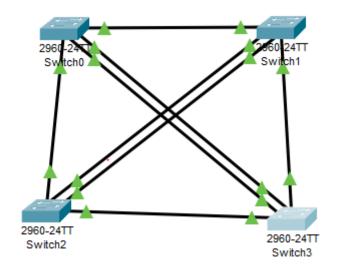
Лабораторная работа №12

- 1) Ибраев Ерлан 30.05.2000
- 2) Топология



3) Switch 0

	Name					tus Po				
	defaul					ive Gi				
10	VLAN1)			act:					
40	VLAN4)			act	ive				
110	VLAN1	LO			act	ive				
120	VLAN12	20			act	ive				
200	UNUSEI	0			act	ive Fa	0/5,	Fa0/6, Fa	0/7, Fa	0/8
						Fa	0/9,	Fa0/10, Fa	a0/11, 1	Fa0/12
						Fa	0/13,	Fa0/14,	Fa0/15,	Fa0/
						Fa	0/17,	Fa0/18,	Fa0/19,	Fa0/2
						Fa	0/21,	Fa0/22,	Fa0/23,	Fa0/2
1002	fddi-	default			act:	ive				
1003	token-	-ring-defau	ılt		act:	ive				
1004	fddine	et-default			act:	ive				
1005	trnet-	-default			act:	ive				
		SAID								
		100001						-		
	enet	100010	1500	_	-	-	_	_	0	0
10		100010							U	•
10 40	enet	100040	1500	_			-	_	0	0
40 110	enet enet	100040	1500 1500	_	_	_	_	_	0	0
40 110	enet enet	100040 100110 100120	1500 1500	_	_	_	_	-	0	0
40 110 120	enet enet enet	100040	1500 1500 1500	-	- - -	- - -	-	- -	0 0 0	0 0 0
40 110 120 200 1002	enet enet enet enet fddi	100040 100110 100120 100200 101002	1500 1500 1500 1500 1500	- - - -	- - - -	- - - -	-	- - -	0 0 0 0	0 0 0 0
40 110 120 200 1002 1003	enet enet enet fddi tr	100040 100110 100120 100200 101002 101003	1500 1500 1500 1500 1500	- - - -	- - - -	- - - -	-	- - - -	0 0 0 0	0 0 0 0
40 110 120 200 1002 1003	enet enet enet fddi tr	100040 100110 100120 100200 101002 101003	1500 1500 1500 1500 1500	- - - -	- - - - -	- - - -	-	- - - -	0 0 0 0	0 0 0 0
40 110 120 200 1002 1003	enet enet enet fddi tr	100040 100110 100120 100200 101002	1500 1500 1500 1500 1500	- - - -	- - - -	- - - -	- - - - - ieee	- - - - -	0 0 0 0	0 0 0 0 0

```
swl#show spanning-tree
VLAN0010
 Spanning tree enabled protocol rstp
 Root ID Priority 24586
                     0007.EC17.EAEB
           Address
           This bridge is the root
           Hello Time 2 sec Max Age 20 sec Forward Delay 15 sec
 Bridge ID Priority 24586 (Pilonia 0007.EC17.EAEB
                      24586 (priority 24576 sys-id-ext 10)
           Hello Time 2 sec Max Age 20 sec Forward Delay 15 sec
           Aging Time 20
Interface
                              Prio.Nbr Type
              Role Sts Cost
Desg FWD 19
Fa0/1
                              128.1 P2p
128.2 P2p
Fa0/2
              Desg FWD 19
                              128.3 P2p
Fa0/3
             Desg FWD 19
Fa0/4
             Desg FWD 19
                              128.4 P2p
              Desg FWD 9
                              128.27 Shr
Po1
VLAN0040
 Spanning tree enabled protocol rstp
 Root ID
          Priority 24616
           Address
                     0001.4201.D422
           Cost 19
Port 4(F
                     4(FastEthernet0/4)
           Port
           Hello Time 2 sec Max Age 20 sec Forward Delay 15 sec
 Bridge ID Priority 32808 (priority 32768 sys-id-ext 40)
           Address
                     0007.EC17.EAEB
           Hello Time 2 sec Max Age 20 sec Forward Delay 15 sec
           Aging Time 20
Interface
             Role Sts Cost
                              Prio.Nbr Type
             Desg FWD 19 128.1 P2p
                              128.2 P2p
             Desg FWD 19
Fa0/2
              Altn BLK 19
Fa0/3
                               128.3
                                       P2p
             Root FWD 19
                              128.4
Fa0/4
                                       P2p
Po1
             Desg FWD 9
                              128.27 Shr
VLAN0110
 Spanning tree enabled protocol rstp
 Root ID
         Priority 24686
           Address
                      0001.96B0.099D
           Cost
                    19
                     3(FastEthernet0/3)
           Hello Time 2 sec Max Age 20 sec Forward Delay 15 sec
 Bridge ID Priority
                    32878 (priority 32768 sys-id-ext 110)
                     0007.EC17.EAEB
           Address
           Hello Time 2 sec Max Age 20 sec Forward Delay 15 sec
           Aging Time 20
Interface
             Role Sts Cost
                              Prio.Nbr Type
```

T-46	D-1- C+		Design Man	T
Interface	ROIE ST	Cost		1ype
Fa0/1	Desa FWI			P2p
Fa0/2	Desg FWI			P2p
Fa0/3	Root FWI		128.3	P2p
Fa0/4	Altn BL			P2p
Po1		9		
VLAN0120				
	ree enabled p	protocol rs	tp	
Root ID		24696		
	Address		4A1D	
		9		
	Port			
	Hello Time	2 sec Max	Age 20 se	ec Forward Delay 15 sec
Bridge ID	Priority	32888 (pr	iority 32	768 sys-id-ext 120)
DIIAge ID	Address	_	_	, oo sys in the ino,
				ec Forward Delay 15 sec
	Aging Time			-
Interface		Cost		Туре
Fa0/1	Desg FWI		128.1	P2p
Fa0/2	Desg FWI			P2p
Fa0/3	Desg FWI	19	128.3	P2p
Fa0/4	Altn BL		128.4	P2p
Pol	Root FWI	9	128.27	Shr
VLAN0200				
	ree enabled p	protocol rs	tp	
	Priority		op.	
	Address	0001.4201.1	D422	
		19		
	Port	4 (FastEthe:	rnet0/4)	
				ec Forward Delay 15 sec
Bridge ID	_		_	768 sys-id-ext 200)
	Address			
			Age 20 se	ec Forward Delay 15 sec
	Aging Time	20		
Interface		Cost		Type
T-0/1				P0
Fa0/1 Fa0/2	Desg FWI Desg FWI		128.1	-
Fa0/2 Fa0/3	Desg FWI Altn BLI			P2p
Fa0/4	Root FWI			P2p P2p
Pol		0 9		
201	Desg fwi		100.07	
sw1#3				

v

```
swl#show interfaces trunk
                         Encapsulation Status Native vlan
802.lq trunking 200
802.lq trunking 200
802.lq trunking 200
         Mode Encapsulation Status
Port
Po1
           on
           on
Fa0/3
Fa0/4
            on
Port
           Vlans allowed on trunk
          10,40,110,120,200
10,40,110,120,200
Po1
Fa0/3
Fa0/4
            10,40,110,120,200
            Vlans allowed and active in management domain 10,40,110,120,200
Port
Pol
Fa0/3
            10,40,110,120,200
Fa0/4
            10,40,110,120,200
Port
            Vlans in spanning tree forwarding state and not pruned
            10,40,110,120,200
Po1
Fa0/3
            10,110,120
Fa0/4
            10,40,200
swl#
```

ı							
	swl#show ip interface	brief					
	Interface	IP-Address	OK?	Method	Status		Protocol
	Port-channell	unassigned	YES	manual	up		up
	FastEthernet0/1	unassigned	YES	manual	up		up
	FastEthernet0/2	unassigned	YES	manual	up		up
	FastEthernet0/3	unassigned	YES	manual	up		up
	FastEthernet0/4	unassigned	YES	manual	up		up
	FastEthernet0/5	unassigned	YES	manual	administratively	down	down
	FastEthernet0/6	unassigned	YES	manual	administratively	down	down
	FastEthernet0/7	unassigned	YES	manual	administratively	down	down
	FastEthernet0/8	unassigned	YES	manual	administratively	down	down
	FastEthernet0/9	unassigned	YES	manual	administratively	down	down
	FastEthernet0/10	unassigned	YES	manual	administratively	down	down
	FastEthernet0/11	unassigned	YES	manual	administratively	down	down
	FastEthernet0/12	unassigned	YES	manual	administratively	down	down
	FastEthernet0/13	unassigned	YES	manual	administratively	down	down
	FastEthernet0/14	unassigned	YES	manual	administratively	down	down
	FastEthernet0/15	unassigned	YES	manual	administratively	down	down
	FastEthernet0/16	unassigned	YES	manual	administratively	down	down
	FastEthernet0/17	unassigned	YES	manual	administratively	down	down
	FastEthernet0/18	unassigned	YES	manual	administratively	down	down
	FastEthernet0/19	unassigned	YES	manual	administratively	down	down
	FastEthernet0/20	unassigned	YES	manual	administratively	down	down
	FastEthernet0/21	unassigned	YES	manual	administratively	down	down
	FastEthernet0/22	unassigned	YES	manual	administratively	down	down
	FastEthernet0/23	unassigned	YES	manual	administratively	down	down
	FastEthernet0/24	unassigned	YES	manual	administratively	down	down
	GigabitEthernet0/1	unassigned	YES	manual	down		down
	GigabitEthernet0/2	unassigned	YES	manual	down		down
	Vlan1	unassigned	YES	manual	administratively	down	down
	Vlan10	30.5.10.10	YES	manual	up		up
	Vlan20	unassigned	YES	manual	down		down
	Vlan40	30.5.40.10	YES	manual	up		up
	Vlan110	30.5.110.10	YES	manual	up		up
	Vlan120	30.5.120.10		manual	•		up
	Vlan200	30.5.200.10	YES	manual	up		up
	swl#						

4) Switch 1

VLAN										
	Name				Stat	tus Po				
1	defau	lt			act	ive Gi				
10	VLAN1	0			act					
40	VLAN4	0			act	ive				
110	VLAN1	10			act:	ive				
120	VLAN1:	20			act:	ive				
200	VLAN2	00			act:	ive Fa	0/5,	Fa0/6, Fa	0/7, Fa	0/8
								Fa0/10, Fa		
								Fa0/14, 1		
								Fa0/18, 1		
							0/21,	Fa0/22, 1	Fa0/23,	Fa0/24
		default	_		act:					
		-ring-defau			act:					
		et-default			act:					
1005	trnet	-default			act:	ive				
VLAN	Type	SAID	MTU	Parent	RingNo	BridgeNo	Stp	BrdgMode	Transl	Trans2
				-		-	-	-	0	0
		100010					-	-	0	0
40	enet	100040	1500	-	-	-	-	-	0	0
110	enet	100110 100120	1500	-		-	-	-	0	0
120	enet	100120	1500	-	-	-	-	-	0	0
		100200					-		0	0
		101002							0	0
	tr	101003	1500	-					0	0
1003		101004	1500	-			ieee		0	0
1004		101004								
1004		101004	1500 1500	-	-	-	ibm	-	0	0

```
VLAN0001
 Spanning tree enabled protocol rstp
 Root ID
          Priority 32769
            Address
                      0001.4201.D422
            This bridge is the root
            Hello Time 2 sec Max Age 20 sec Forward Delay 15 sec
Bridge ID Priority 32769 (priority 32768 sys-id-ext 1)
Address 0001.4201.D422
            Hello Time 2 sec Max Age 20 sec Forward Delay 15 sec
            Aging Time 20
Interface
              Role Sts Cost
                                Prio.Nbr Type
-----
                                128.27 Shr
Pol
              Desg FWD 9
VI.ANO010
 Spanning tree enabled protocol rstp
           Priority 24586
Address 0007.EC17.EAEB
 Root ID
           Cost 19
Port 4(FastEthernet0/4)
Hello Time 2 sec Max Age 20 sec Forward Delay 15 sec
Bridge ID Priority 32778 (priority 32768 sys-id-ext 10)
            Address 0001.4201.D422
Hello Time 2 sec Max Age 20 sec Forward Delay 15 sec
           Address
           Aging Time 20
             Role Sts Cost Prio.Nbr Type
Interface
______ ____ ____
                                                     -----
                             128.27 Shr
128.2 P2p
              Desg FWD 9
              Desg FWD 19
Fa0/2
Fa0/1
               Desg FWD 19
                                 128.1
                                          P2p
                                128.3
              Altn BLK 19
Fa0/3
                                          P2p
Fa0/4
              Root FWD 19
                                128.4 P2p
VLAN0040
 Spanning tree enabled protocol rstp
 Root ID Priority 24616
            Address
                      0001.4201.D422
            This bridge is the root
            Hello Time 2 sec Max Age 20 sec Forward Delay 15 sec
Bridge ID Priority 24616 (priority 24576 sys-id-ext 40)
Address 0001.4201.D422
            Hello Time 2 sec Max Age 20 sec Forward Delay 15 sec
           Aging Time 20
               Role Sts Cost
                                 Prio.Nbr Type
Interface
        ----- ---- ----
              Desg FWD 9
Desg FWD 19
                             128.27 Shr
128.2 P2p
Po1
Fa0/2
              Desg FWD 19
                                128.1 P2p
Fa0/1
                                128.3 P2p
Fa0/3
              Desg FWD 19
Fa0/4
               Desg FWD 19
                                 128.4 P2p
Spanning tree enabled protocol rstp
```

sw2#show spanning-tree

```
Spanning tree enabled protocol rstp
 Root ID Priority 24686
           Address
                     0001.96B0.099D
           Cost
                     9
                    27(Port-channell)
           Port
           Hello Time 2 sec Max Age 20 sec Forward Delay 15 sec
 Bridge ID Priority 32878 (priority 32768 sys-id-ext 110)
Address 0001.4201.D422
           Hello Time 2 sec Max Age 20 sec Forward Delay 15 sec
           Aging Time 20
                              Prio.Nbr Type
             Role Sts Cost
Interface
------
                                           _____
                              128.27 Shr
             Root FWD 9
Po1
Fa0/2
              Desg FWD 19
                               128.2
                                       P2p
             Desg FWD 19
                              128.1
Fa0/1
                                       P2p
                             128.3 P2p
Fa0/3
             Desg FWD 19
             Desg FWD 19
Fa0/4
                              128.4 P2p
VLAN0120
 Spanning tree enabled protocol rstp
 Root ID
         Priority 24696
           Address
                     00E0.F968.4A1D
           Cost
                     19
                    3(FastEthernet0/3)
           Port
           Hello Time 2 sec Max Age 20 sec Forward Delay 15 sec
Bridge ID Priority 32888 (priority 32768 sys-id-ext 120)
                    0001.4201.D422
           Address
           Hello Time \phantom{0}2 sec \phantom{0} Max Age 20 sec \phantom{0} Forward Delay 15 sec Aging Time \phantom{0}20
             Role Sts Cost
                              Prio.Nbr Type
Desg FWD 9 128.27 Shr
Desg FWD 19 128.2 P2p
             Desg FWD 19
Fa0/2
                             128.1 P2p
Fa0/1
             Desg FWD 19
Fa0/3
             Root FWD 19
                              128.3
                                       P2p
Fa0/4
              Desg FWD 19
                               128.4
VLAN0200
 Spanning tree enabled protocol rstp
           Priority 32968
Address 0001.4201.D422
 Root ID
           This bridge is the root
           Hello Time 2 sec Max Age 20 sec Forward Delay 15 sec
 Bridge ID Priority 32968 (priority 32768 sys-id-ext 200)
                    0001.4201.D422
           Address
           Hello Time 2 sec Max Age 20 sec Forward Delay 15 sec
           Aging Time 20
             Role Sts Cost
                              Prio.Nbr Type
Desg FWD 9
Desg FWD 19
                              128.27 Shr
128.2 P2p
Fa0/2
                          128.1 P2p
128.3 P2p
             Desg FWD 19
Fa0/1
           Desg FWD 19
Fa0/3
             Desg FWD 19
                              128.4 P2p
Fa0/4
```

```
sw2#show interfaces trunk

        Port
        Mode
        Encapsulation
        Status
        Native vlan

        Pol
        on
        802.1q
        trunking
        200

        Fa0/3
        on
        802.1q
        trunking
        200

        Fa0/4
        on
        802.1q
        trunking
        200

          Vlans allowed on trunk
Port
                1-1005
Pol
Fa0/3 10,40,110,120,200
Fa0/4
                 10,40,110,120,200
Port
          1,10,40,110,120,200
10,40,110,120,200
10,40,110,120,200
                  Vlans allowed and active in management domain
Po1
Fa0/3
Fa0/4
                 10,40,110,120,200
Port
                 Vlans in spanning tree forwarding state and not pruned
                 1,10,40,110,120,200
Po1
Fa0/3
                  40,110,120,200
                 10,40,110,120,200
Fa0/4
sw2#
```

l	sw2#						
Ī	Sastan To Inscrince						
	sw2#show ip interface)						
	Interface	IP-Address		Method			Protocol
	Port-channell	unassigned		manual	•		up
	FastEthernet0/1	unassigned		manual	-		up
	FastEthernet0/2	unassigned		manual	-		up
	FastEthernet0/3	unassigned		manual	-		up
	FastEthernet0/4	unassigned		manual	-		up
	FastEthernet0/5	unassigned			administratively of		
	FastEthernet0/6	unassigned			administratively of		
	FastEthernet0/7	unassigned			administratively of		
	FastEthernet0/8	unassigned			administratively of		
	FastEthernet0/9	unassigned			administratively of		
	FastEthernet0/10	unassigned			administratively of		
	FastEthernet0/11	unassigned	YES	manual	administratively of	down	down
	FastEthernet0/12	unassigned	YES	manual	administratively of	down	down
	FastEthernet0/13	unassigned			administratively of		
	FastEthernet0/14	unassigned	YES	manual	administratively of	down	down
	FastEthernet0/15	unassigned	YES	manual	administratively of	down	down
	FastEthernet0/16	unassigned	YES	manual	administratively of	down	down
	FastEthernet0/17	unassigned	YES	manual	administratively of	down	down
	FastEthernet0/18	unassigned	YES	manual	administratively of	down	down
	FastEthernet0/19	unassigned	YES	manual	administratively of	down	down
	FastEthernet0/20	unassigned	YES	manual	administratively of	down	down
	FastEthernet0/21	unassigned	YES	manual	administratively of	down	down
	FastEthernet0/22	unassigned	YES	manual	administratively of	down	down
	FastEthernet0/23	unassigned	YES	manual	administratively of	down	down
	FastEthernet0/24	unassigned	YES	manual	administratively of	down	down
	GigabitEthernet0/1	unassigned	YES	manual	down		down
	GigabitEthernet0/2	unassigned	YES	manual	down		down
	Vlanl	unassigned	YES	manual	administratively of	down	down
	Vlan10	30.5.10.40	YES	manual	up		up
	Vlan40	30.5.40.40	YES	manual	up		up
	Vlan110	30.5.110.40	YES	manual	up		up
	Vlan120	30.5.120.40	YES	manual	up		up
	Vlan200	30.5.200.40	YES	manual	up		up
	sw2#						

5) Switch2

WI.AN										
	Name					tus Po:				
1	defau	lt				ive Gi				
10	VLAN1	0			act:	ive				
40	VLAN4	D			act:	ive				
110	VLAN1	10			act	ive				
120	VLAN1	20			act:	ive				
200	UNUSE	D			act:	ive Fa	0/5, 1	Fa0/6, Fa0)/7, Fa	0/8
						Fa	0/9, 1	Fa0/10, Fa	a0/11, 1	Fa0/12
						Fa	0/13,	Fa0/14, 1	Fa0/15,	Fa0/16
						Fa	0/17,	Fa0/18, 1	Fa0/19,	Fa0/20
						Fa	0/21,	Fa0/22, 1	Fa0/23,	Fa0/24
1002	fddi-	default			act	ive				
1003	token-	-ring-defa	ult		act	ive				
1004	fddin	et-default			act	ive				
1005	trnet	-default			act:	ive				
		SAID	MTU	Parent	RingNo	BridgeNo	Stp	BrdgMode	Transl	Trans2
		100001	1500	-	-	-	-	-	0	0
10	enet	100010	1500	_	_	_	_	_	0	0
40	enet	100040	1500	-	-	_	-	_	0	0
110	enet	100110	1500	-		_	-	_	0	0
120	enet	100110 100120	1500	-		_	-	_	0	0
120	enet	100200	1500	-	-	_	-	_	0	0
200		101002	1500	-	-	_	-	_	0	0
200	fddi	101002								
200 1002				-	-	-	_	_	0	0
200 1002 1003	tr	101003	1500	_			- ieee		0	0
200 1002 1003	tr		1500	- - -	-			-	•	-

```
sw4# show spanning-tree
VLAN0001
 Spanning tree enabled protocol rstp
           Priority 32769
***Res 0001.4201.D422
 Root ID
            Cost 9
Dort 27(Port-channell)
            Hello Time 2 sec Max Age 20 sec Forward Delay 15 sec
 Bridge ID Priority 32769 (priority 32768 sys-id-ext 1)
            Address 0001.96B0.099D
Hello Time 2 sec Max Age 20 sec Forward Delay 15 sec
            Aging Time 20
Interface Role Sts Cost Prio.Nbr Type
        -------
             Root FWD 9 128.27 Shr
VLAN0010
 Spanning tree enabled protocol rstp
 Root ID
           Priority 24586
            Address
                        0007.EC17.EAEB
                       19
            Cost
                    3(FastEthernet0/3)
            Port
            Hello Time 2 sec Max Age 20 sec Forward Delay 15 sec
 Bridge ID Priority 32778 (priority 32768 sys-id-ext 10)
                       0001.96B0.099D
            Hello Time 2 sec Max Age 20 sec Forward Delay 15 sec
            Aging Time 20
Interface
               Role Sts Cost
                                  Prio.Nbr Type
            Altn BLK 19 128.4 P2p
Root FWD 19 128.3 P2p
Fa0/4
               Altn BLK 9
Po1
                                  128.27 Shr
VLAN0040
 Spanning tree enabled protocol rstp
          Priority 24616
Address 0001.4201.D422
 Root ID
            Cost 9
Port 27(Port-channell)
            Hello Time 2 sec Max Age 20 sec Forward Delay 15 sec
 Bridge ID Priority 32808 (priority 32768 sys-id-ext 40)
            Address 0001.96B0.099D
Hello Time 2 sec Max Age 20 sec Forward Delay 15 sec
            Aging Time 20
Interface
              Role Sts Cost
                                 Prio.Nbr Type
Fa0/4 Desg BLK 19 128.4 P2p
Fa0/3 Desg BLK 19 128.3 P2p
Po1 Root FWD 9 128.27 Shr
VLAN0110
 Spanning tree enabled protocol rstp
 Root ID Priority 24686
                      0001.96B0.099D
            Address
```

```
VLAN0110
  Spanning tree enabled protocol rstp
            Priority 24686
Address 0001.96B0.099D
  Root ID
             This bridge is the root
             Hello Time 2 sec Max Age 20 sec Forward Delay 15 sec
 Bridge ID Priority 24686 (priority 24576 sys-id-ext 110)
Address 0001.96B0.099D
             Hello Time 2 sec Max Age 20 sec Forward Delay 15 sec
             Aging Time 20
                Role Sts Cost
                                   Prio.Nbr Type
Interface
       ------ ---- ----
           Desg FWD 19 128.4 P2p
Desg FWD 19 128.3 P2p
Desg FWD 9 128.27 Shr
Fa0/4
Fa0/3
Pol
VLAN0120
 Spanning tree enabled protocol rstp
  Root ID
            Priority 24696
                        00E0.F968.4A1D
19
             Address
             Cost
                        4(FastEthernet0/4)
             Port
             Hello Time 2 sec Max Age 20 sec Forward Delay 15 sec
 Bridge ID Priority 32888 (priority 32768 sys-id-ext 120)
Address 0001.96B0.099D
             Hello Time 2 sec Max Age 20 sec Forward Delay 15 sec
             Aging Time 20
Interface
                Role Sts Cost
                                   Prio.Nbr Type
Fa0/4 Root FWD 19 128.4 P2p
Fa0/3 Altn BLK 19 128.3 P2p
                Altn BLK 9
                                   128.27 Shr
Po1
VI.ANO200
 Spanning tree enabled protocol rstp
             Priority 32968
Address 0001.4201.D422
  Root ID
             Cost
                        27(Port-channell)
             Port
             Hello Time 2 sec Max Age 20 sec Forward Delay 15 sec
 Bridge ID Priority 32968 (priority 32768 sys-id-ext 200)
             Address 0001.96B0.099D
Hello Time 2 sec Max Age 20 sec Forward Delay 15 sec
             Aging Time 20
Interface
                Role Sts Cost
                                   Prio.Nbr Type
 ______ _____
               Desg BLK 19 128.4 P2p
Desg BLK 19 128.3 P2p
Root FWD 9 128.27 Shr
Fa0/3
Po1
c1.74#
```

```
sw4# show interfaces trunk
                        Encapsulation Status Native vlan
802.1q trunking 200
802.1q trunking 200
802.1q trunking 200
Port
          Mode Encapsulation Status
          on
Po1
          on
on
Fa0/3
Fa0/4
          Vlans allowed on trunk
Port
           1-1005
Pol
Fa0/3
           10,40,110,120,200
           10,40,110,120,200
Fa0/4
Port
            Vlans allowed and active in management domain
           1,10,40,110,120,200
Po1
Fa0/3
            10,40,110,120,200
Fa0/4
            10,40,110,120,200
Port
           Vlans in spanning tree forwarding state and not pruned
            1,110,200
Pol
            10,110
Fa0/3
Fa0/4
            110,120
sw4#
```

sw4#show ip interface	brief				
Interface	IP-Address	OK?	Method	Status	Protocol
Port-channell	unassigned	YES	manual	up	up
FastEthernet0/1	unassigned	YES	manual	up	up
FastEthernet0/2	unassigned	YES	manual	up	up
FastEthernet0/3	unassigned	YES	manual	up	up
FastEthernet0/4	unassigned	YES	manual	up	up
FastEthernet0/5	unassigned	YES	manual	administratively dow	n down
FastEthernet0/6	unassigned	YES	manual	administratively dow	n down
FastEthernet0/7	unassigned	YES	manual	administratively dow	n down
FastEthernet0/8	unassigned	YES	manual	administratively dow	n down
FastEthernet0/9	unassigned	YES	manual	administratively dow	n down
FastEthernet0/10	unassigned	YES	manual	administratively dow	n down
FastEthernet0/11	unassigned	YES	manual	administratively dow	n down
FastEthernet0/12	unassigned	YES	manual	administratively dow	n down
FastEthernet0/13	unassigned	YES	manual	administratively dow	n down
FastEthernet0/14	unassigned	YES	manual	administratively dow	n down
FastEthernet0/15	unassigned	YES	manual	administratively dow	n down
FastEthernet0/16	unassigned	YES	manual	administratively dow	n down
FastEthernet0/17	unassigned	YES	manual	administratively dow	n down
FastEthernet0/18	unassigned			administratively dow	
FastEthernet0/19	unassigned			administratively dow	
FastEthernet0/20	unassigned			administratively dow	
FastEthernet0/21	unassigned	YES	manual	administratively dow	n down
FastEthernet0/22	unassigned	YES	manual	administratively dow	n down
FastEthernet0/23	unassigned			administratively dow	
FastEthernet0/24	unassigned	YES	manual	administratively dow	n down
GigabitEthernet0/1	unassigned	YES	manual	down	down
GigabitEthernet0/2	unassigned		manual		down
Vlanl	unassigned			administratively dow	n down
Vlan10	30.5.10.110		manual	•	up
Vlan40	30.5.40.110		manual	•	up
Vlan110	30.5.110.110		manual	•	up
Vlan120	30.5.120.110		manual	•	up
Vlan200	30.5.200.110	YES	manual	up	up
sw4#					

VLAN Name	
10 VLAN10 active 10 VLAN40 active 110 VLAN110 active 120 VLAN120 active 120 UNUSED active Fa0/5, Fa0/6, Fa0/7, Fa0/9, Fa0/10, Fa0/1	
0 VLAN40 active 10 VLAN110 active 120 VLAN120 active 100 UNUSED active Fa0/5, Fa0/6, Fa0/7, Fa0/9, Fa0/10, Fa0/1	
10 VLAN110 active 120 VLAN120 active 100 UNUSED active Fa0/5, Fa0/6, Fa0/7, Fa0/9, Fa0/10, Fa0/1	
20 VLAN120 active 200 UNUSED active Fa0/5, Fa0/6, Fa0/7, Fa0/9, Fa0/10, Fa0/1	
00 UNUSED active Fa0/5, Fa0/6, Fa0/7, Fa0/9, Fa0/10, Fa0/1	
Fa0/9, Fa0/10, Fa0/1	
Fa0/13, Fa0/14, Fa0/	1, Fa0/12
	15, Fa0/16
Fa0/17, Fa0/18, Fa0/	19, Fa0/20
Fa0/21, Fa0/22, Fa0/	23, Fa0/24
.002 fddi-default active	
.003 token-ring-default active	
.004 fddinet-default active	
.005 trnet-default active	
VLAN Type SAID MTU Parent RingNo BridgeNo Stp BrdgMode Tra	nsl Trans2
enet 100001 1500 0	
.0 enet 100010 1500 0	0
0 enet 100040 1500 0	0
.10 enet 100110 1500 0	0
20 enet 100120 1500 0 200 enet 100200 1500 0	0
00 enet 100200 1500 0	0
002 fddi 101002 1500 0	
.003 tr 101003 1500 0	_
.004 fdnet 101004 1500 ieee - 0	
.005 trnet 101005 1500 ibm - 0	0

```
VLAN0010
 Spanning tree enabled protocol rstp
 Root ID
            Priority 24586
            Address
                       0007.EC17.EAEB
9
            Cost
                       27(Port-channell)
            Port
            Hello Time 2 sec Max Age 20 sec Forward Delay 15 sec
 Bridge ID Priority 32778 (priority 32768 sys-id-ext 10)
Address 00E0.F968.4AlD
            Hello Time 2 sec Max Age 20 sec Forward Delay 15 sec
            Aging Time 20
Interface
               Role Sts Cost
                                  Prio.Nbr Type
...... ....
                                                      -----
               Desg BLK 19 128.3 P2p
Desg BLK 19 128.4 P2p
Altn BLK 9 128.27 Shr
Fa0/3
Fa0/4
Po1
VLAN0040
 Spanning tree enabled protocol rstp
 Root ID Priority 24616
            Address
                       0001.4201.D422
            Cost
                       19
3(FastEthernet0/3)
            Port
            Hello Time 2 sec Max Age 20 sec Forward Delay 15 sec
 Bridge ID Priority 32808 (priority 32768 sys-id-ext 40)
            Address
                       00E0.F968.4A1D
            Hello Time 2 sec Max Age 20 sec Forward Delay 15 sec
            Aging Time 20
            Role Sts Cost Prio.Nbr Type
Interface
       ------
        Root FWD 19 128.3 P2p
Altn BLK 19 128.4 P2p
Fa0/4
                                  128.4 P2p
128.27 Shr
Po1
                Altn BLK 9
VLAN0110
Spanning tree enabled protocol rstp
            Priority 24686
Address 0001.96B0.099D
 Root ID
                       19
            Cost
            Port 4(FastEthernet0/4)
Hello Time 2 sec Max Age 20 sec Forward Delay 15 sec
 Bridge ID Priority 32878 (priority 32768 sys-id-ext 110)
            Address 00E0.F968.4A1D
Hello Time 2 sec Max Age 20 sec Forward Delay 15 sec
            Aging Time 20
                                 Prio.Nbr Type
Interface
               Role Sts Cost
              Altn BLK 19 128.3 P2p
Root FWD 19 128.4 P2p
128.27 Shr
Fa0/3
Fa0/4
Po1
WLANO120
 Spanning tree enabled protocol rstp
```

sw3#show spanning-tree

```
VLAN0120
 Spanning tree enabled protocol rstp
           Priority 24696
Address 00E0.F968.4AlD
 Root ID
           This bridge is the root
           Hello Time 2 sec Max Age 20 sec Forward Delay 15 sec
 Bridge ID Priority 24696 (priority 24576 sys-id-ext 120)
Address 00E0.F968.4AlD
           Hello Time 2 sec Max Age 20 sec Forward Delay 15 sec
           Aging Time 20
Interface
             Role Sts Cost
                              Prio.Nbr Type
______
                                            _____
                          128.3 P2p
128.4 P2p
          Desg FWD 19
Desg FWD 19
Fa0/3
Fa0/4
                              128.27 Shr
             Desg FWD 9
Pol
VLAN0200
 Spanning tree enabled protocol rstp
 Root ID
          Priority 32968
                     0001.4201.D422
           Address
           Cost
                      19
                    3(FastEthernet0/3)
           Port
           Hello Time 2 sec Max Age 20 sec Forward Delay 15 sec
Bridge ID Priority 32968 (priority 32768 sys-id-ext 200)
Address 00E0.F968.4AlD
           Hello Time 2 sec Max Age 20 sec Forward Delay 15 sec
           Aging Time 20
              Role Sts Cost
Interface
                               Prio.Nbr Type
------
Fa0/3
             Root FWD 19
                           128.3 P2p
                                      P2p
             Desg FWD 19
Desg FWD 19
                              128.1
128.2
Fa0/1
Fa0/2
                                        P2p
             Altn BLK 19
                              128.4
Fa0/4
                                       P2p
             Altn BLK 9
                              128.27 Shr
Po1
sw3#
```

sw3#show	interfaces t	runk			
Port	Mode	Encapsulation	Status	Native vlan	
Pol	on	802.lq	trunking	200	
Fa0/3	on	802.1q	trunking	200	
Fa0/4	on	802.1q	trunking	200	
Port	Vlans all	lowed on trunk			
Pol	10,40,110	,120			
Fa0/3	10,40,110	,120,200			
Fa0/4	10,40,110	,120,200			
Port	Vlans all	lowed and active in	management	domain	
Pol	10,40,110		management		
Fa0/3	10,40,110	•			
Fa0/4	10,40,110	,120,200			
Port	Vlans in	spanning tree forw	arding state	and not pruned	
Pol	120		-	-	
Fa0/3	40,120,20	00			
Fa0/4	110,120				
sw3#					V

sw3#show ip interface	e brief		
Interface	IP-Address	OK? Method Status	Protocol
Port-channell	unassigned	YES manual up	up
FastEthernet0/1	unassigned	YES manual up	up
FastEthernet0/2	unassigned	YES manual up	up
FastEthernet0/3	unassigned	YES manual up	up
FastEthernet0/4	unassigned	YES manual up	up
FastEthernet0/5	unassigned	YES manual administratively dow	n down
FastEthernet0/6	unassigned	YES manual administratively dow	n down
FastEthernet0/7	unassigned	YES manual administratively dow	n down
FastEthernet0/8	unassigned	YES manual administratively dow	n down
FastEthernet0/9	unassigned	YES manual administratively dow	n down
FastEthernet0/10	unassigned	YES manual administratively dow	n down
FastEthernet0/11	unassigned	YES manual administratively dow	n down
FastEthernet0/12	unassigned	YES manual administratively dow	n down
FastEthernet0/13	unassigned	YES manual administratively dow	n down
FastEthernet0/14	unassigned	YES manual administratively dow	n down
FastEthernet0/15	unassigned	YES manual administratively dow	n down
FastEthernet0/16	unassigned	YES manual administratively dow	n down
FastEthernet0/17	unassigned	YES manual administratively dow	n down
FastEthernet0/18	unassigned	YES manual administratively dow	n down
FastEthernet0/19	unassigned	YES manual administratively dow	n down
FastEthernet0/20	unassigned	YES manual administratively dow	n down
FastEthernet0/21	unassigned	YES manual administratively dow	n down
FastEthernet0/22	unassigned	YES manual administratively dow	n down
FastEthernet0/23	unassigned	YES manual administratively dow	n down
FastEthernet0/24	unassigned	YES manual administratively dow	n down
GigabitEthernet0/1	unassigned	YES manual down	down
GigabitEthernet0/2	unassigned	YES manual down	down
Vlanl	unassigned	YES manual administratively dow	n down
Vlan10	30.5.10.120	YES manual up	up
Vlan40	30.5.40.120	YES manual up	up
Vlan110	30.5.110.120	YES manual up	up
Vlan120	30.5.120.120	YES manual up	up
Vlan200	30.5.200.120	YES manual up	up
sw3#			