

```
ASW1#
ASW1#show running-config
Building configuration...

Current configuration : 3697 bytes
!
version 12.1
no service pad
service timestamps debug uptime
service timestamps log uptime
no service password-encryption
!
hostname ASW1
!
!
ip subnet-zero
!
vtp domain netlearning
vtp mode transparent
!
!
spanning-tree mode pvst
no spanning-tree optimize bpdu transmission
spanning-tree extend system-id
spanning-tree vlan 10 priority 61440
!
!
!
!
vlan 10,20,100,200
!
interface Port-channel1
switchport trunk allowed vlan 10,200
switchport mode trunk
flowcontrol send off
!
interface Port-channel2
switchport trunk allowed vlan 10,200
switchport mode trunk
flowcontrol send off
!
interface FastEthernet0/1
switchport access vlan 100
switchport mode access
switchport port-security
spanning-tree portfast
!
interface FastEthernet0/2
switchport access vlan 10
switchport mode access
switchport port-security
spanning-tree portfast
!
interface FastEthernet0/3
```

```
switchport access vlan 10
switchport mode access
switchport port-security
spanning-tree portfast
!
interface FastEthernet0/4
switchport access vlan 10
switchport mode access
switchport port-security
spanning-tree portfast
!
interface FastEthernet0/5
switchport access vlan 10
switchport mode access
switchport port-security
spanning-tree portfast
!
interface FastEthernet0/6
switchport access vlan 10
switchport mode access
switchport port-security
spanning-tree portfast
!
interface FastEthernet0/7
switchport access vlan 10
switchport mode access
switchport port-security
spanning-tree portfast
!
interface FastEthernet0/8
switchport access vlan 10
switchport mode access
switchport port-security
spanning-tree portfast
!
interface FastEthernet0/9
switchport access vlan 10
switchport mode access
switchport port-security
spanning-tree portfast
!
interface FastEthernet0/10
switchport access vlan 10
switchport mode access
switchport port-security
spanning-tree portfast
!
interface FastEthernet0/11
switchport access vlan 10
switchport mode access
switchport port-security
spanning-tree portfast
!
interface FastEthernet0/12
```

```
switchport access vlan 10
switchport mode access
switchport port-security
spanning-tree portfast
!
interface FastEthernet0/13
switchport access vlan 10
switchport mode access
switchport port-security
spanning-tree portfast
!
interface FastEthernet0/14
switchport access vlan 10
switchport mode access
switchport port-security
spanning-tree portfast
!
interface FastEthernet0/15
switchport access vlan 10
switchport mode access
switchport port-security
spanning-tree portfast
!
interface FastEthernet0/16
switchport trunk allowed vlan 10,200
switchport mode trunk
channel-group 2 mode active
!
interface FastEthernet0/17
switchport trunk allowed vlan 10,200
switchport mode trunk
channel-group 2 mode active
!
interface FastEthernet0/18
switchport trunk allowed vlan 10,200
switchport mode trunk
channel-group 2 mode active
!
interface FastEthernet0/19
switchport trunk allowed vlan 10,200
switchport mode trunk
channel-group 1 mode passive
!
interface FastEthernet0/20
switchport trunk allowed vlan 10,200
switchport mode trunk
channel-group 1 mode passive
!
interface FastEthernet0/21
switchport trunk allowed vlan 10,200
switchport mode trunk
channel-group 1 mode passive
!
interface FastEthernet0/22
```

```
switchport mode trunk
shutdown
!
interface FastEthernet0/23
switchport mode trunk
shutdown
!
interface FastEthernet0/24
switchport mode trunk
shutdown
!
interface Vlan1
no ip address
no ip route-cache
shutdown
!
interface Vlan200
ip address 192.168.1.131 255.255.255.224
no ip route-cache
!
ip http server
!
line con 0
exec-timeout 0 0
logging synchronous
line vty 0 4
login
line vty 5 15
login
!
!
end
```

ASW1#

```
ASW1#show ip interface brief
```

| Interface | IP-Address | OK? | Method | Status |
|------------------|---------------|-----|--------|------------------|
| Vlan1 | unassigned | YES | NVRAM | administratively |
| down | | | | down |
| Vlan200 | 192.168.1.131 | YES | NVRAM | up |
| up | | | | |
| FastEthernet0/1 | unassigned | YES | unset | up |
| up | | | | |
| FastEthernet0/2 | unassigned | YES | unset | down |
| down | | | | |
| FastEthernet0/3 | unassigned | YES | unset | down |
| down | | | | |
| FastEthernet0/4 | unassigned | YES | unset | down |
| down | | | | |
| FastEthernet0/5 | unassigned | YES | unset | down |
| down | | | | |
| FastEthernet0/6 | unassigned | YES | unset | down |
| down | | | | |
| FastEthernet0/7 | unassigned | YES | unset | down |
| down | | | | |
| FastEthernet0/8 | unassigned | YES | unset | down |
| down | | | | |
| FastEthernet0/9 | unassigned | YES | unset | down |
| down | | | | |
| FastEthernet0/10 | unassigned | YES | unset | down |
| down | | | | |
| FastEthernet0/11 | unassigned | YES | unset | down |
| down | | | | |
| FastEthernet0/12 | unassigned | YES | unset | down |
| down | | | | |

| | | | | |
|-------------------------------|------------|-----|-------|------------------|
| FastEthernet0/13 down | unassigned | YES | unset | down |
| FastEthernet0/14 down | unassigned | YES | unset | down |
| FastEthernet0/15 down | unassigned | YES | unset | down |
| FastEthernet0/16 up | unassigned | YES | unset | up |
| FastEthernet0/17 up | unassigned | YES | unset | up |
| FastEthernet0/18 up | unassigned | YES | unset | up |
| FastEthernet0/19 up | unassigned | YES | unset | up |
| FastEthernet0/20 up | unassigned | YES | unset | up |
| FastEthernet0/21 up | unassigned | YES | unset | up |
| FastEthernet0/22 down down | unassigned | YES | unset | administratively |
| FastEthernet0/23 down down | unassigned | YES | unset | administratively |
| FastEthernet0/24 down down | unassigned | YES | unset | administratively |
| Port-channel1 up | unassigned | YES | unset | up |
| Port-channel2 up | unassigned | YES | unset | up |

ASW1#

ASW1#show processes cpu

CPU utilization for five seconds: 0%/0%; one minute: 2%; five minutes: 1%

| PID | Runtime (ms) | Invoked | uSecs | 5Sec | 1Min | 5Min | TTY | Process |
|------------|--------------|---------|-------|-------|-------|-------|-----|------------|
| 1 | 0 | 1 | 0 | 0.00% | 0.00% | 0.00% | 0 | Chunk |
| Manager | | | | | | | | |
| 2 | 8 | 1631 | 4 | 0.00% | 0.00% | 0.00% | 0 | Load Meter |
| 3 | 180 | 46 | 3913 | 0.00% | 0.00% | 0.00% | 0 | SpanTree |
| Helper | | | | | | | | |
| 4 | 2236 | 827 | 2703 | 0.00% | 0.03% | 0.00% | 0 | Check |
| heaps | | | | | | | | |
| 5 | 8 | 3 | 2666 | 0.00% | 0.00% | 0.00% | 0 | Pool |
| Manager | | | | | | | | |
| 6 | 4 | 2 | 2000 | 0.00% | 0.00% | 0.00% | 0 | Timers |
| 7 | 32 | 4 | 8000 | 0.00% | 0.00% | 0.00% | 0 | Entity MIB |
| API | | | | | | | | |
| 8 | 8 | 2037 | 3 | 0.00% | 0.00% | 0.00% | 0 | HC Counter |
| Timer | | | | | | | | |
| 9 | 4 | 142 | 28 | 0.00% | 0.00% | 0.00% | 0 | ARP Input |
| 10 | 0 | 2 | 0 | 0.00% | 0.00% | 0.00% | 0 | Net Input |
| 11 | 0 | 1 | 0 | 0.00% | 0.00% | 0.00% | 0 | Critical |
| Bkgnd | | | | | | | | |
| 12 | 2492 | 4358 | 571 | 0.08% | 0.02% | 0.00% | 0 | Net |
| Background | | | | | | | | |
| 13 | 12 | 50 | 240 | 0.00% | 0.00% | 0.00% | 0 | Logger |
| 14 | 68 | 8143 | 8 | 0.00% | 0.00% | 0.00% | 0 | TTY |
| Background | | | | | | | | |
| 15 | 104 | 8153 | 12 | 0.00% | 0.00% | 0.00% | 0 | Per-Second |
| Jobs | | | | | | | | |
| 16 | 32 | 1631 | 19 | 0.00% | 0.00% | 0.00% | 0 | Compute |
| load avg | | | | | | | | |
| 17 | 1164 | 136 | 8558 | 0.00% | 0.00% | 0.00% | 0 | Per-minute |
| Jobs | | | | | | | | |
| 18 | 4 | 20 | 200 | 0.00% | 0.00% | 0.00% | 0 | AggMgr |
| Process | | | | | | | | |
| 19 | 0 | 2 | 0 | 0.00% | 0.00% | 0.00% | 0 | Calhoun |
| Storm Co | | | | | | | | |


```
ASW1#show interfaces
Vlan1 is administratively down, line protocol is down
  Hardware is CPU Interface, address is 0015.faac.46c0 (bia
0015.faac.46c0)
  MTU 1500 bytes, BW 1000000 Kbit, DLY 10 usec,
    reliability 255/255, txload 1/255, rxload 1/255
  Encapsulation ARPA, loopback not set
  ARP type: ARPA, ARP Timeout 04:00:00
  Last input never, output never, output hang never
  Last clearing of "show interface" counters never
  Input queue: 0/75/0/0 (size/max/drops/flushes); Total output drops: 0
  Queueing strategy: fifo
  Output queue: 0/40 (size/max)
  5 minute input rate 0 bits/sec, 0 packets/sec
  5 minute output rate 0 bits/sec, 0 packets/sec
    0 packets input, 0 bytes, 0 no buffer
    Received 0 broadcasts (0 IP multicast)
    0 runts, 0 giants, 0 throttles
    0 input errors, 0 CRC, 0 frame, 0 overrun, 0 ignored
    0 packets output, 0 bytes, 0 underruns
    0 output errors, 3 interface resets
    0 output buffer failures, 0 output buffers swapped out
Vlan200 is up, line protocol is up
  Hardware is CPU Interface, address is 0015.faac.46c0 (bia
0015.faac.46c0)
  Internet address is 192.168.1.131/27
  MTU 1500 bytes, BW 1000000 Kbit, DLY 10 usec,
    reliability 255/255, txload 1/255, rxload 1/255
  Encapsulation ARPA, loopback not set
  ARP type: ARPA, ARP Timeout 04:00:00
  Last input 00:05:34, output never, output hang never
  Last clearing of "show interface" counters never
```

```
Input queue: 0/75/0/0 (size/max/drops/flushes); Total output drops: 0
Queueing strategy: fifo
Output queue: 0/40 (size/max)
5 minute input rate 1000 bits/sec, 3 packets/sec
5 minute output rate 1000 bits/sec, 2 packets/sec
  21877 packets input, 1825864 bytes, 0 no buffer
  Received 2 broadcasts (0 IP multicast)
  0 runts, 0 giants, 0 throttles
  0 input errors, 0 CRC, 0 frame, 0 overrun, 0 ignored
  23394 packets output, 13220985 bytes, 0 underruns
  0 output errors, 2 interface resets
  0 output buffer failures, 0 output buffers swapped out
FastEthernet0/1 is up, line protocol is up (connected)
  Hardware is Fast Ethernet, address is 0015.faac.46c1 (bia
0015.faac.46c1)
  MTU 1500 bytes, BW 100000 Kbit, DLY 100 usec,
    reliability 255/255, txload 1/255, rxload 1/255
  Encapsulation ARPA, loopback not set
  Keepalive set (10 sec)
  Full-duplex, 100Mb/s, media type is 100BaseTX
  input flow-control is unsupported output flow-control is unsupported
  ARP type: ARPA, ARP Timeout 04:00:00
  Last input 00:05:35, output 00:00:01, output hang never
  Last clearing of "show interface" counters never
  Input queue: 0/75/0/0 (size/max/drops/flushes); Total output drops: 0
  Queueing strategy: fifo
  Output queue: 0/40 (size/max)
  5 minute input rate 0 bits/sec, 0 packets/sec
  5 minute output rate 0 bits/sec, 0 packets/sec
    3057 packets input, 343314 bytes, 0 no buffer
    Received 2349 broadcasts (0 multicast)
    0 runts, 0 giants, 0 throttles
    0 input errors, 0 CRC, 0 frame, 0 overrun, 0 ignored
    0 watchdog, 1524 multicast, 0 pause input
    0 input packets with dribble condition detected
    13300 packets output, 966304 bytes, 0 underruns
    0 output errors, 0 collisions, 2 interface resets
    0 babbles, 0 late collision, 0 deferred
    0 lost carrier, 0 no carrier, 0 PAUSE output
    0 output buffer failures, 0 output buffers swapped out
FastEthernet0/2 is down, line protocol is down (notconnect)
  Hardware is Fast Ethernet, address is 0015.faac.46c2 (bia
0015.faac.46c2)
  MTU 1500 bytes, BW 100000 Kbit, DLY 100 usec,
    reliability 255/255, txload 1/255, rxload 1/255
  Encapsulation ARPA, loopback not set
  Keepalive set (10 sec)
  Auto-duplex, Auto-speed, media type is 100BaseTX
  input flow-control is unsupported output flow-control is unsupported
  ARP type: ARPA, ARP Timeout 04:00:00
  Last input never, output 02:16:04, output hang never
  Last clearing of "show interface" counters never
  Input queue: 0/75/0/0 (size/max/drops/flushes); Total output drops: 0
  Queueing strategy: fifo
```

```
Output queue: 0/40 (size/max)
5 minute input rate 0 bits/sec, 0 packets/sec
5 minute output rate 0 bits/sec, 0 packets/sec
  1 packets input, 64 bytes, 0 no buffer
  Received 0 broadcasts (0 multicast)
  0 runts, 0 giants, 0 throttles
  0 input errors, 0 CRC, 0 frame, 0 overrun, 0 ignored
  0 watchdog, 0 multicast, 0 pause input
  0 input packets with dribble condition detected
  1 packets output, 64 bytes, 0 underruns
  0 output errors, 0 collisions, 2 interface resets
  0 babbles, 0 late collision, 0 deferred
  0 lost carrier, 0 no carrier, 0 PAUSE output
  0 output buffer failures, 0 output buffers swapped out
FastEthernet0/3 is down, line protocol is down (notconnect)
  Hardware is Fast Ethernet, address is 0015.faac.46c3 (bia
0015.faac.46c3)
  MTU 1500 bytes, BW 100000 Kbit, DLY 100 usec,
    reliability 255/255, txload 1/255, rxload 1/255
  Encapsulation ARPA, loopback not set
  Keepalive set (10 sec)
  Auto-duplex, Auto-speed, media type is 100BaseTX
  input flow-control is unsupported output flow-control is unsupported
  ARP type: ARPA, ARP Timeout 04:00:00
  Last input never, output 02:16:06, output hang never
  Last clearing of "show interface" counters never
  Input queue: 0/75/0/0 (size/max/drops/flushes); Total output drops: 0
  Queueing strategy: fifo
  Output queue: 0/40 (size/max)
  5 minute input rate 0 bits/sec, 0 packets/sec
  5 minute output rate 0 bits/sec, 0 packets/sec
    1 packets input, 64 bytes, 0 no buffer
    Received 0 broadcasts (0 multicast)
    0 runts, 0 giants, 0 throttles
    0 input errors, 0 CRC, 0 frame, 0 overrun, 0 ignored
    0 watchdog, 0 multicast, 0 pause input
    0 input packets with dribble condition detected
    1 packets output, 64 bytes, 0 underruns
    0 output errors, 0 collisions, 2 interface resets
    0 babbles, 0 late collision, 0 deferred
    0 lost carrier, 0 no carrier, 0 PAUSE output
    0 output buffer failures, 0 output buffers swapped out
FastEthernet0/4 is down, line protocol is down (notconnect)
  Hardware is Fast Ethernet, address is 0015.faac.46c4 (bia
0015.faac.46c4)
  MTU 1500 bytes, BW 100000 Kbit, DLY 100 usec,
    reliability 255/255, txload 1/255, rxload 1/255
  Encapsulation ARPA, loopback not set
  Keepalive set (10 sec)
  Auto-duplex, Auto-speed, media type is 100BaseTX
  input flow-control is unsupported output flow-control is unsupported
  ARP type: ARPA, ARP Timeout 04:00:00
  Last input never, output 02:16:07, output hang never
  Last clearing of "show interface" counters never
```

```
Input queue: 0/75/0/0 (size/max/drops/flushes); Total output drops: 0
Queueing strategy: fifo
Output queue: 0/40 (size/max)
5 minute input rate 0 bits/sec, 0 packets/sec
5 minute output rate 0 bits/sec, 0 packets/sec
  1 packets input, 64 bytes, 0 no buffer
  Received 0 broadcasts (0 multicast)
  0 runts, 0 giants, 0 throttles
  0 input errors, 0 CRC, 0 frame, 0 overrun, 0 ignored
  0 watchdog, 0 multicast, 0 pause input
  0 input packets with dribble condition detected
  1 packets output, 64 bytes, 0 underruns
  0 output errors, 0 collisions, 2 interface resets
  0 babbles, 0 late collision, 0 deferred
  0 lost carrier, 0 no carrier, 0 PAUSE output
  0 output buffer failures, 0 output buffers swapped out
FastEthernet0/5 is down, line protocol is down (notconnect)
  Hardware is Fast Ethernet, address is 0015.faac.46c5 (bia
0015.faac.46c5)
  MTU 1500 bytes, BW 100000 Kbit, DLY 100 usec,
    reliability 255/255, txload 1/255, rxload 1/255
  Encapsulation ARPA, loopback not set
  Keepalive set (10 sec)
  Auto-duplex, Auto-speed, media type is 100BaseTX
  input flow-control is unsupported output flow-control is unsupported
  ARP type: ARPA, ARP Timeout 04:00:00
  Last input never, output 02:16:09, output hang never
  Last clearing of "show interface" counters never
  Input queue: 0/75/0/0 (size/max/drops/flushes); Total output drops: 0
  Queueing strategy: fifo
  Output queue: 0/40 (size/max)
  5 minute input rate 0 bits/sec, 0 packets/sec
  5 minute output rate 0 bits/sec, 0 packets/sec
    1 packets input, 64 bytes, 0 no buffer
    Received 0 broadcasts (0 multicast)
    0 runts, 0 giants, 0 throttles
    0 input errors, 0 CRC, 0 frame, 0 overrun, 0 ignored
    0 watchdog, 0 multicast, 0 pause input
    0 input packets with dribble condition detected
    1 packets output, 64 bytes, 0 underruns
    0 output errors, 0 collisions, 2 interface resets
    0 babbles, 0 late collision, 0 deferred
    0 lost carrier, 0 no carrier, 0 PAUSE output
    0 output buffer failures, 0 output buffers swapped out
FastEthernet0/6 is down, line protocol is down (notconnect)
  Hardware is Fast Ethernet, address is 0015.faac.46c6 (bia
0015.faac.46c6)
  MTU 1500 bytes, BW 100000 Kbit, DLY 100 usec,
    reliability 255/255, txload 1/255, rxload 1/255
  Encapsulation ARPA, loopback not set
  Keepalive set (10 sec)
  Auto-duplex, Auto-speed, media type is 100BaseTX
  input flow-control is unsupported output flow-control is unsupported
  ARP type: ARPA, ARP Timeout 04:00:00
```

```
Last input never, output 02:16:11, output hang never
Last clearing of "show interface" counters never
Input queue: 0/75/0/0 (size/max/drops/flushes); Total output drops: 0
Queueing strategy: fifo
Output queue: 0/40 (size/max)
5 minute input rate 0 bits/sec, 0 packets/sec
5 minute output rate 0 bits/sec, 0 packets/sec
  1 packets input, 64 bytes, 0 no buffer
  Received 0 broadcasts (0 multicast)
  0 runts, 0 giants, 0 throttles
  0 input errors, 0 CRC, 0 frame, 0 overrun, 0 ignored
  0 watchdog, 0 multicast, 0 pause input
  0 input packets with dribble condition detected
  1 packets output, 64 bytes, 0 underruns
  0 output errors, 0 collisions, 2 interface resets
  0 babbles, 0 late collision, 0 deferred
  0 lost carrier, 0 no carrier, 0 PAUSE output
  0 output buffer failures, 0 output buffers swapped out
FastEthernet0/7 is down, line protocol is down (notconnect)
  Hardware is Fast Ethernet, address is 0015.faac.46c7 (bia
0015.faac.46c7)
  MTU 1500 bytes, BW 100000 Kbit, DLY 100 usec,
    reliability 255/255, txload 1/255, rxload 1/255
  Encapsulation ARPA, loopback not set
  Keepalive set (10 sec)
  Auto-duplex, Auto-speed, media type is 100BaseTX
  input flow-control is unsupported output flow-control is unsupported
  ARP type: ARPA, ARP Timeout 04:00:00
  Last input never, output 02:16:12, output hang never
  Last clearing of "show interface" counters never
  Input queue: 0/75/0/0 (size/max/drops/flushes); Total output drops: 0
  Queueing strategy: fifo
  Output queue: 0/40 (size/max)
  5 minute input rate 0 bits/sec, 0 packets/sec
  5 minute output rate 0 bits/sec, 0 packets/sec
    1 packets input, 64 bytes, 0 no buffer
    Received 0 broadcasts (0 multicast)
    0 runts, 0 giants, 0 throttles
    0 input errors, 0 CRC, 0 frame, 0 overrun, 0 ignored
    0 watchdog, 0 multicast, 0 pause input
    0 input packets with dribble condition detected
    1 packets output, 64 bytes, 0 underruns
    0 output errors, 0 collisions, 2 interface resets
    0 babbles, 0 late collision, 0 deferred
    0 lost carrier, 0 no carrier, 0 PAUSE output
    0 output buffer failures, 0 output buffers swapped out
FastEthernet0/8 is down, line protocol is down (notconnect)
  Hardware is Fast Ethernet, address is 0015.faac.46c8 (bia
0015.faac.46c8)
  MTU 1500 bytes, BW 100000 Kbit, DLY 100 usec,
    reliability 255/255, txload 1/255, rxload 1/255
  Encapsulation ARPA, loopback not set
  Keepalive set (10 sec)
  Auto-duplex, Auto-speed, media type is 100BaseTX
```

```
input flow-control is unsupported output flow-control is unsupported
ARP type: ARPA, ARP Timeout 04:00:00
Last input never, output 02:16:14, output hang never
Last clearing of "show interface" counters never
Input queue: 0/75/0/0 (size/max/drops/flushes); Total output drops: 0
Queueing strategy: fifo
Output queue: 0/40 (size/max)
5 minute input rate 0 bits/sec, 0 packets/sec
5 minute output rate 0 bits/sec, 0 packets/sec
  1 packets input, 64 bytes, 0 no buffer
  Received 0 broadcasts (0 multicast)
  0 runts, 0 giants, 0 throttles
  0 input errors, 0 CRC, 0 frame, 0 overrun, 0 ignored
  0 watchdog, 0 multicast, 0 pause input
  0 input packets with dribble condition detected
  1 packets output, 64 bytes, 0 underruns
  0 output errors, 0 collisions, 2 interface resets
  0 babbles, 0 late collision, 0 deferred
  0 lost carrier, 0 no carrier, 0 PAUSE output
  0 output buffer failures, 0 output buffers swapped out
FastEthernet0/9 is down, line protocol is down (notconnect)
  Hardware is Fast Ethernet, address is 0015.faac.46c9 (bia
0015.faac.46c9)
  MTU 1500 bytes, BW 100000 Kbit, DLY 100 usec,
    reliability 255/255, txload 1/255, rxload 1/255
  Encapsulation ARPA, loopback not set
  Keepalive set (10 sec)
  Auto-duplex, Auto-speed, media type is 100BaseTX
input flow-control is unsupported output flow-control is unsupported
ARP type: ARPA, ARP Timeout 04:00:00
Last input never, output 02:16:16, output hang never
Last clearing of "show interface" counters never
Input queue: 0/75/0/0 (size/max/drops/flushes); Total output drops: 0
Queueing strategy: fifo
Output queue: 0/40 (size/max)
5 minute input rate 0 bits/sec, 0 packets/sec
5 minute output rate 0 bits/sec, 0 packets/sec
  1 packets input, 64 bytes, 0 no buffer
  Received 0 broadcasts (0 multicast)
  0 runts, 0 giants, 0 throttles
  0 input errors, 0 CRC, 0 frame, 0 overrun, 0 ignored
  0 watchdog, 0 multicast, 0 pause input
  0 input packets with dribble condition detected
  1 packets output, 64 bytes, 0 underruns
  0 output errors, 0 collisions, 2 interface resets
  0 babbles, 0 late collision, 0 deferred
  0 lost carrier, 0 no carrier, 0 PAUSE output
  0 output buffer failures, 0 output buffers swapped out
FastEthernet0/10 is down, line protocol is down (notconnect)
  Hardware is Fast Ethernet, address is 0015.faac.46ca (bia
0015.faac.46ca)
  MTU 1500 bytes, BW 100000 Kbit, DLY 100 usec,
    reliability 255/255, txload 1/255, rxload 1/255
  Encapsulation ARPA, loopback not set
```

```
Keepalive set (10 sec)
Auto-duplex, Auto-speed, media type is 100BaseTX
input flow-control is unsupported output flow-control is unsupported
ARP type: ARPA, ARP Timeout 04:00:00
Last input never, output 02:16:17, output hang never
Last clearing of "show interface" counters never
Input queue: 0/75/0/0 (size/max/drops/flushes); Total output drops: 0
Queueing strategy: fifo
Output queue: 0/40 (size/max)
5 minute input rate 0 bits/sec, 0 packets/sec
5 minute output rate 0 bits/sec, 0 packets/sec
  1 packets input, 64 bytes, 0 no buffer
  Received 0 broadcasts (0 multicast)
  0 runts, 0 giants, 0 throttles
  0 input errors, 0 CRC, 0 frame, 0 overrun, 0 ignored
  0 watchdog, 0 multicast, 0 pause input
  0 input packets with dribble condition detected
  1 packets output, 64 bytes, 0 underruns
  0 output errors, 0 collisions, 2 interface resets
  0 babbles, 0 late collision, 0 deferred
  0 lost carrier, 0 no carrier, 0 PAUSE output
  0 output buffer failures, 0 output buffers swapped out
FastEthernet0/11 is down, line protocol is down (notconnect)
  Hardware is Fast Ethernet, address is 0015.faac.46cb (bia
0015.faac.46cb)
  MTU 1500 bytes, BW 100000 Kbit, DLY 100 usec,
    reliability 255/255, txload 1/255, rxload 1/255
  Encapsulation ARPA, loopback not set
  Keepalive set (10 sec)
  Auto-duplex, Auto-speed, media type is 100BaseTX
  input flow-control is unsupported output flow-control is unsupported
  ARP type: ARPA, ARP Timeout 04:00:00
  Last input never, output 02:16:19, output hang never
  Last clearing of "show interface" counters never
  Input queue: 0/75/0/0 (size/max/drops/flushes); Total output drops: 0
  Queueing strategy: fifo
  Output queue: 0/40 (size/max)
  5 minute input rate 0 bits/sec, 0 packets/sec
  5 minute output rate 0 bits/sec, 0 packets/sec
    1 packets input, 64 bytes, 0 no buffer
    Received 0 broadcasts (0 multicast)
    0 runts, 0 giants, 0 throttles
    0 input errors, 0 CRC, 0 frame, 0 overrun, 0 ignored
    0 watchdog, 0 multicast, 0 pause input
    0 input packets with dribble condition detected
    1 packets output, 64 bytes, 0 underruns
    0 output errors, 0 collisions, 2 interface resets
    0 babbles, 0 late collision, 0 deferred
    0 lost carrier, 0 no carrier, 0 PAUSE output
    0 output buffer failures, 0 output buffers swapped out
FastEthernet0/12 is down, line protocol is down (notconnect)
  Hardware is Fast Ethernet, address is 0015.faac.46cc (bia
0015.faac.46cc)
  MTU 1500 bytes, BW 100000 Kbit, DLY 100 usec,
```



```
    reliability 255/255, txload 1/255, rxload 1/255
Encapsulation ARPA, loopback not set
Keepalive set (10 sec)
Auto-duplex, Auto-speed, media type is 100BaseTX
input flow-control is unsupported output flow-control is unsupported
ARP type: ARPA, ARP Timeout 04:00:00
Last input never, output 02:16:20, output hang never
Last clearing of "show interface" counters never
Input queue: 0/75/0/0 (size/max/drops/flushes); Total output drops: 0
Queueing strategy: fifo
Output queue: 0/40 (size/max)
5 minute input rate 0 bits/sec, 0 packets/sec
5 minute output rate 0 bits/sec, 0 packets/sec
  1 packets input, 64 bytes, 0 no buffer
  Received 0 broadcasts (0 multicast)
  0 runts, 0 giants, 0 throttles
  0 input errors, 0 CRC, 0 frame, 0 overrun, 0 ignored
  0 watchdog, 0 multicast, 0 pause input
  0 input packets with dribble condition detected
  1 packets output, 64 bytes, 0 underruns
  0 output errors, 0 collisions, 2 interface resets
  0 babbles, 0 late collision, 0 deferred
  0 lost carrier, 0 no carrier, 0 PAUSE output
  0 output buffer failures, 0 output buffers swapped out
FastEthernet0/13 is down, line protocol is down (notconnect)
  Hardware is Fast Ethernet, address is 0015.faac.46cd (bia
0015.faac.46cd)
  MTU 1500 bytes, BW 100000 Kbit, DLY 100 usec,
    reliability 255/255, txload 1/255, rxload 1/255
Encapsulation ARPA, loopback not set
Keepalive set (10 sec)
Auto-duplex, Auto-speed, media type is 100BaseTX
input flow-control is unsupported output flow-control is unsupported
ARP type: ARPA, ARP Timeout 04:00:00
Last input never, output 02:16:22, output hang never
Last clearing of "show interface" counters never
Input queue: 0/75/0/0 (size/max/drops/flushes); Total output drops: 0
Queueing strategy: fifo
Output queue: 0/40 (size/max)
5 minute input rate 0 bits/sec, 0 packets/sec
5 minute output rate 0 bits/sec, 0 packets/sec
  1 packets input, 64 bytes, 0 no buffer
  Received 0 broadcasts (0 multicast)
  0 runts, 0 giants, 0 throttles
  0 input errors, 0 CRC, 0 frame, 0 overrun, 0 ignored
  0 watchdog, 0 multicast, 0 pause input
  0 input packets with dribble condition detected
  1 packets output, 64 bytes, 0 underruns
  0 output errors, 0 collisions, 2 interface resets
  0 babbles, 0 late collision, 0 deferred
  0 lost carrier, 0 no carrier, 0 PAUSE output
  0 output buffer failures, 0 output buffers swapped out
FastEthernet0/14 is down, line protocol is down (notconnect)
```

Hardware is Fast Ethernet, address is 0015.faac.46ce (bia 0015.faac.46ce)
MTU 1500 bytes, BW 100000 Kbit, DLY 100 usec,
reliability 255/255, txload 1/255, rxload 1/255
Encapsulation ARPA, loopback not set
Keepalive set (10 sec)
Auto-duplex, Auto-speed, media type is 100BaseTX
input flow-control is unsupported output flow-control is unsupported
ARP type: ARPA, ARP Timeout 04:00:00
Last input never, output 02:16:23, output hang never
Last clearing of "show interface" counters never
Input queue: 0/75/0/0 (size/max/drops/flushes); Total output drops: 0
Queueing strategy: fifo
Output queue: 0/40 (size/max)
5 minute input rate 0 bits/sec, 0 packets/sec
5 minute output rate 0 bits/sec, 0 packets/sec
1 packets input, 64 bytes, 0 no buffer
Received 0 broadcasts (0 multicast)
0 runts, 0 giants, 0 throttles
0 input errors, 0 CRC, 0 frame, 0 overrun, 0 ignored
0 watchdog, 0 multicast, 0 pause input
0 input packets with dribble condition detected
1 packets output, 64 bytes, 0 underruns
0 output errors, 0 collisions, 2 interface resets
0 babbles, 0 late collision, 0 deferred
0 lost carrier, 0 no carrier, 0 PAUSE output
0 output buffer failures, 0 output buffers swapped out
FastEthernet0/15 is down, line protocol is down (notconnect)
Hardware is Fast Ethernet, address is 0015.faac.46cf (bia 0015.faac.46cf)

MTU 1500 bytes, BW 100000 Kbit, DLY 100 usec,
reliability 255/255, txload 1/255, rxload 1/255
Encapsulation ARPA, loopback not set
Keepalive set (10 sec)
Auto-duplex, Auto-speed, media type is 100BaseTX
input flow-control is unsupported output flow-control is unsupported
ARP type: ARPA, ARP Timeout 04:00:00
Last input never, output 02:16:24, output hang never
Last clearing of "show interface" counters never
Input queue: 0/75/0/0 (size/max/drops/flushes); Total output drops: 0
Queueing strategy: fifo
Output queue: 0/40 (size/max)
5 minute input rate 0 bits/sec, 0 packets/sec
5 minute output rate 0 bits/sec, 0 packets/sec
1 packets input, 64 bytes, 0 no buffer
Received 0 broadcasts (0 multicast)
0 runts, 0 giants, 0 throttles
0 input errors, 0 CRC, 0 frame, 0 overrun, 0 ignored
0 watchdog, 0 multicast, 0 pause input
0 input packets with dribble condition detected
1 packets output, 64 bytes, 0 underruns
0 output errors, 0 collisions, 2 interface resets
0 babbles, 0 late collision, 0 deferred
0 lost carrier, 0 no carrier, 0 PAUSE output

0 output buffer failures, 0 output buffers swapped out
FastEthernet0/16 is up, line protocol is up (connected)
Hardware is Fast Ethernet, address is 0015.faac.46d0 (bia 0015.faac.46d0)
MTU 1500 bytes, BW 100000 Kbit, DLY 100 usec,
reliability 255/255, txload 1/255, rxload 1/255
Encapsulation ARPA, loopback not set
Keepalive set (10 sec)
Full-duplex, 100Mb/s, media type is 100BaseTX
input flow-control is unsupported output flow-control is unsupported
ARP type: ARPA, ARP Timeout 04:00:00
Last input 00:00:00, output 00:00:01, output hang never
Last clearing of "show interface" counters never
Input queue: 0/75/0/0 (size/max/drops/flushes); Total output drops: 0
Queueing strategy: fifo
Output queue: 0/40 (size/max)
5 minute input rate 1000 bits/sec, 1 packets/sec
5 minute output rate 0 bits/sec, 0 packets/sec
5518 packets input, 468342 bytes, 0 no buffer
Received 4620 broadcasts (0 multicast)
0 runts, 0 giants, 0 throttles
0 input errors, 0 CRC, 0 frame, 0 overrun, 0 ignored
0 watchdog, 4608 multicast, 0 pause input
0 input packets with dribble condition detected
15568 packets output, 1235143 bytes, 0 underruns
0 output errors, 0 collisions, 2 interface resets
0 babbles, 0 late collision, 0 deferred
0 lost carrier, 0 no carrier, 0 PAUSE output
0 output buffer failures, 0 output buffers swapped out

FastEthernet0/17 is up, line protocol is up (connected)
Hardware is Fast Ethernet, address is 0015.faac.46d1 (bia 0015.faac.46d1)
MTU 1500 bytes, BW 100000 Kbit, DLY 100 usec,
reliability 255/255, txload 1/255, rxload 1/255
Encapsulation ARPA, loopback not set
Keepalive set (10 sec)
Full-duplex, 100Mb/s, media type is 100BaseTX
input flow-control is unsupported output flow-control is unsupported
ARP type: ARPA, ARP Timeout 04:00:00
Last input 00:00:01, output 00:00:00, output hang never
Last clearing of "show interface" counters never
Input queue: 0/75/0/0 (size/max/drops/flushes); Total output drops: 0
Queueing strategy: fifo
Output queue: 0/40 (size/max)
5 minute input rate 0 bits/sec, 0 packets/sec
5 minute output rate 0 bits/sec, 0 packets/sec
1612 packets input, 171020 bytes, 0 no buffer
Received 703 broadcasts (0 multicast)
0 runts, 0 giants, 0 throttles
0 input errors, 0 CRC, 0 frame, 0 overrun, 0 ignored
0 watchdog, 703 multicast, 0 pause input
0 input packets with dribble condition detected
1668 packets output, 179818 bytes, 0 underruns
0 output errors, 0 collisions, 2 interface resets

```
    0 babbles, 0 late collision, 0 deferred
    0 lost carrier, 0 no carrier, 0 PAUSE output
    0 output buffer failures, 0 output buffers swapped out
FastEthernet0/18 is up, line protocol is up (connected)
  Hardware is Fast Ethernet, address is 0015.faac.46d2 (bia
0015.faac.46d2)
  MTU 1500 bytes, BW 100000 Kbit, DLY 100 usec,
    reliability 255/255, txload 1/255, rxload 1/255
  Encapsulation ARPA, loopback not set
  Keepalive set (10 sec)
  Full-duplex, 100Mb/s, media type is 100BaseTX
  input flow-control is unsupported output flow-control is unsupported
  ARP type: ARPA, ARP Timeout 04:00:00
  Last input 00:00:02, output 00:00:04, output hang never
  Last clearing of "show interface" counters never
  Input queue: 0/75/0/0 (size/max/drops/flushes); Total output drops: 0
  Queueing strategy: fifo
  Output queue: 0/40 (size/max)
  5 minute input rate 0 bits/sec, 0 packets/sec
  5 minute output rate 0 bits/sec, 0 packets/sec
    1513 packets input, 162634 bytes, 0 no buffer
    Received 707 broadcasts (0 multicast)
    0 runts, 0 giants, 0 throttles
    0 input errors, 0 CRC, 0 frame, 0 overrun, 0 ignored
    0 watchdog, 707 multicast, 0 pause input
    0 input packets with dribble condition detected
    1657 packets output, 178704 bytes, 0 underruns
    0 output errors, 0 collisions, 2 interface resets
    0 babbles, 0 late collision, 0 deferred
    0 lost carrier, 0 no carrier, 0 PAUSE output
    0 output buffer failures, 0 output buffers swapped out
FastEthernet0/19 is up, line protocol is up (connected)
  Hardware is Fast Ethernet, address is 0015.faac.46d3 (bia
0015.faac.46d3)
  MTU 1500 bytes, BW 100000 Kbit, DLY 100 usec,
    reliability 255/255, txload 1/255, rxload 1/255
  Encapsulation ARPA, loopback not set
  Keepalive set (10 sec)
  Full-duplex, 100Mb/s, media type is 100BaseTX
  input flow-control is unsupported output flow-control is unsupported
  ARP type: ARPA, ARP Timeout 04:00:00
  Last input 00:00:00, output 00:00:00, output hang never
  Last clearing of "show interface" counters never
  Input queue: 0/75/0/0 (size/max/drops/flushes); Total output drops: 0
  Queueing strategy: fifo
  Output queue: 0/40 (size/max)
  5 minute input rate 0 bits/sec, 0 packets/sec
  5 minute output rate 0 bits/sec, 0 packets/sec
    6896 packets input, 573091 bytes, 0 no buffer
    Received 5605 broadcasts (0 multicast)
    0 runts, 0 giants, 0 throttles
    0 input errors, 0 CRC, 0 frame, 0 overrun, 0 ignored
    0 watchdog, 5585 multicast, 0 pause input
    0 input packets with dribble condition detected
```

```
6654 packets output, 589977 bytes, 0 underruns
0 output errors, 0 collisions, 2 interface resets
0 babbles, 0 late collision, 0 deferred
0 lost carrier, 0 no carrier, 0 PAUSE output
0 output buffer failures, 0 output buffers swapped out
FastEthernet0/20 is up, line protocol is up (connected)
Hardware is Fast Ethernet, address is 0015.faac.46d4 (bia
0015.faac.46d4)
MTU 1500 bytes, BW 100000 Kbit, DLY 100 usec,
  reliability 255/255, txload 1/255, rxload 1/255
Encapsulation ARPA, loopback not set
Keepalive set (10 sec)
Full-duplex, 100Mb/s, media type is 100BaseTX
input flow-control is unsupported output flow-control is unsupported
ARP type: ARPA, ARP Timeout 04:00:00
Last input 00:00:02, output 00:00:02, output hang never
Last clearing of "show interface" counters never
Input queue: 0/75/0/0 (size/max/drops/flushes); Total output drops: 0
Queueing strategy: fifo
Output queue: 0/40 (size/max)
5 minute input rate 0 bits/sec, 0 packets/sec
5 minute output rate 0 bits/sec, 0 packets/sec
  9663 packets input, 747848 bytes, 0 no buffer
  Received 8836 broadcasts (0 multicast)
  0 runts, 0 giants, 0 throttles
  0 input errors, 0 CRC, 0 frame, 0 overrun, 0 ignored
  0 watchdog, 8837 multicast, 0 pause input
  0 input packets with dribble condition detected
  1576 packets output, 170967 bytes, 0 underruns
  0 output errors, 0 collisions, 2 interface resets
  0 babbles, 0 late collision, 0 deferred
  0 lost carrier, 0 no carrier, 0 PAUSE output
  0 output buffer failures, 0 output buffers swapped out
FastEthernet0/21 is up, line protocol is up (connected)
Hardware is Fast Ethernet, address is 0015.faac.46d5 (bia
0015.faac.46d5)
MTU 1500 bytes, BW 100000 Kbit, DLY 100 usec,
  reliability 255/255, txload 1/255, rxload 1/255
Encapsulation ARPA, loopback not set
Keepalive set (10 sec)
Full-duplex, 100Mb/s, media type is 100BaseTX
input flow-control is unsupported output flow-control is unsupported
ARP type: ARPA, ARP Timeout 04:00:00
Last input 00:00:01, output 00:00:03, output hang never
Last clearing of "show interface" counters never
Input queue: 0/75/0/0 (size/max/drops/flushes); Total output drops: 0
Queueing strategy: fifo
Output queue: 0/40 (size/max)
5 minute input rate 0 bits/sec, 0 packets/sec
5 minute output rate 0 bits/sec, 0 packets/sec
  1642 packets input, 172032 bytes, 0 no buffer
  Received 706 broadcasts (0 multicast)
  0 runts, 0 giants, 0 throttles
  0 input errors, 0 CRC, 0 frame, 0 overrun, 0 ignored
```

```
0 watchdog, 705 multicast, 0 pause input
0 input packets with dribble condition detected
2255 packets output, 232605 bytes, 0 underruns
0 output errors, 0 collisions, 2 interface resets
0 babbles, 0 late collision, 0 deferred
0 lost carrier, 0 no carrier, 0 PAUSE output
0 output buffer failures, 0 output buffers swapped out
FastEthernet0/22 is administratively down, line protocol is down
(disabled)
Hardware is Fast Ethernet, address is 0015.faac.46d6 (bia
0015.faac.46d6)
MTU 1500 bytes, BW 100000 Kbit, DLY 100 usec,
    reliability 255/255, txload 1/255, rxload 1/255
Encapsulation ARPA, loopback not set
Keepalive set (10 sec)
Auto-duplex, Auto-speed, media type is 100BaseTX
input flow-control is unsupported output flow-control is unsupported
ARP type: ARPA, ARP Timeout 04:00:00
Last input never, output 02:16:36, output hang never
Last clearing of "show interface" counters never
Input queue: 0/75/0/0 (size/max/drops/flushes); Total output drops: 0
Queueing strategy: fifo
Output queue: 0/40 (size/max)
5 minute input rate 0 bits/sec, 0 packets/sec
5 minute output rate 0 bits/sec, 0 packets/sec
    1 packets input, 64 bytes, 0 no buffer
Received 0 broadcasts (0 multicast)
    0 runts, 0 giants, 0 throttles
    0 input errors, 0 CRC, 0 frame, 0 overrun, 0 ignored
    0 watchdog, 0 multicast, 0 pause input
    0 input packets with dribble condition detected
    1 packets output, 64 bytes, 0 underruns
    0 output errors, 0 collisions, 2 interface resets
    0 babbles, 0 late collision, 0 deferred
    0 lost carrier, 0 no carrier, 0 PAUSE output
    0 output buffer failures, 0 output buffers swapped out
FastEthernet0/23 is administratively down, line protocol is down
(disabled)
Hardware is Fast Ethernet, address is 0015.faac.46d7 (bia
0015.faac.46d7)
MTU 1500 bytes, BW 100000 Kbit, DLY 100 usec,
    reliability 255/255, txload 1/255, rxload 1/255
Encapsulation ARPA, loopback not set
Keepalive set (10 sec)
Auto-duplex, Auto-speed, media type is 100BaseTX
input flow-control is unsupported output flow-control is unsupported
ARP type: ARPA, ARP Timeout 04:00:00
Last input never, output 02:16:37, output hang never
Last clearing of "show interface" counters never
Input queue: 0/75/0/0 (size/max/drops/flushes); Total output drops: 0
Queueing strategy: fifo
Output queue: 0/40 (size/max)
5 minute input rate 0 bits/sec, 0 packets/sec
5 minute output rate 0 bits/sec, 0 packets/sec
```

```
1 packets input, 64 bytes, 0 no buffer
Received 0 broadcasts (0 multicast)
0 runts, 0 giants, 0 throttles
0 input errors, 0 CRC, 0 frame, 0 overrun, 0 ignored
0 watchdog, 0 multicast, 0 pause input
0 input packets with dribble condition detected
1 packets output, 64 bytes, 0 underruns
0 output errors, 0 collisions, 2 interface resets
0 babbles, 0 late collision, 0 deferred
0 lost carrier, 0 no carrier, 0 PAUSE output
0 output buffer failures, 0 output buffers swapped out
FastEthernet0/24 is administratively down, line protocol is down
(disabled)
  Hardware is Fast Ethernet, address is 0015.faac.46d8 (bia
0015.faac.46d8)
  MTU 1500 bytes, BW 100000 Kbit, DLY 100 usec,
    reliability 255/255, txload 1/255, rxload 1/255
  Encapsulation ARPA, loopback not set
  Keepalive set (10 sec)
  Auto-duplex, Auto-speed, media type is 100BaseTX
  input flow-control is unsupported output flow-control is unsupported
  ARP type: ARPA, ARP Timeout 04:00:00
  Last input never, output 02:16:39, output hang never
  Last clearing of "show interface" counters never
  Input queue: 0/75/0/0 (size/max/drops/flushes); Total output drops: 0
  Queueing strategy: fifo
  Output queue: 0/40 (size/max)
  5 minute input rate 0 bits/sec, 0 packets/sec
  5 minute output rate 0 bits/sec, 0 packets/sec
    1 packets input, 64 bytes, 0 no buffer
    Received 0 broadcasts (0 multicast)
    0 runts, 0 giants, 0 throttles
    0 input errors, 0 CRC, 0 frame, 0 overrun, 0 ignored
    0 watchdog, 0 multicast, 0 pause input
    0 input packets with dribble condition detected
    1 packets output, 64 bytes, 0 underruns
    0 output errors, 0 collisions, 2 interface resets
    0 babbles, 0 late collision, 0 deferred
    0 lost carrier, 0 no carrier, 0 PAUSE output
    0 output buffer failures, 0 output buffers swapped out
Port-channel1 is up, line protocol is up (connected)
  Hardware is EtherChannel, address is 0015.faac.46d5 (bia
0015.faac.46d5)
  MTU 1500 bytes, BW 300000 Kbit, DLY 1000 usec,
    reliability 255/255, txload 1/255, rxload 1/255
  Encapsulation ARPA, loopback not set
  Full-duplex, 100Mb/s, media type is unknown media type
  input flow-control is off, output flow-control is off
  Members in this channel: Fa0/19 Fa0/20 Fa0/21
  ARP type: ARPA, ARP Timeout 04:00:00
  Last input 00:00:00, output 00:06:15, output hang never
  Last clearing of "show interface" counters never
  Input queue: 0/75/0/0 (size/max/drops/flushes); Total output drops: 0
  Queueing strategy: fifo
```

```
Output queue: 0/40 (size/max)
5 minute input rate 1000 bits/sec, 2 packets/sec
5 minute output rate 0 bits/sec, 0 packets/sec
 18198 packets input, 1493223 bytes, 0 no buffer
Received 15148 broadcasts (0 multicast)
 0 runts, 0 giants, 0 throttles
 0 input errors, 0 CRC, 0 frame, 0 overrun, 0 ignored
 0 watchdog, 15126 multicast, 0 pause input
 0 input packets with dribble condition detected
10299 packets output, 973156 bytes, 0 underruns
 0 output errors, 0 collisions, 1 interface resets
 0 babbles, 0 late collision, 0 deferred
 0 lost carrier, 0 no carrier, 0 PAUSE output
 0 output buffer failures, 0 output buffers swapped out
Port-channel2 is up, line protocol is up (connected)
Hardware is EtherChannel, address is 0015.faac.46d1 (bia
0015.faac.46d1)
MTU 1500 bytes, BW 300000 Kbit, DLY 1000 usec,
  reliability 255/255, txload 1/255, rxload 1/255
Encapsulation ARPA, loopback not set
Full-duplex, 100Mb/s, media type is unknown media type
input flow-control is off, output flow-control is off
Members in this channel: Fa0/16 Fa0/17 Fa0/18
ARP type: ARPA, ARP Timeout 04:00:00
Last input 01:45:16, output 00:00:00, output hang never
Last clearing of "show interface" counters never
Input queue: 0/75/0/0 (size/max/drops/flushes); Total output drops: 0
Queueing strategy: fifo
Output queue: 0/40 (size/max)
5 minute input rate 0 bits/sec, 0 packets/sec
5 minute output rate 1000 bits/sec, 1 packets/sec
 8626 packets input, 800118 bytes, 0 no buffer
Received 6013 broadcasts (0 multicast)
 0 runts, 0 giants, 0 throttles
 0 input errors, 0 CRC, 0 frame, 0 overrun, 0 ignored
 0 watchdog, 6002 multicast, 0 pause input
 0 input packets with dribble condition detected
18452 packets output, 1547870 bytes, 0 underruns
 0 output errors, 0 collisions, 1 interface resets
 0 babbles, 0 late collision, 0 deferred
 0 lost carrier, 0 no carrier, 0 PAUSE output
 0 output buffer failures, 0 output buffers swapped out
```

ASW1#


```
ASW1#show interfaces
Vlan1 is administratively down, line protocol is down
  Hardware is CPU Interface, address is 0015.faac.46c0 (bia
0015.faac.46c0)
  MTU 1500 bytes, BW 1000000 Kbit, DLY 10 usec,
    reliability 255/255, txload 1/255, rxload 1/255
  Encapsulation ARPA, loopback not set
  ARP type: ARPA, ARP Timeout 04:00:00
  Last input never, output never, output hang never
  Last clearing of "show interface" counters never
  Input queue: 0/75/0/0 (size/max/drops/flushes); Total output drops: 0
  Queueing strategy: fifo
  Output queue: 0/40 (size/max)
  5 minute input rate 0 bits/sec, 0 packets/sec
  5 minute output rate 0 bits/sec, 0 packets/sec
    0 packets input, 0 bytes, 0 no buffer
  Received 0 broadcasts (0 IP multicast)
    0 runts, 0 giants, 0 throttles
    0 input errors, 0 CRC, 0 frame, 0 overrun, 0 ignored
    0 packets output, 0 bytes, 0 underruns
    0 output errors, 3 interface resets
    0 output buffer failures, 0 output buffers swapped out
```

```
Vlan200 is up, line protocol is up
  Hardware is CPU Interface, address is 0015.faac.46c0 (bia
0015.faac.46c0)
  Internet address is 192.168.1.131/27
  MTU 1500 bytes, BW 1000000 Kbit, DLY 10 usec,
    reliability 255/255, txload 1/255, rxload 1/255
  Encapsulation ARPA, loopback not set
  ARP type: ARPA, ARP Timeout 04:00:00
  Last input 00:06:21, output never, output hang never
  Last clearing of "show interface" counters never
  Input queue: 0/75/0/0 (size/max/drops/flushes); Total output drops: 0
  Queueing strategy: fifo
  Output queue: 0/40 (size/max)
  5 minute input rate 1000 bits/sec, 2 packets/sec
  5 minute output rate 1000 bits/sec, 2 packets/sec
    22003 packets input, 1836624 bytes, 0 no buffer
    Received 2 broadcasts (0 IP multicast)
    0 runts, 0 giants, 0 throttles
    0 input errors, 0 CRC, 0 frame, 0 overrun, 0 ignored
    23522 packets output, 13229049 bytes, 0 underruns
    0 output errors, 2 interface resets
    0 output buffer failures, 0 output buffers swapped out
FastEthernet0/1 is up, line protocol is up (connected)
  Hardware is Fast Ethernet, address is 0015.faac.46c1 (bia
0015.faac.46c1)
  MTU 1500 bytes, BW 100000 Kbit, DLY 100 usec,
    reliability 255/255, txload 1/255, rxload 1/255
  Encapsulation ARPA, loopback not set
  Keepalive set (10 sec)
  Full-duplex, 100Mb/s, media type is 100BaseTX
  input flow-control is unsupported output flow-control is unsupported
  ARP type: ARPA, ARP Timeout 04:00:00
  Last input 00:06:22, output 00:00:00, output hang never
  Last clearing of "show interface" counters never
  Input queue: 0/75/0/0 (size/max/drops/flushes); Total output drops: 0
  Queueing strategy: fifo
  Output queue: 0/40 (size/max)
  5 minute input rate 0 bits/sec, 0 packets/sec
  5 minute output rate 0 bits/sec, 0 packets/sec
    3057 packets input, 343314 bytes, 0 no buffer
    Received 2349 broadcasts (0 multicast)
    0 runts, 0 giants, 0 throttles
    0 input errors, 0 CRC, 0 frame, 0 overrun, 0 ignored
    0 watchdog, 1524 multicast, 0 pause input
    0 input packets with dribble condition detected
    13329 packets output, 968510 bytes, 0 underruns
    0 output errors, 0 collisions, 2 interface resets
    0 babbles, 0 late collision, 0 deferred
    0 lost carrier, 0 no carrier, 0 PAUSE output
    0 output buffer failures, 0 output buffers swapped out
FastEthernet0/2 is down, line protocol is down (notconnect)
  Hardware is Fast Ethernet, address is 0015.faac.46c2 (bia
0015.faac.46c2)
  MTU 1500 bytes, BW 100000 Kbit, DLY 100 usec,
```

```
reliability 255/255, txload 1/255, rxload 1/255
Encapsulation ARPA, loopback not set
Keepalive set (10 sec)
Auto-duplex, Auto-speed, media type is 100BaseTX
input flow-control is unsupported output flow-control is unsupported
ARP type: ARPA, ARP Timeout 04:00:00
Last input never, output 02:16:51, output hang never
Last clearing of "show interface" counters never
Input queue: 0/75/0/0 (size/max/drops/flushes); Total output drops: 0
Queueing strategy: fifo
Output queue: 0/40 (size/max)
5 minute input rate 0 bits/sec, 0 packets/sec
5 minute output rate 0 bits/sec, 0 packets/sec
  1 packets input, 64 bytes, 0 no buffer
  Received 0 broadcasts (0 multicast)
  0 runts, 0 giants, 0 throttles
  0 input errors, 0 CRC, 0 frame, 0 overrun, 0 ignored
  0 watchdog, 0 multicast, 0 pause input
  0 input packets with dribble condition detected
  1 packets output, 64 bytes, 0 underruns
  0 output errors, 0 collisions, 2 interface resets
  0 babbles, 0 late collision, 0 deferred
  0 lost carrier, 0 no carrier, 0 PAUSE output
  0 output buffer failures, 0 output buffers swapped out
FastEthernet0/3 is down, line protocol is down (notconnect)
  Hardware is Fast Ethernet, address is 0015.faac.46c3 (bia
0015.faac.46c3)
  MTU 1500 bytes, BW 100000 Kbit, DLY 100 usec,
  reliability 255/255, txload 1/255, rxload 1/255
Encapsulation ARPA, loopback not set
Keepalive set (10 sec)
Auto-duplex, Auto-speed, media type is 100BaseTX
input flow-control is unsupported output flow-control is unsupported
ARP type: ARPA, ARP Timeout 04:00:00
Last input never, output 02:16:53, output hang never
Last clearing of "show interface" counters never
Input queue: 0/75/0/0 (size/max/drops/flushes); Total output drops: 0
Queueing strategy: fifo
Output queue: 0/40 (size/max)
5 minute input rate 0 bits/sec, 0 packets/sec
5 minute output rate 0 bits/sec, 0 packets/sec
  1 packets input, 64 bytes, 0 no buffer
  Received 0 broadcasts (0 multicast)
  0 runts, 0 giants, 0 throttles
  0 input errors, 0 CRC, 0 frame, 0 overrun, 0 ignored
  0 watchdog, 0 multicast, 0 pause input
  0 input packets with dribble condition detected
  1 packets output, 64 bytes, 0 underruns
  0 output errors, 0 collisions, 2 interface resets
  0 babbles, 0 late collision, 0 deferred
  0 lost carrier, 0 no carrier, 0 PAUSE output
  0 output buffer failures, 0 output buffers swapped out
FastEthernet0/4 is down, line protocol is down (notconnect)
```

```
Hardware is Fast Ethernet, address is 0015.faac.46c4 (bia
0015.faac.46c4)
MTU 1500 bytes, BW 100000 Kbit, DLY 100 usec,
  reliability 255/255, txload 1/255, rxload 1/255
Encapsulation ARPA, loopback not set
Keepalive set (10 sec)
Auto-duplex, Auto-speed, media type is 100BaseTX
input flow-control is unsupported output flow-control is unsupported
ARP type: ARPA, ARP Timeout 04:00:00
Last input never, output 02:16:54, output hang never
Last clearing of "show interface" counters never
Input queue: 0/75/0/0 (size/max/drops/flushes); Total output drops: 0
Queueing strategy: fifo
Output queue: 0/40 (size/max)
5 minute input rate 0 bits/sec, 0 packets/sec
5 minute output rate 0 bits/sec, 0 packets/sec
  1 packets input, 64 bytes, 0 no buffer
  Received 0 broadcasts (0 multicast)
  0 runts, 0 giants, 0 throttles
  0 input errors, 0 CRC, 0 frame, 0 overrun, 0 ignored
  0 watchdog, 0 multicast, 0 pause input
  0 input packets with dribble condition detected
  1 packets output, 64 bytes, 0 underruns
  0 output errors, 0 collisions, 2 interface resets
  0 babbles, 0 late collision, 0 deferred
  0 lost carrier, 0 no carrier, 0 PAUSE output
  0 output buffer failures, 0 output buffers swapped out
FastEthernet0/5 is down, line protocol is down (notconnect)
Hardware is Fast Ethernet, address is 0015.faac.46c5 (bia
0015.faac.46c5)
```

```
MTU 1500 bytes, BW 100000 Kbit, DLY 100 usec,
  reliability 255/255, txload 1/255, rxload 1/255
Encapsulation ARPA, loopback not set
Keepalive set (10 sec)
Auto-duplex, Auto-speed, media type is 100BaseTX
input flow-control is unsupported output flow-control is unsupported
ARP type: ARPA, ARP Timeout 04:00:00
Last input never, output 02:16:56, output hang never
Last clearing of "show interface" counters never
Input queue: 0/75/0/0 (size/max/drops/flushes); Total output drops: 0
Queueing strategy: fifo
Output queue: 0/40 (size/max)
5 minute input rate 0 bits/sec, 0 packets/sec
5 minute output rate 0 bits/sec, 0 packets/sec
  1 packets input, 64 bytes, 0 no buffer
  Received 0 broadcasts (0 multicast)
  0 runts, 0 giants, 0 throttles
  0 input errors, 0 CRC, 0 frame, 0 overrun, 0 ignored
  0 watchdog, 0 multicast, 0 pause input
  0 input packets with dribble condition detected
  1 packets output, 64 bytes, 0 underruns
  0 output errors, 0 collisions, 2 interface resets
  0 babbles, 0 late collision, 0 deferred
  0 lost carrier, 0 no carrier, 0 PAUSE output
```

```
0 output buffer failures, 0 output buffers swapped out
FastEthernet0/6 is down, line protocol is down (notconnect)
Hardware is Fast Ethernet, address is 0015.faac.46c6 (bia
0015.faac.46c6)
MTU 1500 bytes, BW 100000 Kbit, DLY 100 usec,
  reliability 255/255, txload 1/255, rxload 1/255
Encapsulation ARPA, loopback not set
Keepalive set (10 sec)
Auto-duplex, Auto-speed, media type is 100BaseTX
input flow-control is unsupported output flow-control is unsupported
ARP type: ARPA, ARP Timeout 04:00:00
Last input never, output 02:16:57, output hang never
Last clearing of "show interface" counters never
Input queue: 0/75/0/0 (size/max/drops/flushes); Total output drops: 0
Queueing strategy: fifo
Output queue: 0/40 (size/max)
5 minute input rate 0 bits/sec, 0 packets/sec
5 minute output rate 0 bits/sec, 0 packets/sec
  1 packets input, 64 bytes, 0 no buffer
  Received 0 broadcasts (0 multicast)
  0 runts, 0 giants, 0 throttles
  0 input errors, 0 CRC, 0 frame, 0 overrun, 0 ignored
  0 watchdog, 0 multicast, 0 pause input
  0 input packets with dribble condition detected
  1 packets output, 64 bytes, 0 underruns
  0 output errors, 0 collisions, 2 interface resets
  0 babbles, 0 late collision, 0 deferred
  0 lost carrier, 0 no carrier, 0 PAUSE output
  0 output buffer failures, 0 output buffers swapped out
FastEthernet0/7 is down, line protocol is down (notconnect)
Hardware is Fast Ethernet, address is 0015.faac.46c7 (bia
0015.faac.46c7)
MTU 1500 bytes, BW 100000 Kbit, DLY 100 usec,
  reliability 255/255, txload 1/255, rxload 1/255
Encapsulation ARPA, loopback not set
Keepalive set (10 sec)
Auto-duplex, Auto-speed, media type is 100BaseTX
input flow-control is unsupported output flow-control is unsupported
ARP type: ARPA, ARP Timeout 04:00:00
Last input never, output 02:16:58, output hang never
Last clearing of "show interface" counters never
Input queue: 0/75/0/0 (size/max/drops/flushes); Total output drops: 0
Queueing strategy: fifo
Output queue: 0/40 (size/max)
5 minute input rate 0 bits/sec, 0 packets/sec
5 minute output rate 0 bits/sec, 0 packets/sec
  1 packets input, 64 bytes, 0 no buffer
  Received 0 broadcasts (0 multicast)
  0 runts, 0 giants, 0 throttles
  0 input errors, 0 CRC, 0 frame, 0 overrun, 0 ignored
  0 watchdog, 0 multicast, 0 pause input
  0 input packets with dribble condition detected
  1 packets output, 64 bytes, 0 underruns
  0 output errors, 0 collisions, 2 interface resets
```

```
    0 babbles, 0 late collision, 0 deferred
    0 lost carrier, 0 no carrier, 0 PAUSE output
    0 output buffer failures, 0 output buffers swapped out
FastEthernet0/8 is down, line protocol is down (notconnect)
  Hardware is Fast Ethernet, address is 0015.faac.46c8 (bia
0015.faac.46c8)
  MTU 1500 bytes, BW 100000 Kbit, DLY 100 usec,
    reliability 255/255, txload 1/255, rxload 1/255
  Encapsulation ARPA, loopback not set
  Keepalive set (10 sec)
  Auto-duplex, Auto-speed, media type is 100BaseTX
  input flow-control is unsupported output flow-control is unsupported
  ARP type: ARPA, ARP Timeout 04:00:00
  Last input never, output 02:17:00, output hang never
  Last clearing of "show interface" counters never
  Input queue: 0/75/0/0 (size/max/drops/flushes); Total output drops: 0
  Queueing strategy: fifo
  Output queue: 0/40 (size/max)
  5 minute input rate 0 bits/sec, 0 packets/sec
  5 minute output rate 0 bits/sec, 0 packets/sec
    1 packets input, 64 bytes, 0 no buffer
  Received 0 broadcasts (0 multicast)
    0 runts, 0 giants, 0 throttles
    0 input errors, 0 CRC, 0 frame, 0 overrun, 0 ignored
    0 watchdog, 0 multicast, 0 pause input
    0 input packets with dribble condition detected
    1 packets output, 64 bytes, 0 underruns
    0 output errors, 0 collisions, 2 interface resets
    0 babbles, 0 late collision, 0 deferred
    0 lost carrier, 0 no carrier, 0 PAUSE output
    0 output buffer failures, 0 output buffers swapped out
FastEthernet0/9 is down, line protocol is down (notconnect)
  Hardware is Fast Ethernet, address is 0015.faac.46c9 (bia
0015.faac.46c9)
  MTU 1500 bytes, BW 100000 Kbit, DLY 100 usec,
    reliability 255/255, txload 1/255, rxload 1/255
  Encapsulation ARPA, loopback not set
  Keepalive set (10 sec)
  Auto-duplex, Auto-speed, media type is 100BaseTX
  input flow-control is unsupported output flow-control is unsupported
  ARP type: ARPA, ARP Timeout 04:00:00
  Last input never, output 02:17:02, output hang never
  Last clearing of "show interface" counters never
  Input queue: 0/75/0/0 (size/max/drops/flushes); Total output drops: 0
  Queueing strategy: fifo
  Output queue: 0/40 (size/max)
  5 minute input rate 0 bits/sec, 0 packets/sec
  5 minute output rate 0 bits/sec, 0 packets/sec
    1 packets input, 64 bytes, 0 no buffer
  Received 0 broadcasts (0 multicast)
    0 runts, 0 giants, 0 throttles
    0 input errors, 0 CRC, 0 frame, 0 overrun, 0 ignored
    0 watchdog, 0 multicast, 0 pause input
    0 input packets with dribble condition detected
```

```
    1 packets output, 64 bytes, 0 underruns
    0 output errors, 0 collisions, 2 interface resets
    0 babbles, 0 late collision, 0 deferred
    0 lost carrier, 0 no carrier, 0 PAUSE output
    0 output buffer failures, 0 output buffers swapped out
FastEthernet0/10 is down, line protocol is down (notconnect)
  Hardware is Fast Ethernet, address is 0015.faac.46ca (bia
0015.faac.46ca)
  MTU 1500 bytes, BW 100000 Kbit, DLY 100 usec,
    reliability 255/255, txload 1/255, rxload 1/255
  Encapsulation ARPA, loopback not set
  Keepalive set (10 sec)
  Auto-duplex, Auto-speed, media type is 100BaseTX
  input flow-control is unsupported output flow-control is unsupported
  ARP type: ARPA, ARP Timeout 04:00:00
  Last input never, output 02:17:03, output hang never
  Last clearing of "show interface" counters never
  Input queue: 0/75/0/0 (size/max/drops/flushes); Total output drops: 0
  Queueing strategy: fifo
  Output queue: 0/40 (size/max)
  5 minute input rate 0 bits/sec, 0 packets/sec
  5 minute output rate 0 bits/sec, 0 packets/sec
    1 packets input, 64 bytes, 0 no buffer
    Received 0 broadcasts (0 multicast)
    0 runts, 0 giants, 0 throttles
    0 input errors, 0 CRC, 0 frame, 0 overrun, 0 ignored
    0 watchdog, 0 multicast, 0 pause input
    0 input packets with dribble condition detected
    1 packets output, 64 bytes, 0 underruns
    0 output errors, 0 collisions, 2 interface resets
    0 babbles, 0 late collision, 0 deferred
    0 lost carrier, 0 no carrier, 0 PAUSE output
    0 output buffer failures, 0 output buffers swapped out
FastEthernet0/11 is down, line protocol is down (notconnect)
  Hardware is Fast Ethernet, address is 0015.faac.46cb (bia
0015.faac.46cb)
  MTU 1500 bytes, BW 100000 Kbit, DLY 100 usec,
    reliability 255/255, txload 1/255, rxload 1/255
  Encapsulation ARPA, loopback not set
  Keepalive set (10 sec)
  Auto-duplex, Auto-speed, media type is 100BaseTX
  input flow-control is unsupported output flow-control is unsupported
  ARP type: ARPA, ARP Timeout 04:00:00
  Last input never, output 02:17:05, output hang never
  Last clearing of "show interface" counters never
  Input queue: 0/75/0/0 (size/max/drops/flushes); Total output drops: 0
  Queueing strategy: fifo
  Output queue: 0/40 (size/max)
  5 minute input rate 0 bits/sec, 0 packets/sec
  5 minute output rate 0 bits/sec, 0 packets/sec
    1 packets input, 64 bytes, 0 no buffer
    Received 0 broadcasts (0 multicast)
    0 runts, 0 giants, 0 throttles
    0 input errors, 0 CRC, 0 frame, 0 overrun, 0 ignored
```

```
0 watchdog, 0 multicast, 0 pause input
0 input packets with dribble condition detected
1 packets output, 64 bytes, 0 underruns
0 output errors, 0 collisions, 2 interface resets
0 babbles, 0 late collision, 0 deferred
0 lost carrier, 0 no carrier, 0 PAUSE output
0 output buffer failures, 0 output buffers swapped out
FastEthernet0/12 is down, line protocol is down (notconnect)
Hardware is Fast Ethernet, address is 0015.faac.46cc (bia
0015.faac.46cc)
MTU 1500 bytes, BW 100000 Kbit, DLY 100 usec,
  reliability 255/255, txload 1/255, rxload 1/255
Encapsulation ARPA, loopback not set
Keepalive set (10 sec)
Auto-duplex, Auto-speed, media type is 100BaseTX
input flow-control is unsupported output flow-control is unsupported
ARP type: ARPA, ARP Timeout 04:00:00
Last input never, output 02:17:06, output hang never
Last clearing of "show interface" counters never
Input queue: 0/75/0/0 (size/max/drops/flushes); Total output drops: 0
Queueing strategy: fifo
Output queue: 0/40 (size/max)
5 minute input rate 0 bits/sec, 0 packets/sec
5 minute output rate 0 bits/sec, 0 packets/sec
  1 packets input, 64 bytes, 0 no buffer
Received 0 broadcasts (0 multicast)
0 runts, 0 giants, 0 throttles
0 input errors, 0 CRC, 0 frame, 0 overrun, 0 ignored
0 watchdog, 0 multicast, 0 pause input
0 input packets with dribble condition detected
1 packets output, 64 bytes, 0 underruns
0 output errors, 0 collisions, 2 interface resets
0 babbles, 0 late collision, 0 deferred
0 lost carrier, 0 no carrier, 0 PAUSE output
0 output buffer failures, 0 output buffers swapped out
FastEthernet0/13 is down, line protocol is down (notconnect)
Hardware is Fast Ethernet, address is 0015.faac.46cd (bia
0015.faac.46cd)
MTU 1500 bytes, BW 100000 Kbit, DLY 100 usec,
  reliability 255/255, txload 1/255, rxload 1/255
Encapsulation ARPA, loopback not set
Keepalive set (10 sec)
Auto-duplex, Auto-speed, media type is 100BaseTX
input flow-control is unsupported output flow-control is unsupported
ARP type: ARPA, ARP Timeout 04:00:00
Last input never, output 02:17:08, output hang never
Last clearing of "show interface" counters never
Input queue: 0/75/0/0 (size/max/drops/flushes); Total output drops: 0
Queueing strategy: fifo
Output queue: 0/40 (size/max)
5 minute input rate 0 bits/sec, 0 packets/sec
5 minute output rate 0 bits/sec, 0 packets/sec
  1 packets input, 64 bytes, 0 no buffer
Received 0 broadcasts (0 multicast)
```



```
0 runts, 0 giants, 0 throttles
0 input errors, 0 CRC, 0 frame, 0 overrun, 0 ignored
0 watchdog, 0 multicast, 0 pause input
0 input packets with dribble condition detected
1 packets output, 64 bytes, 0 underruns
0 output errors, 0 collisions, 2 interface resets
0 babbles, 0 late collision, 0 deferred
0 lost carrier, 0 no carrier, 0 PAUSE output
0 output buffer failures, 0 output buffers swapped out
FastEthernet0/14 is down, line protocol is down (notconnect)
Hardware is Fast Ethernet, address is 0015.faac.46ce (bia
0015.faac.46ce)
MTU 1500 bytes, BW 100000 Kbit, DLY 100 usec,
  reliability 255/255, txload 1/255, rxload 1/255
Encapsulation ARPA, loopback not set
Keepalive set (10 sec)
Auto-duplex, Auto-speed, media type is 100BaseTX
input flow-control is unsupported output flow-control is unsupported
ARP type: ARPA, ARP Timeout 04:00:00
Last input never, output 02:17:10, output hang never
Last clearing of "show interface" counters never
Input queue: 0/75/0/0 (size/max/drops/flushes); Total output drops: 0
Queueing strategy: fifo
Output queue: 0/40 (size/max)
5 minute input rate 0 bits/sec, 0 packets/sec
5 minute output rate 0 bits/sec, 0 packets/sec
  1 packets input, 64 bytes, 0 no buffer
Received 0 broadcasts (0 multicast)
0 runts, 0 giants, 0 throttles
0 input errors, 0 CRC, 0 frame, 0 overrun, 0 ignored
0 watchdog, 0 multicast, 0 pause input
0 input packets with dribble condition detected
1 packets output, 64 bytes, 0 underruns
0 output errors, 0 collisions, 2 interface resets
0 babbles, 0 late collision, 0 deferred
0 lost carrier, 0 no carrier, 0 PAUSE output
0 output buffer failures, 0 output buffers swapped out
FastEthernet0/15 is down, line protocol is down (notconnect)
Hardware is Fast Ethernet, address is 0015.faac.46cf (bia
0015.faac.46cf)
MTU 1500 bytes, BW 100000 Kbit, DLY 100 usec,
  reliability 255/255, txload 1/255, rxload 1/255
Encapsulation ARPA, loopback not set
Keepalive set (10 sec)
Auto-duplex, Auto-speed, media type is 100BaseTX
input flow-control is unsupported output flow-control is unsupported
ARP type: ARPA, ARP Timeout 04:00:00
Last input never, output 02:17:11, output hang never
Last clearing of "show interface" counters never
Input queue: 0/75/0/0 (size/max/drops/flushes); Total output drops: 0
Queueing strategy: fifo
Output queue: 0/40 (size/max)
5 minute input rate 0 bits/sec, 0 packets/sec
5 minute output rate 0 bits/sec, 0 packets/sec
```

```
1 packets input, 64 bytes, 0 no buffer
Received 0 broadcasts (0 multicast)
0 runts, 0 giants, 0 throttles
0 input errors, 0 CRC, 0 frame, 0 overrun, 0 ignored
0 watchdog, 0 multicast, 0 pause input
0 input packets with dribble condition detected
1 packets output, 64 bytes, 0 underruns
0 output errors, 0 collisions, 2 interface resets
0 babbles, 0 late collision, 0 deferred
0 lost carrier, 0 no carrier, 0 PAUSE output
0 output buffer failures, 0 output buffers swapped out
FastEthernet0/16 is up, line protocol is up (connected)
Hardware is Fast Ethernet, address is 0015.faac.46d0 (bia
0015.faac.46d0)
MTU 1500 bytes, BW 100000 Kbit, DLY 100 usec,
  reliability 255/255, txload 1/255, rxload 1/255
Encapsulation ARPA, loopback not set
Keepalive set (10 sec)
Full-duplex, 100Mb/s, media type is 100BaseTX
input flow-control is unsupported output flow-control is unsupported
ARP type: ARPA, ARP Timeout 04:00:00
Last input 00:00:19, output 00:00:07, output hang never
Last clearing of "show interface" counters never
Input queue: 0/75/0/0 (size/max/drops/flushes); Total output drops: 0
Queueing strategy: fifo
Output queue: 0/40 (size/max)
5 minute input rate 0 bits/sec, 0 packets/sec
5 minute output rate 0 bits/sec, 0 packets/sec
  5553 packets input, 470946 bytes, 0 no buffer
  Received 4652 broadcasts (0 multicast)
  0 runts, 0 giants, 0 throttles
  0 input errors, 0 CRC, 0 frame, 0 overrun, 0 ignored
  0 watchdog, 4639 multicast, 0 pause input
  0 input packets with dribble condition detected
  15651 packets output, 1241616 bytes, 0 underruns
  0 output errors, 0 collisions, 2 interface resets
  0 babbles, 0 late collision, 0 deferred
  0 lost carrier, 0 no carrier, 0 PAUSE output
  0 output buffer failures, 0 output buffers swapped out
FastEthernet0/17 is up, line protocol is up (connected)
Hardware is Fast Ethernet, address is 0015.faac.46d1 (bia
0015.faac.46d1)
MTU 1500 bytes, BW 100000 Kbit, DLY 100 usec,
  reliability 255/255, txload 1/255, rxload 1/255
Encapsulation ARPA, loopback not set
Keepalive set (10 sec)
Full-duplex, 100Mb/s, media type is 100BaseTX
input flow-control is unsupported output flow-control is unsupported
ARP type: ARPA, ARP Timeout 04:00:00
Last input 00:00:18, output 00:00:09, output hang never
Last clearing of "show interface" counters never
Input queue: 0/75/0/0 (size/max/drops/flushes); Total output drops: 0
Queueing strategy: fifo
Output queue: 0/40 (size/max)
```

```
5 minute input rate 0 bits/sec, 0 packets/sec
5 minute output rate 0 bits/sec, 0 packets/sec
  1619 packets input, 171596 bytes, 0 no buffer
  Received 706 broadcasts (0 multicast)
  0 runts, 0 giants, 0 throttles
  0 input errors, 0 CRC, 0 frame, 0 overrun, 0 ignored
  0 watchdog, 706 multicast, 0 pause input
  0 input packets with dribble condition detected
  1675 packets output, 180681 bytes, 0 underruns
  0 output errors, 0 collisions, 2 interface resets
  0 babbles, 0 late collision, 0 deferred
  0 lost carrier, 0 no carrier, 0 PAUSE output
  0 output buffer failures, 0 output buffers swapped out
FastEthernet0/18 is up, line protocol is up (connected)
  Hardware is Fast Ethernet, address is 0015.faac.46d2 (bia
0015.faac.46d2)
  MTU 1500 bytes, BW 100000 Kbit, DLY 100 usec,
    reliability 255/255, txload 1/255, rxload 1/255
  Encapsulation ARPA, loopback not set
  Keepalive set (10 sec)
  Full-duplex, 100Mb/s, media type is 100BaseTX
  input flow-control is unsupported output flow-control is unsupported
  ARP type: ARPA, ARP Timeout 04:00:00
  Last input 00:00:16, output 00:00:00, output hang never
  Last clearing of "show interface" counters never
  Input queue: 0/75/0/0 (size/max/drops/flushes); Total output drops: 0
  Queueing strategy: fifo
  Output queue: 0/40 (size/max)
5 minute input rate 0 bits/sec, 0 packets/sec
5 minute output rate 0 bits/sec, 0 packets/sec
  1521 packets input, 163274 bytes, 0 no buffer
  Received 710 broadcasts (0 multicast)
  0 runts, 0 giants, 0 throttles
  0 input errors, 0 CRC, 0 frame, 0 overrun, 0 ignored
  0 watchdog, 710 multicast, 0 pause input
  0 input packets with dribble condition detected
  1666 packets output, 179759 bytes, 0 underruns
  0 output errors, 0 collisions, 2 interface resets
  0 babbles, 0 late collision, 0 deferred
  0 lost carrier, 0 no carrier, 0 PAUSE output
  0 output buffer failures, 0 output buffers swapped out
FastEthernet0/19 is up, line protocol is up (connected)
  Hardware is Fast Ethernet, address is 0015.faac.46d3 (bia
0015.faac.46d3)
  MTU 1500 bytes, BW 100000 Kbit, DLY 100 usec,
    reliability 255/255, txload 1/255, rxload 1/255
  Encapsulation ARPA, loopback not set
  Keepalive set (10 sec)
  Full-duplex, 100Mb/s, media type is 100BaseTX
  input flow-control is unsupported output flow-control is unsupported
  ARP type: ARPA, ARP Timeout 04:00:00
  Last input 00:00:16, output 00:00:02, output hang never
  Last clearing of "show interface" counters never
  Input queue: 0/75/0/0 (size/max/drops/flushes); Total output drops: 0
```

```
Queueing strategy: fifo
Output queue: 0/40 (size/max)
5 minute input rate 0 bits/sec, 0 packets/sec
5 minute output rate 0 bits/sec, 0 packets/sec
  6930 packets input, 575943 bytes, 0 no buffer
  Received 5635 broadcasts (0 multicast)
  0 runts, 0 giants, 0 throttles
  0 input errors, 0 CRC, 0 frame, 0 overrun, 0 ignored
  0 watchdog, 5615 multicast, 0 pause input
  0 input packets with dribble condition detected
  6691 packets output, 593118 bytes, 0 underruns
  0 output errors, 0 collisions, 2 interface resets
  0 babbles, 0 late collision, 0 deferred
  0 lost carrier, 0 no carrier, 0 PAUSE output
  0 output buffer failures, 0 output buffers swapped out
FastEthernet0/20 is up, line protocol is up (connected)
  Hardware is Fast Ethernet, address is 0015.faac.46d4 (bia
0015.faac.46d4)
  MTU 1500 bytes, BW 100000 Kbit, DLY 100 usec,
    reliability 255/255, txload 1/255, rxload 1/255
  Encapsulation ARPA, loopback not set
  Keepalive set (10 sec)
  Full-duplex, 100Mb/s, media type is 100BaseTX
  input flow-control is unsupported output flow-control is unsupported
  ARP type: ARPA, ARP Timeout 04:00:00
  Last input 00:00:13, output 00:00:04, output hang never
  Last clearing of "show interface" counters never
  Input queue: 0/75/0/0 (size/max/drops/flushes); Total output drops: 0
  Queueing strategy: fifo
  Output queue: 0/40 (size/max)
  5 minute input rate 0 bits/sec, 0 packets/sec
  5 minute output rate 0 bits/sec, 0 packets/sec
    9718 packets input, 752194 bytes, 0 no buffer
    Received 8887 broadcasts (0 multicast)
    0 runts, 0 giants, 0 throttles
    0 input errors, 0 CRC, 0 frame, 0 overrun, 0 ignored
    0 watchdog, 8888 multicast, 0 pause input
    0 input packets with dribble condition detected
    1584 packets output, 171894 bytes, 0 underruns
    0 output errors, 0 collisions, 2 interface resets
    0 babbles, 0 late collision, 0 deferred
    0 lost carrier, 0 no carrier, 0 PAUSE output
    0 output buffer failures, 0 output buffers swapped out
FastEthernet0/21 is up, line protocol is up (connected)
  Hardware is Fast Ethernet, address is 0015.faac.46d5 (bia
0015.faac.46d5)
  MTU 1500 bytes, BW 100000 Kbit, DLY 100 usec,
    reliability 255/255, txload 1/255, rxload 1/255
  Encapsulation ARPA, loopback not set
  Keepalive set (10 sec)
  Full-duplex, 100Mb/s, media type is 100BaseTX
  input flow-control is unsupported output flow-control is unsupported
  ARP type: ARPA, ARP Timeout 04:00:00
  Last input 00:00:19, output 00:00:05, output hang never
```

Last clearing of "show interface" counters never
Input queue: 0/75/0/0 (size/max/drops/flushes); Total output drops: 0
Queueing strategy: fifo
Output queue: 0/40 (size/max)
5 minute input rate 0 bits/sec, 0 packets/sec
5 minute output rate 0 bits/sec, 0 packets/sec
1649 packets input, 172866 bytes, 0 no buffer
Received 709 broadcasts (0 multicast)
0 runts, 0 giants, 0 throttles
0 input errors, 0 CRC, 0 frame, 0 overrun, 0 ignored
0 watchdog, 708 multicast, 0 pause input
0 input packets with dribble condition detected
2263 packets output, 233532 bytes, 0 underruns
0 output errors, 0 collisions, 2 interface resets
0 babbles, 0 late collision, 0 deferred
0 lost carrier, 0 no carrier, 0 PAUSE output
0 output buffer failures, 0 output buffers swapped out
FastEthernet0/22 is administratively down, line protocol is down
(disabled)

Hardware is Fast Ethernet, address is 0015.faac.46d6 (bia
0015.faac.46d6)
MTU 1500 bytes, BW 100000 Kbit, DLY 100 usec,
reliability 255/255, txload 1/255, rxload 1/255
Encapsulation ARPA, loopback not set
Keepalive set (10 sec)
Auto-duplex, Auto-speed, media type is 100BaseTX
input flow-control is unsupported output flow-control is unsupported
ARP type: ARPA, ARP Timeout 04:00:00
Last input never, output 02:17:22, output hang never
Last clearing of "show interface" counters never
Input queue: 0/75/0/0 (size/max/drops/flushes); Total output drops: 0
Queueing strategy: fifo
Output queue: 0/40 (size/max)
5 minute input rate 0 bits/sec, 0 packets/sec
5 minute output rate 0 bits/sec, 0 packets/sec
1 packets input, 64 bytes, 0 no buffer
Received 0 broadcasts (0 multicast)
0 runts, 0 giants, 0 throttles
0 input errors, 0 CRC, 0 frame, 0 overrun, 0 ignored
0 watchdog, 0 multicast, 0 pause input
0 input packets with dribble condition detected
1 packets output, 64 bytes, 0 underruns
0 output errors, 0 collisions, 2 interface resets
0 babbles, 0 late collision, 0 deferred
0 lost carrier, 0 no carrier, 0 PAUSE output
0 output buffer failures, 0 output buffers swapped out
FastEthernet0/23 is administratively down, line protocol is down
(disabled)

Hardware is Fast Ethernet, address is 0015.faac.46d7 (bia
0015.faac.46d7)
MTU 1500 bytes, BW 100000 Kbit, DLY 100 usec,
reliability 255/255, txload 1/255, rxload 1/255
Encapsulation ARPA, loopback not set
Keepalive set (10 sec)

```
Auto-duplex, Auto-speed, media type is 100BaseTX
input flow-control is unsupported output flow-control is unsupported
ARP type: ARPA, ARP Timeout 04:00:00
Last input never, output 02:17:24, output hang never
Last clearing of "show interface" counters never
Input queue: 0/75/0/0 (size/max/drops/flushes); Total output drops: 0
Queueing strategy: fifo
Output queue: 0/40 (size/max)
5 minute input rate 0 bits/sec, 0 packets/sec
5 minute output rate 0 bits/sec, 0 packets/sec
  1 packets input, 64 bytes, 0 no buffer
  Received 0 broadcasts (0 multicast)
  0 runts, 0 giants, 0 throttles
  0 input errors, 0 CRC, 0 frame, 0 overrun, 0 ignored
  0 watchdog, 0 multicast, 0 pause input
  0 input packets with dribble condition detected
  1 packets output, 64 bytes, 0 underruns
  0 output errors, 0 collisions, 2 interface resets
  0 babbles, 0 late collision, 0 deferred
  0 lost carrier, 0 no carrier, 0 PAUSE output
  0 output buffer failures, 0 output buffers swapped out
FastEthernet0/24 is administratively down, line protocol is down
(disabled)
  Hardware is Fast Ethernet, address is 0015.faac.46d8 (bia
0015.faac.46d8)
  MTU 1500 bytes, BW 100000 Kbit, DLY 100 usec,
    reliability 255/255, txload 1/255, rxload 1/255
  Encapsulation ARPA, loopback not set
  Keepalive set (10 sec)
  Auto-duplex, Auto-speed, media type is 100BaseTX
  input flow-control is unsupported output flow-control is unsupported
  ARP type: ARPA, ARP Timeout 04:00:00
  Last input never, output 02:17:25, output hang never
  Last clearing of "show interface" counters never
  Input queue: 0/75/0/0 (size/max/drops/flushes); Total output drops: 0
  Queueing strategy: fifo
  Output queue: 0/40 (size/max)
  5 minute input rate 0 bits/sec, 0 packets/sec
  5 minute output rate 0 bits/sec, 0 packets/sec
    1 packets input, 64 bytes, 0 no buffer
    Received 0 broadcasts (0 multicast)
    0 runts, 0 giants, 0 throttles
    0 input errors, 0 CRC, 0 frame, 0 overrun, 0 ignored
    0 watchdog, 0 multicast, 0 pause input
    0 input packets with dribble condition detected
    1 packets output, 64 bytes, 0 underruns
    0 output errors, 0 collisions, 2 interface resets
    0 babbles, 0 late collision, 0 deferred
    0 lost carrier, 0 no carrier, 0 PAUSE output
    0 output buffer failures, 0 output buffers swapped out
Port-channel1 is up, line protocol is up (connected)
  Hardware is EtherChannel, address is 0015.faac.46d5 (bia
0015.faac.46d5)
  MTU 1500 bytes, BW 300000 Kbit, DLY 1000 usec,
```

```
reliability 255/255, txload 1/255, rxload 1/255
Encapsulation ARPA, loopback not set
Full-duplex, 100Mb/s, media type is unknown media type
input flow-control is off, output flow-control is off
Members in this channel: Fa0/19 Fa0/20 Fa0/21
ARP type: ARPA, ARP Timeout 04:00:00
Last input 00:00:00, output 00:07:01, output hang never
Last clearing of "show interface" counters never
Input queue: 0/75/0/0 (size/max/drops/flushes); Total output drops: 0
Queueing strategy: fifo
Output queue: 0/40 (size/max)
5 minute input rate 1000 bits/sec, 2 packets/sec
5 minute output rate 1000 bits/sec, 1 packets/sec
 18294 packets input, 1500289 bytes, 0 no buffer
  Received 15229 broadcasts (0 multicast)
  0 runts, 0 giants, 0 throttles
  0 input errors, 0 CRC, 0 frame, 0 overrun, 0 ignored
  0 watchdog, 15207 multicast, 0 pause input
  0 input packets with dribble condition detected
 10353 packets output, 978291 bytes, 0 underruns
  0 output errors, 0 collisions, 1 interface resets
  0 babbles, 0 late collision, 0 deferred
  0 lost carrier, 0 no carrier, 0 PAUSE output
  0 output buffer failures, 0 output buffers swapped out
Port-channel2 is up, line protocol is up (connected)
  Hardware is EtherChannel, address is 0015.faac.46d1 (bia
0015.faac.46d1)
  MTU 1500 bytes, BW 300000 Kbit, DLY 1000 usec,
    reliability 255/255, txload 1/255, rxload 1/255
  Encapsulation ARPA, loopback not set
  Full-duplex, 100Mb/s, media type is unknown media type
  input flow-control is off, output flow-control is off
  Members in this channel: Fa0/16 Fa0/17 Fa0/18
  ARP type: ARPA, ARP Timeout 04:00:00
  Last input 01:46:02, output 00:00:00, output hang never
  Last clearing of "show interface" counters never
  Input queue: 0/75/0/0 (size/max/drops/flushes); Total output drops: 0
  Queueing strategy: fifo
  Output queue: 0/40 (size/max)
  5 minute input rate 1000 bits/sec, 2 packets/sec
  5 minute output rate 1000 bits/sec, 2 packets/sec
    8684 packets input, 805488 bytes, 0 no buffer
    Received 6056 broadcasts (0 multicast)
    0 runts, 0 giants, 0 throttles
    0 input errors, 0 CRC, 0 frame, 0 overrun, 0 ignored
    0 watchdog, 6045 multicast, 0 pause input
    0 input packets with dribble condition detected
    18557 packets output, 1556605 bytes, 0 underruns
    0 output errors, 0 collisions, 1 interface resets
    0 babbles, 0 late collision, 0 deferred
    0 lost carrier, 0 no carrier, 0 PAUSE output
    0 output buffer failures, 0 output buffers swapped out
```

ASW1#

```
ASW1#show interfaces counters errors
```

| Port | Align-Err | FCS-Err | Xmit-Err | Rcv-Err | UnderSize |
|-------|-----------|---------|----------|---------|-----------|
| Fa0/1 | 0 | 0 | 0 | 0 | 0 |
| Fa0/2 | 0 | 0 | 0 | 0 | 0 |
| Fa0/3 | 0 | 0 | 0 | 0 | 0 |
| Fa0/4 | 0 | 0 | 0 | 0 | 0 |
| Fa0/5 | 0 | 0 | 0 | 0 | 0 |
| Fa0/6 | 0 | 0 | 0 | 0 | 0 |
| Fa0/7 | 0 | 0 | 0 | 0 | 0 |
| Fa0/8 | 0 | 0 | 0 | 0 | 0 |
| Fa0/9 | 0 | 0 | 0 | 0 | 0 |

| | | | | | |
|--------|---|---|---|---|---|
| Fa0/10 | 0 | 0 | 0 | 0 | 0 |
| Fa0/11 | 0 | 0 | 0 | 0 | 0 |
| Fa0/12 | 0 | 0 | 0 | 0 | 0 |
| Fa0/13 | 0 | 0 | 0 | 0 | 0 |
| Fa0/14 | 0 | 0 | 0 | 0 | 0 |
| Fa0/15 | 0 | 0 | 0 | 0 | 0 |
| Fa0/16 | 0 | 0 | 0 | 0 | 0 |
| Fa0/17 | 0 | 0 | 0 | 0 | 0 |
| Fa0/18 | 0 | 0 | 0 | 0 | 0 |
| Fa0/19 | 0 | 0 | 0 | 0 | 0 |
| Fa0/20 | 0 | 0 | 0 | 0 | 0 |
| Fa0/21 | 0 | 0 | 0 | 0 | 0 |
| Fa0/22 | 0 | 0 | 0 | 0 | 0 |
| Fa0/23 | 0 | 0 | 0 | 0 | 0 |
| Fa0/24 | 0 | 0 | 0 | 0 | 0 |
| Po1 | 0 | 0 | 0 | 0 | 0 |
| Po2 | 0 | 0 | 0 | 0 | 0 |

| Port | Single-Col | Multi-Col | Late-Col | Excess-Col | Carri-Sen | Runts |
|--------|------------|-----------|----------|------------|-----------|-------|
| Giants | | | | | | |
| Fa0/1 | 0 | 0 | 0 | 0 | 1 | 0 |
| 0 | | | | | | |
| Fa0/2 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | | | | | | |
| Fa0/3 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | | | | | | |
| Fa0/4 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | | | | | | |
| Fa0/5 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | | | | | | |
| Fa0/6 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | | | | | | |
| Fa0/7 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | | | | | | |
| Fa0/8 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | | | | | | |
| Fa0/9 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | | | | | | |
| Fa0/10 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | | | | | | |
| Fa0/11 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | | | | | | |
| Fa0/12 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | | | | | | |
| Fa0/13 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | | | | | | |
| Fa0/14 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | | | | | | |
| Fa0/15 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | | | | | | |
| Fa0/16 | 0 | 0 | 0 | 0 | 2 | 0 |
| 0 | | | | | | |
| Fa0/17 | 0 | 0 | 0 | 0 | 2 | 0 |
| 0 | | | | | | |

| | | | | | | |
|--------|---|---|---|---|---|---|
| Fa0/18 | 0 | 0 | 0 | 0 | 2 | 0 |
| 0 | | | | | | |
| Fa0/19 | 0 | 0 | 0 | 0 | 2 | 0 |
| 0 | | | | | | |
| Fa0/20 | 0 | 0 | 0 | 0 | 2 | 0 |
| 0 | | | | | | |
| Fa0/21 | 0 | 0 | 0 | 0 | 2 | 0 |
| 0 | | | | | | |
| Fa0/22 | 0 | 0 | 0 | 0 | 1 | 0 |
| 0 | | | | | | |
| Fa0/23 | 0 | 0 | 0 | 0 | 1 | 0 |
| 0 | | | | | | |
| Fa0/24 | 0 | 0 | 0 | 0 | 1 | 0 |
| 0 | | | | | | |
| Po1 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | | | | | | |
| Po2 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | | | | | | |
| ASW1# | | | | | | |

```
ASW1#show cdp neighbors
```

```
Capability Codes: R - Router, T - Trans Bridge, B - Source Route Bridge  
S - Switch, H - Host, I - IGMP, r - Repeater, P - Phone
```

| Device ID | Local Intrfce | Holdtme | Capability | Platform | Port |
|--------------|---------------|---------|------------|---------------|------|
| DSW1 0/20 | Fas 0/20 | 174 | R S I | Cisco WS-CFas | |
| DSW1 0/21 | Fas 0/21 | 174 | R S I | Cisco WS-CFas | |
| DSW1 0/19 | Fas 0/19 | 172 | R S I | Cisco WS-CFas | |
| DSW2 0/21 | Fas 0/18 | 161 | R S I | Cisco WS-CFas | |
| DSW2 0/20 | Fas 0/17 | 161 | R S I | Cisco WS-CFas | |
| DSW2 0/19 | Fas 0/16 | 160 | R S I | Cisco WS-CFas | |

```
ASW1#
```

```
ASW1#show cdp neighbors detail
```

```
-----
```

```
Device ID: DSW1  
Entry address(es):  
  IP address: 10.2.1.1  
Platform: Cisco WS-C3550-24, Capabilities: Router Switch IGMP  
Interface: FastEthernet0/20, Port ID (outgoing port): FastEthernet0/20  
Holdtime : 170 sec
```

```
Version :  
Cisco IOS Software, C3550 Software (C3550-IPSERVICESK9-M), Version  
12.2(44)SE6, RELEASE SOFTWARE (fc1)  
Copyright (c) 1986-2009 by Cisco Systems, Inc.  
Compiled Mon 09-Mar-09 20:28 by gereddy
```

```
advertisement version: 2  
Protocol Hello: OUI=0x00000C, Protocol ID=0x0112; payload len=27,  
value=00000000FFFFFFFF0102250D0000000000000000DBDE36E00FF0000  
VTP Management Domain: 'netlearning'  
Native VLAN: 1  
Duplex: full  
Management address(es):  
  IP address: 10.2.1.1
```

```
-----
```

```
Device ID: DSW1  
Entry address(es):  
  IP address: 10.2.1.1  
Platform: Cisco WS-C3550-24, Capabilities: Router Switch IGMP  
Interface: FastEthernet0/21, Port ID (outgoing port): FastEthernet0/21  
Holdtime : 170 sec
```

```
Version :  
Cisco IOS Software, C3550 Software (C3550-IPSERVICESK9-M), Version  
12.2(44)SE6, RELEASE SOFTWARE (fc1)  
Copyright (c) 1986-2009 by Cisco Systems, Inc.  
Compiled Mon 09-Mar-09 20:28 by gereddy
```

advertisement version: 2
Protocol Hello: OUI=0x00000C, Protocol ID=0x0112; payload len=27,
value=00000000FFFFFFFFF0102250D0000000000000000DBDE36E00FF0000
VTP Management Domain: 'netlearning'
Native VLAN: 1
Duplex: full
Management address(es):
IP address: 10.2.1.1

Device ID: DSW1
Entry address(es):
IP address: 10.2.1.1
Platform: Cisco WS-C3550-24, Capabilities: Router Switch IGMP
Interface: FastEthernet0/19, Port ID (outgoing port): FastEthernet0/19
Holdtime : 167 sec

Version :
Cisco IOS Software, C3550 Software (C3550-IPSERVICESK9-M), Version
12.2(44)SE6, RELEASE SOFTWARE (fc1)
Copyright (c) 1986-2009 by Cisco Systems, Inc.
Compiled Mon 09-Mar-09 20:28 by gereddy

advertisement version: 2
Protocol Hello: OUI=0x00000C, Protocol ID=0x0112; payload len=27,
value=00000000FFFFFFFFF0102250D0000000000000000DBDE36E00FF0000
VTP Management Domain: 'netlearning'
Native VLAN: 1
Duplex: full
Management address(es):
IP address: 10.2.1.1

Device ID: DSW2
Entry address(es):
IP address: 10.2.1.2
Platform: Cisco WS-C3550-24-PWR, Capabilities: Router Switch IGMP
Interface: FastEthernet0/18, Port ID (outgoing port): FastEthernet0/21
Holdtime : 155 sec

Version :
Cisco IOS Software, C3550 Software (C3550-IPSERVICESK9-M), Version
12.2(44)SE6, RELEASE SOFTWARE (fc1)
Copyright (c) 1986-2009 by Cisco Systems, Inc.
Compiled Mon 09-Mar-09 20:28 by gereddy

advertisement version: 2
Protocol Hello: OUI=0x00000C, Protocol ID=0x0112; payload len=27,
value=00000000FFFFFFFFF010225170000000000000000BFD20BA00FF0000
VTP Management Domain: 'netlearning'
Native VLAN: 1
Duplex: full
Management address(es):
IP address: 10.2.1.2

```
-----  
Device ID: DSW2  
Entry address(es):  
  IP address: 10.2.1.2  
Platform: Cisco WS-C3550-24-PWR, Capabilities: Router Switch IGMP  
Interface: FastEthernet0/17, Port ID (outgoing port): FastEthernet0/20  
Holdtime : 154 sec
```

```
Version :  
Cisco IOS Software, C3550 Software (C3550-IPSERVICESK9-M), Version  
12.2(44)SE6, RELEASE SOFTWARE (fc1)  
Copyright (c) 1986-2009 by Cisco Systems, Inc.  
Compiled Mon 09-Mar-09 20:28 by gereddy
```

```
advertisement version: 2  
Protocol Hello: OUI=0x00000C, Protocol ID=0x0112; payload len=27,  
value=00000000FFFFFFFFF010225170000000000000000BFD20BA00FF0000  
VTP Management Domain: 'netlearning'  
Native VLAN: 1  
Duplex: full  
Management address(es):  
  IP address: 10.2.1.2
```

```
-----  
Device ID: DSW2  
Entry address(es):  
  IP address: 10.2.1.2  
Platform: Cisco WS-C3550-24-PWR, Capabilities: Router Switch IGMP  
Interface: FastEthernet0/16, Port ID (outgoing port): FastEthernet0/19  
Holdtime : 152 sec
```

```
Version :  
Cisco IOS Software, C3550 Software (C3550-IPSERVICESK9-M), Version  
12.2(44)SE6, RELEASE SOFTWARE (fc1)  
Copyright (c) 1986-2009 by Cisco Systems, Inc.  
Compiled Mon 09-Mar-09 20:28 by gereddy
```

```
advertisement version: 2  
Protocol Hello: OUI=0x00000C, Protocol ID=0x0112; payload len=27,  
value=00000000FFFFFFFFF010225170000000000000000BFD20BA00FF0000  
VTP Management Domain: 'netlearning'  
Native VLAN: 1  
Duplex: full  
Management address(es):  
  IP address: 10.2.1.2
```

```
ASW1#
```

```
ASW1#show arp
Protocol Address           Age (min)  Hardware Addr  Type   Interface
Internet 192.168.1.131         -          0015.faac.46c0 ARPA   Vlan200
ASW1#
```

```
ASW1#show ip arp
Protocol Address          Age (min)  Hardware Addr  Type   Interface
Internet 192.168.1.131      -         0015.faac.46c0 ARPA   Vlan200
ASW1#
```



```
ASW1#show ip interface
Vlan1 is administratively down, line protocol is down
  Internet protocol processing disabled
Vlan200 is up, line protocol is up
  Internet address is 192.168.1.131/27
  Broadcast address is 255.255.255.255
  Address determined by non-volatile memory
  MTU is 1500 bytes
  Helper address is not set
  Directed broadcast forwarding is disabled
  Outgoing access list is not set
  Inbound access list is not set
  Proxy ARP is enabled
  Local Proxy ARP is disabled
  Security level is default
  Split horizon is enabled
  ICMP redirects are always sent
  ICMP unreachable are always sent
  ICMP mask replies are never sent
  IP fast switching is disabled
  IP fast switching on the same interface is disabled
  IP Null turbo vector
  IP multicast fast switching is disabled
  IP multicast distributed fast switching is disabled
  IP route-cache flags are None
  Router Discovery is disabled
  IP output packet accounting is disabled
  IP access violation accounting is disabled
  TCP/IP header compression is disabled
  RTP/IP header compression is disabled
  Probe proxy name replies are disabled
```

```
Policy routing is disabled
Network address translation is disabled
WCCP Redirect outbound is disabled
WCCP Redirect inbound is disabled
WCCP Redirect exclude is disabled
BGP Policy Mapping is disabled
ASW1#
```

```
ASW1#show tcp statistics
Rcvd: 0 Total, 0 no port
      0 checksum error, 0 bad offset, 0 too short
      0 packets (0 bytes) in sequence
```

0 dup packets (0 bytes)
0 partially dup packets (0 bytes)
0 out-of-order packets (0 bytes)
0 packets (0 bytes) with data after window
0 packets after close
0 window probe packets, 0 window update packets
0 dup ack packets, 0 ack packets with unsend data
0 ack packets (0 bytes)
Sent: 0 Total, 0 urgent packets
0 control packets (including 0 retransmitted)
0 data packets (0 bytes)
0 data packets (0 bytes) retransmitted
0 ack only packets (0 delayed)
0 window probe packets, 0 window update packets
0 Connections initiated, 0 connections accepted, 0 connections
established
0 Connections closed (including 0 dropped, 0 embryonic dropped)
0 Total rxmt timeout, 0 connections dropped in rxmt timeout
0 Keepalive timeout, 0 keepalive probe, 0 Connections dropped in
keepalive
ASW1#

```
ASW1#show access-lists
```

```
ASW1#
```

ASW1#show vlan

| VLAN Name | Status | Ports |
|----------------------|-----------|-----------------------------------------------------------------------------------------------------------------------|
| 1 default | active | Fa0/22, Fa0/23, Fa0/24 |
| 10 VLAN0010 | active | Fa0/2, Fa0/3, Fa0/4, Fa0/5 Fa0/6, Fa0/7, Fa0/8, Fa0/9 Fa0/10, Fa0/11, Fa0/12, Fa0/13 Fa0/14, Fa0/15 |
| 20 VLAN0020 | active | |
| 100 VLAN0100 | active | Fa0/1 |
| 200 VLAN0200 | active | |
| 1002 fddi-default | act/unsup | |
| 1003 trcrf-default | act/unsup | |
| 1004 fddinet-default | act/unsup | |
| 1005 trbrf-default | act/unsup | |

| VLAN | Type | SAID | MTU | Parent | RingNo | BridgeNo | Stp | BrdgMode | Trans1 | Trans2 |
|------|-------|--------|------|--------|--------|----------|------|----------|--------|--------|
| 1 | enet | 100001 | 1500 | - | - | - | - | - | 0 | 0 |
| 10 | enet | 100010 | 1500 | - | - | - | - | - | 0 | 0 |
| 20 | enet | 100020 | 1500 | - | - | - | - | - | 0 | 0 |
| 100 | enet | 100100 | 1500 | - | - | - | - | - | 0 | 0 |
| 200 | enet | 100200 | 1500 | - | - | - | - | - | 0 | 0 |
| 1002 | fddi | 101002 | 1500 | - | - | - | - | - | 0 | 0 |
| 1003 | trcrf | 101003 | 4472 | 1005 | 3276 | - | - | srb | 0 | 0 |
| 1004 | fdnet | 101004 | 1500 | - | - | - | ieee | - | 0 | 0 |
| 1005 | trbrf | 101005 | 4472 | - | - | 15 | ibm | - | 0 | 0 |

| VLAN | AREHops | STEHops | Backup | CRF |
|------|---------|---------|--------|-----|
| 1003 | 7 | 7 | off | |

Remote SPAN VLANs

| Primary | Secondary | Type | Ports |
|---------|-----------|------|-------|
|---------|-----------|------|-------|

ASW1#

```
ASW1#show spanning-tree
```

```
VLAN0010
```

```
Spanning tree enabled protocol ieee
```

```
Root ID      Priority      4106  
Address      000d.bde3.6e00  
Cost         9  
Port         65 (Port-channel1)  
Hello Time   2 sec Max Age 20 sec Forward Delay 15 sec
```

```
Bridge ID    Priority      61450 (priority 61440 sys-id-ext 10)  
Address      0015.faac.46c0  
Hello Time   2 sec Max Age 20 sec Forward Delay 15 sec
```

Aging Time 300

| Interface | Role | Sts | Cost | Prio.Nbr | Type |
|-----------|-------|-------|-------|----------|-------|
| ----- | ----- | ----- | ----- | ----- | ----- |
| ---- | | | | | |
| Po1 | Root | FWD | 9 | 128.65 | P2p |
| Po2 | Desg | FWD | 9 | 128.66 | P2p |

VLAN0100

Spanning tree enabled protocol ieee
Root ID Priority 32868
Address 0015.faac.46c0
This bridge is the root
Hello Time 2 sec Max Age 20 sec Forward Delay 15 sec

Bridge ID Priority 32868 (priority 32768 sys-id-ext 100)
Address 0015.faac.46c0
Hello Time 2 sec Max Age 20 sec Forward Delay 15 sec
Aging Time 300

| Interface | Role | Sts | Cost | Prio.Nbr | Type |
|-----------|-------|-------|-------|----------|----------|
| ----- | ----- | ----- | ----- | ----- | ----- |
| ---- | | | | | |
| Fa0/1 | Desg | FWD | 19 | 128.1 | Edge P2p |

VLAN0200

Spanning tree enabled protocol ieee
Root ID Priority 4296
Address 000d.bde3.6e00
Cost 9
Port 65 (Port-channel1)
Hello Time 2 sec Max Age 20 sec Forward Delay 15 sec

Bridge ID Priority 32968 (priority 32768 sys-id-ext 200)
Address 0015.faac.46c0
Hello Time 2 sec Max Age 20 sec Forward Delay 15 sec
Aging Time 300

| Interface | Role | Sts | Cost | Prio.Nbr | Type |
|-----------|-------|-------|-------|----------|-------|
| ----- | ----- | ----- | ----- | ----- | ----- |
| ---- | | | | | |
| Po1 | Root | FWD | 9 | 128.65 | P2p |
| Po2 | Desg | FWD | 9 | 128.66 | P2p |

ASW1#

```
ASW1#show interfaces status
```

| Port | Name | Status | Vlan | Duplex | Speed | Type |
|-------|--------------|------------|------|--------|-------|------|
| Fa0/1 | 10/100BaseTX | connected | 100 | a-full | a-100 | |
| Fa0/2 | 10/100BaseTX | notconnect | 10 | auto | auto | |
| Fa0/3 | 10/100BaseTX | notconnect | 10 | auto | auto | |
| Fa0/4 | 10/100BaseTX | notconnect | 10 | auto | auto | |
| Fa0/5 | 10/100BaseTX | notconnect | 10 | auto | auto | |
| Fa0/6 | 10/100BaseTX | notconnect | 10 | auto | auto | |
| Fa0/7 | 10/100BaseTX | notconnect | 10 | auto | auto | |

| | | | | |
|--------------|------------|-------|--------|-------|
| Fa0/8 | notconnect | 10 | auto | auto |
| 10/100BaseTX | | | | |
| Fa0/9 | notconnect | 10 | auto | auto |
| 10/100BaseTX | | | | |
| Fa0/10 | notconnect | 10 | auto | auto |
| 10/100BaseTX | | | | |
| Fa0/11 | notconnect | 10 | auto | auto |
| 10/100BaseTX | | | | |
| Fa0/12 | notconnect | 10 | auto | auto |
| 10/100BaseTX | | | | |
| Fa0/13 | notconnect | 10 | auto | auto |
| 10/100BaseTX | | | | |
| Fa0/14 | notconnect | 10 | auto | auto |
| 10/100BaseTX | | | | |
| Fa0/15 | notconnect | 10 | auto | auto |
| 10/100BaseTX | | | | |
| Fa0/16 | connected | trunk | a-full | a-100 |
| 10/100BaseTX | | | | |
| Fa0/17 | connected | trunk | a-full | a-100 |
| 10/100BaseTX | | | | |
| Fa0/18 | connected | trunk | a-full | a-100 |
| 10/100BaseTX | | | | |
| Fa0/19 | connected | trunk | a-full | a-100 |
| 10/100BaseTX | | | | |
| Fa0/20 | connected | trunk | a-full | a-100 |
| 10/100BaseTX | | | | |
| Fa0/21 | connected | trunk | a-full | a-100 |
| 10/100BaseTX | | | | |
| Fa0/22 | disabled | 1 | auto | auto |
| 10/100BaseTX | | | | |
| Fa0/23 | disabled | 1 | auto | auto |
| 10/100BaseTX | | | | |
| Fa0/24 | disabled | 1 | auto | auto |
| 10/100BaseTX | | | | |
| Po1 | connected | trunk | a-full | a-100 |
| Po2 | connected | trunk | a-full | a-100 |
| ASW1# | | | | |

```
ASW1#show interfaces switchport
Name: Fa0/1
Switchport: Enabled
Administrative Mode: static access
Operational Mode: static access
Administrative Trunking Encapsulation: dot1q
Operational Trunking Encapsulation: native
Negotiation of Trunking: Off
Access Mode VLAN: 100 (VLAN0100)
Trunking Native Mode VLAN: 1 (default)
Voice VLAN: none
Administrative private-vlan host-association: none
Administrative private-vlan mapping: none
Administrative private-vlan trunk native VLAN: none
Administrative private-vlan trunk encapsulation: dot1q
Administrative private-vlan trunk normal VLANs: none
Administrative private-vlan trunk private VLANs: none
Operational private-vlan: none
Trunking VLANs Enabled: ALL
Pruning VLANs Enabled: 2-1001
Capture Mode Disabled
Capture VLANs Allowed: ALL
Protected: false
Appliance trust: none

Name: Fa0/2
Switchport: Enabled
Administrative Mode: static access
```

Operational Mode: down
Administrative Trunking Encapsulation: dot1q
Negotiation of Trunking: Off
Access Mode VLAN: 10 (VLAN0010)
Trunking Native Mode VLAN: 1 (default)
Voice VLAN: none
Administrative private-vlan host-association: none
Administrative private-vlan mapping: none
Administrative private-vlan trunk native VLAN: none
Administrative private-vlan trunk encapsulation: dot1q
Administrative private-vlan trunk normal VLANs: none
Administrative private-vlan trunk private VLANs: none
Operational private-vlan: none
Trunking VLANs Enabled: ALL
Pruning VLANs Enabled: 2-1001
Capture Mode Disabled
Capture VLANs Allowed: ALL
Protected: false
Appliance trust: none

Name: Fa0/3
Switchport: Enabled
Administrative Mode: static access
Operational Mode: down
Administrative Trunking Encapsulation: dot1q
Negotiation of Trunking: Off
Access Mode VLAN: 10 (VLAN0010)
Trunking Native Mode VLAN: 1 (default)
Voice VLAN: none
Administrative private-vlan host-association: none
Administrative private-vlan mapping: none
Administrative private-vlan trunk native VLAN: none
Administrative private-vlan trunk encapsulation: dot1q
Administrative private-vlan trunk normal VLANs: none
Administrative private-vlan trunk private VLANs: none
Operational private-vlan: none
Trunking VLANs Enabled: ALL
Pruning VLANs Enabled: 2-1001
Capture Mode Disabled
Capture VLANs Allowed: ALL
Protected: false
Appliance trust: none

Name: Fa0/4
Switchport: Enabled
Administrative Mode: static access
Operational Mode: down
Administrative Trunking Encapsulation: dot1q
Negotiation of Trunking: Off
Access Mode VLAN: 10 (VLAN0010)
Trunking Native Mode VLAN: 1 (default)
Voice VLAN: none
Administrative private-vlan host-association: none
Administrative private-vlan mapping: none

Administrative private-vlan trunk native VLAN: none
Administrative private-vlan trunk encapsulation: dot1q
Administrative private-vlan trunk normal VLANs: none
Administrative private-vlan trunk private VLANs: none
Operational private-vlan: none
Trunking VLANs Enabled: ALL
Pruning VLANs Enabled: 2-1001
Capture Mode Disabled
Capture VLANs Allowed: ALL
Protected: false
Appliance trust: none

Name: Fa0/5
Switchport: Enabled
Administrative Mode: static access
Operational Mode: down
Administrative Trunking Encapsulation: dot1q
Negotiation of Trunking: Off
Access Mode VLAN: 10 (VLAN0010)
Trunking Native Mode VLAN: 1 (default)
Voice VLAN: none
Administrative private-vlan host-association: none
Administrative private-vlan mapping: none
Administrative private-vlan trunk native VLAN: none
Administrative private-vlan trunk encapsulation: dot1q
Administrative private-vlan trunk normal VLANs: none
Administrative private-vlan trunk private VLANs: none
Operational private-vlan: none
Trunking VLANs Enabled: ALL
Pruning VLANs Enabled: 2-1001
Capture Mode Disabled
Capture VLANs Allowed: ALL
Protected: false
Appliance trust: none

Name: Fa0/6
Switchport: Enabled
Administrative Mode: static access
Operational Mode: down
Administrative Trunking Encapsulation: dot1q
Negotiation of Trunking: Off
Access Mode VLAN: 10 (VLAN0010)
Trunking Native Mode VLAN: 1 (default)
Voice VLAN: none
Administrative private-vlan host-association: none
Administrative private-vlan mapping: none
Administrative private-vlan trunk native VLAN: none
Administrative private-vlan trunk encapsulation: dot1q
Administrative private-vlan trunk normal VLANs: none
Administrative private-vlan trunk private VLANs: none
Operational private-vlan: none
Trunking VLANs Enabled: ALL
Pruning VLANs Enabled: 2-1001
Capture Mode Disabled

Capture VLANs Allowed: ALL
Protected: false
Appliance trust: none

Name: Fa0/7
Switchport: Enabled
Administrative Mode: static access
Operational Mode: down
Administrative Trunking Encapsulation: dot1q
Negotiation of Trunking: Off
Access Mode VLAN: 10 (VLAN0010)
Trunking Native Mode VLAN: 1 (default)
Voice VLAN: none
Administrative private-vlan host-association: none
Administrative private-vlan mapping: none
Administrative private-vlan trunk native VLAN: none
Administrative private-vlan trunk encapsulation: dot1q
Administrative private-vlan trunk normal VLANs: none
Administrative private-vlan trunk private VLANs: none
Operational private-vlan: none
Trunking VLANs Enabled: ALL
Pruning VLANs Enabled: 2-1001
Capture Mode Disabled
Capture VLANs Allowed: ALL
Protected: false
Appliance trust: none

Name: Fa0/8
Switchport: Enabled
Administrative Mode: static access
Operational Mode: down
Administrative Trunking Encapsulation: dot1q
Negotiation of Trunking: Off
Access Mode VLAN: 10 (VLAN0010)
Trunking Native Mode VLAN: 1 (default)
Voice VLAN: none
Administrative private-vlan host-association: none
Administrative private-vlan mapping: none
Administrative private-vlan trunk native VLAN: none
Administrative private-vlan trunk encapsulation: dot1q
Administrative private-vlan trunk normal VLANs: none
Administrative private-vlan trunk private VLANs: none
Operational private-vlan: none
Trunking VLANs Enabled: ALL
Pruning VLANs Enabled: 2-1001
Capture Mode Disabled
Capture VLANs Allowed: ALL
Protected: false
Appliance trust: none

Name: Fa0/9
Switchport: Enabled
Administrative Mode: static access
Operational Mode: down

Administrative Trunking Encapsulation: dot1q
Negotiation of Trunking: Off
Access Mode VLAN: 10 (VLAN0010)
Trunking Native Mode VLAN: 1 (default)
Voice VLAN: none
Administrative private-vlan host-association: none
Administrative private-vlan mapping: none
Administrative private-vlan trunk native VLAN: none
Administrative private-vlan trunk encapsulation: dot1q
Administrative private-vlan trunk normal VLANs: none
Administrative private-vlan trunk private VLANs: none
Operational private-vlan: none
Trunking VLANs Enabled: ALL
Pruning VLANs Enabled: 2-1001
Capture Mode Disabled
Capture VLANs Allowed: ALL
Protected: false
Appliance trust: none

Name: Fa0/10
Switchport: Enabled
Administrative Mode: static access
Operational Mode: down
Administrative Trunking Encapsulation: dot1q
Negotiation of Trunking: Off
Access Mode VLAN: 10 (VLAN0010)
Trunking Native Mode VLAN: 1 (default)
Voice VLAN: none
Administrative private-vlan host-association: none
Administrative private-vlan mapping: none
Administrative private-vlan trunk native VLAN: none
Administrative private-vlan trunk encapsulation: dot1q
Administrative private-vlan trunk normal VLANs: none
Administrative private-vlan trunk private VLANs: none
Operational private-vlan: none
Trunking VLANs Enabled: ALL
Pruning VLANs Enabled: 2-1001
Capture Mode Disabled
Capture VLANs Allowed: ALL
Protected: false
Appliance trust: none

Name: Fa0/11
Switchport: Enabled
Administrative Mode: static access
Operational Mode: down
Administrative Trunking Encapsulation: dot1q
Negotiation of Trunking: Off
Access Mode VLAN: 10 (VLAN0010)
Trunking Native Mode VLAN: 1 (default)
Voice VLAN: none
Administrative private-vlan host-association: none
Administrative private-vlan mapping: none
Administrative private-vlan trunk native VLAN: none

Administrative private-vlan trunk encapsulation: dot1q
Administrative private-vlan trunk normal VLANs: none
Administrative private-vlan trunk private VLANs: none
Operational private-vlan: none
Trunking VLANs Enabled: ALL
Pruning VLANs Enabled: 2-1001
Capture Mode Disabled
Capture VLANs Allowed: ALL
Protected: false
Appliance trust: none

Name: Fa0/12
Switchport: Enabled
Administrative Mode: static access
Operational Mode: down
Administrative Trunking Encapsulation: dot1q
Negotiation of Trunking: Off
Access Mode VLAN: 10 (VLAN0010)
Trunking Native Mode VLAN: 1 (default)
Voice VLAN: none
Administrative private-vlan host-association: none
Administrative private-vlan mapping: none
Administrative private-vlan trunk native VLAN: none
Administrative private-vlan trunk encapsulation: dot1q
Administrative private-vlan trunk normal VLANs: none
Administrative private-vlan trunk private VLANs: none
Operational private-vlan: none
Trunking VLANs Enabled: ALL
Pruning VLANs Enabled: 2-1001
Capture Mode Disabled
Capture VLANs Allowed: ALL
Protected: false
Appliance trust: none

Name: Fa0/13
Switchport: Enabled
Administrative Mode: static access
Operational Mode: down
Administrative Trunking Encapsulation: dot1q
Negotiation of Trunking: Off
Access Mode VLAN: 10 (VLAN0010)
Trunking Native Mode VLAN: 1 (default)
Voice VLAN: none
Administrative private-vlan host-association: none
Administrative private-vlan mapping: none
Administrative private-vlan trunk native VLAN: none
Administrative private-vlan trunk encapsulation: dot1q
Administrative private-vlan trunk normal VLANs: none
Administrative private-vlan trunk private VLANs: none
Operational private-vlan: none
Trunking VLANs Enabled: ALL
Pruning VLANs Enabled: 2-1001
Capture Mode Disabled
Capture VLANs Allowed: ALL

Protected: false
Appliance trust: none

Name: Fa0/14
Switchport: Enabled
Administrative Mode: static access
Operational Mode: down
Administrative Trunking Encapsulation: dot1q
Negotiation of Trunking: Off
Access Mode VLAN: 10 (VLAN0010)
Trunking Native Mode VLAN: 1 (default)
Voice VLAN: none
Administrative private-vlan host-association: none
Administrative private-vlan mapping: none
Administrative private-vlan trunk native VLAN: none
Administrative private-vlan trunk encapsulation: dot1q
Administrative private-vlan trunk normal VLANs: none
Administrative private-vlan trunk private VLANs: none
Operational private-vlan: none
Trunking VLANs Enabled: ALL
Pruning VLANs Enabled: 2-1001
Capture Mode Disabled
Capture VLANs Allowed: ALL
Protected: false
Appliance trust: none

Name: Fa0/15
Switchport: Enabled
Administrative Mode: static access
Operational Mode: down
Administrative Trunking Encapsulation: dot1q
Negotiation of Trunking: Off
Access Mode VLAN: 10 (VLAN0010)
Trunking Native Mode VLAN: 1 (default)
Voice VLAN: none
Administrative private-vlan host-association: none
Administrative private-vlan mapping: none
Administrative private-vlan trunk native VLAN: none
Administrative private-vlan trunk encapsulation: dot1q
Administrative private-vlan trunk normal VLANs: none
Administrative private-vlan trunk private VLANs: none
Operational private-vlan: none
Trunking VLANs Enabled: ALL
Pruning VLANs Enabled: 2-1001
Capture Mode Disabled
Capture VLANs Allowed: ALL
Protected: false
Appliance trust: none

Name: Fa0/16
Switchport: Enabled
Administrative Mode: trunk
Operational Mode: trunk (member of bundle Po2)
Administrative Trunking Encapsulation: dot1q

Operational Trunking Encapsulation: dot1q
Negotiation of Trunking: On
Access Mode VLAN: 1 (default)
Trunking Native Mode VLAN: 1 (default)
Voice VLAN: none
Administrative private-vlan host-association: none
Administrative private-vlan mapping: none
Administrative private-vlan trunk native VLAN: none
Administrative private-vlan trunk encapsulation: dot1q
Administrative private-vlan trunk normal VLANs: none
Administrative private-vlan trunk private VLANs: none
Operational private-vlan: none
Trunking VLANs Enabled: 10,200
Pruning VLANs Enabled: 2-1001
Capture Mode Disabled
Capture VLANs Allowed: ALL
Protected: false
Appliance trust: none

Name: Fa0/17
Switchport: Enabled
Administrative Mode: trunk
Operational Mode: trunk (member of bundle Po2)
Administrative Trunking Encapsulation: dot1q
Operational Trunking Encapsulation: dot1q
Negotiation of Trunking: On
Access Mode VLAN: 1 (default)
Trunking Native Mode VLAN: 1 (default)
Voice VLAN: none
Administrative private-vlan host-association: none
Administrative private-vlan mapping: none
Administrative private-vlan trunk native VLAN: none
Administrative private-vlan trunk encapsulation: dot1q
Administrative private-vlan trunk normal VLANs: none
Administrative private-vlan trunk private VLANs: none
Operational private-vlan: none
Trunking VLANs Enabled: 10,200
Pruning VLANs Enabled: 2-1001
Capture Mode Disabled
Capture VLANs Allowed: ALL
Protected: false
Appliance trust: none

Name: Fa0/18
Switchport: Enabled
Administrative Mode: trunk
Operational Mode: trunk (member of bundle Po2)
Administrative Trunking Encapsulation: dot1q
Operational Trunking Encapsulation: dot1q
Negotiation of Trunking: On
Access Mode VLAN: 1 (default)
Trunking Native Mode VLAN: 1 (default)
Voice VLAN: none
Administrative private-vlan host-association: none

Administrative private-vlan mapping: none
Administrative private-vlan trunk native VLAN: none
Administrative private-vlan trunk encapsulation: dot1q
Administrative private-vlan trunk normal VLANs: none
Administrative private-vlan trunk private VLANs: none
Operational private-vlan: none
Trunking VLANs Enabled: 10,200
Pruning VLANs Enabled: 2-1001
Capture Mode Disabled
Capture VLANs Allowed: ALL
Protected: false
Appliance trust: none

Name: Fa0/19
Switchport: Enabled
Administrative Mode: trunk
Operational Mode: trunk (member of bundle Po1)
Administrative Trunking Encapsulation: dot1q
Operational Trunking Encapsulation: dot1q
Negotiation of Trunking: On
Access Mode VLAN: 1 (default)
Trunking Native Mode VLAN: 1 (default)
Voice VLAN: none
Administrative private-vlan host-association: none
Administrative private-vlan mapping: none
Administrative private-vlan trunk native VLAN: none
Administrative private-vlan trunk encapsulation: dot1q
Administrative private-vlan trunk normal VLANs: none
Administrative private-vlan trunk private VLANs: none
Operational private-vlan: none
Trunking VLANs Enabled: 10,200
Pruning VLANs Enabled: 2-1001
Capture Mode Disabled
Capture VLANs Allowed: ALL
Protected: false
Appliance trust: none

Name: Fa0/20
Switchport: Enabled
Administrative Mode: trunk
Operational Mode: trunk (member of bundle Po1)
Administrative Trunking Encapsulation: dot1q
Operational Trunking Encapsulation: dot1q
Negotiation of Trunking: On
Access Mode VLAN: 1 (default)
Trunking Native Mode VLAN: 1 (default)
Voice VLAN: none
Administrative private-vlan host-association: none
Administrative private-vlan mapping: none
Administrative private-vlan trunk native VLAN: none
Administrative private-vlan trunk encapsulation: dot1q
Administrative private-vlan trunk normal VLANs: none
Administrative private-vlan trunk private VLANs: none
Operational private-vlan: none

Trunking VLANs Enabled: 10,200
Pruning VLANs Enabled: 2-1001
Capture Mode Disabled
Capture VLANs Allowed: ALL
Protected: false
Appliance trust: none

Name: Fa0/21
Switchport: Enabled
Administrative Mode: trunk
Operational Mode: trunk (member of bundle Po1)
Administrative Trunking Encapsulation: dot1q
Operational Trunking Encapsulation: dot1q
Negotiation of Trunking: On
Access Mode VLAN: 1 (default)
Trunking Native Mode VLAN: 1 (default)
Voice VLAN: none
Administrative private-vlan host-association: none
Administrative private-vlan mapping: none
Administrative private-vlan trunk native VLAN: none
Administrative private-vlan trunk encapsulation: dot1q
Administrative private-vlan trunk normal VLANs: none
Administrative private-vlan trunk private VLANs: none
Operational private-vlan: none
Trunking VLANs Enabled: 10,200
Pruning VLANs Enabled: 2-1001
Capture Mode Disabled
Capture VLANs Allowed: ALL
Protected: false
Appliance trust: none

Name: Fa0/22
Switchport: Enabled
Administrative Mode: trunk
Operational Mode: down
Administrative Trunking Encapsulation: dot1q
Negotiation of Trunking: On
Access Mode VLAN: 1 (default)
Trunking Native Mode VLAN: 1 (default)
Voice VLAN: none
Administrative private-vlan host-association: none
Administrative private-vlan mapping: none
Administrative private-vlan trunk native VLAN: none
Administrative private-vlan trunk encapsulation: dot1q
Administrative private-vlan trunk normal VLANs: none
Administrative private-vlan trunk private VLANs: none
Operational private-vlan: none
Trunking VLANs Enabled: ALL
Pruning VLANs Enabled: 2-1001
Capture Mode Disabled
Capture VLANs Allowed: ALL
Protected: false
Appliance trust: none

Name: Fa0/23
Switchport: Enabled
Administrative Mode: trunk
Operational Mode: down
Administrative Trunking Encapsulation: dot1q
Negotiation of Trunking: On
Access Mode VLAN: 1 (default)
Trunking Native Mode VLAN: 1 (default)
Voice VLAN: none
Administrative private-vlan host-association: none
Administrative private-vlan mapping: none
Administrative private-vlan trunk native VLAN: none
Administrative private-vlan trunk encapsulation: dot1q
Administrative private-vlan trunk normal VLANs: none
Administrative private-vlan trunk private VLANs: none
Operational private-vlan: none
Trunking VLANs Enabled: ALL
Pruning VLANs Enabled: 2-1001
Capture Mode Disabled
Capture VLANs Allowed: ALL
Protected: false
Appliance trust: none

Name: Fa0/24
Switchport: Enabled
Administrative Mode: trunk
Operational Mode: down
Administrative Trunking Encapsulation: dot1q
Negotiation of Trunking: On
Access Mode VLAN: 1 (default)
Trunking Native Mode VLAN: 1 (default)
Voice VLAN: none
Administrative private-vlan host-association: none
Administrative private-vlan mapping: none
Administrative private-vlan trunk native VLAN: none
Administrative private-vlan trunk encapsulation: dot1q
Administrative private-vlan trunk normal VLANs: none
Administrative private-vlan trunk private VLANs: none
Operational private-vlan: none
Trunking VLANs Enabled: ALL
Pruning VLANs Enabled: 2-1001
Capture Mode Disabled
Capture VLANs Allowed: ALL
Protected: false
Appliance trust: none

Name: Po1
Switchport: Enabled
Administrative Mode: trunk
Operational Mode: trunk
Administrative Trunking Encapsulation: dot1q
Operational Trunking Encapsulation: dot1q
Negotiation of Trunking: On
Access Mode VLAN: 1 (default)

Trunking Native Mode VLAN: 1 (default)
Voice VLAN: none
Administrative private-vlan host-association: none
Administrative private-vlan mapping: none
Administrative private-vlan trunk native VLAN: none
Administrative private-vlan trunk encapsulation: dot1q
Administrative private-vlan trunk normal VLANs: none
Administrative private-vlan trunk private VLANs: none
Operational private-vlan: none
Trunking VLANs Enabled: 10,200
Pruning VLANs Enabled: 2-1001
Protected: false
Appliance trust: none

Name: Po2
Switchport: Enabled
Administrative Mode: trunk
Operational Mode: trunk
Administrative Trunking Encapsulation: dot1q
Operational Trunking Encapsulation: dot1q
Negotiation of Trunking: On
Access Mode VLAN: 1 (default)
Trunking Native Mode VLAN: 1 (default)
Voice VLAN: none
Administrative private-vlan host-association: none
Administrative private-vlan mapping: none
Administrative private-vlan trunk native VLAN: none
Administrative private-vlan trunk encapsulation: dot1q
Administrative private-vlan trunk normal VLANs: none
Administrative private-vlan trunk private VLANs: none
Operational private-vlan: none
Trunking VLANs Enabled: 10,200
Pruning VLANs Enabled: 2-1001
Protected: false
Appliance trust: none
ASW1#

```
ASW1#show interfaces trunk
```

| Port | Mode | Encapsulation | Status | Native vlan |
|------|------|---------------|----------|-------------|
| Po1 | on | 802.1q | trunking | 1 |
| Po2 | on | 802.1q | trunking | 1 |

```
Port      Vlans allowed on trunk
```

```
Po1      10,200
```

```
Po2      10,200
```

```
Port      Vlans allowed and active in management domain
```

```
Po1      10,200
```

```
Po2      10,200
```

```
Port      Vlans in spanning tree forwarding state and not pruned
```

```
Po1      10,200
```

```
Po2      10,200
```

```
ASW1#
```

```
ASW1#show vtp status
VTP Version                : 2
Configuration Revision     : 0
Maximum VLANs supported locally : 64
Number of existing VLANs   : 9
VTP Operating Mode        : Transparent
VTP Domain Name           : netlearning
VTP Pruning Mode          : Disabled
VTP V2 Mode               : Enabled
VTP Traps Generation      : Disabled
MD5 digest                 : 0x76 0x8E 0xDC 0x90 0x2C 0x42 0xD3 0x04
Configuration last modified by 192.168.1.131 at 0-0-00 00:00:00
ASW1#
```

```
ASW1#show vtp password
VTP Password: cisco
ASW1#
```


ASW1#show etherchannel detail

Channel-group listing:

Group: 1

Group state = L2

Ports: 3 Maxports = 16

Port-channels: 1 Max Port-channels = 16

Protocol: LACP

Ports in the group:

Port: Fa0/19

Port state = Up Mstr In-Bndl

Channel group = 1 Mode = Passive

Gcchange = -

Port-channel = Po1 GC = -

Pseudo port-channel =

Po1

Port index = 0 Load = 0x00

Protocol = LACP

Flags: S - Device is sending Slow LACPDUs F - Device is sending fast LACPDUs.

A - Device is in active mode. P - Device is in passive mode.

Local information:

| LACP port | Admin | Oper | Port | Port |
|-----------|-------|------|------|------|
|-----------|-------|------|------|------|

| Port | Flags | State | Priority | Key | Key | Number | |
|--------|-------|-------|----------|-----|-----|--------|------|
| Fa0/19 | SP | bndl | 32768 | 0x1 | 0x1 | 0x13 | 0x3C |

Partner's information:

| Port | Flags | LACP port | Priority | Dev ID | Age | Oper | Port | Port |
|--------|-------|-----------|----------------|--------|-----|------|--------|-------|
| State | | | | | | Key | Number | State |
| Fa0/19 | SA | 32768 | 000d.bde3.6e00 | 8s | 0xD | 0x10 | 0x3D | |

Age of the port in the current state: 0d:02h:18m:16s

Port: Fa0/20

Port state = Up Mstr In-Bndl
Channel group = 1 Mode = Passive Gcchange = -
Port-channel = Po1 GC = - Pseudo port-channel =
Po1
Port index = 0 Load = 0x00 Protocol = LACP

Flags: S - Device is sending Slow LACPDUs F - Device is sending fast LACPDUs.
A - Device is in active mode. P - Device is in passive mode.

Local information:

| Port | Flags | State | LACP port | Admin | Oper | Port | Port |
|--------|-------|-------|-----------|-------|------|--------|------|
| State | | | Priority | Key | Key | Number | |
| Fa0/20 | SP | bndl | 32768 | 0x1 | 0x1 | 0x14 | 0x3C |

Partner's information:

| Port | Flags | LACP port | Priority | Dev ID | Age | Oper | Port | Port |
|--------|-------|-----------|----------------|--------|-----|------|--------|-------|
| State | | | | | | Key | Number | State |
| Fa0/20 | SA | 32768 | 000d.bde3.6e00 | 22s | 0xD | 0x11 | 0x3D | |

Age of the port in the current state: 0d:02h:18m:17s

Port: Fa0/21

Port state = Up Mstr In-Bndl
Channel group = 1 Mode = Passive Gcchange = -
Port-channel = Po1 GC = - Pseudo port-channel =
Po1
Port index = 0 Load = 0x00 Protocol = LACP

Flags: S - Device is sending Slow LACPDUs F - Device is sending fast LACPDUs.
A - Device is in active mode. P - Device is in passive mode.

Local information:

| Port | Flags | State | LACP port Priority | Admin Key | Oper Key | Port Number | Port |
|--------|-------|-------|-----------------------|--------------|-------------|----------------|------|
| Fa0/21 | SP | bndl | 32768 | 0x1 | 0x1 | 0x15 | 0x3C |

Partner's information:

| Port | Flags | LACP port Priority | Dev ID | Age | Oper Key | Port Number | Port State |
|--------|-------|-----------------------|----------------|-----|-------------|----------------|---------------|
| Fa0/21 | SA | 32768 | 000d.bde3.6e00 | 2s | 0xD | 0x12 | 0x3D |

Age of the port in the current state: 0d:02h:18m:18s

Port-channels in the group:

Port-channel: Po1 (Primary Aggregator)

Age of the Port-channel = 0d:02h:19m:50s
Logical slot/port = 1/0 Number of ports = 3
HotStandBy port = null
Port state = Port-channel Ag-Inuse
Protocol = LACP

Ports in the Port-channel:

| Index | Load | Port | EC state | No of bits |
|-------|------|--------|----------|------------|
| 0 | 00 | Fa0/19 | Passive | 0 |
| 0 | 00 | Fa0/20 | Passive | 0 |
| 0 | 00 | Fa0/21 | Passive | 0 |

Time since last port bundled: 0d:02h:18m:19s Fa0/19

Group: 2

Group state = L2
Ports: 3 Maxports = 16
Port-channels: 1 Max Port-channels = 16
Protocol: LACP

Ports in the group:

Port: Fa0/16

Port state = Up Mstr In-Bndl
Channel group = 2 Mode = Active Gcchange = -
Port-channel = Po2 GC = - Pseudo port-channel =
Po2
Port index = 0 Load = 0x00 Protocol = LACP

Flags: S - Device is sending Slow LACPDUs F - Device is sending fast LACPDUs.
A - Device is in active mode. P - Device is in passive mode.

Local information:

| Port | Flags | State | LACP port Priority | Admin Key | Oper Key | Port Number | Port |
|--------|-------|-------|-----------------------|--------------|-------------|----------------|------|
| Fa0/16 | SA | bndl | 32768 | 0x2 | 0x2 | 0x10 | 0x3D |

Partner's information:

| Port | Flags | LACP port Priority | Dev ID | Age | Oper Key | Port Number | Port State |
|--------|-------|-----------------------|----------------|-----|-------------|----------------|---------------|
| Fa0/16 | SA | 32768 | 000b.fd20.ba00 | 10s | 0x17 | 0x10 | 0x3D |

Age of the port in the current state: 0d:02h:17m:31s

Port: Fa0/17

Port state = Up Mstr In-Bndl
Channel group = 2 Mode = Active Gcchange = -
Port-channel = Po2 GC = - Pseudo port-channel =
Po2
Port index = 0 Load = 0x00 Protocol = LACP

Flags: S - Device is sending Slow LACPDUs F - Device is sending fast LACPDUs.
A - Device is in active mode. P - Device is in passive mode.

Local information:

| Port | Flags | State | LACP port Priority | Admin Key | Oper Key | Port Number | Port |
|--------|-------|-------|-----------------------|--------------|-------------|----------------|------|
| Fa0/17 | SA | bndl | 32768 | 0x2 | 0x2 | 0x11 | 0x3D |

Partner's information:

| Port | Flags | LACP port Priority | Dev ID | Age | Oper Key | Port Number | Port State |
|--------|-------|-----------------------|----------------|-----|-------------|----------------|---------------|
| Fa0/17 | SA | 32768 | 000b.fd20.ba00 | 12s | 0x17 | 0x11 | 0x3D |

Age of the port in the current state: 0d:02h:17m:32s

Port: Fa0/18

Port state = Up Mstr In-Bndl
Channel group = 2 Mode = Active Gcchange = -
Port-channel = Po2 GC = - Pseudo port-channel =
Po2

Port index = 0 Load = 0x00 Protocol = LACP

Flags: S - Device is sending Slow LACPDUs F - Device is sending fast LACPDUs.

A - Device is in active mode. P - Device is in passive mode.

Local information:

| Port | Flags | State | LACP port Priority | Admin Key | Oper Key | Port Number | Port |
|--------|-------|-------|--------------------|-----------|----------|-------------|------|
| Fa0/18 | SA | bndl | 32768 | 0x2 | 0x2 | 0x12 | 0x3D |

Partner's information:

| Port | Flags | LACP port Priority | Dev ID | Age | Oper Key | Port Number | Port State |
|--------|-------|--------------------|----------------|-----|----------|-------------|------------|
| Fa0/18 | SA | 32768 | 000b.fd20.ba00 | 8s | 0x17 | 0x12 | 0x3D |

Age of the port in the current state: 0d:02h:17m:33s

Port-channels in the group:

Port-channel: Po2 (Primary Aggregator)

Age of the Port-channel = 0d:02h:19m:55s
 Logical slot/port = 1/1 Number of ports = 3
 HotStandBy port = null
 Port state = Port-channel Ag-Inuse
 Protocol = LACP

Ports in the Port-channel:

| Index | Load | Port | EC state | No of bits |
|-------|------|--------|----------|------------|
| 0 | 00 | Fa0/16 | Active | 0 |
| 0 | 00 | Fa0/17 | Active | 0 |
| 0 | 00 | Fa0/18 | Active | 0 |

Time since last port bundled: 0d:02h:17m:35s Fa0/18

ASW1#

```
ASW1#show spanning-tree inconsistentports
```

| Name | Interface | Inconsistency |
|------|-----------|---------------|
|------|-----------|---------------|

Number of inconsistent ports (segments) in the system : 0

```
ASW1#
```

```
ASW1#show spanning-tree summary
```

```
Switch is in pvst mode
```

```
Root bridge for: VLAN0100
```

```
EtherChannel misconfig guard is enabled  
Extended system ID          is enabled  
Portfast Default            is disabled  
PortFast BPDU Guard Default is disabled  
Portfast BPDU Filter Default is disabled  
Loopguard Default           is disabled  
UplinkFast                   is disabled  
BackboneFast                 is disabled  
Pathcost method used         is short
```

| Name | Blocking | Listening | Learning | Forwarding | STP Active |
|----------|----------|-----------|----------|------------|------------|
| VLAN0010 | 0 | 0 | 0 | 2 | 2 |
| VLAN0100 | 0 | 0 | 0 | 1 | 1 |
| VLAN0200 | 0 | 0 | 0 | 2 | 2 |
| 3 vlans | 0 | 0 | 0 | 5 | 5 |

```
ASW1#
```

```
ASW1#show uddl
```

```
Interface Fa0/1
```

```
---
```

```
Port enable administrative configuration setting: Disabled
```

```
Port enable operational state: Disabled
```

```
Current bidirectional state: Unknown
```

```
Interface Fa0/2
```

```
---
```

```
Port enable administrative configuration setting: Disabled
```

```
Port enable operational state: Disabled
```

```
Current bidirectional state: Unknown
```


Interface Fa0/3

Port enable administrative configuration setting: Disabled
Port enable operational state: Disabled
Current bidirectional state: Unknown

Interface Fa0/4

Port enable administrative configuration setting: Disabled
Port enable operational state: Disabled
Current bidirectional state: Unknown

Interface Fa0/5

Port enable administrative configuration setting: Disabled
Port enable operational state: Disabled
Current bidirectional state: Unknown

Interface Fa0/6

Port enable administrative configuration setting: Disabled
Port enable operational state: Disabled
Current bidirectional state: Unknown

Interface Fa0/7

Port enable administrative configuration setting: Disabled
Port enable operational state: Disabled
Current bidirectional state: Unknown

Interface Fa0/8

Port enable administrative configuration setting: Disabled
Port enable operational state: Disabled
Current bidirectional state: Unknown

Interface Fa0/9

Port enable administrative configuration setting: Disabled
Port enable operational state: Disabled
Current bidirectional state: Unknown

Interface Fa0/10

Port enable administrative configuration setting: Disabled
Port enable operational state: Disabled
Current bidirectional state: Unknown

Interface Fa0/11

Port enable administrative configuration setting: Disabled
Port enable operational state: Disabled
Current bidirectional state: Unknown

Interface Fa0/12

Port enable administrative configuration setting: Disabled
Port enable operational state: Disabled
Current bidirectional state: Unknown

Interface Fa0/13

Port enable administrative configuration setting: Disabled
Port enable operational state: Disabled
Current bidirectional state: Unknown

Interface Fa0/14

Port enable administrative configuration setting: Disabled
Port enable operational state: Disabled
Current bidirectional state: Unknown

Interface Fa0/15

Port enable administrative configuration setting: Disabled
Port enable operational state: Disabled
Current bidirectional state: Unknown

Interface Fa0/16

Port enable administrative configuration setting: Disabled
Port enable operational state: Disabled
Current bidirectional state: Unknown

Interface Fa0/17

Port enable administrative configuration setting: Disabled
Port enable operational state: Disabled
Current bidirectional state: Unknown

Interface Fa0/18

Port enable administrative configuration setting: Disabled
Port enable operational state: Disabled
Current bidirectional state: Unknown

Interface Fa0/19

Port enable administrative configuration setting: Disabled
Port enable operational state: Disabled
Current bidirectional state: Unknown

Interface Fa0/20

Port enable administrative configuration setting: Disabled
Port enable operational state: Disabled
Current bidirectional state: Unknown

Interface Fa0/21

Port enable administrative configuration setting: Disabled

Port enable operational state: Disabled

Current bidirectional state: Unknown

Interface Fa0/22

Port enable administrative configuration setting: Disabled

Port enable operational state: Disabled

Current bidirectional state: Unknown

Interface Fa0/23

Port enable administrative configuration setting: Disabled

Port enable operational state: Disabled

Current bidirectional state: Unknown

Interface Fa0/24

Port enable administrative configuration setting: Disabled

Port enable operational state: Disabled

Current bidirectional state: Unknown

ASW1#

ASW1#show etherchannel summary

Flags: D - down P - in port-channel
I - stand-alone s - suspended
H - Hot-standby (LACP only)
R - Layer3 S - Layer2
u - unsuitable for bundling
U - in use f - failed to allocate aggregator
d - default port

Number of channel-groups in use: 2

Number of aggregators: 2

| Group | Port-channel | Protocol | Ports | | |
|-------|--------------|----------|-------------|------------|------------|
| 1 | Po1 (SU) | LACP | Fa0/19 (Pd) | Fa0/20 (P) | Fa0/21 (P) |
| 2 | Po2 (SU) | LACP | Fa0/16 (Pd) | Fa0/17 (P) | Fa0/18 (P) |

ASW1#

```
ASW1#show etherchannel protocol
      Channel-group listing:
```

```
-----
```

```
Group: 1
```

```
-----
```

```
Protocol: LACP
```

```
Group: 2
```

```
-----
```

```
Protocol: LACP
```

```
ASW1#
```

ASW1#show etherchannel port

Channel-group listing:

Group: 1

Ports in the group:

Port: Fa0/19

Port state = Up Mstr In-Bndl

Channel group = 1 Mode = Passive

Gcchange = -

Port-channel = Po1 GC = -

Pseudo port-channel =

Po1

Port index = 0 Load = 0x00

Protocol = LACP

Flags: S - Device is sending Slow LACPDU LACPDU. F - Device is sending fast LACPDU.

A - Device is in active mode. mode.

P - Device is in passive

Local information:

| Port | Flags | State | LACP port Priority | Admin Key | Oper Key | Port Number | Port |
|--------|-------|-------|-----------------------|--------------|-------------|----------------|------|
| Fa0/19 | SP | bndl | 32768 | 0x1 | 0x1 | 0x13 | 0x3C |

Partner's information:

| Port | Flags | LACP port Priority | Dev ID | Age | Oper Key | Port Number | Port State |
|--------|-------|-----------------------|----------------|-----|-------------|----------------|---------------|
| Fa0/19 | SA | 32768 | 000d.bde3.6e00 | 0s | 0xD | 0x10 | 0x3D |

Age of the port in the current state: 0d:02h:19m:06s

Port: Fa0/20

```

-----
Port state      = Up Mstr In-Bndl
Channel group  = 1          Mode = Passive      Gcchange = -
Port-channel   = Po1       GC   = -          Pseudo port-channel =
Po1
Port index     = 0          Load = 0x00      Protocol = LACP

```

Flags: S - Device is sending Slow LACPDUs F - Device is sending fast LACPDUs.
 A - Device is in active mode. P - Device is in passive mode.

Local information:

| Port | Flags | State | LACP port Priority | Admin Key | Oper Key | Port Number | Port State |
|--------|-------|-------|-----------------------|--------------|-------------|----------------|---------------|
| Fa0/20 | SP | bndl | 32768 | 0x1 | 0x1 | 0x14 | 0x3C |

Partner's information:

| Port | Flags | LACP port Priority | Dev ID | Age | Oper Key | Port Number | Port State |
|--------|-------|-----------------------|----------------|-----|-------------|----------------|---------------|
| Fa0/20 | SA | 32768 | 000d.bde3.6e00 | 19s | 0xD | 0x11 | 0x3D |

Age of the port in the current state: 0d:02h:19m:08s

Port: Fa0/21

```

-----
Port state      = Up Mstr In-Bndl
Channel group  = 1          Mode = Passive      Gcchange = -
Port-channel   = Po1       GC   = -          Pseudo port-channel =
Po1
Port index     = 0          Load = 0x00      Protocol = LACP

```

Flags: S - Device is sending Slow LACPDUs F - Device is sending fast LACPDUs.
 A - Device is in active mode. P - Device is in passive mode.

Local information:

| Port | Flags | State | LACP port Priority | Admin Key | Oper Key | Port Number | Port State |
|--------|-------|-------|-----------------------|--------------|-------------|----------------|---------------|
| Fa0/21 | SP | bndl | 32768 | 0x1 | 0x1 | 0x15 | 0x3C |

Partner's information:

| Port | Flags | LACP port Priority | Dev ID | Age | Oper Key | Port Number | Port State |
|--------|-------|-----------------------|----------------|-----|-------------|----------------|---------------|
| Fa0/21 | SA | 32768 | 000d.bde3.6e00 | 23s | 0xD | 0x12 | 0x3D |

Age of the port in the current state: 0d:02h:19m:09s

Group: 2

Ports in the group:

Port: Fa0/16

Port state = Up Mstr In-Bndl
Channel group = 2 Mode = Active Gcchange = -
Port-channel = Po2 GC = - Pseudo port-channel =
Po2
Port index = 0 Load = 0x00 Protocol = LACP

Flags: S - Device is sending Slow LACPDUs F - Device is sending fast
LACPDUs.
A - Device is in active mode. P - Device is in passive
mode.

Local information:

| Port | Flags | State | LACP port Priority | Admin Key | Oper Key | Port Number | Port State |
|--------|-------|-------|-----------------------|--------------|-------------|----------------|---------------|
| Fa0/16 | SA | bndl | 32768 | 0x2 | 0x2 | 0x10 | 0x3D |

Partner's information:

| Port | Flags | LACP port Priority | Dev ID | Age | Oper Key | Port Number | Port State |
|--------|-------|-----------------------|----------------|-----|-------------|----------------|---------------|
| Fa0/16 | SA | 32768 | 000b.fd20.ba00 | 3s | 0x17 | 0x10 | 0x3D |

Age of the port in the current state: 0d:02h:18m:21s

Port: Fa0/17

Port state = Up Mstr In-Bndl
Channel group = 2 Mode = Active Gcchange = -
Port-channel = Po2 GC = - Pseudo port-channel =
Po2
Port index = 0 Load = 0x00 Protocol = LACP

Flags: S - Device is sending Slow LACPDUs F - Device is sending fast
LACPDUs.
A - Device is in active mode. P - Device is in passive
mode.

Local information:

| Port | Flags | State | LACP port Priority | Admin Key | Oper Key | Port Number | Port |
|--------|-------|-------|-----------------------|--------------|-------------|----------------|------|
| Fa0/17 | SA | bndl | 32768 | 0x2 | 0x2 | 0x11 | 0x3D |

Partner's information:

| Port | Flags | LACP port Priority | Dev ID | Age | Oper Key | Port Number | Port State |
|--------|-------|-----------------------|----------------|-----|-------------|----------------|---------------|
| Fa0/17 | SA | 32768 | 000b.fd20.ba00 | 4s | 0x17 | 0x11 | 0x3D |

Age of the port in the current state: 0d:02h:18m:22s

Port: Fa0/18

Port state = Up Mstr In-Bndl
Channel group = 2 Mode = Active Gcchange = -
Port-channel = Po2 GC = - Pseudo port-channel =
Po2
Port index = 0 Load = 0x00 Protocol = LACP

Flags: S - Device is sending Slow LACPDUs F - Device is sending fast
LACPDUs.

A - Device is in active mode. P - Device is in passive
mode.

Local information:

| Port | Flags | State | LACP port Priority | Admin Key | Oper Key | Port Number | Port |
|--------|-------|-------|-----------------------|--------------|-------------|----------------|------|
| Fa0/18 | SA | bndl | 32768 | 0x2 | 0x2 | 0x12 | 0x3D |

Partner's information:

| Port | Flags | LACP port Priority | Dev ID | Age | Oper Key | Port Number | Port State |
|--------|-------|-----------------------|----------------|-----|-------------|----------------|---------------|
| Fa0/18 | SA | 32768 | 000b.fd20.ba00 | 4s | 0x17 | 0x12 | 0x3D |

Age of the port in the current state: 0d:02h:18m:23s

ASW1#

```
ASW1#show etherchannel load-balance
Source MAC address
ASW1#
```

```
ASW1#show etherchannel port-channel
      Channel-group listing:
      -----
```

```
Group: 1
-----
```

```
      Port-channels in the group:
      -----
```

```
Port-channel: Po1      (Primary Aggregator)
-----
```

```
Age of the Port-channel      =0d:02h:20m:56s
Logical slot/port      = 1/0      Number of ports = 3
HotStandBy port = null
Port state      = Port-channel Ag-Inuse
Protocol      = LACP
```

```
Ports in the Port-channel:
```

| Index | Load | Port | EC state | No of bits |
|-------|------|--------|----------|------------|
| 0 | 00 | Fa0/19 | Passive | 0 |
| 0 | 00 | Fa0/20 | Passive | 0 |
| 0 | 00 | Fa0/21 | Passive | 0 |

```
Time since last port bundled:      0d:02h:19m:24s      Fa0/19
```

Group: 2

Port-channels in the group:

Port-channel: Po2 (Primary Aggregator)

Age of the Port-channel = 0d:02h:20m:56s
Logical slot/port = 1/1 Number of ports = 3
HotStandBy port = null
Port state = Port-channel Ag-Inuse
Protocol = LACP

Ports in the Port-channel:

| Index | Load | Port | EC state | No of bits |
|-------|------|--------|----------|------------|
| 0 | 00 | Fa0/16 | Active | 0 |
| 0 | 00 | Fa0/17 | Active | 0 |
| 0 | 00 | Fa0/18 | Active | 0 |

Time since last port bundled: 0d:02h:18m:36s Fa0/18

ASW1#

```
ASW1#show pagp neighbor
```

```
ASW1#
```

ASW1#show lacp neighbor

Flags: S - Device is requesting Slow LACPDUs
F - Device is requesting Fast LACPDUs
A - Device is in Active mode P - Device is in Passive mode

Channel group 1 neighbors

Partner's information:

| Port | Flags | LACP port Priority | Dev ID | Age | Oper Key | Port Number | Port State |
|--------|-------|-----------------------|----------------|-----|-------------|----------------|---------------|
| Fa0/19 | SA | 32768 | 000d.bde3.6e00 | 6s | 0xD | 0x10 | 0x3D |
| Fa0/20 | SA | 32768 | 000d.bde3.6e00 | 22s | 0xD | 0x11 | 0x3D |
| Fa0/21 | SA | 32768 | 000d.bde3.6e00 | 26s | 0xD | 0x12 | 0x3D |

Channel group 2 neighbors

Partner's information:

| Port | Flags | LACP port Priority | Dev ID | Age | Oper Key | Port Number | Port State |
|--------|-------|-----------------------|----------------|-----|-------------|----------------|---------------|
| Fa0/16 | SA | 32768 | 000b.fd20.ba00 | 7s | 0x17 | 0x10 | 0x3D |
| Fa0/17 | SA | 32768 | 000b.fd20.ba00 | 3s | 0x17 | 0x11 | 0x3D |
| Fa0/18 | SA | 32768 | 000b.fd20.ba00 | 2s | 0x17 | 0x12 | 0x3D |

ASW1#

ASW1#show port-security

| Secure Port | MaxSecureAddr | CurrentAddr | SecurityViolation | Security |
|-------------|---------------|-------------|-------------------|----------|
|-------------|---------------|-------------|-------------------|----------|

| Action | (Count) | (Count) | (Count) | |
|----------|---------|---------|---------|--|
| ----- | | | | |
| -- | | | | |
| Fa0/1 | 1 | 1 | 0 | |
| Shutdown | | | | |
| Fa0/2 | 1 | 0 | 0 | |
| Shutdown | | | | |
| Fa0/3 | 1 | 0 | 0 | |
| Shutdown | | | | |
| Fa0/4 | 1 | 0 | 0 | |
| Shutdown | | | | |
| Fa0/5 | 1 | 0 | 0 | |
| Shutdown | | | | |
| Fa0/6 | 1 | 0 | 0 | |
| Shutdown | | | | |
| Fa0/7 | 1 | 0 | 0 | |
| Shutdown | | | | |
| Fa0/8 | 1 | 0 | 0 | |
| Shutdown | | | | |
| Fa0/9 | 1 | 0 | 0 | |
| Shutdown | | | | |
| Fa0/10 | 1 | 0 | 0 | |
| Shutdown | | | | |
| Fa0/11 | 1 | 0 | 0 | |
| Shutdown | | | | |
| Fa0/12 | 1 | 0 | 0 | |
| Shutdown | | | | |
| Fa0/13 | 1 | 0 | 0 | |
| Shutdown | | | | |

| | | | |
|----------|---|---|---|
| Fa0/14 | 1 | 0 | 0 |
| Shutdown | | | |
| Fa0/15 | 1 | 0 | 0 |
| Shutdown | | | |

--
Total Addresses in System (excluding one mac per port) : 0
Max Addresses limit in System (excluding one mac per port) : 1024

ASW1#

ASW1#show port-security address

Secure Mac Address Table

| Vlan | Mac Address | Type | Ports | Remaining Age (mins) |
|------|----------------|---------------|-------|----------------------|
| 100 | 001c.238e.dbbc | SecureDynamic | Fa0/1 | - |

Total Addresses in System (excluding one mac per port) : 0
Max Addresses limit in System (excluding one mac per port) : 1024

ASW1#