```
ASW2#
ASW2#show running-config
Building configuration...
Current configuration: 3795 bytes
version 12.1
no service pad
service timestamps debug uptime
service timestamps log uptime
no service password-encryption
!
hostname ASW2
enable secret 5 $1$YjQA$8IZI6/8ArQFD/ct60ebrY.
ip subnet-zero
!
spanning-tree mode pvst
no spanning-tree optimize bpdu transmission
spanning-tree extend system-id
!
!
interface Port-channel1
 switchport trunk allowed vlan 20,200
 switchport mode trunk
flowcontrol send off
interface Port-channel2
 switchport trunk allowed vlan 20,200
 switchport mode trunk
flowcontrol send off
!
interface FastEthernet0/1
 switchport access vlan 20
 switchport mode access
 switchport port-security
 shutdown
 spanning-tree portfast
interface FastEthernet0/2
 switchport access vlan 20
 switchport mode access
 switchport port-security
 shutdown
 spanning-tree portfast
interface FastEthernet0/3
 switchport access vlan 20
 switchport mode access
 switchport port-security
```

```
shutdown
spanning-tree portfast
interface FastEthernet0/4
switchport access vlan 20
 switchport mode access
 switchport port-security
shutdown
spanning-tree portfast
interface FastEthernet0/5
switchport access vlan 20
switchport mode access
 switchport port-security
shutdown
spanning-tree portfast
interface FastEthernet0/6
switchport access vlan 20
switchport mode access
switchport port-security
shutdown
spanning-tree portfast
interface FastEthernet0/7
 switchport access vlan 20
switchport mode access
switchport port-security
shutdown
spanning-tree portfast
interface FastEthernet0/8
switchport access vlan 20
 switchport mode access
switchport port-security
shutdown
spanning-tree portfast
interface FastEthernet0/9
switchport access vlan 20
switchport mode access
switchport port-security
shutdown
spanning-tree portfast
interface FastEthernet0/10
switchport access vlan 20
switchport mode access
switchport port-security
shutdown
spanning-tree portfast
interface FastEthernet0/11
 switchport access vlan 20
```

```
switchport mode access
 switchport port-security
 shutdown
spanning-tree portfast
interface FastEthernet0/12
 switchport access vlan 20
 switchport mode access
switchport port-security
shutdown
spanning-tree portfast
interface FastEthernet0/13
 switchport access vlan 20
 switchport mode access
switchport port-security
shutdown
spanning-tree portfast
interface FastEthernet0/14
switchport access vlan 20
 switchport mode access
switchport port-security
shutdown
spanning-tree portfast
interface FastEthernet0/15
switchport access vlan 20
switchport mode access
switchport port-security
spanning-tree portfast
interface FastEthernet0/16
 switchport trunk allowed vlan 20,200
switchport mode trunk
channel-group 2 mode desirable
interface FastEthernet0/17
switchport trunk allowed vlan 20,200
switchport mode trunk
channel-group 2 mode desirable
interface FastEthernet0/18
 switchport trunk allowed vlan 20,200
switchport mode trunk
channel-group 2 mode desirable
interface FastEthernet0/19
 switchport trunk allowed vlan 20,200
 switchport mode trunk
channel-group 1 mode desirable
interface FastEthernet0/20
 switchport trunk allowed vlan 20,200
```

```
switchport mode trunk
 channel-group 1 mode desirable
interface FastEthernet0/21
 switchport trunk allowed vlan 20,200
 switchport mode trunk
channel-group 1 mode desirable
interface FastEthernet0/22
 switchport mode trunk
interface FastEthernet0/23
switchport mode trunk
interface FastEthernet0/24
switchport mode trunk
interface Vlan1
no ip address
no ip route-cache
shutdown
interface Vlan200
ip address 192.168.1.132 255.255.255.224
no ip route-cache
ip http server
line con 0
exec-timeout 0 0
logging synchronous
line vty 0 4
password cisco
login
line vty 5 15
password cisco
login
end
```

ASW2#

ASW2#show ip interface bri	_ef		
Interface	IP-Address	OK? Method	Status
Protocol Vlan1	unaggignod	AEC MINDAM	administratively
down down	unassigned	YES NVRAM	administratively
Vlan200	192.168.1.132	YES NVRAM	up
up FastEthernet0/1	unassigned	YES unset	administratively
down down	unassigned	IES diisec	administrativery
FastEthernet0/2	unassigned	YES unset	administratively
down down FastEthernet0/3	unassigned	YES unset	administratively
down down	anabbignea	TES GIRCE	daminiberativery
FastEthernet0/4	unassigned	YES unset	administratively
down down FastEthernet0/5	unassigned	YES unset	administratively
down down	_		_
FastEthernet0/6 down down	unassigned	YES unset	administratively
FastEthernet0/7	unassigned	YES unset	administratively
down down	_		<u>-</u>
FastEthernet0/8 down down	unassigned	YES unset	administratively
COWII COWII			

FastEthernet0/9 down down	unassigned	YES unset	administratively
FastEthernet0/10 down down	unassigned	YES unset	administratively
FastEthernet0/11 down down	unassigned	YES unset	administratively
FastEthernet0/12 down down	unassigned	YES unset	administratively
FastEthernet0/13 down down	unassigned	YES unset	administratively
FastEthernet0/14 down down	unassigned	YES unset	administratively
FastEthernet0/15 down	unassigned	YES unset	down
FastEthernet0/16 up	unassigned	YES unset	up
FastEthernet0/17 up	unassigned	YES unset	up
FastEthernet0/18	unassigned 	YES unset	up
FastEthernet0/19	unassigned . ,	YES unset	up
FastEthernet0/20 up FastEthernet0/21	unassigned	YES unset	up
up FastEthernet0/22	unassigned unassigned	YES unset YES unset	up
down FastEthernet0/23	unassigned	YES unset	down
down FastEthernet0/24	unassigned	YES unset	down
down Port-channel1	unassigned	YES unset	up
up Port-channel2	unassigned	YES unset	up
up ASW2#	unuoolyneu		~F

ASW2#show processes cpu								
CPU utiliza								
PID Runtim	e(ms)	Invoked	uSecs	5Sec	1Min		ΤY	Process
1	0	1	0	0.00%	0.00%	0.00%	0	Chunk
Manager								
2	4	355	11	0.00%	0.00%	0.00%	0	Load Meter
3	212	39	5435	0.00%	0.00%	0.00%	0	SpanTree
Helper								
4	480	179	2681	0.00%	0.02%	0.00%	0	Check
heaps								
5	4	2	2000	0.00%	0.00%	0.00%	0	Pool
Manager								
6	4	2	2000	0.00%	0.00%	0.00%	0	Timers
7	32	3	10666	0.00%	0.00%	0.00%	0	Entity MIB
API								
8	4	443	9	0.00%	0.00%	0.00%	0	HC Counter
Timer								
9	4	35	114	0.00%	0.00%	0.00%	0	ARP Input
10	0	1	0	0.00%	0.00%	0.00%	0	Net Input
11	0	1	0	0.00%	0.00%	0.00%	0	Critical
Bkgnd								
12	412	1234	333	0.00%	0.01%	0.00%	0	Net
Background								
13	16	43	372	0.00%	0.00%	0.00%	0	Logger
14	32	1768	18	0.00%	0.00%	0.00%	0	TTY
Background								
15	12	1778	6	0.00%	0.00%	0.00%	0	Per-Second
Jobs								

16	16	356	44	0.00%	0.00%	0.00%	0	Compute
load avg								
17	236	30	7866	0.00%	0.00%	0.00%	0	Per-minute
Jobs								
18	8	20	400	0.00%	0.00%	0.00%	0	AggMgr
Process	· ·		100		0.000	0.000	ŭ	999-
19	0	2	0	0.00%	0.00%	0.00%	Λ	Calhoun
	U	۷	U	0.00%	0.00%	0.00%	U	Calliouii
Storm Co	0.0.6	4.4000		0 000	0 0 5 0	0 010	_	~ 11
20	296	44297	6	0.08%	0.05%	0.01%	U	Calhoun
LED Proc								
21	14128	3515	4019	0.73%	0.76%	0.75%	0	Calhoun
Statisti								
22	36	8850	4	0.00%	0.01%	0.00%	0	HMATM
Learn proc								
23	256	14	18285	0.00%	0.00%	0.00%	0	CalhounPM
24	80	8856	9	0.00%	0.01%	0.00%		Link
Status Pro		0000	9	0.000	0.010	0.000	O	11111
25	16	8859	1	0.00%	0.00%	0.00%	0	Calhoun
	10	0039	Τ.	0.00%	0.00%	0.00%	U	Callioun
PHY Loop	_							
26	0	1	0	0.00%	0.00%	0.00%	0	
CalhounIns	Ipopti							
27	0	1	0	0.00%	0.00%	0.00%	0	Calhoun
DHCP Sno								
28	320	410	780	0.00%	0.01%	0.00%	0	CDP
Protocol								
29	0	15	0	0.00%	0.00%	0.00%	0	DHCP
Snooping	-		-					
30	0	30	0	0.00%	0.00%	0.00%	Λ	IP Input
31	412	686	600	0.00%	0.00%	0.00%		DTP
	412	000	000	0.00%	0.00%	0.00%	U	DIF
Protocol	0	1.00	4.4	0 000	0 000	0 000	_	
32	8	180	44	0.00%	0.00%	0.00%		Ethchnl
33	156	29	5379	0.00%	0.00%	0.00%	0	VLAN
Manager								
34	0	2	0	0.00%	0.00%	0.00%	0	PI MATM
Aging Pr								
35	16	16	1000	0.00%	0.00%	0.00%	0	VMATM
Callback								
36	2480	3526	703	0.16%	0.07%	0.08%	0	Spanning
Tree								-1 - 5
37	24	1774	13	0.00%	0.00%	0.00%	Λ	UDLD
38	0	38	0	0.00%	0.00%	0.00%		Port-
	U	30	U	0.00%	0.00%	0.00%	U	POLU-
Security	0	0	4000	0 000	0 000	0 000	^	Ducaba
39	8	2	4000	0.00%	0.00%	0.00%	U	DHCPD
Receive								
40	0	1	0	0.00%	0.00%	0.00%		HTTP Timer
41	0	1	0	0.00%	0.00%	0.00%	0	RARP Input
42	0	1	0	0.00%	0.00%	0.00%	0	TCP Timer
43	0	1	0	0.00%	0.00%	0.00%	0	TCP
Protocols								
44	0	1	0	0.00%	0.00%	0.00%	0	Socket
Timers	-	_	ŭ				,	-
45	8	14	571	0.00%	0.00%	0.00%	\cap	L2MM
46			422	0.00%	0.00%	0.00%		
	60 1.2	142						MRD
47	12	32	375	0.00%	0.00%	0.00%	U	IGMPSN

48	20	31	645	0.00%	0.00%	0.00%	0	IGMP
Snooping Pr	<i>C</i> 4	1 4 2	4.4.7	0 000	0 000	0 000	0	TOMP
49 Snooping Re	64	143	447	0.00%	0.00%	0.00%	U	IGMP
50 Silooping Re	196	716	273	0.00%	0.00%	0.00%	0	IP
Multicast Da		710	213	0.00%	0.00%	0.00%	U	11
51	4	2	2000	0.00%	0.00%	0.00%	0	L2TRACE
SERVER	-	_	2000	0.000	0.000	0.000	Ū	
52	0	25	0	0.00%	0.00%	0.00%	0	Cluster L2
53	4	178	22	0.00%	0.00%	0.00%		Cluster
RARP								
54	112	407	275	0.00%	0.00%	0.00%	0	Cluster
Base								
55	1392	181	7690	0.40%	1.54%	0.39%	0	Exec
56	0	15	0	0.00%	0.00%	0.00%	0	DHCPD
Timer								
57	0	2	0	0.00%	0.00%	0.00%	0	Router
Autoconf			_					_
58	0	1	0	0.00%	0.00%	0.00%	0	Syslog
Traps	0		0	0 000	0 000	0 000	0	
59	0	2	0	0.00%	0.00%	0.00%	U	VTPMIB
EDIT BUFF 60	132	2678	49	0.08%	0.00%	0.00%	0	PM
Callback	132	2070	49	0.00%	0.00%	0.00%	U	PM
61	4	37	108	0.00%	0.00%	0.00%	\cap	VTP Trap
Process	-1	57	100	0.000	0.000	0.000	O	vii ilap
62	0	495	0	0.00%	0.00%	0.00%	0	DHCPD
Database			-					
63	12	1776	6	0.00%	0.00%	0.00%	0	Calhoun
EnvMon P								
64	0	2	0	0.00%	0.00%	0.00%	0	STP STACK
TOPOLO								
65	0	2	0	0.00%	0.00%	0.00%	0	STP FAST
TRANSIT								
66	0	2	0	0.00%	0.00%	0.00%	0	STP STACK
TOPOLO								
67	0	2	0	0.00%	0.00%	0.00%	0	CSRT RAPID
TRANS	F 0 4	222	65.6	0 000	0 000	0 000	^	D. 7. D.
69	584	889	656	0.00%	0.00%	0.00%	0	PAgP
ASW2#								

```
ASW2#show interfaces
Vlan1 is administratively down, line protocol is down
  Hardware is CPU Interface, address is 0015.fab8.2880 (bia
0015.fab8.2880)
  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
     O packets input, O bytes, O no buffer
     Received 0 broadcasts (0 IP multicast)
     0 runts, 0 giants, 0 throttles
     O input errors, O CRC, O frame, O overrun, O ignored
     O packets output, O bytes, O underruns
     O output errors, 3 interface resets
     O output buffer failures, O output buffers swapped out
Vlan200 is up, line protocol is up
  Hardware is CPU Interface, address is 0015.fab8.2880 (bia
0015.fab8.2880)
```

```
Internet address is 192.168.1.132/27
  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 00:26:55, 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 10000 bits/sec, 2 packets/sec
     3510 packets input, 300756 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
     4285 packets output, 2446662 bytes, 0 underruns
     O output errors, 2 interface resets
     O output buffer failures, O output buffers swapped out
FastEthernet0/1 is administratively down, line protocol is down
(disabled)
  Hardware is Fast Ethernet, address is 0015.fab8.2881 (bia
0015.fab8.2881)
  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 00:29:49, 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
     O input packets with dribble condition detected
     1 packets output, 64 bytes, 0 underruns
     O output errors, O collisions, 2 interface resets
     O babbles, O late collision, O deferred
     O lost carrier, O no carrier, O PAUSE output
     O output buffer failures, O output buffers swapped out
FastEthernet0/2 is administratively down, line protocol is down
(disabled)
  Hardware is Fast Ethernet, address is 0015.fab8.2882 (bia
0015.fab8.2882)
  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 00:29:51, 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
    O input packets with dribble condition detected
    1 packets output, 64 bytes, 0 underruns
    O output errors, O collisions, 2 interface resets
    O babbles, O late collision, O deferred
    O lost carrier, O no carrier, O PAUSE output
    O output buffer failures, O output buffers swapped out
FastEthernet0/3 is administratively down, line protocol is down
(disabled)
  Hardware is Fast Ethernet, address is 0015.fab8.2883 (bia
0015.fab8.2883)
 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 00:29:53, 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
    O input packets with dribble condition detected
    1 packets output, 64 bytes, 0 underruns
    O output errors, O collisions, 2 interface resets
    O babbles, O late collision, O deferred
    O lost carrier, O no carrier, O PAUSE output
     O output buffer failures, O output buffers swapped out
FastEthernet0/4 is administratively down, line protocol is down
(disabled)
```

```
Hardware is Fast Ethernet, address is 0015.fab8.2884 (bia
0015.fab8.2884)
 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 00:29:54, 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
     O input packets with dribble condition detected
     1 packets output, 64 bytes, 0 underruns
     O output errors, O collisions, 2 interface resets
     O babbles, O late collision, O deferred
     O lost carrier, O no carrier, O PAUSE output
     O output buffer failures, O output buffers swapped out
FastEthernet0/5 is administratively down, line protocol is down
(disabled)
  Hardware is Fast Ethernet, address is 0015.fab8.2885 (bia
0015.fab8.2885)
 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 00:29:56, 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
     O input packets with dribble condition detected
     1 packets output, 64 bytes, 0 underruns
     O output errors, O collisions, 2 interface resets
     O babbles, O late collision, O deferred
```

```
O lost carrier, O no carrier, O PAUSE output
    O output buffer failures, O output buffers swapped out
FastEthernet0/6 is administratively down, line protocol is down
(disabled)
  Hardware is Fast Ethernet, address is 0015.fab8.2886 (bia
0015.fab8.2886)
 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 00:29:58, 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
    O input packets with dribble condition detected
    1 packets output, 64 bytes, 0 underruns
    O output errors, O collisions, 2 interface resets
    O babbles, O late collision, O deferred
    O lost carrier, O no carrier, O PAUSE output
    O output buffer failures, O output buffers swapped out
FastEthernet0/7 is administratively down, line protocol is down
(disabled)
  Hardware is Fast Ethernet, address is 0015.fab8.2887 (bia
0015.fab8.2887)
 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 00:29:59, output hang never
 Last clearing of "show interface" counters never
 Input queue: 0/75/0/0 (size/max/drops/flushes); Total output drops: 0
 Oueueing 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
```

```
O input packets with dribble condition detected
    1 packets output, 64 bytes, 0 underruns
    O output errors, O collisions, 2 interface resets
    O babbles, O late collision, O deferred
     O lost carrier, O no carrier, O PAUSE output
    O output buffer failures, O output buffers swapped out
FastEthernet0/8 is administratively down, line protocol is down
(disabled)
  Hardware is Fast Ethernet, address is 0015.fab8.2888 (bia
0015.fab8.2888)
 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 00:30:00, 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
    O input packets with dribble condition detected
    1 packets output, 64 bytes, 0 underruns
    O output errors, O collisions, 2 interface resets
    O babbles, O late collision, O deferred
    O lost carrier, O no carrier, O PAUSE output
     O output buffer failures, O output buffers swapped out
FastEthernet0/9 is administratively down, line protocol is down
(disabled)
  Hardware is Fast Ethernet, address is 0015.fab8.2889 (bia
0015.fab8.2889)
 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 00:30:02, 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
     O input packets with dribble condition detected
     1 packets output, 64 bytes, 0 underruns
     O output errors, O collisions, 2 interface resets
     O babbles, O late collision, O deferred
     O lost carrier, O no carrier, O PAUSE output
     O output buffer failures, O output buffers swapped out
FastEthernet0/10 is administratively down, line protocol is down
(disabled)
  Hardware is Fast Ethernet, address is 0015.fab8.288a (bia
0015.fab8.288a)
  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 00:30:03, 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
     O input packets with dribble condition detected
     1 packets output, 64 bytes, 0 underruns
     0 output errors, 0 collisions, 2 interface resets
     O babbles, O late collision, O deferred
     O lost carrier, O no carrier, O PAUSE output
     O output buffer failures, O output buffers swapped out
FastEthernet0/11 is administratively down, line protocol is down
(disabled)
  Hardware is Fast Ethernet, address is 0015.fab8.288b (bia
0015.fab8.288b)
 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 00:30:05, 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
    O input packets with dribble condition detected
    1 packets output, 64 bytes, 0 underruns
    O output errors, O collisions, 2 interface resets
    O babbles, O late collision, O deferred
     O lost carrier, O no carrier, O PAUSE output
    O output buffer failures, O output buffers swapped out
FastEthernet0/12 is administratively down, line protocol is down
(disabled)
  Hardware is Fast Ethernet, address is 0015.fab8.288c (bia
0015.fab8.288c)
 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 00:30:07, 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
    O input packets with dribble condition detected
    1 packets output, 64 bytes, 0 underruns
    0 output errors, 0 collisions, 2 interface resets
    O babbles, O late collision, O deferred
    O lost carrier, O no carrier, O PAUSE output
     O output buffer failures, O output buffers swapped out
FastEthernet0/13 is administratively down, line protocol is down
(disabled)
  Hardware is Fast Ethernet, address is 0015.fab8.288d (bia
0015.fab8.288d)
 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 00:30:08, 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
     O input packets with dribble condition detected
     1 packets output, 64 bytes, 0 underruns
     O output errors, O collisions, 2 interface resets
     O babbles, O late collision, O deferred
     O lost carrier, O no carrier, O PAUSE output
     O output buffer failures, O output buffers swapped out
FastEthernet0/14 is administratively down, line protocol is down
(disabled)
  Hardware is Fast Ethernet, address is 0015.fab8.288e (bia
0015.fab8.288e)
 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 00:30:10, 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
     O input packets with dribble condition detected
     1 packets output, 64 bytes, 0 underruns
     O output errors, O collisions, 2 interface resets
     O babbles, O late collision, O deferred
     O lost carrier, O no carrier, O PAUSE output
     O output buffer failures, O output buffers swapped out
FastEthernet0/15 is down, line protocol is down (notconnect)
  Hardware is Fast Ethernet, address is 0015.fab8.288f (bia
0015.fab8.288f)
 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 00:30:12, 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
    O input errors, O CRC, O frame, O overrun, O ignored
    0 watchdog, 0 multicast, 0 pause input
    O input packets with dribble condition detected
    1 packets output, 64 bytes, 0 underruns
    O output errors, O collisions, 2 interface resets
    O babbles, O late collision, O deferred
    O lost carrier, O no carrier, O PAUSE output
     O output buffer failures, O output buffers swapped out
FastEthernet0/16 is up, line protocol is up (connected)
  Hardware is Fast Ethernet, address is 0015.fab8.2890 (bia
0015.fab8.2890)
 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 00:00:12, 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
    1670 packets input, 134722 bytes, 0 no buffer
    Received 1487 broadcasts (0 multicast)
    0 runts, 0 giants, 0 throttles
    0 input errors, 0 CRC, 0 frame, 0 overrun, 0 ignored
    0 watchdog, 1484 multicast, 0 pause input
    O input packets with dribble condition detected
    411 packets output, 42643 bytes, 0 underruns
    O output errors, O collisions, 2 interface resets
    O babbles, O late collision, O deferred
    O lost carrier, O no carrier, O PAUSE output
     O output buffer failures, O output buffers swapped out
FastEthernet0/17 is up, line protocol is up (connected)
  Hardware is Fast Ethernet, address is 0015.fab8.2891 (bia
0015.fab8.2891)
 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 00:00:14, 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
    331 packets input, 32872 bytes, 0 no buffer
    Received 158 broadcasts (0 multicast)
    0 runts, 0 giants, 0 throttles
    0 input errors, 0 CRC, 0 frame, 0 overrun, 0 ignored
    0 watchdog, 158 multicast, 0 pause input
    O input packets with dribble condition detected
    1717 packets output, 141672 bytes, 0 underruns
    O output errors, O collisions, 2 interface resets
    O babbles, O late collision, O deferred
    O lost carrier, O no carrier, O PAUSE output
    O output buffer failures, O output buffers swapped out
FastEthernet0/18 is up, line protocol is up (connected)
  Hardware is Fast Ethernet, address is 0015.fab8.2892 (bia
0015.fab8.2892)
 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
    333 packets input, 33030 bytes, 0 no buffer
    Received 160 broadcasts (0 multicast)
    0 runts, 0 giants, 0 throttles
    0 input errors, 0 CRC, 0 frame, 0 overrun, 0 ignored
    0 watchdog, 159 multicast, 0 pause input
    O input packets with dribble condition detected
    411 packets output, 42617 bytes, 0 underruns
    0 output errors, 0 collisions, 2 interface resets
    O babbles, O late collision, O deferred
    O lost carrier, O no carrier, O PAUSE output
     O output buffer failures, O output buffers swapped out
FastEthernet0/19 is up, line protocol is up (connected)
  Hardware is Fast Ethernet, address is 0015.fab8.2893 (bia
0015.fab8.2893)
```

```
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 00:00:03, 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
     784 packets input, 70843 bytes, 0 no buffer
     Received 604 broadcasts (0 multicast)
     0 runts, 0 giants, 0 throttles
     0 input errors, 0 CRC, 0 frame, 0 overrun, 0 ignored
     0 watchdog, 603 multicast, 0 pause input
     O input packets with dribble condition detected
     1752 packets output, 144674 bytes, 0 underruns
     O output errors, O collisions, 2 interface resets
     O babbles, O late collision, O deferred
     O lost carrier, O no carrier, O PAUSE output
     O output buffer failures, O output buffers swapped out
FastEthernet0/20 is up, line protocol is up (connected)
  Hardware is Fast Ethernet, address is 0015.fab8.2894 (bia
0015.fab8.2894)
 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
     1170 packets input, 93588 bytes, 0 no buffer
     Received 1002 broadcasts (0 multicast)
     0 runts, 0 giants, 0 throttles
     0 input errors, 0 CRC, 0 frame, 0 overrun, 0 ignored
     0 watchdog, 1001 multicast, 0 pause input
     O input packets with dribble condition detected
     463 packets output, 46566 bytes, 0 underruns
     O output errors, O collisions, 2 interface resets
     O babbles, O late collision, O deferred
     O lost carrier, O no carrier, O PAUSE output
     O output buffer failures, O output buffers swapped out
FastEthernet0/21 is up, line protocol is up (connected)
```

```
Hardware is Fast Ethernet, address is 0015.fab8.2895 (bia
0015.fab8.2895)
 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 00:00:01, 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
     324 packets input, 32686 bytes, 0 no buffer
     Received 155 broadcasts (0 multicast)
     0 runts, 0 giants, 0 throttles
     0 input errors, 0 CRC, 0 frame, 0 overrun, 0 ignored
     0 watchdog, 155 multicast, 0 pause input
     O input packets with dribble condition detected
     462 packets output, 46450 bytes, 0 underruns
     O output errors, O collisions, 2 interface resets
     O babbles, O late collision, O deferred
     O lost carrier, O no carrier, O PAUSE output
     O output buffer failures, O output buffers swapped out
FastEthernet0/22 is down, line protocol is down (notconnect)
  Hardware is Fast Ethernet, address is 0015.fab8.2896 (bia
0015.fab8.2896)
 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 00:30:22, 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
     O input packets with dribble condition detected
     1 packets output, 64 bytes, 0 underruns
     O output errors, O collisions, 2 interface resets
     O babbles, O late collision, O deferred
     O lost carrier, O no carrier, O PAUSE output
```

```
O output buffer failures, O output buffers swapped out
FastEthernet0/23 is down, line protocol is down (notconnect)
  Hardware is Fast Ethernet, address is 0015.fab8.2897 (bia
0015.fab8.2897)
 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 00:30:24, 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
    O input packets with dribble condition detected
    1 packets output, 64 bytes, 0 underruns
    O output errors, O collisions, 2 interface resets
    O babbles, O late collision, O deferred
    O lost carrier, O no carrier, O PAUSE output
    O output buffer failures, O output buffers swapped out
FastEthernet0/24 is down, line protocol is down (notconnect)
  Hardware is Fast Ethernet, address is 0015.fab8.2898 (bia
0015.fab8.2898)
 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 00:30:26, 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
    O input packets with dribble condition detected
    1 packets output, 64 bytes, 0 underruns
    O output errors, O collisions, 2 interface resets
```

```
O babbles, O late collision, O deferred
    O lost carrier, O no carrier, O PAUSE output
    O output buffer failures, O output buffers swapped out
Port-channel1 is up, line protocol is up (connected)
 Hardware is EtherChannel, address is 0015.fab8.2893 (bia
0015.fab8.2893)
 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 00:00:01, 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 1000 bits/sec, 2 packets/sec
  5 minute output rate 0 bits/sec, 0 packets/sec
    2276 packets input, 198039 bytes, 0 no buffer
    Received 1758 broadcasts (0 multicast)
    0 runts, 0 giants, 0 throttles
    0 input errors, 0 CRC, 0 frame, 0 overrun, 0 ignored
    0 watchdog, 1757 multicast, 0 pause input
    O input packets with dribble condition detected
    2257 packets output, 197787 bytes, 0 underruns
    0 output errors, 0 collisions, 1 interface resets
    O babbles, O late collision, O deferred
    O lost carrier, O no carrier, O PAUSE output
    O output buffer failures, O output buffers swapped out
Port-channel2 is up, line protocol is up (connected)
 Hardware is EtherChannel, address is 0015.fab8.2891 (bia
0015.fab8.2891)
 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 00:00:01, 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
    2339 packets input, 201130 bytes, 0 no buffer
    Received 1810 broadcasts (0 multicast)
    0 runts, 0 giants, 0 throttles
    0 input errors, 0 CRC, 0 frame, 0 overrun, 0 ignored
    0 watchdog, 1806 multicast, 0 pause input
    O input packets with dribble condition detected
```

- 2306 packets output, 202059 bytes, 0 underruns
- O output errors, O collisions, 1 interface resets
- 0 babbles, 0 late collision, 0 deferred
- O lost carrier, O no carrier, O PAUSE output
- 0 output buffer failures, 0 output buffers swapped out $\mathtt{ASW2}\#$

ASW2#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 Po1	0	0		0		0	-	
Po1 Po2	0	0		0		0	0	
PO2	U	U		U		U	U	
Port	Single-Col Multi-Co.	L	Late-Col	Excess-C	Col	Carri-Sen		Runts
Giants Fa0/1	0)	0		0	0		0
0	U	J	U		U	U		U
Fa0/2	0)	0		0	0		0
0 Fa0/3	0)	0		0	0		0
0		,	O		O	O		O
Fa0/4	0)	0		0	0		0
0 Fa0/5	0)	0		0	0		0
0	-		_		-	-		-
Fa0/6	0)	0		0	0		0

Fa0/7

Fa0/8

Fa0/9

Fa0/11

Fa0/12

Fa0/13

Fa0/10

Fa0/14	0	0	0	0	0	0
0 Fa0/15 0	0	0	0	0	0	0
Fa0/16	0	0	0	0	1	0
Fa0/17	0	0	0	0	1	0
Fa0/18	0	0	0	0	1	0
Fa0/19 0	0	0	0	0	2	0
Fa0/20 0	0	0	0	0	2	0
Fa0/21 0	0	0	0	0	2	0
Fa0/22 0	0	0	0	0	0	0
Fa0/23	0	0	0	0	1	0
Fa0/24 0	0	0	0	0	1	0
Po1 0	0	0	0	0	0	0
Po2 0 ASW2#	0	0	0	0	0	0

ASW2#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	Fas 0/16	171	R S I	Cisco WS-CFas
0/16 DSW1	Fas 0/18	170	R S I	Cisco WS-CFas
0/18		-	-	
DSW1	Fas 0/17	170	R S I	Cisco WS-CFas
0/17				
DSW2	Fas 0/20	160	R S I	Cisco WS-CFas
0/17				
DSW2	Fas 0/19	159	R S I	Cisco WS-CFas
0/16				
DSW2	Fas 0/21	159	R S I	Cisco WS-CFas
0/18				
ASW2#				

_____ Device ID: DSW1 Entry address(es): IP address: 10.2.1.1 Platform: Cisco WS-C3550-24, Capabilities: Router Switch IGMP Interface: FastEthernet0/16, Port ID (outgoing port): FastEthernet0/16 Holdtime : 164 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=00000000FFFFFFF0102250E00000000000000DBDE36E00FF0000 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: FastEthernet0/18, Port ID (outgoing port): FastEthernet0/18

ASW2#show cdp neighbors detail

```
Holdtime: 162 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=0x000000C, Protocol ID=0x0112; payload len=27,
value=00000000FFFFFFF0102250E0000000000000DBDE36E00FF0000
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: FastEthernet0/17, Port ID (outgoing port): FastEthernet0/17
Holdtime: 161 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=0x000000C, Protocol ID=0x0112; payload len=27,
value=00000000FFFFFFF0102250E00000000000000DBDE36E00FF0000
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: FastEthernet0/20, Port ID (outgoing port): FastEthernet0/17
Holdtime: 150 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=0x000000C, Protocol ID=0x0112; payload len=27,
value=00000000FFFFFFF0102251800000000000000BFD20BA00FF0000
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: FastEthernet0/19, Port ID (outgoing port): FastEthernet0/16
Holdtime: 149 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=00000000FFFFFFF0102251800000000000000BFD20BA00FF0000
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: FastEthernet0/21, Port ID (outgoing port): FastEthernet0/18
Holdtime: 148 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=00000000FFFFFFF0102251800000000000000BFD20BA00FF0000
VTP Management Domain: 'netlearning'
Native VLAN: 1
Duplex: full
Management address(es):
  IP address: 10.2.1.2
```

ASW2#show arp
Protocol Address Age (min) Hardware Addr Type Interface
Internet 192.168.1.132 - 0015.fab8.2880 ARPA Vlan200
ASW2#

ASW2#

ASW2#show ip arp
Protocol Address Age (min) Hardware Addr Type Interface
Internet 192.168.1.132 - 0015.fab8.2880 ARPA Vlan200

```
ASW2#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 192.168.1.132/27
  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 unreachables 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 ASW2#

```
ASW2#show tcp statistics
Rcvd: 0 Total, 0 no port
      O checksum error, O bad offset, O 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)
      O packets (O 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)
      O data packets (O bytes) retransmitted
      0 ack only packets (0 delayed)
      0 window probe packets, 0 window update packets
O Connections initiated, O connections accepted, O connections
established
O Connections closed (including O dropped, O embryonic dropped)
O Total rxmt timeout, O connections dropped in rxmt timeout
O Keepalive timeout, O keepalive probe, O Connections dropped in
```

keepalive ASW2#

ASW2#show access-lists

ASW2#show vlan

VLAN Name		Status I	Ports	
1 default 10 VLAN0010 20 VLAN0020 Fa0/4		active Active	Fa0/22, Fa0/2,	Fa0/3,
Fa0/8			Fa0/5, Fa0/6, Fa0/9, Fa0/10	
Fa0/12			Fa0/13, Fa0/1	
200 VLAN0200 1002 fddi-default 1003 trcrf-default 1004 fddinet-default 1005 trbrf-default		active act/unsup act/unsup act/unsup act/unsup	10, 10, 100, 1	1, 100, 10
VLAN Type SAID Trans2	MTU Parent Rir	ngNo BridgeN	No Stp BrdgM	ode Trans1
10 enet 100010 20 enet 100020 200 enet 100200 1002 fddi 101002 1003 trcrf 101003 1004 fdnet 101004		- - - - - 76 - - 15	srb ieee - ibm -	0 0 0 0 0 0 0 0 0 0 0 0 0 0
VLAN AREHops STEHops B	Backup CRF			
1003 7 7 0	off			
Remote SPAN VLANs				

Primary Secondary Type Ports

ASW2#

ASW2#show spanning-tree

VLAN0020

Spanning tree enabled protocol ieee

Root ID Priority 4116
Address 000b.fd20.ba00
Cost 9

65 (Port-channel1)

Hello Time 2 sec Max Age 20 sec Forward Delay 15 sec

Bridge ID Priority 32788 (priority 32768 sys-id-ext 20)

0015.fab8.2880 Address

Hello Time 2 sec Max Age 20 sec Forward Delay 15 sec

Aging Time 300

Interface	Role	Sts	Cost	Prio.Nbr	Type
Po1	Root	כוזאים	0	120 65	Don
-			-	128.65	1
Po2	Desq	F.MD	9	128.66	P2p

VLAN0200

Spanning tree enabled protocol ieee

Root ID

Priority 4296 Address 000d.bde3.6e00

Cost 9

Port 66 (Port-channel2)

Hello Time 2 sec Max Age 20 sec Forward Delay 15 sec

Bridge ID Priority 32968 (priority 32768 sys-id-ext 200)

Address 0015.fab8.2880

Hello Time 2 sec Max Age 20 sec Forward Delay 15 sec

Aging Time 300

Interface	Role St	s Cost	Prio.Nbr	Type
Po1	Desg FW	O 9	128.65	P2p
Po2	Root FW	9	128.66	P2p

ASW2#show interfaces status

Port	Name	Status	Vlan	Duplex	Speed Type
Fa0/1		disabled	20	auto	auto
10/100Base	eTX				
Fa0/2		disabled	20	auto	auto
10/100Base	eTX				
Fa0/3		disabled	20	auto	auto
10/100Base	eTX				
Fa0/4		disabled	20	auto	auto
10/100Base	eTX				
Fa0/5		disabled	20	auto	auto
10/100Base	eTX				
Fa0/6		disabled	20	auto	auto
10/100Base	eΤX				
Fa0/7		disabled	20	auto	auto
10/100Base	eTX				
Fa0/8		disabled	20	auto	auto
10/100Base	eTX				
Fa0/9		disabled	20	auto	auto
10/100Base	eΤX				
Fa0/10		disabled	20	auto	auto
10/100Base	eTX				
Fa0/11		disabled	20	auto	auto
10/100Base	eTX				
Fa0/12		disabled	20	auto	auto
10/100Base	eTX				
Fa0/13		disabled	20	auto	auto
10/100Base	eΤX				

Fa0/14 10/100BaseTX	disabled	20	auto	auto
Fa0/15 10/100BaseTX	notconnect	20	auto	auto
Fa0/16 10/100BaseTX	connected	trunk	a-full	a-100
Fa0/17 10/100BaseTX	connected	trunk	a-full	a-100
Fa0/18 10/100BaseTX	connected	trunk	a-full	a-100
Fa0/19 10/100BaseTX	connected	trunk	a-full	a-100
Fa0/20 10/100BaseTX	connected	trunk	a-full	a-100
Fa0/21	connected	trunk	a-full	a-100
10/100BaseTX Fa0/22	notconnect	1	auto	auto
10/100BaseTX Fa0/23 10/100BaseTX	notconnect	1	auto	auto
Fa0/24 10/100BaseTX	notconnect	1	auto	auto
Po1 Po2 ASW2#	connected connected		a-full a-full	

ASW2#show interfaces switchport

Name: Fa0/1

Switchport: Enabled

Administrative Mode: static access

Operational Mode: down

Administrative Trunking Encapsulation: dot1q

Negotiation of Trunking: Off Access Mode VLAN: 20 (VLAN0020)

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: dotlq 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: 20 (VLAN0020)

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: 20 (VLAN0020)

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: 20 (VLAN0020)

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: 20 (VLAN0020)

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: 20 (VLAN0020)

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: dotlq 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: 20 (VLAN0020)

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: dotlq 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: 20 (VLAN0020)

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: 20 (VLAN0020)

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: 20 (VLAN0020)

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: dotlq 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: 20 (VLAN0020)

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: dotlq 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: 20 (VLAN0020)

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: 20 (VLAN0020)

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: 20 (VLAN0020)

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: dotlq 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: 20 (VLAN0020)

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: dotlq 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: 20,200

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: 20,200 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: dotlq Administrative private-vlan trunk normal VLANs: none Administrative private-vlan trunk private VLANs: none

Operational private-vlan: none Trunking VLANs Enabled: 20,200 Pruning VLANs Enabled: 2-1001

Capture Mode Disabled
Capture VLANs Allowed: AI

Capture VLANs Allowed: ALL Protected: false

Appliance trust: none

Name: Fa0/19

Switchport: Enabled

Administrative Mode: trunk

Operational Mode: trunk (member of bundle Pol) 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: dotlq Administrative private-vlan trunk normal VLANs: none Administrative private-vlan trunk private VLANs: none

Operational private-vlan: none Trunking VLANs Enabled: 20,200 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 Pol) 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: dotlq Administrative private-vlan trunk normal VLANs: none Administrative private-vlan trunk private VLANs: none

Operational private-vlan: none Trunking VLANs Enabled: 20,200 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: dotlq Administrative private-vlan trunk normal VLANs: none Administrative private-vlan trunk private VLANs: none

Operational private-vlan: none Trunking VLANs Enabled: 20,200 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: dotlq 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: Pol

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: 20,200 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: 20,200 Pruning VLANs Enabled: 2-1001

Protected: false

Appliance trust: none

ASW2#show interfaces trunk

Port Po1 Po2	Mode on	Encapsulation 802.1q	Status trunking	Native vlan 1 1
PO2	on	802.1q	trunking	1
Port	Vlans allowed	on trunk		
Po1	20,200			
Po2	20,200			
Port	Vlans allow	ed and active in	n management d	omain.
Po1	20,200		3	
Po2	20,200			
Port	Vlans in sp	anning tree forw	arding state	and not pruned
Po1	20,200	,	3	-
Po2	20,200			
ASW2#	20,200			

ASW2#show vtp status

: 2 VTP Version Configuration Revision : 40 Maximum VLANs supported locally : 64 Number of existing VLANs : 8
VTP Operating Mode : Server VTP Operating Mode

VTP Domain Name
VTP Pruning Mode : netlearning : Disabled VTP V2 Mode : Enabled VTP VZ Mode

VTP Traps Generation : Disabled

: 0x63 0xFA 0x67 0x50 0xC8 0xE4 0x66 0xC8

Configuration last modified by 10.2.2.2 at 6-8-10 15:22:39

Local updater ID is 192.168.1.132 on interface V1200 (lowest numbered

VLAN interface found)

ASW2#show vtp password VTP Password: cisco ASW2# ASW2#show etherchannel detail Channel-group listing: _____

Group: 1 -----

Group state = L2

Ports: 3 Maxports = 8

Port-channels: 1 Max Port-channels = 1

Protocol: PAqP

Ports in the group: _____

Port: Fa0/19

Port state = Up Mstr In-Bndl

Channel group = 1 Mode = Desirable-Sl Gcchange = 0

 $GC = 0 \times 00010001$ Port-channel = Po1 Pseudo port-channel =

Po1

Port index = 0Load = 0x00Protocol = PAqP

Flags: S - Device is sending Slow hello. C - Device is in Consistent

state.

A - Device is in Auto mode. P - Device learns on physical

port.

d - PAgP is down.

 ${\rm H}$ - Hello timer is running. ${\rm Q}$ - Quit timer is running. ${\rm S}$ - Switching timer is running. ${\rm I}$ - Interface timer is Timers: H - Hello timer is running.

running.

Local information:

Hello Partner PAgP Learning Group Port Flags State Timers Interval Count Priority Method Ifindex

Fa0/19 SC U6/S7 H 30s 1 128 Any 27

Partner's information:

	Partner	Partner	Partner		Partner
Group					
Port	Name	Device ID	Port	Age	Flags
Cap.					
Fa0/19	DSW2	000b.fd20.ba00	Fa0/16	7 s	SC
180001					

Age of the port in the current state: 0d:00h:30m:21s

Port: Fa0/20

Port state = Up Mstr In-Bndl

Channel group = 1 Mode = Desirable-S1 Gcchange = 0 Port-channel = Po1 GC = 0×00010001 Pseudo port-c Pseudo port-channel =

Po1

Port index = 0Load = 0x00Protocol = PAqP

Flags: S - Device is sending Slow hello. C - Device is in Consistent

state.

A - Device is in Auto mode. P - Device learns on physical

port.

d - PAgP is down.

H - Hello timer is running. Q - Quit timer is running. S - Switching timer is running. I - Interface timer is Timers: H - Hello timer is running.

running.

Local information:

Hello Partner PAgP Learning Group Port Flags State Timers Interval Count Priority Method Ifindex Fa0/20 SC U6/S7 H 30s 1 128 Any 27

Partner's information:

Partner Partner Partner Partner Group Port Device ID Port Age Flags Name Cap. Fa0/20 000b.fd20.ba00 Fa0/17 1s SC DSW2 180001

Age of the port in the current state: 0d:00h:30m:22s

Port: Fa0/21

Port state = Up Mstr In-Bndl

Channel group = 1 Mode = Desirable-Sl Gcchange = 0 Port-channel = Po1 GC = 0x00010001 Pseudo port-

Pseudo port-channel =

Po1

Port index = 0Load = 0x00Protocol = PAqP Flags: S - Device is sending Slow hello. C - Device is in Consistent

state.

A - Device is in Auto mode. P - Device learns on physical

port.

d - PAgP is down.

Timers: H - Hello timer is running. Q - Quit timer is running. S - Switching timer is running. I - Interface timer is

running.

Local information:

Hello Partner PAgP Learning

Group

Flags State Timers Interval Count Priority Method Port

Ifindex

Fa0/21 SC U6/S7 H 30s 1 128 Any 27

Partner's information:

Partner Partner Partner Partner

Group

Port Name Device ID Port Age Flags

Cap.

Fa0/21 DSW2 000b.fd20.ba00 Fa0/18 8s SC

180001

Age of the port in the current state: 0d:00h:30m:24s

Port-channels in the group:

Port-channel: Po1

Age of the Port-channel = 0d:00h:32m:45s

Logical slot/port = 1/0 Number of ports = 3 GC = 0×00010001 HotStandBy port = null

Port state = Port-channel Ag-Inuse

Protocol PAgP

Ports in the Port-channel:

Index	Load		EC state	No of bits
0	00		 Desirable-Sl	0
0	00	Fa0/20	Desirable-Sl	0
0	00	Fa0/21	Desirable-Sl	0

Time since last port bundled: 0d:00h:30m:25s Fa0/20

Group: 2

Group state = L2

Ports: 3 Maxports = 8

Port-channels: 1 Max Port-channels = 1

Protocol: PAqP

Ports in the group: _____

Port: Fa0/16 _____

Port state = Up Mstr In-Bndl

Channel group = 2 Mode = Desirable-Sl Gcchange = 0 Port-channel = Po2 GC = 0x00020001 Pseudo port-channel =

Po2

Port index = 0 Load = 0×00 Protocol = PAgP

Flags: S - Device is sending Slow hello. C - Device is in Consistent

state.

A - Device is in Auto mode. P - Device learns on physical

d - PAgP is down.

Timers: H - Hello timer is running. Q - Quit timer is running. S - Switching timer is running. I - Interface timer is

running.

Local information:

Hello Partner PAgP Learning

Group

Flags State Timers Interval Count Priority Method Port

Ifindex

Fa0/16 SC U6/S7 H 30s 1 128 Any 28

Partner's information:

Partner Partner Partner Partner

Group

Name Port Device ID Port Age Flags

Cap.

Fa0/16 DSW1 000d.bde3.6e00 Fa0/16 14s SAC

E0001

Age of the port in the current state: 0d:00h:31m:14s

Port: Fa0/17 _____

Port state = Up Mstr In-Bndl

Channel group = 2 Mode = Desirable-Sl Gcchange = 0 Port-channel = Po2 GC = 0x00020001 Pseudo port-channel =

Po2

Port index = 0Load = 0×00 Protocol = PAqP

Flags: S - Device is sending Slow hello. C - Device is in Consistent

A - Device is in Auto mode. P - Device learns on physical

port.

d - PAgP is down.

Timers: H - Hello timer is running. Q - Quit timer is running.

S - Switching timer is running. I - Interface timer is running.

Local information:

				Hello	Partner	PAgP	Learning	
Group Port	Flags	State	Timers	Interval	Count	Priority	Method	
Ifindex Fa0/17	SC	U6/S7	Н	30s	1	128	Any	28

Partner's information:

	Partner	Partner	Partner		Partner
Group					_
Port	Name	Device ID	Port	Age	Flags
Cap.			- 4		
Fa0/17	DSW1	000d.bde3.6e00	Fa0/17	15s	SAC
E0001					

Age of the port in the current state: 0d:00h:31m:17s

Port: Fa0/18

Port state = Up Mstr In-Bndl

Channel group = 2 Mode = Desirable-Sl Gcchange = 0
Port-channel = Po2 GC = 0x00020001 Pseudo port-channel =

Po2

Port index = 0 Load = 0x00Protocol = PAqP

Flags: S - Device is sending Slow hello. C - Device is in Consistent

state.

A - Device is in Auto mode. P - Device learns on physical

port.

d - PAgP is down.

Timers: H - Hello timer is running. Q - Quit timer is running. S - Switching timer is running. I - Interface timer is

running.

Local information:

				Hello	Partner	PAgP	Learning	
Group								
Port	Flags	State	Timers	Interval	Count	Priority	Method	
Ifindex								
Fa0/18	SC	U6/S7	H	30s	1	128	Any	28

Partner's information:

	Partner	Partner	Partner		Partner
Group					
Port	Name	Device ID	Port	Age	Flags
Cap.					
Fa0/18 E0001	DSW1	000d.bde3.6e00	Fa0/18	3s	SAC

Age of the port in the current state: 0d:00h:31m:18s

Port-channels in the group: _____

Port-channel: Po2

Age of the Port-channel = 0d:00h:32m:50s

Logical slot/port = 1/1 Number of ports = 3

GC = 0x00020001 HotStandBy port = null

Port state = Port-channel Ag-Inuse

Protocol = PAgP

Ports in the Port-channel:

Index	Load	Port	EC state	No of bits
0	00	+ Fa0/16	+- Desirable-Sl	0
0	00	Fa0/17	Desirable-Sl	0
0	00	Fa0/18	Desirable-Sl	0

Time since last port bundled: 0d:00h:31m:18s Fa0/16

ASW2#show spanning-tree inconsistentports						
Name	Interface	Inconsistency	Inconsistency			
Number of	inconsistent ports (se	gments) in the system : 0				

ASW2#show spanning-tree summary

Switch is in pvst mode Root bridge for: none

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
VLAN0020 VLAN0200	0	0	0	2 2	2 2
2 vlans ASW2#	0	0	0	4	4

ASW2#show udld

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 ASW2#

ASW2#show etherchannel summary

Flags: D - down P - in port-channel I - stand-alone s - suspended

I - stand-alone s - suspende
H - Hot-standby (LACP only)
R - Layer3 S - Layer2
u - unsuitable for bundling

Number of channel-groups in use: 2 Number of aggregators: 2

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

ASW2#show etherchannel protocol Channel-group listing:

Group: 1

Protocol: PAgP

Group: 2

Protocol: PAgP

ASW2#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 = Desirable-Sl Gcchange = 0 Port-channel = Po1 GC = 0×00010001 Pseudo port-channel =

Po1

Port index = 0 Load = 0x00Protocol = PAgP

Flags: S - Device is sending Slow hello. C - Device is in Consistent

state.

A - Device is in Auto mode. P - Device learns on physical

port.

d - PAgP is down.

Timers: H - Hello timer is running. Q - Quit timer is running. S - Switching timer is running. I - Interface timer is

running.

Local information:

Hello Partner PAgP Learning

Group

Flags State Timers Interval Count Priority Method Port

Ifindex

Fa0/19 SC U6/S7 H 30s 1 128 Any 27

Partner's information:

Partner Partner Partner Partner

Group

Port Device ID Port Age Flags Name

Cap.

000b.fd20.ba00 Fa0/16 5s SC Fa0/19 DSW2

180001

Age of the port in the current state: 0d:00h:31m:15s

Port: Fa0/20 _____

Port state = Up Mstr In-Bndl

Channel group = 1 Mode = Desirable-Sl Gcchange = 0

Port-channel = Po1 \qquad GC = 0x00010001 \qquad Pseudo port-channel =

Po1

Port index = 0Load = 0x00Protocol = PAqP

Flags: S - Device is sending Slow hello. C - Device is in Consistent

state.

A - Device is in Auto mode. P - Device learns on physical

port.

d - PAqP is down.

H - Hello timer is running.
S - Switching timer is running.
Q - Quit timer is running.
I - Interface timer is Timers: H - Hello timer is running.

running.

Local information:

Hello Partner PAgP Learning Group Flags State Timers Interval Count Priority Method Port Ifindex

Fa0/20 SC U6/S7 H 30s 1 128 Any 27

Partner's information:

Partner Partner Partner Partner Group Device ID Port Name Port Age Flags Cap. Fa0/20 DSW2 000b.fd20.ba00 Fa0/17 24s SC 180001

Age of the port in the current state: 0d:00h:31m:16s

Port: Fa0/21 _____

Port state = Up Mstr In-Bndl

Channel group = 1

Mode = Desirable-Sl Gcchange = 0 GC = 0x00010001 Pseudo port-o Port-channel = Po1 Pseudo port-channel =

Po1

Load = 0x00Port index = 0Protocol = PAgP

Flags: S - Device is sending Slow hello. C - Device is in Consistent

state.

A - Device is in Auto mode. P - Device learns on physical

port.

d - PAgP is down.

Timers: H - Hello timer is running. Q - Quit timer is running. S - Switching timer is running. I - Interface timer is

running.

Local information:

Hello Partner PAgP Learning

Group

Port. Flags State Timers Interval Count Priority Method

Ifindex

Fa0/21 SC U6/S7 H 30s 1 128 Any 27

Partner's information:

Partner Partner Partner Partner Group Port Device ID Name Port Age Flags Cap. Fa0/21 DSW2 000b.fd20.ba00 Fa0/18 6s SC 180001

Age of the port in the current state: 0d:00h:31m:17s

Group: 2 _____

Ports in the group:

Port: Fa0/16 _____

Port state = Up Mstr In-Bndl

Channel group = 2 Mode = Desirable-Sl Gcchange = 0 Port-channel = Po2 GC = 0x00020001 Pseudo port-channel =

Po2

Port index = 0Load = 0x00Protocol = PAqP

Flags: S - Device is sending Slow hello. C - Device is in Consistent

state.

A - Device is in Auto mode. P - Device learns on physical

port.

d - PAgP is down.

 ${\rm H}$ - Hello timer is running. ${\rm Q}$ - Quit timer is running. ${\rm S}$ - Switching timer is running. ${\rm I}$ - Interface timer is Timers: H - Hello timer is running.

running.

Local information:

Hello Partner PAgP Learning Group Port Flags State Timers Interval Count Priority Method Ifindex Fa0/16 SC U6/S7 H 30s 1 128 Any 28

Partner's information:

Partner Partner Partner Partner Group Device ID Port Name Port Age Flags Cap. Fa0/16 DSW1 000d.bde3.6e00 Fa0/16 13s SAC E0001

Age of the port in the current state: 0d:00h:32m:07s

Port: Fa0/17 _____

Port state = Up Mstr In-Bndl

Channel group = 2 Mode = Desirable-Sl Gcchange = 0 Port-channel = Po2 GC = 0×00020001 Pseudo port-channel =

Po2

Port index = 0Load = 0×00 Protocol = PAqP

Flags: S - Device is sending Slow hello. C - Device is in Consistent

state.

A - Device is in Auto mode. P - Device learns on physical

port.

d - PAgP is down.

Timers: H - Hello timer is running. Q - Quit timer is running. S - Switching timer is running. I - Interface timer is

running.

Local information:

Hello Partner PAgP Learning Group Flags State Timers Interval Count Priority Method Port

Ifindex

Fa0/17 SC U6/S7 H 30s 1 128 Any 28

Partner's information:

Partner Partner Partner Partner Group Port Name Device ID Port Age Flags Cap. Fa0/17 DSW1 000d.bde3.6e00 Fa0/17 9s SAC E0001

Age of the port in the current state: 0d:00h:32m:09s

Port: Fa0/18

Port state = Up Mstr In-Bndl

Channel group = 2 Mode = Desirable-Sl Gcchange = 0
Port-channel = Po2 GC = 0x00020001 Pseudo port-channel =

Po2

Port index = 0 Load = 0x00Protocol = PAqP

Flags: S - Device is sending Slow hello. C - Device is in Consistent

state.

A - Device is in Auto mode. P - Device learns on physical

port.

d - PAgP is down.

Timers: H - Hello timer is running. Q - Quit timer is running. S - Switching timer is running. I - Interface timer is

running.

Local information:

Group
Port Flags State Timers Interval Count Priority Method
Ifindex
Fa0/18 SC U6/S7 H 30s 1 128 Any 28

Partner's information:

Partner Partner Partner Partner Partner Group

Port Name Device ID Port Age Flags

Cap.
Fa0/18 DSW1 000d.bde3.6e00 Fa0/18 25s SAC

E0001

Age of the port in the current state: 0d:00h:32m:10s

ASW2#show etherchannel load-balance Source MAC address ASW2# ASW2#show etherchannel port-channel

Channel-group listing:

Group: 1 _____

Port-channels in the group:

Port-channel: Pol

Age of the Port-channel = 0d:00h:33m:54s

Logical slot/port = 1/0 Number of ports = 3

GC = 0x00010001 HotStandBy port = null
Port state = Port-channel Ag-Inuse
Protocol = PAgP

Ports in the Port-channel:

Index	Load		EC state	No of bits
0	00		Desirable-Sl	0
0	00	Fa0/20	Desirable-Sl	0
0	00	Fa0/21	Desirable-Sl	0

Time since last port bundled: 0d:00h:31m:34s Fa0/20

Group: 2 _____

> Port-channels in the group: ______

Port-channel: Po2

Age of the Port-channel = 0d:00h:33m:54sLogical slot/port = 1/1 Number of ports = 3

GC = 0x00020001 HotStandBy port = null
Port state = Port-channel Ag-Inuse
Protocol = PAgP

Ports in the Port-channel:

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

Time since last port bundled: 0d:00h:32m:23s Fa0/16

ASW2#show pagp neighbor

Flags: S - Device is sending Slow hello. C - Device is in Consistent state.

 ${\tt A}$ - Device is in Auto mode. ${\tt P}$ - Device learns on physical port.

Channel group 1 neighbors

Partner Partner Partner Partner Partner Group

Port Name Device ID Port Age Flags
Cap.

Fa0/19 180001	DSW2	000b.fd20.ba00	Fa0/16	5s	SC
Fa0/20 180001	DSW2	000b.fd20.ba00	Fa0/17	22s	SC
Fa0/21 180001	DSW2	000b.fd20.ba00	Fa0/18	1s	SC
Channel q	roup 2 neighbors				
	Partner	Partner	Partner		Partner
Group					
Port Cap.	Name	Device ID	Port	Age	Flags
Fa0/16	DSW1	000d.bde3.6e00	Fa0/16	9s	SAC
E0001					
Fa0/17	DSW1	000d.bde3.6e00	Fa0/17	3s	SAC
E0001					
Fa0/18	DSW1	000d.bde3.6e00	Fa0/18	16s	SAC
E0001					
ASW2#					

ASW2#show lacp neighbor

ASW2#sh	now por	rt-security			
	Port	MaxSecureAddr	CurrentAddr	SecurityViolation	Security
Action					

ACCION	(Count)	(Count)	(Count)	
Fa0/1	1	0	0	
Shutdown				
Fa0/2	1	0	0	
Shutdown	1	0		
Fa0/3	1	0	0	
Shutdown Fa0/4	1	0	0	
Shutdown	_	V	0	
Fa0/5	1	0	0	
Shutdown				
Fa0/6	1	0	0	
Shutdown	1	0	0	
Fa0/7 Shutdown	1	0	0	
Fa0/8	1	0	0	
Shutdown	-	Ŭ	G	
Fa0/9	1	0	0	
Shutdown				
Fa0/10	1	0	0	
Shutdown	1	0	0	
Fa0/11 Shutdown	1	0	0	
Fa0/12	1	0	0	
Shutdown		•	•	
Fa0/13	1	0	0	
Shutdown				
Fa0/14	1	0	0	
Shutdown Fa0/15	1	0	0	
Shutdown	1	U	U	
SII G C G WII				

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

ASW2#show port-security address Secure Mac Address Table

Vlan Mac Address Type Ports Remaining Age (mins)

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