

Modul 4

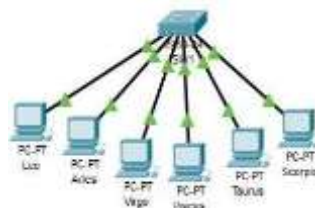
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NIM : L200180068

Kelas : B

Topologi 1

1. Rancangan jaringan



2. Vlan 10

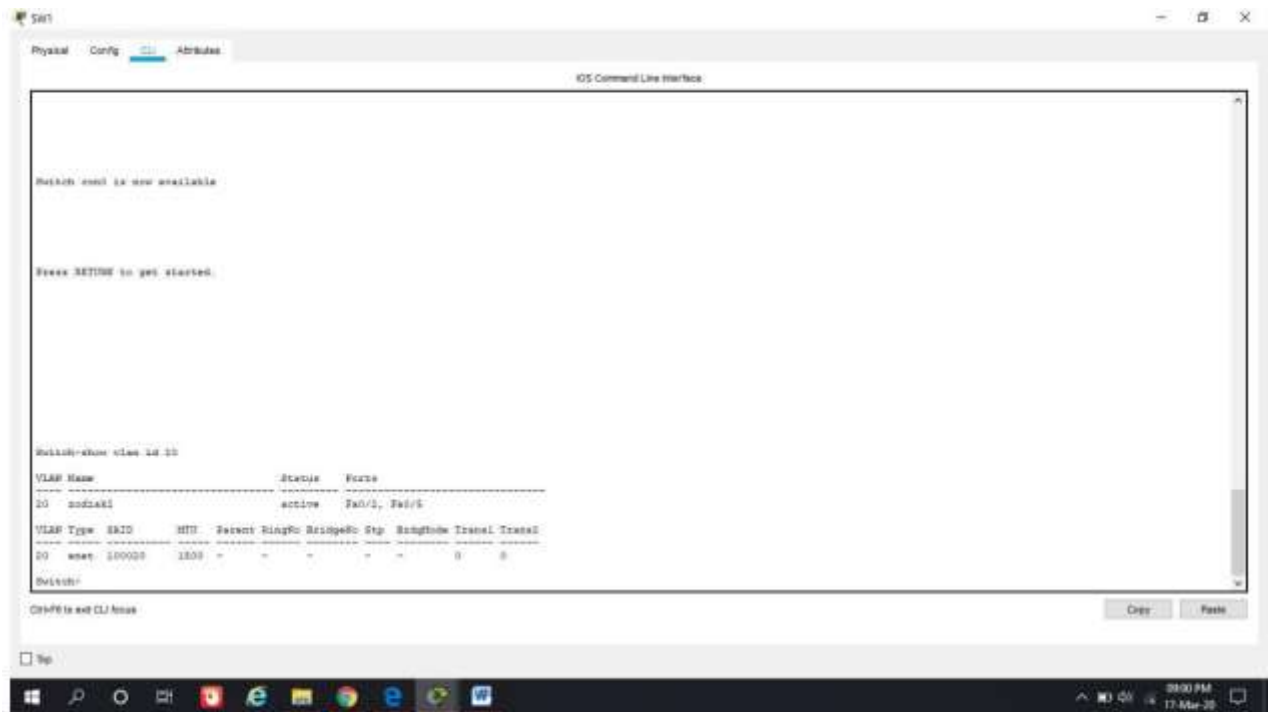
```

Switch#
Switch#conf t
Switch(config)#
Switch(config)#vlan 10
Switch(config-vlan)#name zodiak1
Switch(config-vlan)#exit
Switch(config)#interface Fa0/1
Switch(config-if)#switchport mode access
Switch(config-if)#switchport access vlan 10
Switch(config-if)#exit
Switch(config)#interface Fa0/4
Switch(config-if)#switchport mode access
Switch(config-if)#switchport access vlan 10
Switch(config-if)#exit
Switch(config)#exit
Switch#show vlan
Switch#
VLAN Name      Status Ports
-----
10 zodiak1    active Fa0/1, Fa0/4
VLAN Type  MTU  Parent RingNo BridgeNo Stp  BridgeMode Transl Tunnel
-----
10  static 1500  -      -      -      -      -      -      -
Switch#
  
```

No	Variabel	Nilai
1	Nomor VLAN	10
2	Nama Vlan	Zodiak1
3	Port	Fa 0/1, Fa 0/4
4	Status	active

Vlan 10 dengan nama zodiak1 dan memiliki port Fa 0/1 dan Fa0/4 yang merupakan anggota dari zodiak1 yaitu Leo dan Libra, dan berstatus active

3. Vlan 20



No	Variabel	Nilai
1	Nomor VLAN	20
2	Nama Vlan	Zodiak2
3	Port	Fa 0/2, Fa 0/5
4	Status	active

Vlan 20 dengan nama zodiak2 dan memiliki port Fa 0/2 dan Fa 0/5 yang merupakan anggota dari zodiak2 yaitu Aries dan Taurus, dan berstatus active

4. Vlan 30

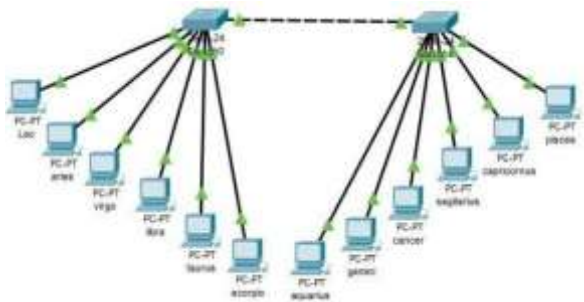


No	Variabel	Nilai
1	Nomor VLAN	30
2	Nama Vlan	Zodiak3
3	Port	Fa 0/3, Fa 0/6
4	Status	Active

Vlan 30 dengan nama zodiak3 dan memiliki port Fa 0/3 dan Fa 0/6 yang merupakan anggota dari zodiak3 yaitu Virgo dan Scorpio, dan berstatus active

Topologi 2

1. Rancangan Jaringan



2. Trunk pada switch 1

```

Switch# show interface FastEthernet 0/7 switchport
Name: Fa0/7
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 VLAN: none
Administrative private-vlan trunk private VLAN: none
Operational private-vlan: none
Trunking VLANs Enabled: ALL
Trunking VLANs Enabled: 1-4094
Captives Mode Disabled
Captives VLANs Allowed: ALL
Protected: false
Appliance AAA: none

Switch# show interface trunk
      Name             Mode             Encapsulation  Status        Native vlan
-----
Fa0/7                on              dot1q            trunking      1

      Name             Mode             Encapsulation  Status        Native vlan
-----
Fa0/6                off              dot1q            down          1
      1,10,15,20

      Name             Mode             Encapsulation  Status        Native vlan
-----
Fa0/5                on              dot1q            trunking      1
      1,10,15,20

      Name             Mode             Encapsulation  Status        Native vlan
-----
Fa0/4                on              dot1q            trunking      1
      1,10,15,20

```

```

Switch# show vlan
VLAN Name                             Status    Ports
----
1    default                            active    Fa0/0, Fa0/1, Fa0/2, Fa0/3, Fa0/4, Fa0/5, Fa0/6, Fa0/7, Fa0/8, Fa0/9, Fa0/10, Fa0/11, Fa0/12, Fa0/13, Fa0/14, Fa0/15, Fa0/16, Fa0/17, Fa0/18, Fa0/19, Fa0/20, Fa0/21, Fa0/22, Fa0/23, Fa0/24, Fa0/25, Fa0/26, Fa0/27, Fa0/28, Fa0/29, Fa0/30, Fa0/31
10   Fa0/0-24/25
20   Fa0/26-48
30   Fa0/49-60
40   Fa0/61-72
50   Fa0/73-84
60   Fa0/85-96
70   Fa0/97-108
80   Fa0/109-120
90   Fa0/121-132
100  Fa0/133-144
110  Fa0/145-156
120  Fa0/157-168
130  Fa0/169-180
140  Fa0/181-192
150  Fa0/193-204
160  Fa0/205-216
170  Fa0/217-228
180  Fa0/229-240
190  Fa0/241-252
200  Fa0/253-264
210  Fa0/265-276
220  Fa0/277-288
230  Fa0/289-300
240  Fa0/301-312
250  Fa0/313-324
260  Fa0/325-336
270  Fa0/337-348
280  Fa0/349-360
290  Fa0/361-372
300  Fa0/373-384
310  Fa0/385-396
320  Fa0/397-408
330  Fa0/409-420
340  Fa0/421-432
350  Fa0/433-444
360  Fa0/445-456
370  Fa0/457-468
380  Fa0/469-480
390  Fa0/481-492
400  Fa0/493-504
410  Fa0/505-516
420  Fa0/517-528
430  Fa0/529-540
440  Fa0/541-552
450  Fa0/553-564
460  Fa0/565-576
470  Fa0/577-588
480  Fa0/589-600
490  Fa0/601-612
500  Fa0/613-624
510  Fa0/625-636
520  Fa0/637-648
530  Fa0/649-660
540  Fa0/661-672
550  Fa0/673-684
560  Fa0/685-696
570  Fa0/697-708
580  Fa0/709-720
590  Fa0/721-732
600  Fa0/733-744
610  Fa0/745-756
620  Fa0/757-768
630  Fa0/769-780
640  Fa0/781-792
650  Fa0/793-804
660  Fa0/805-816
670  Fa0/817-828
680  Fa0/829-840
690  Fa0/841-852
700  Fa0/853-864
710  Fa0/865-876
720  Fa0/877-888
730  Fa0/889-900
740  Fa0/901-912
750  Fa0/913-924
760  Fa0/925-936
770  Fa0/937-948
780  Fa0/949-960
790  Fa0/961-972
800  Fa0/973-984
810  Fa0/985-996
820  Fa0/997-1008
830  Fa0/1009-1020
840  Fa0/1021-1032
850  Fa0/1033-1044
860  Fa0/1045-1056
870  Fa0/1057-1068
880  Fa0/1069-1080
890  Fa0/1081-1092
900  Fa0/1093-1104
910  Fa0/1105-1116
920  Fa0/1117-1128
930  Fa0/1129-1140
940  Fa0/1141-1152
950  Fa0/1153-1164
960  Fa0/1165-1176
970  Fa0/1177-1188
980  Fa0/1189-1200
990  Fa0/1201-1212
1000 Fa0/1213-1224
1010 Fa0/1225-1236
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1200 Fa0/1453-1464
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5610 Fa0/6745-6756
5620 Fa0/6757-6768
5630 Fa0/6769-6780
5640 Fa0/6781-6792
5650 Fa0/6793-6804
5660 Fa0/6805-6816
5670 Fa0/6817-6828
5680 Fa0/6829-6840
5690 Fa0/6841-6852
5700 Fa0/6853-6864
5710 Fa0/6865-6876
5720 Fa0/6877-6888
5730 Fa0/6889-6900
5740 Fa0/6901-6912
5750 Fa0/6913-6924
5760 Fa0/6925-6936
5770 Fa0/6937-6948
5780 Fa0/6949-6960
5790 Fa0/6961-6972
5800 Fa0/6973-6984
5810 Fa0/6985-6996
5820 Fa0/6997-7008
5830 Fa0/7009-7020
5840 Fa0/7021-7032
5850 Fa0/7033-7044
5860 Fa0/7045-7056
5870 Fa0/7057-7068
5880 Fa0/7069-7080
5890 Fa0/7081-7092
5900 Fa0/7093-7104
5910 Fa0/7105-7116
5920 Fa0/7117-7128
5930 Fa0/7129-7140
5940 Fa0/7141-7152
5950 Fa0/7153-7164
5960 Fa0/7165-7176
5970 Fa0/7177-7188
5980 Fa0/7189-7200
5990 Fa0/7201-7212
6000 Fa0/7213-7224
6010 Fa0/7225-7236
6020 Fa0/7237-7248
6030 Fa0/7249-7260
6040 Fa0/7261-7272
6050 Fa0/7273-7284
6060 Fa0/7285-7296
6070 Fa0/7297-7308
6080 Fa0/7309-7320
6090 Fa0/7321-7332
6100 Fa0/7333-7344
6110 Fa0/7345-7356
6120 Fa0/7357-7368
6130 Fa0/7369-7380
6140 Fa0/7381-7392
6150 Fa0/7393-7404
6160 Fa0/7405-7416
6170 Fa0/7417-7428
6180 Fa0/7429-7440
6190 Fa0/7441-7452
6200 Fa0/7453-7464
6210 Fa0/7465-7476
6220 Fa0/7477-7488
6230 Fa0/7489-7500
6240 Fa0/7501-7512
6250 Fa0/7513-7524
6260 Fa0/7525-7536
6270 Fa0/7537-7548
6280 Fa0/7549-7560
6290 Fa0/7561-7572
6300 Fa0/7573-7584
6310 Fa0/7585-7596
6320 Fa0/7597-7608
6330 Fa0/7609-7620
6340 Fa0/7621-7632
6350 Fa0/7633-7644
6360 Fa0/7645-7656
6370 Fa0/7657-7668
6380 Fa0/7669-7680
6390 Fa0/7681-7692
6400 Fa0/7693-7704
6410 Fa0/7705-7716
6420 Fa0/7717-7728
6430 Fa0/7729-7740
6440 Fa0/7741-7752
6450 Fa0/7753-7764
6460 Fa0/7765-7776
6470 Fa0/7777-7788
6480 Fa0/7789-7800
6490 Fa0/7801-7812
6500 Fa0/7813-7824
6510 Fa0/7825-7836
6520 Fa0/7837-7848
6530 Fa0/7849-7860
6540 Fa0/7861-7872
6550 Fa0/7873-7884
6560 Fa0/7885-7896
6570 Fa0/7897-7908
6580 Fa0/7909-7920
6590 Fa0/7921-7932
6600 Fa0/7933-7944
6610 Fa0/7945-7956
6620 Fa0/7957-7968
6630 Fa0/7969-7980
6640 Fa0/7981-7992
6650 Fa0/7993-8004
6660 Fa0/8005-8016
6670 Fa0/8017-8028
6680 Fa0/8029-8040
6690 Fa0/8041-8052
6700 Fa0/8053-8064
6710 Fa0/8065-8076
6720 Fa0/8077-8088
6730 Fa0/8089-8100
6740 Fa0/8101-8112
6750 Fa0/8113-8124
6760 Fa0/8125-8136
6770 Fa0/8137-8148
6780 Fa0/8149-8160
6790 Fa0/8161-8172
6800 Fa0/8173-8184
6810 Fa0/8185-8196
6820 Fa0/8197-8208
6830 Fa0/8209-8220
6840 Fa0/8221-8232
6850 Fa0/8233-8244
6860 Fa0/8245-8256
6870 Fa0/8257-8268
6880 Fa0/8269-8280
6890 Fa0/8281-8292
6900 Fa0/8293-8304
6910 Fa0/8305-8316
6920 Fa0/8317-8328
6930 Fa0/8329-8340
6940 Fa0/8341-8352
6950 Fa0/8353-8364
6960 Fa0/8365-8376
6970 Fa0/8377-8388
6980 Fa0/8389-8400
6990 Fa0/8401-8412
7000 Fa0/8413-8424

```



```
Leo
Physical Config Desktop Programming Attributes
Command Prompt
C:\>ping 172.21.1.3
Pinging 172.21.1.3 with 32 bytes of data:
Request timed out.
Request timed out.
Request timed out.
Request timed out.

Ping statistics for 172.21.1.3:
    Packets: Sent = 4, Received = 0, Lost = 4 (100% loss),

C:\>ping 172.21.1.3
Pinging 172.21.1.3 with 32 bytes of data:
Reply from 172.21.1.3: bytes=32 time=1ms TTL=128
Reply from 172.21.1.3: bytes=32 time=1ms TTL=128
Reply from 172.21.1.3: bytes=32 time=1ms TTL=128
Reply from 172.21.1.3: bytes=32 time=1ms TTL=128

Ping statistics for 172.21.1.3:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
    Approximate round trip times in milli-seconds:
        Minimum = 1ms, Maximum = 1ms, Average = 1ms
C:\>ping 172.21.1.4
```

Hasil ping dari PC leo ke PC aries “Request timed out” karena PC leo dan PC aries tidak berada dalam satu VLAN meskipun memiliki network access yang sama.

6. Melakukan ping dari pc leo ke pc aquarius

```
Leo
Physical Config Desktop Programming Attributes
Command Prompt
C:\>ping 172.21.1.3
Pinging 172.21.1.3 with 32 bytes of data:
Request timed out.
Request timed out.
Request timed out.
Request timed out.

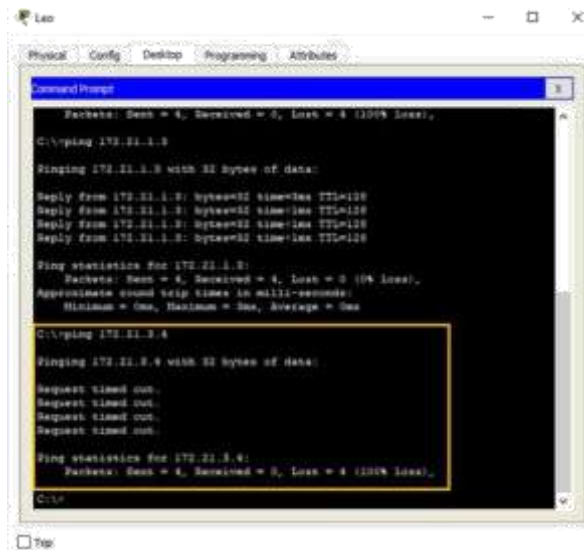
Ping statistics for 172.21.1.3:
    Packets: Sent = 4, Received = 0, Lost = 4 (100% loss),

C:\>ping 172.21.1.3
Pinging 172.21.1.3 with 32 bytes of data:
Reply from 172.21.1.3: bytes=32 time=1ms TTL=128
Reply from 172.21.1.3: bytes=32 time=1ms TTL=128
Reply from 172.21.1.3: bytes=32 time=1ms TTL=128
Reply from 172.21.1.3: bytes=32 time=1ms TTL=128

Ping statistics for 172.21.1.3:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
    Approximate round trip times in milli-seconds:
        Minimum = 1ms, Maximum = 1ms, Average = 1ms
C:\>ping 172.21.1.4
```

Hasil ping dari PC leo ke PC aquarius “Reply” karena PC leo dan PC aquarius berada dalam satu VLAN dan memiliki network access yang sama.

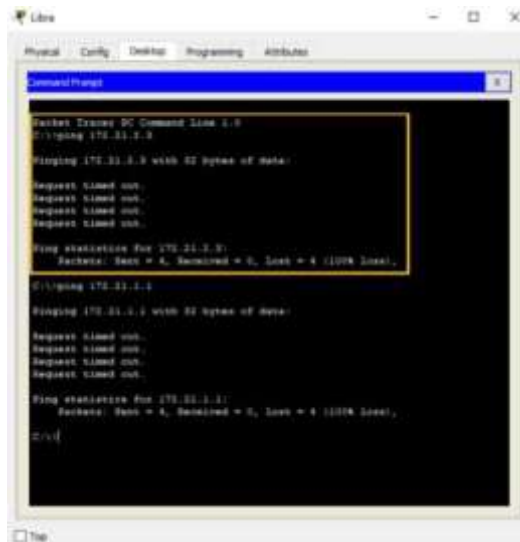
7. Melakukan ping dari pc leo ke pc pisces



```
Leo
Physical Config Desktop Programming Attributes
Command Prompt
Packets: Sent = 4, Received = 4, Loss = 0 (0% loss),
C:\>ping 172.21.1.3
Pinging 172.21.1.3 with 32 bytes of data:
Reply from 172.21.1.3: bytes=32 time=1ms TTL=128
Reply from 172.21.1.3: bytes=32 time=1ms TTL=128
Reply from 172.21.1.3: bytes=32 time=1ms TTL=128
Reply from 172.21.1.3: bytes=32 time=1ms TTL=128
Ping statistics for 172.21.1.3:
Packets: Sent = 4, Received = 4, Loss = 0 (0% loss),
Approximate round trip times in milli-seconds:
Minimum = 0ms, Maximum = 0ms, Average = 0ms
C:\>ping 172.21.3.4
Pinging 172.21.3.4 with 32 bytes of data:
Request timed out.
Request timed out.
Request timed out.
Request timed out.
Ping statistics for 172.21.3.4:
Packets: Sent = 4, Received = 0, Loss = 4 (100% loss),
C:\>
```

Hasil ping dari PC leo ke PC pisces “Request timed out” karena PC leo dan PC pisces tidak berada dalam satu VLAN dan memiliki network access yang berbeda.

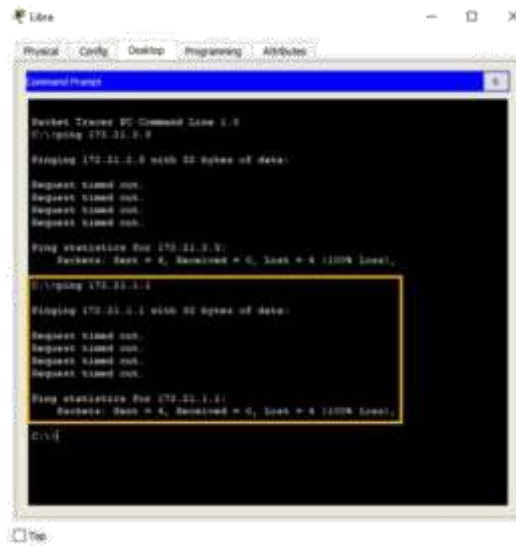
8. Melakukan ping dari pc libra ke pc cancer



```
Libra
Physical Config Desktop Programming Attributes
Command Prompt
Packets: Sent = 4, Received = 0, Loss = 4 (100% loss),
C:\>ping 172.21.1.3
Pinging 172.21.1.3 with 32 bytes of data:
Request timed out.
Request timed out.
Request timed out.
Request timed out.
Ping statistics for 172.21.1.3:
Packets: Sent = 4, Received = 0, Loss = 4 (100% loss),
C:\>ping 172.21.3.4
Pinging 172.21.3.4 with 32 bytes of data:
Request timed out.
Request timed out.
Request timed out.
Request timed out.
Ping statistics for 172.21.3.4:
Packets: Sent = 4, Received = 0, Loss = 4 (100% loss),
C:\>
```

Hasil ping dari PC libra ke PC cancer “Request timed out” karena PC libra dan PC cancer tidak berada dalam satu VLAN meskipun memiliki network access yang sama

9. Melakukan ping dari pc libra ke pc leo



```
Libra
Physical  Config  Desktop  Programming  Applications

Command Prompt

Packet Tracer PC Command Line 1.0
C:\>ping 172.21.1.9

Pinging 172.21.1.9 with 32 bytes of data:

Request timed out.
Request timed out.
Request timed out.
Request timed out.

Ping statistics for 172.21.1.9:
    Packets: Sent = 4, Received = 0, Loss = 4 (100% loss),

C:\>ping 172.21.1.4

Pinging 172.21.1.4 with 32 bytes of data:

Request timed out.
Request timed out.
Request timed out.
Request timed out.

Ping statistics for 172.21.1.4:
    Packets: Sent = 4, Received = 0, Loss = 4 (100% loss),

C:\>
```

Hasil ping dari PC libra ke PC leo “Request timed out” karena PC libra dan PC leo tidak berada dalam satu VLAN meskipun memiliki network access yang sama.