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Modul : 6

TUGAS

Tugas 1A

Pada bagian bawah kiri pilih tab network devices, kemudian pilih switches pada tab dibawahnya, kemudian pilih switch 2950-24. Drag and drop sebanyak 3 switch.

Selanjutnya tab end devices, kemudian pilih end devices dan pilihlah item PC sebanyak 3 PC

Pilih tab connections pilih copper straight-through, hubungkan PC dengan masing masing switch pada port Fa 0 ke Fa 0/1

PC0 ke Switch0

PC1 ke Switch1

PC2 ke Switch2

Hubungkan tiap switch satu sama lain dengan copper cross-over dan konfigurasi port seperti dibawah

Switch0 Fa 0/2 ke Switch1 Fa 0/2

Switch1 Fa 0/3 ke Switch2 Fa 0/2

Switch2 Fa 0/3 ke Switch3 Fa 0/3

Jika bingung penyusunan topologi, dapat mengikuti gambar di buku

Tugas 2A

Klik switch yang ingin diubah namanya terlebih dahulu. Kemudian pilih tab config, pada bagian display name ubah namanya sesuai perintah di buku

Misal Switch0 menjadi SW1 dst.

Tugas 4A

SW1

Physical Config **CLI** Attributes

IOS Command Line Interface

Switch>en
Switch#show spanning-tree
VLAN0001
Spanning tree enabled protocol ieee
Root ID Priority 32769
Address 000C.CF22.E0DC
Cost 19
Port 3(FastEthernet0/3)
Hello Time 2 sec Max Age 20 sec Forward Delay 15 sec

Bridge ID Priority 32769 (priority 32768 sys-id-ext 1)
Address 0060.2FB7.A1DA
Hello Time 2 sec Max Age 20 sec Forward Delay 15 sec
Aging Time 20

Interface Role Sts Cost Prio.Nbr Type

Fa0/1 Desg FWD 19 128.1 P2p
Fa0/2 Desg FWD 19 128.2 P2p
Fa0/3 Root FWD 19 128.3 P2p

Switch#

Ctrl+F6 to exit CLI focus

Copy Paste

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SW2

Physical Config **CLI** Attributes

IOS Command Line Interface

Switch>en
Switch#show spanning-tree
VLAN0001
Spanning tree enabled protocol ieee
Root ID Priority 32769
Address 000C.CF22.E0DC
Cost 19
Port 3(FastEthernet0/3)
Hello Time 2 sec Max Age 20 sec Forward Delay 15 sec

Bridge ID Priority 32769 (priority 32768 sys-id-ext 1)
Address 00D0.D344.0A67
Hello Time 2 sec Max Age 20 sec Forward Delay 15 sec
Aging Time 20

Interface Role Sts Cost Prio.Nbr Type

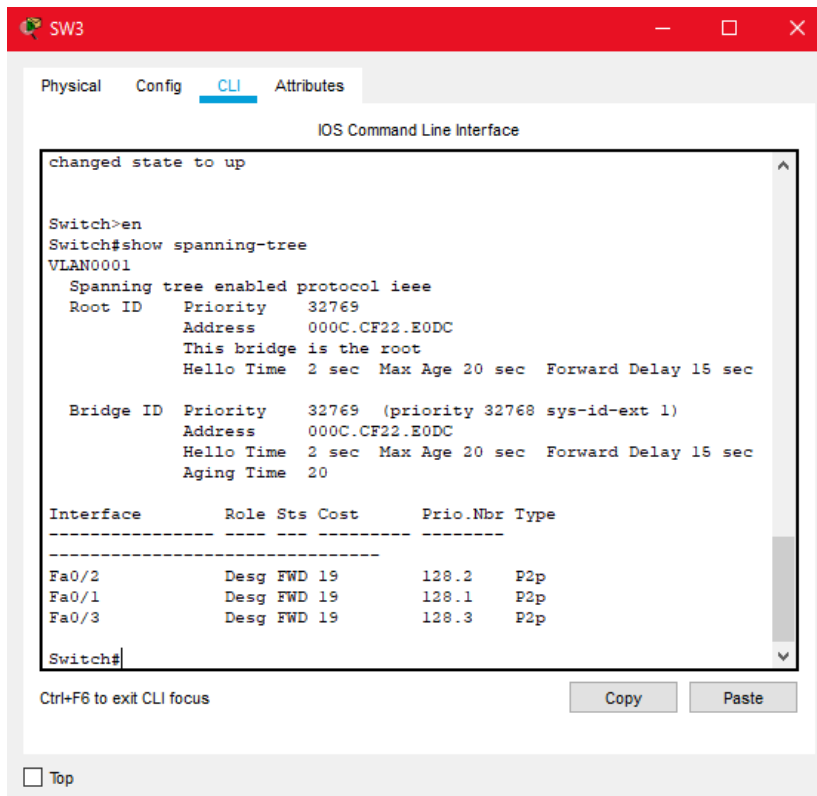
Fa0/1 Desg FWD 19 128.1 P2p
Fa0/2 Altn BLK 19 128.2 P2p
Fa0/3 Root FWD 19 128.3 P2p

Switch#

Ctrl+F6 to exit CLI focus

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Tugas 4B

SW1

No	Variabel	Nilai
1	Root ID	32769 000C.CF22.E0DC
2	Priority	32769
3	MAC Address	0060.2FB7.A1DA
4	Bridge ID	32768 0060.2FB7.A1DA
5	Cost (0/1;0/2;0/3)	19;19;19
6	Hello Time	2 sec
7	MaxAge	20 sec
8	Forward Delay	15 sec

SW2

No	Variabel	Nilai
1	Root ID	32769 000C.CF22.E0DC
2	Priority	32769
3	MAC Address	00D0.D344.0A67
4	Bridge ID	32768 00D0.D344.0A67
5	Cost (0/1;0/2;0/3)	19;19;19
6	Hello Time	2 sec
7	MaxAge	20 sec
8	Forward Delay	15 sec

SW3

No	Variabel	Nilai
1	Root ID	32769 000C.CF22.E0DC
2	Priority	32769
3	MAC Address	000C.CF22.E0DC
4	Bridge ID	32768 000C.CF22.E0DC
5	Cost (0/1;0/2;0/3)	19;19;19
6	Hello Time	2 sec
7	MaxAge	20 sec
8	Forward Delay	15 sec

Tugas 4C

- Root bridge SW3
- Designated bridge SW1
- Root port SW2 0/3, SW3 0/3
- Designated port SW1 0/1;02 | SW2 0/1 | SW3 0/1

Tugas 4D

Forward

SW1 0/1;0/2;0/3 | SW2 0/1;0/3 | SW3 0/1;0/2;0/3

Blocking

SW2 0/2

Tugas 5A

Klik pada PC Leo kemudian buka tab desktop dan pilih command prompt. Ketikkan ping 172.21.1.3 alamat IP PC Virgo

Tugas 6A

Ada 2 cara yaitu klik 'file' pada bagian atas kiri dan pilih 'save' kemudian akan muncul file explorer, pilih direktori penyimpanan dan beri nama lab2.pkt

Atau pada keyboard ketik ctrl+s dan akan muncul file explorer dan lakukan langkah selanjutnya sama seperti diatas

Tugas 9A

SW1

Physical Config CLI Attributes

IOS Command Line Interface

changed state to up

Switch>en
Switch#show spanning-tree
VLAN0001
Spanning tree enabled protocol ieee
Root ID Priority 32769
Address 000C.CF22.E0DC
Cost 19
Port 3(FastEthernet0/3)
Hello Time 2 sec Max Age 20 sec Forward Delay 15 sec

Bridge ID Priority 32769 (priority 32768 sys-id-ext 1)
Address 0060.2FB7.A1DA
Hello Time 2 sec Max Age 20 sec Forward Delay 15 sec
Aging Time 20

Interface Role Sts Cost Prio.Nbr Type

Fa0/1 Desg FWD 19 128.1 P2p
Fa0/3 Root FWD 19 128.3 P2p

Switch#

Ctrl+F6 to exit CLI focus Copy Paste

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SW2

Physical Config CLI Attributes

IOS Command Line Interface

changed state to up

Switch>en
Switch#show spanning-tree
VLAN0001
Spanning tree enabled protocol ieee
Root ID Priority 32769
Address 000C.CF22.E0DC
Cost 19
Port 3(FastEthernet0/3)
Hello Time 2 sec Max Age 20 sec Forward Delay 15 sec

Bridge ID Priority 32769 (priority 32768 sys-id-ext 1)
Address 00D0.D344.0A67
Hello Time 2 sec Max Age 20 sec Forward Delay 15 sec
Aging Time 20

Interface Role Sts Cost Prio.Nbr Type

Fa0/1 Desg FWD 19 128.1 P2p
Fa0/3 Root FWD 19 128.3 P2p

Switch#

Ctrl+F6 to exit CLI focus Copy Paste

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SW3

Physical Config CLI Attributes

IOS Command Line Interface

changed state to up

Switch>en
Switch#show spanning-tree
VLAN0001
Spanning tree enabled protocol ieee
Root ID Priority 32769
Address 000C.CF22.E0DC
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 000C.CF22.E0DC
Hello Time 2 sec Max Age 20 sec Forward Delay 15 sec
Aging Time 20

Interface Role Sts Cost Prio.Nbr Type

Fa0/1 Desg FWD 19 128.1 P2p
Fa0/2 Desg FWD 19 128.2 P2p
Fa0/3 Desg FWD 19 128.3 P2p

Switch#

Ctrl+F6 to exit CLI focus Copy Paste

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SW1

No	Variabel	Nilai
1	Root ID	32769 000C.CF22.E0DC
2	Priority	32769
3	MAC Address	0060.2FB7.A1DA
4	Bridge ID	32768 0060.2FB7.A1DA
5	Cost (0/1;0/2;0/3)	19;0;19
6	Hello Time	2 sec
7	MaxAge	20 sec
8	Forward Delay	15 sec

SW2

No	Variabel	Nilai
1	Root ID	32769 000C.CF22.E0DC
2	Priority	32769
3	MAC Address	00D0.D344.0A67
4	Bridge ID	32768 00D0.D344.0A67
5	Cost (0/1;0/2;0/3)	19;0;19
6	Hello Time	2 sec
7	MaxAge	20 sec
8	Forward Delay	15 sec

SW3

No	Variabel	Nilai
1	Root ID	32769 000C.CF22.E0DC
2	Priority	32769
3	MAC Address	000C.CF22.E0DC
4	Bridge ID	32768 000C.CF22.E0DC
5	Cost (0/1;0/2;0/3)	19;19;19
6	Hello Time	2 sec
7	MaxAge	20 sec
8	Forward Delay	15 sec

- Root bridge SW3
- Designated bridge tidak ada
- Root port SW1 0/3 | SW2 0/3
- Designated port SW1 0/1 | SW2 0/1 | SW3 0/1
- Forwarding SW1 0/1;0/2 | SW2 0/1;0/2 | SW3 0/1;0/2;0/3
- Blocking tidak ada