CYVERO NETWORK PIONEERS CUP 2024 by EIM LABORATORY

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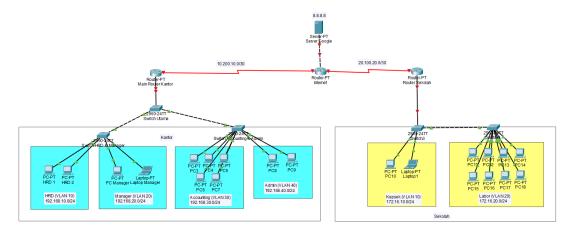
Instansi: Universitas Telkom

PENGUMPULAN

- Waktu Pengerjaan Sabtu, 9 November 2024 Puku 12.00-23.59 WIB
- Mengumpulkan Write Up dan Screenshot hasil pengerjaan
- Konfigurasi dilakukan static, kecuali PC Labor menggunakan DHCP
- Screenshot hasil pengerjaan wajib menampilkan user profile, waktu/tanggal pada taskbar dan completion pada Cisco Packet Tracer
- Pastikan Screenshot pengerjaan pada Cisco Packet Tracer jelas dan tidak blur
- Berikan Setiap penjelasan singkat pada tiap konfigurasi
- Pengumpulan Write Up dalam format .pdf dan Screenshot pengerjaan dalam format.png/.jpg
- Format penamaan file Write Up : Asal instansi_Nama Tim.pdf
- Format penamaan Screenshot pengerjaan : Asal instansi_Nama Tim.png/.jpg
- Pengumpulan dilakukan di Link Pengumpulan dan di email eimcyvero@gmail.com.
 Subject Email diisi dengan Asal instansi Nama Tim

Pada topologi ini akan mambuat jaringan kantor dan sekolah terhubung ke internet. Setiap instansi, akan dibagi-bagi lagi jaringannya berdasarkan VLAN.

Topologi jaringannya adalah sebagai berikut:



Pada topologi ini terdapat 3 router, Router untuk terhubung ke internet, router milik Kantor dan router milik Sekolah. Kantor dan sekolah akan mendapatkan Alamat IP dari Router nya masing-masing.

Pada topologi jaringan ini, rinciannya adalah sebagai berikut:

A. Kantor

- 1. HRD (VLAN 10): 201.28.10.0/24
- 2. Manager (VLAN 20): 201.28.20.0/24
- 3. Accounting (VLAN 30): 201.28.30.0/24
- 4. Admin (VLAN 40): 201.28.40.0/24

B. Sekolah

- 1. Kepala Sekolah (VLAN 10): 172.16.10.0/24
- 2. Labor (VLAN 20): 172.16.20.0/24
- C. Router Kantor Internet: 10.200.10.0/30
- D. Router Sekolah Internet: 20.100.20.0/30

- 1. Konfigurasi Switch: Membuat VLAN pada Switch dan menentukan Port nya (trunk dan access).
 - a. Untuk Kantor membuat VLAN 10, 20, 30 dan 40:

Konfigurasi:

VLAN 10 & 20 (Switch1):

Switch(config)#vlan 10

Switch(config-vlan)#name HRD

Switch(config-vlan)#vlan 20

Switch(config-vlan)#name Manager

Switch(config-vlan)#int range fa0/2-3

Switch(config-if-range)#switchport mode access

Switch(config-if-range)#switchport access vlan 10

Switch(config-if-range)#int range fa0/4-5

Switch(config-if-range)#switchport mode access

Switch(config-if-range)#switchport access vlan 20

Switch trunk:

Switch(config)#int fa0/1

Switch(config-if)#switchport mode trunk

VLAN 30 & 40 (Switch2):

Switch(config)#vlan 30

Switch(config-vlan)#name Accounting

Switch(config-vlan)#vlan 40

Switch(config-vlan)#name Admin

Switch(config-vlan)#int range fa0/2-6

Switch(config-if-range)#switchport mode access

Switch(config-if-range)#switchport access vlan 30

Switch(config-if-range)#int range fa0/7-8

Switch(config-if-range)#switchport mode access

Switch(config-if-range)#switchport access vlan 40

Switch trunk:

Switch(config)#int fa0/1

Switch(config-if)#switchport mode trunk

(Switch0):

Switch0 Trunk:

Switch(config)#int range fa0/2-3

Switch(config-if-range)#switchport mode trunk

Screenshoot:

Switch1:

VLAN	Name	Status	Ports
1	default	active	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, Gig0/1 Gig0/2
10	HRD	active	Fa0/2, Fa0/3
20	Manager	active	Fa0/4, Fa0/5
1002	fddi-default	active	
1003	token-ring-default	active	
1004	fddinet-default	active	
	trnet-default	active	

Port Fa0/1	Mode on	show int trunk Encapsulation 802.1q	Status trunking	Native vlan 1
Port Fa0/1	Vlans all 1-1005	owed on trunk		
Port Fa0/1	Vlans all 1,10,20	owed and active in	management	domain
Port Fa0/1	Vlans in 1,10,20	spanning tree forw	arding state	e and not pruned

Switch2:

VLAN	Name	Status	Ports
	default	active	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 Gig0/1, Gig0/2
30	Accounting	active	Fa0/2, Fa0/3, Fa0/4, Fa0/5 Fa0/6
40	Admin	active	Fa0/7, Fa0/8
1002	fddi-default	active	
1003	token-ring-default	active	
1004	fddinet-default	active	
1005	trnet-default	active	
G	-1- / fin if		

Switch (conf	fig-if)#do sho Mode	w int trunk Encapsulation	Status	Native vlan
Fa0/1	on	802.1q	trunking	1
Port Fa0/1	Vlans allowe 1-1005	d on trunk		
Port Fa0/1	Vlans allowe	d and active in	management do	omain
Port Fa0/1	Vlans in spa 1,10,20	nning tree forw	arding state a	and not pruned

Switch0:

```
Switch(config)#do show int tru
Port
Fa0/1
            Mode
                          Encapsulation Status
                                                         Native vlan
                          802.1q
                                          trunking
Fa0/2
                                         trunking
Fa0/3
                          802.1q
                                          trunking
Port
            Vlans allowed on trunk
Fa0/1
            1-1005
Fa0/2
            1-1005
            1-1005
            Vlans allowed and active in management domain
Fa0/1
            1,10,20,30,40
Fa0/3
            1,10,20,30,40
Port
            Vlans in spanning tree forwarding state and not pruned
            1,10,20,30,40
1,10,20,30,40
Fa0/3
```

b. Untuk Sekolah Membuat VLAN 10 dan VLAN 20:

Konfigurasi:

Sekolah VLAN 10 (Switch3):

Switch(config)#vlan 10

Switch(config-vlan)#name Kepsek

Switch(config-vlan)#int range fa0/2-3

Switch(config-if-range)#switchport mode access

Switch(config-if-range)#switchport access vlan 10

Switch trunk:

Switch(config)#int fa0/1

Switch(config-if)#switchport mode trunk

Sekolah vlan 20 (Switch 4):

Switch(config)#vlan 20

Switch(config-vlan)#name Labor

Switch(config-vlan)#int range fa0/2-9

Switch(config-if-range)#switchport mode access

Switch(config-if-range)#switchport access vlan 20

Switch trunk:

Switch(config)#int fa0/1

Switch(config-if)#switchport mode trunk

Screenshoot:

Switch3:

```
VLAN Name

Status

Ports

Active

Fa0/1, 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, Fa0/16, Fa0/17, Fa0/18

Fa0/19, Fa0/20, Fa0/21, Fa0/22

Fa0/23, Fa0/24, Gig0/1, Gig0/2

Fa0/25, Fa0/26, Fa0/27

State

Fa0/1, Fa0/2, Fa0/27

Fa0/2, Fa0/20, Fa0/21, Fa0/20

Fa0/2, Fa0/20, Fa0/21, Fa0/20

Fa0/2, Fa0/20, Fa0/21, Fa0/20

Fa0/2, Fa0/20, Fa0/20

Fa0/2, Fa0/20

Fa0/2, Fa0/3

State

State

Fa0/1, Fa0/10

Fa0/10, Fa0/10

Fa0/10, Fa0/10

Fa0/10, Fa0/20

Fa0/20, Fa0/20

Fa0/20,
```

```
Switch(config-if)#do show in tru
Port
           Mode
                         Encapsulation
                                         Status
                                                        Native vlan
Fa0/1
                          802.1q
                                         trunking
Port
            Vlans allowed on trunk
Fa0/1
            1-1005
Port
            Vlans allowed and active in management domain
Fa0/1
            Vlans in spanning tree forwarding state and not pruned
Port
            1,10
```

Switch4:

Switch (conf	ig-if)#do sho	w int tru			
Port Fa0/1	Mode on	Encapsulation 802.1g	Status trunking	Native vlan 1	
140/1	011	002.14	crunking	1	
Port	Vlans allowe	d on trunk			
Fa0/1	1-1005				
Port	Vlans allowed and active in management domain				
Fa0/1	1,20				
Port	Vlans in spa	nning tree forwa	arding state a	nd not pruned	
Fa0/1	none				

2. Konfigurasi pengalamatan IP: Router Kantor

a. Masukkan Alamat IP pada sub interface jaringan local, yaitu pada f0/0.10 – f0/0.40 dengan Alamat IP yang sudah ditentukan.

Konfigurasi:

Router(config)#int fa0/0.10

Router(config-subif)#encapsulation dot1Q 10

Router(config-subif)#ip address 201.28.10.1 255.255.255.0

Router(config)#int fa0/0.20

Router(config-subif)#encapsulation dot1Q 20

Router(config-subif)#ip address 201.28.20.1 255.255.255.0

Router(config-subif)#int fa0/0.30

Router(config-subif)#encapsulation dot1Q 30

Router(config-subif)#ip address 201.28.30.1 255.255.255.0

Router(config-subif)#int fa0/0.40

Router(config-subif)#encapsulation dot1Q 40

Router(config-subif)#ip address 201.28.40.1 255.255.255.0

Router(config-if)#int se2/0

Router(config-if)#ip address 10.200.10.2 255.255.255.252

Screenshoot:

```
Router(config-if)#do show ip int br
Interface
                       IP-Address
                                        OK? Method Status
                                                                          Protocol
                       unassigned
                                        YES unset up
YES manual up
FastEthernet0/0
                                                                          up
FastEthernet0/0.10
                                                                          up
FastEthernet0/0.20
                                        YES manual up
                                                                          up
FastEthernet0/0.30
                                        YES manual up
                                                                          up
                                        YES manual up
FastEthernet0/0.40
                                                                          up
FastEthernet1/0
                       unassigned
                                        YES unset administratively down down
Serial2/0
                       10.200.10.2
                                        YES manual up
                                                                          up
                       unassigned
FastEthernet4/0
                       unassigned
                                        YES unset administratively down down
                                        YES unset administratively down down
FastEthernet5/0
```

b. Setelah konfigurasi IP pada Router, selanjutnya masukkan IP pada Host.

Manager:

Screenshoot:

FastEthernet0/0.20	201.28.20.1	YES manual up	up
HRD:			
Screenshoot:			
FastEthernet0/0.10	201.28.10.1	YES manual up	up
Accounting:			
Screenshoot:			
FastEthernet0/0.30	201.28.30.1	YES manual up	up
Admin:			
Screenshoot			
FastEthernet0/0.40	201.28.40.1	YES manual up	up

- 3. Konfigurasi pengalamatan IP: Router Sekolah
 - a. Masukkan Alamat IP pada sub interface jaringan local, yaitu pada f0/0.10 f0/0.20 dengan Alamat IP yang sudah ditentukan

Konfigurasi:

Router Sekolah:

Router(config-subif)#int fa0/0.10

Router(config-subif)#encapsulation dot1Q 10

```
Router(config-subif)#ip address 172.16.10.1 255.255.255.0 Router(config-subif)#int fa1/0.20 Router(config-subif)#encapsulation dot1Q 20
```

Router(config-subif)#ip address 172.16.20.1 255.255.255.0

Router(config-if)#int se2/0 Router(config-if)#ip address 20.100.20.2 255.255.255.252

Screenshoot:

```
Router#show ip int br
Interface IP-Address
FastEthernet0/0 unassigned
FastEthernet1/0 172.16.10.1
FastEthernet1/0 unassigned
FastEthernet1/0.20 172.16.20.1
Serial2/0 20.100.20.2
Interface
                                     IP-Address
                                                              OK? Method Status
                                                                                                                   Protocol
                                                              YES manual up
                                                                                                                   up
                                                              YES manual up
                                                                                                                   up
                                                              YES manual up
                                                              YES manual up
                                                                                                                   up
                                   20.100.20.2
                                                              YES manual up
                                                                                                                   up
                                    unassigned
unassigned
                                                              YES unset administratively down down YES unset administratively down down
Serial3/0
FastEthernet5/0
```

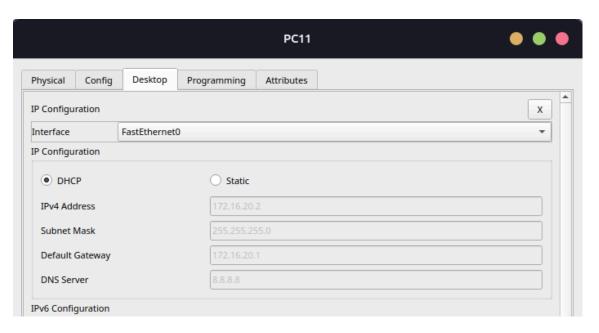
b. Untuk labor ditambahkan konfigurasi DHCP untuk mendapat IP otomatis karena banyaknya host:

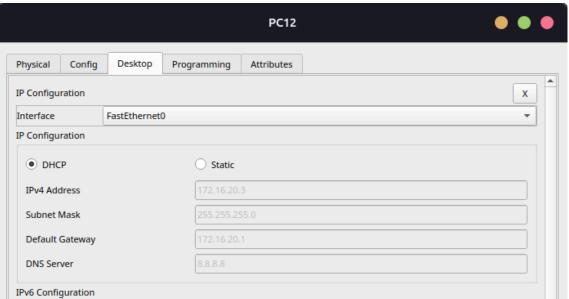
Screenshoot

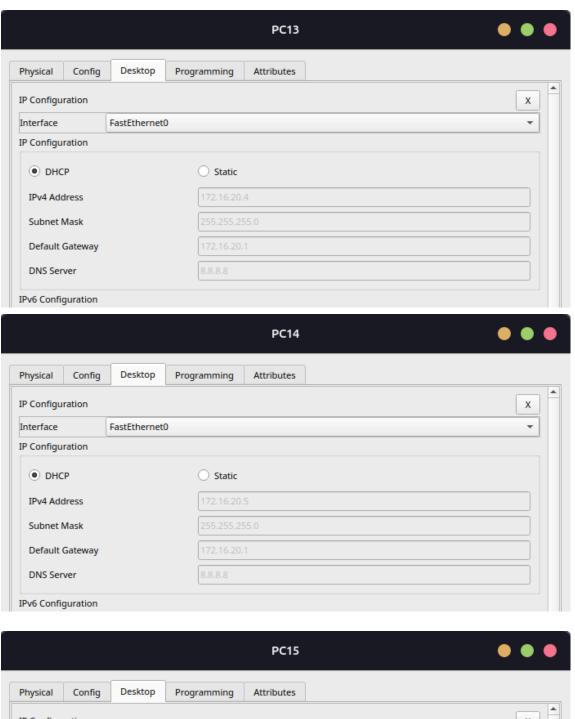
```
Pool Kepsek:
Utilization mark (high/low) : 100 / 0
Subnet size (first/next) : 0 / 0
Total addresses : 254
Leased addresses : 2
Excluded addresses : 0
Pending event : none

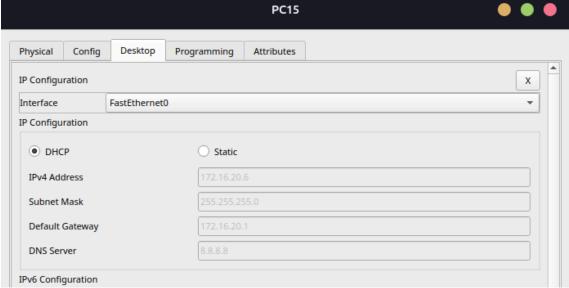
1 subnet is currently in the pool
Current index IP address range Leased/Excluded/Total
172.16.10.1 172.16.10.1 - 172.16.10.254 2 / 0 / 254
Router(dhcp-config)#
```

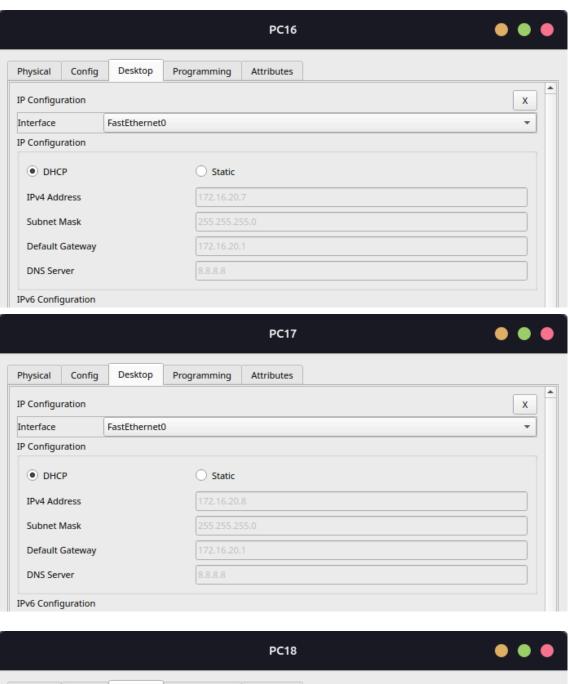
c. Hasil dari konfigurasi DHCP tiap PC Labor:

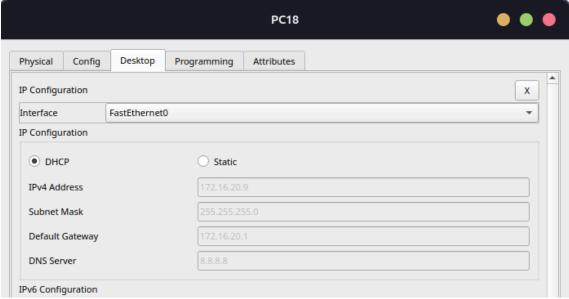






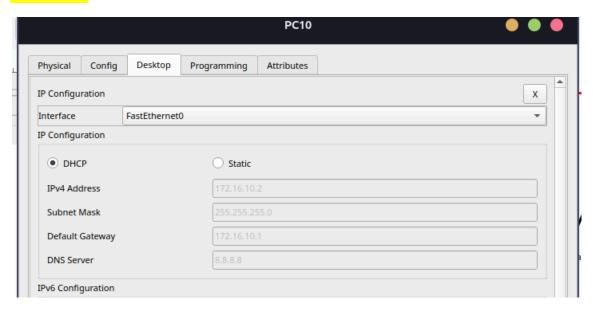


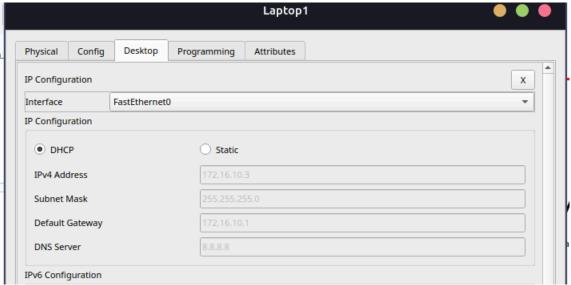




d. IP pada host Kepsek:

Screenshoot





4. Konfigurasi Router Internet:

Hubungkan semua jaringan ini dengan konfigurasi Routing pada semua Router. Konfigurasi yang diterapkan pada jaringan ini yaitu Routing Dynamic OSPF.

Konfigurasi:

Router(config)#router ospf 1

Router(config-router)#network 8.8.8.0 0.0.0.255 area 0

Router(config-router)#network 10.200.10.0 0.0.0.3 area 0

Router(config-router)#network 20.100.20.0 0.0.0.3 area 0

```
Router(config)#do show run | sec osp
router ospf 1
log-adjacency-changes
network 10.200.10.0 0.0.0.3 area 0
network 20.100.20.0 0.0.0.3 area 0
network 8.8.8.0 0.0.0.255 area 0
```

```
Router(config) #do show ip route

Codes: C - connected, S - static, I - IGRP, R - RIP, M - mobile, B - BGP

D - EIGRP, EX - EIGRP external, O - OSPF, IA - OSPF inter area

N1 - OSPF NSSA external type 1, N2 - OSPF NSSA external type 2

E1 - OSPF external type 1, E2 - OSPF external type 2, E - EGP

i - IS-IS, L1 - IS-IS level-1, L2 - IS-IS level-2, ia - IS-IS inter area

* - candidate default, U - per-user static route, o - ODR

P - periodic downloaded static route

Gateway of last resort is not set

8.0.0.0/24 is subnetted, 1 subnets

C 8.8.8.0 is directly connected, FastEthernet0/0

10.0.0.0/30 is subnetted, 1 subnets

C 10.200.10.0 is directly connected, Serial2/0

20.0.0/30 is subnetted, 1 subnets

C 20.100.20.0 is directly connected, Serial3/0

172.16.0.0/24 is subnetted, 2 subnets

0 172.16.10.0 [110/65] via 20.100.20.2, 00:58:08, Serial3/0

0 172.16.20.0 [110/65] via 20.100.20.2, 00:58:08, Serial3/0

0 201.28.10.0/24 [110/65] via 10.200.10.2, 00:58:08, Serial2/0

0 201.28.30.0/24 [110/65] via 10.200.10.2, 00:58:08, Serial2/0

0 201.28.40.0/24 [110/65] via 10.200.10.2, 00:58:08, Serial2/0

0 201.28.40.0/24 [110/65] via 10.200.10.2, 00:58:08, Serial2/0
```

5. Konfigurasi Router Kantor:

Konfigurasi:

Router Kantor:

Router(config-router)#router ospf 1

Router(config-router)#network 10.200.10.0 0.0.0.3 area 0

Router(config-router)#network 201.28.10.0 0.0.0.255 area 0

Router(config-router)#network 201.28.20.0 0.0.0.255 area 0

Router(config-router)#network 201.28.30.0 0.0.0.255 area 0

Router(config-router)#network 201.28.40.0 0.0.0.255 area 0

```
Router(config) #do show run | sec osp
router ospf 1
log-adjacency-changes
network 10.200.10.0 0.0.0.3 area 0
network 201.28.10.0 0.0.0.255 area 0
network 201.28.20.0 0.0.0.255 area 0
network 201.28.30.0 0.0.0.255 area 0
network 201.28.40.0 0.0.0.255 area 0
```

```
Router (dhcp-config) #do show ip route

Codes: C - connected, S - static, I - IGRP, R - RIP, M - mobile, B - BGP

D - EIGRP, EX - EIGRP external, O - OSPF, IA - OSPF inter area

N1 - OSPF NSSA external type 1, N2 - OSPF NSSA external type 2

E1 - OSPF external type 1, E2 - OSPF external type 2, E - EGP

i - IS-IS, L1 - IS-IS level-1, L2 - IS-IS level-2, ia - IS-IS inter area

* - candidate default, U - per-user static route, O - ODR

P - periodic downloaded static route

Gateway of last resort is not set

8.0.0.0/24 is subnetted, 1 subnets

0.10.0.0/30 is subnetted, 1 subnets

10.200.10.0 is directly connected, Serial2/0

20.0.0.0/30 is subnetted, 1 subnets

0.20.10.20.0 [110/128] via 10.200.10.1, 00:58:42, Serial2/0

172.16.0.0/24 is subnetted, 2 subnets

0.172.16.10.0 [110/129] via 10.200.10.1, 00:58:42, Serial2/0

172.16.20.0 [110/129] via 10.200.10.1, 00:58:42, Serial2/0

172.16.20.0 [110/129] via 10.200.10.1, 00:58:42, Serial2/0

201.28.10.0/24 is directly connected, FastEthernet0/0.10

C 201.28.20.0/24 is directly connected, FastEthernet0/0.20

C 201.28.30.0/24 is directly connected, FastEthernet0/0.30
```

6. Konfigurasi Router Sekolah

Konfigurasi:

Router Sekolah:

Router(config)#router ospf 1

Router(config-router)#network 172.16.10.0 0.0.0.255 area 0

Router(config-router)#network 172.16.20.0 0.0.0.255 area 0

Router(config-router)#network 20.100.20.0 0.0.0.3 area 0

```
Router#show run | sec osp
router ospf 1
log-adjacency-changes
network 172.16.10.0 0.0.0.255 area 0
network 172.16.20.0 0.0.0.255 area 0
network 20.100.20.0 0.0.0.3 area 0
```

7. Hasil Koneksi dengan tes PING:

Konfigurasi:

Router(config)#do ping 8.8.8.8

Type escape sequence to abort.

Sending 5, 100-byte ICMP Echos to 8.8.8.8, timeout is 2 seconds:

Success rate is 100 percent (5/5), round-trip min/avg/max = 0/0/1 ms

Router(config)#do ping 10.200.10.2

Type escape sequence to abort.

Sending 5, 100-byte ICMP Echos to 10.200.10.2, timeout is 2 seconds:

Success rate is 100 percent (5/5), round-trip min/avg/max = 23/46/62 ms

Router(config)#do ping 20.100.20.2

Type escape sequence to abort.

Sending 5, 100-byte ICMP Echos to 20.100.20.2, timeout is 2 seconds: !!!!!

Success rate is 100 percent (5/5), round-trip min/avg/max = 33/51/78 ms

Router(config)#do ping 172.16.10.2

Type escape sequence to abort.

Sending 5, 100-byte ICMP Echos to 172.16.10.2, timeout is 2 seconds: !!!!!

Success rate is 100 percent (5/5), round-trip min/avg/max = 20/28/44 ms

Router(config)#do ping 172.16.20.2

Type escape sequence to abort.

Sending 5, 100-byte ICMP Echos to 172.16.20.2, timeout is 2 seconds: !!!!!

Success rate is 100 percent (5/5), round-trip min/avg/max = 25/44/66 ms

Router(config)#do ping 201.28.10.2

Type escape sequence to abort.

Sending 5, 100-byte ICMP Echos to 201.28.10.2, timeout is 2 seconds: .!!!!

Success rate is 80 percent (4/5), round-trip min/avg/max = 1/18/33 ms

Router(config)#do ping 201.28.20.2

Type escape sequence to abort.

Sending 5, 100-byte ICMP Echos to 201.28.20.2, timeout is 2 seconds: .!!!!

Success rate is 80 percent (4/5), round-trip min/avg/max = 1/21/40 ms

Router(config)#do ping 201.28.30.2

Type escape sequence to abort.

Sending 5, 100-byte ICMP Echos to 201.28.30.2, timeout is 2 seconds: .!!!!

Success rate is 80 percent (4/5), round-trip min/avg/max = 3/16/22 ms

Router(config)#do ping 201.28.40.2

Type escape sequence to abort.

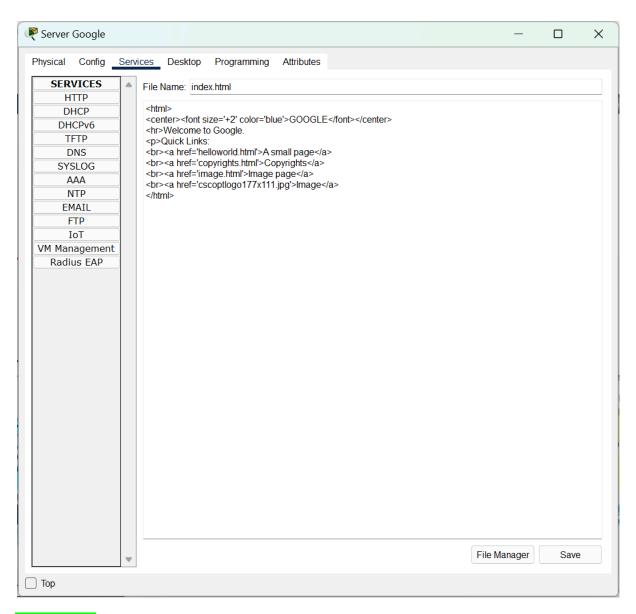
Sending 5, 100-byte ICMP Echos to 201.28.40.2, timeout is 2 seconds: .!!!!

Success rate is 80 percent (4/5), round-trip min/avg/max = 19/23/34 ms

```
Router(config)#do ping 8.8.8.8
Type escape sequence to abort.
Sending 5, 100-byte ICMP Echos to 8.8.8.8, timeout is 2 seconds:
Success rate is 100 percent (5/5), round-trip min/avg/max = 0/0/0 ms
Router(config) #do ping 10.200.10.2
Type escape sequence to abort. Sending 5, 100-byte ICMP Echos to 10.200.10.2, timeout is 2 seconds:
Success rate is 100 percent (5/5), round-trip min/avg/max = 29/32/38 ms
Router(config) #do ping 20.100.20.2
Type escape sequence to abort.
Sending 5, 100-byte ICMP Echos to 20.100.20.2, timeout is 2 seconds:
Success rate is 100 percent (5/5), round-trip min/avg/max = 22/33/52 ms
Router(config) #do ping 172.16.10.2
Type escape sequence to abort.
Sending 5, 100-byte ICMP Echos to 172.16.10.2, timeout is 2 seconds:
Success rate is 100 percent (5/5), round-trip min/avg/max = 9/28/41 ms
Router(config) #do ping 172.16.20.2
Type escape sequence to abort.
Sending 5, 100-byte ICMP Echos to 172.16.20.2, timeout is 2 seconds:
Success rate is 100 percent (5/5), round-trip min/avg/max = 15/30/44 ms
Router(config) #do ping 8.8.8.8
Type escape sequence to abort.
Sending 5, 100-byte ICMP Echos to 8.8.8.8, timeout is 2 seconds:
Success rate is 100 percent (5/5), round-trip min/avg/max = 0/0/0 ms
Router(config)#do ping 10.200.10.2
Type escape sequence to abort.
Sending 5, 100-byte ICMP Echos to 10.200.10.2, timeout is 2 seconds:
Success rate is 100 percent (5/5), round-trip min/avg/max = 29/32/38 ms
Router(config)#do ping 20.100.20.2
Type escape sequence to abort.
Sending 5, 100-byte ICMP Echos to 20.100.20.2, timeout is 2 seconds:
Success rate is 100 percent (5/5), round-trip min/avg/max = 22/33/52 ms
Router(config) #do ping 172.16.10.2
Type escape sequence to abort.
Sending 5, 100-byte ICMP Echos to 172.16.10.2, timeout is 2 seconds:
Success rate is 100 percent (5/5), round-trip min/avg/max = 9/28/41 ms
Router(config) #do ping 172.16.20.2
Type escape sequence to abort.
Sending 5, 100-byte ICMP Echos to 172.16.20.2, timeout is 2 seconds:
Success rate is 100 percent (5/5), round-trip min/avg/max = 15/30/44 ms
```

```
Router(config) #do ping 201.28.10.2
Type escape sequence to abort.
Sending 5, 100-byte ICMP Echos to 201.28.10.2, timeout is 2 seconds:
. 1 1 1 1
Success rate is 80 percent (4/5), round-trip min/avg/max = 1/18/33 ms
Router(config) #do ping 201.28.20.2
Type escape sequence to abort.
Sending 5, 100-byte ICMP Echos to 201.28.20.2, timeout is 2 seconds:
Success rate is 80 percent (4/5), round-trip min/avg/max = 1/21/40 ms
Router(config)#do ping 201.28.30.2
Type escape sequence to abort.
Sending 5, 100-byte ICMP Echos to 201.28.30.2, timeout is 2 seconds:
Success rate is 80 percent (4/5), round-trip min/avg/max = 3/16/22 ms
Router(config)#do ping 201.28.40.2
Type escape sequence to abort.
Sending 5, 100-byte ICMP Echos to 201.28.40.2, timeout is 2 seconds:
Success rate is 80 percent (4/5), round-trip min/avg/max = 19/23/34 ms
```

8. Tambahkan konfigurasi HTTP dan DNS pada Server Google. Untuk tampilan website adalah sebagai berikut: atau bisa sesuai kreatifitas masing-masing



Konfigurasi:





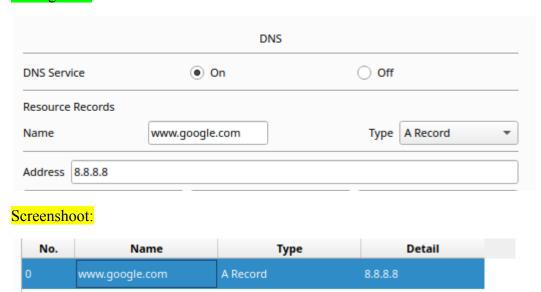
9. Tambahkan untuk DNS nya adalah sebagai berikut:

DNS : 8.8.8.8

Name: www.google.com

Type : A Record

Konfigurasi:



10. Hasil Cek Web dan DNS Google:

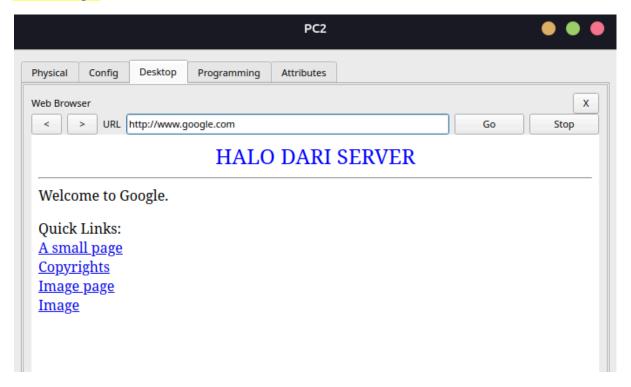
Pada browser, jaringan Kantor dapat mengakses google dengan memasukkan domain www.google.com

Konfigurasi:

```
Router(dhcp-config)#do show run | sec dhcp
ip dhcp pool HRD
network 201.28.10.0 255.255.255.0
default-router 201.28.10.1
dns-server 8.8.8.8
ip dhcp pool Manager
network 201.28.20.0 255.255.255.0
default-router 201.28.20.1
dns-server 8.8.8.8
ip dhcp pool Accounting
network 201.28.30.0 255.255.255.0
default-router 201.28.30.1
dns-server 8.8.8.8
ip dhcp pool Admin
network 201.28.40.0 255.255.255.0
default-router 201.28.40.1
dns-server 8.8.8.8
```

Screenshoot:

vlan Manager



vlan Admin:

