

NAMA : WINDI SAPUTRI

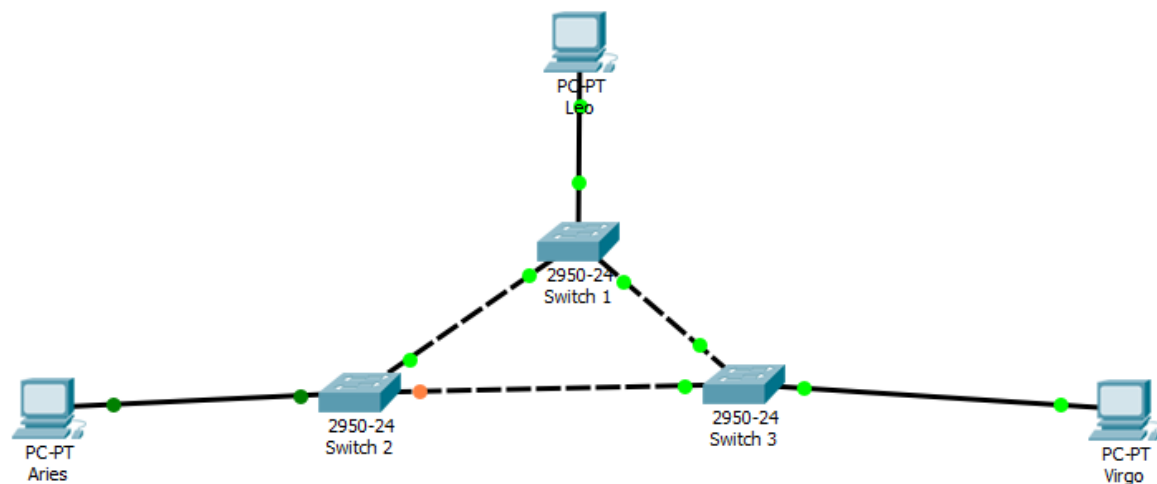
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KELAS : C

MODUL 6

KEGIATAN 1

TUGAS 1A :



Tugas 1A : langkah pembuatan topologi

Drag 3 switch catalyst 2950 yang diambil dari network devices dan drop ke lembar kerja. Lalu drag 3 PC yang diambil di end devices dan drop ke lembar kerja . lalu hubungkan switch dengan switch dan switch dengan PC dengan connections.

Tugas 2A : langkah pemberian nama

Switch 1

```
Switch>en
Switch#conf term
Enter configuration commands, one per line. End with CNTL/Z.
Switch(config)#hostname SW1
SW1(config)#exit
SW1#
%SYS-5-CONFIG_I: Configured from console by console
SW1#
```

Switch 2

```
Switch>en
Switch#conf term
Enter configuration commands, one per line. End with CNTL/Z.
Switch(config)#hostname SW2
SW2(config)#exit
SW2#
%SYS-5-CONFIG_I: Configured from console by console
```

Switch 3

```
Switch>en
Switch#conf term
Enter configuration commands, one per line. End with CNTL/Z.
Switch(config)#hostname SW3
SW3(config)#exit
SW3#
%SYS-5-CONFIG_I: Configured from console by console

SW3#
```

3. konfigurasi IP :

The screenshot shows a window titled "LEO" with a tabbed interface. The "Config" tab is selected, and the "IP Configuration" sub-tab is active. The "IP Configuration" section has two radio buttons: "DHCP" (unselected) and "Static" (selected). Below these are four text input fields: "IP Address" (172.21.1.1), "Subnet Mask" (255.255.0.0), "Default Gateway" (0.0.0.0), and "DNS Server" (0.0.0.0). The "IPv6 Configuration" section also has two radio buttons: "Auto Config" (unselected) and "Static" (selected). Below these are four text input fields: "IPv6 Address" (empty), "Link Local Address" (FE80::202:17FF:FE25:6B43), "IPv6 Gateway" (empty), and "IPv6 DNS Server" (empty).

ARIES

Physical Config Desktop Programming Attributes

IP Configuration

IP Configuration

☐ DHCP ☒ Static

IP Address 172.21.1.2

Subnet Mask 255.255.0.0

Default Gateway 0.0.0.0

DNS Server 0.0.0.0

IPv6 Configuration

☐ DHCP ☐ Auto Config ☒ Static

IPv6 Address /

Link Local Address FE80::2D0:BAFF:FED5:BB62

IPv6 Gateway

IPv6 DNS Server

Top

VIRGO

Physical Config Desktop Programming Attributes

IP Configuration

IP Configuration

☐ DHCP ☒ Static

IP Address 172.21.1.3

Subnet Mask 255.255.0.0

Default Gateway 0.0.0.0

DNS Server 0.0.0.0

IPv6 Configuration

☐ DHCP ☐ Auto Config ☒ Static

IPv6 Address /

Link Local Address FE80::2E0:B0FF:FE12:5887

IPv6 Gateway

IPv6 DNS Server

Top

Physical	Config	CLI	Attributes
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```
%LINK-5-CHANGED: Interface FastEthernet0/2, changed state to up
%LINEPROTO-5-UPDOWN: Line protocol on Interface FastEthernet0/2, changed state to up
%LINK-5-CHANGED: Interface FastEthernet0/3, changed state to up
%LINEPROTO-5-UPDOWN: Line protocol on Interface FastEthernet0/3, changed state to up
```

```
SW1#show spanning-tree
VLAN0001
  Spanning tree enabled protocol ieee
  Root ID    Priority    32769
             Address     0050.0FAD.0B5C
             Cost        19
             Port        2(FastEthernet0/2)
             Hello Time  2 sec  Max Age 20 sec  Forward Delay 15 sec

  Bridge ID  Priority    32769  (priority 32768 sys-id-ext 1)
             Address     00E0.8F95.1812
             Hello Time  2 sec  Max Age 20 sec  Forward Delay 15 sec
             Aging Time  20
```

SW1#

```
%LINK-5-CHANGED: Interface FastEthernet0/2, changed state to up
%LINEPROTO-5-UPDOWN: Line protocol on Interface FastEthernet0/2, changed state to up
%LINK-5-CHANGED: Interface FastEthernet0/1, changed state to up
%LINEPROTO-5-UPDOWN: Line protocol on Interface FastEthernet0/1, changed state to up

Switch>enable
Switch#conf term
Enter configuration commands, one per line. End with CNTL/Z.
Switch(config)#hostname SW2
SW2(config)#exit
SW2#
%SYS-5-CONFIG_I: Configured from console by console

SW2#show spanning-tree
VLAN0001
  Spanning tree enabled protocol ieee
    Root ID    Priority    32769
              Address    00D0.971A.E72A
              Cost        19
              Port        2(FastEthernet0/2)
              Hello Time  2 sec  Max Age 20 sec  Forward Delay 15 sec

    Bridge ID  Priority    32769  (priority 32768 sys-id-ext 1)
              Address    00D0.D38D.ED5C
              Hello Time  2 sec  Max Age 20 sec  Forward Delay 15 sec
              Aging Time  20

Interface      Role Sts Cost      Prio.Nbr Type
-----
Fa0/3          Desg FWD 19        128.3    P2p
Fa0/1          Desg FWD 19        128.1    P2p
Fa0/2          Root FWD 19        128.2    P2p

SW2#
```

Physical Config CLI Attributes

IOS Command Line Interface

```

%LINK-5-CHANGED: Interface FastEthernet0/2, changed state to up
%LINEPROTO-5-UPDOWN: Line protocol on Interface FastEthernet0/2, changed state to down
%LINK-5-CHANGED: Interface FastEthernet0/2, changed state to up
%LINEPROTO-5-UPDOWN: Line protocol on Interface FastEthernet0/2, changed state to up

Switch>enable
Switch#conf term
Enter configuration commands, one per line. End with CNTL/Z.
Switch(config)#hostname SW3
SW3(config)#exit
SW3#
%SYS-5-CONFIG_I: Configured from console by console

SW3#show spanning-tree
VLAN0001
  Spanning tree enabled protocol ieee
  Root ID    Priority    32769
            Address     00D0.971A.E72A
            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     00D0.971A.E72A
            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

SW3#

```

Ctrl+F6 to exit CLI focus

TUGAS 4B :

SWITCH 1

No	Variabel	Nilai
1	Root ID	32769
2	Priority	32768
3	MAC Adress	0050.0FAD.0B5C
4	Bridge ID	32769
5	Cost(0/1;0/2;0/3)	19
6	Hello Time	2
7	MaxAge	20
8	Forward Delay	16

SWITCH 2 :

No	Variabel	Nilai
1	Root ID	32769
2	Priority	32768
3	MAC Adress	00D0.971A.E72A
4	Bridge ID	32769
5	Cost(0/1;0/2;0/3)	19
6	Hello Time	2
7	MaxAge	20
8	Forward Delay	15

SWITCH 3 :

No	Variabel	Nilai
1	Root ID	32769
2	Priority	32768
3	MAC Adress	00D0.971A.E72A
4	Bridge ID	-
5	Cost(0/1;0/2;0/3)	-
6	Hello Time	2
7	MaxAge	20
8	Forward Delay	15

TUGAS 4C :

- Root bridge : SW3
- Designated bridge : SW2
- Root port : SW1 (fa 0/2) dan SW2 (fa 0/2)
- Designated port : SW1 (fa 0/1), SW2 (fa 0/3; fa 0/1) dan SW3 (fa 0/1;fa 0/2; fa 0/3)

TUGAS 4D :

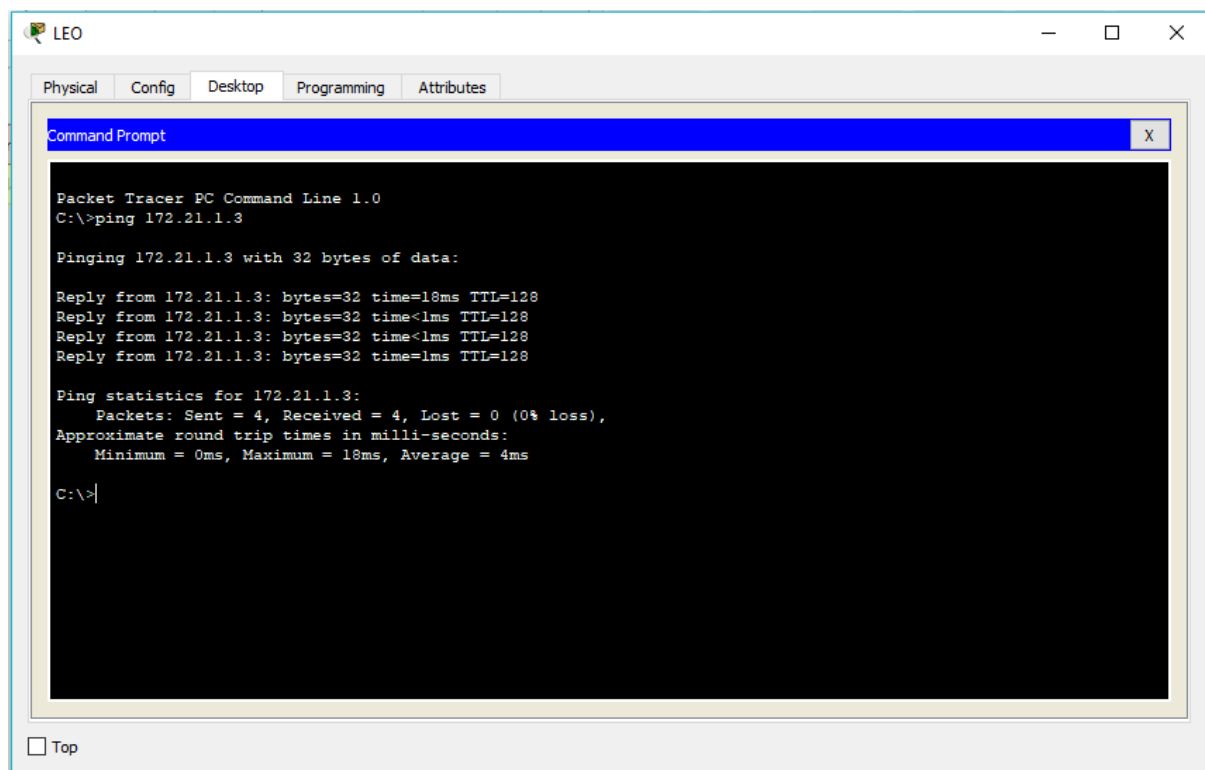
FORWARDING :

- SW1(fa 0/3; fa 0/1; fa 0/2)
- SW2(fa 0/3; fa 0/1; fa 0/2)
- SW3(fa 0/1; fa 0/2; fa 0/3)

BLOCKING: SW1 (fa 0/3)

TUGAS 5 PC LEO PING KE PC VIRGO :

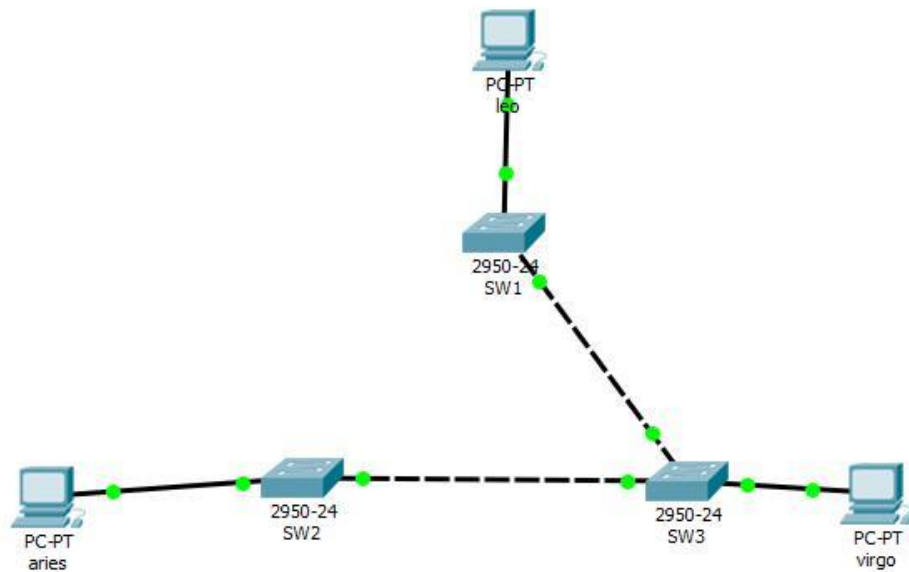
Klik pada pc leo > pilih tab desktop > pilih command prompt > tuliskan ping 172.21.13



TUGAS 6A :

Pilih file > save > beri nama lab2.txt berekstensi sesuai aplikasi

KEGIATAN 2 :



SWITCH 1

```

Switch>en
Switch#conf t
Enter configuration commands, one per line. End with CNTL/Z.
Switch(config)#hostname SW1
SW1(config)#exit
SW1#
%SYS-5-CONFIG_I: Configured from console by console

SW1#show spanning-tree
VLAN0001
  Spanning tree enabled protocol ieee
  Root ID    Priority    32769
            Address    0030.A3AA.6531
            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    0030.A3AA.6531
            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
  
```

SWITCH 2

```
Switch>en
Switch#conf t
Enter configuration commands, one per line. End with CNTL/Z.
Switch(config)#hostname SW2
SW2(config)#exit
SW2#
%SYS-5-CONFIG_I: Configured from console by console

SW2#show spanning-tree
VLAN0001
    Spanning tree enabled protocol ieee
    Root ID      Priority      32769
                Address      0030.A3AA.6531
                Cost        38
                Port        1(FastEthernet0/1)
                Hello Time  2 sec    Max Age 20 sec    Forward Delay 15 sec

    Bridge ID    Priority      32769 (priority 32768 sys-id-ext 1)
                Address      00D0.BC83.E999
                Hello Time  2 sec    Max Age 20 sec    Forward Delay 15 sec
                Aging Time  20

Interface      Role Sts Cost      Prio.Nbr Type
-----
Fa0/1          Root FWD 19        128.1    P2p
Fa0/2          Desg FWD 19        128.2    P2p

SW2#
```

SWITCH 3

```
Switch>en
Switch#conf t
Enter configuration commands, one per line. End with CNTL/Z.
Switch(config)#hostname SW3
SW3(config)#exit
SW3#
%SYS-5-CONFIG_I: Configured from console by console

SW3#show spanning-tree
VLAN0001
    Spanning tree enabled protocol ieee
    Root ID      Priority      32769
                Address      0030.A3AA.6531
                Cost        19
                Port        1(FastEthernet0/1)
                Hello Time   2 sec   Max Age 20 sec   Forward Delay 15 sec

    Bridge ID    Priority      32769   (priority 32768 sys-id-ext 1)
                Address      00D0.9759.1ECE
                Hello Time   2 sec   Max Age 20 sec   Forward Delay 15 sec
                Aging Time   20

Interface      Role Sts Cost      Prio.Nbr Type
-----
Fa0/2          Desg FWD 19        128.2    P2p
Fa0/1          Root FWD 19        128.1    P2p
Fa0/3          Desg FWD 19        128.3    P2p

SW3#
```

SWITCH 1

No	Variabel	Nilai
1	Root ID	32769
2	Priority	32768
3	MAC Adress	0030.A3AA.6531
4	Bridge ID	32769
5	Cost(0/1;0/2;0/3)	-
6	Hello Time	2
7	MaxAge	20
8	Forward Delay	15

SWITCH 2

No	Variabel	Nilai
1	Root ID	32769
2	Priority	32768
3	MAC Adress	00D0.BC83.E999
4	Bridge ID	32769
5	Cost(0/1;0/2;0/3)	38
6	Hello Time	2
7	MaxAge	20
8	Forward Delay	15

SWITCH 3

No	Variabel	Nilai
1	Root ID	32769
2	Priority	32768
3	MAC Adress	00D0.9759.1ECE
4	Bridge ID	32769
5	Cost(0/1;0/2;0/3)	19
6	Hello Time	2
7	MaxAge	20
8	Forward Delay	15

- Root bridge : SW1
- Designated bridge : SW3
- Root port : SW2 (fa 0/1) dan SW3 (fa 0/1)
- Designated port : SW1(fa 0/1; fa 0/2) SW2(fa 0/2) SW3(fa 0/2; fa 0/3)

FORWARDING :

SW1 (fa 0/1; fa 0/2)

SW2 (fa 0/1; fa 0/2)

SW3 (fa 0/2; fa 0/1; fa 0/3)

BLOCKING : TIDAK ADA

PC LEO PING KE PC VIRGO :

