:f6:0f (fc:fb:fb:3a:f6:0f)
Destination: Cisco_3a:f6:0f (fc:fb:fb:3a:f6:0f)
Address: Cisco_3a:f6:0f (fc:fb:fb:3a:f6:0f)
....... = LG bit: Globally unique
              address (factory default)
     address (lactory default)
.....0 .... = IG bit: Individual address (unicast)
Source: Cisco_3a:f6:0f (fc:fb:fb:3a:f6:0f)
Address: Cisco_3a:f6:0f (fc:fb:fb:3a:f6:0f)
.....0 .... = LG bit: Globally unique address (factory default)

= IC bit: Individual address
               ....0 .... = IG bit: Individual address (unicast)
Type: Loopback (0x9000)
Configuration Test Protocol (loopback)
Data (40 bytes)
0020 00 00 00 00 00 00 00
```

ANEXO - CÓDIGO FONTE