**DOKUMENTASI JARINGAN**

**PT.INTI BANDUNG**

Diajukan untuk memenuhi Tugas Besar Praktikum

Mata Kuliah Jaringan Komputer



Disusun Oleh :

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**PROGRAM STUDI PENDIDIKAN ILMU KOMPUTER**

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**UNIVERSITAS PENDIDIKAN INDONESIA**

**BANDUNG**

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# KATA PENGANTAR

Puji syukur kami panjatkan kehadirat Tuhan Yang Maha Esa, atas rahmat dan Karunia-Nya kami dapat membuat laporan Skema Jaringan PT. INTI untuk melengkapi Tugas Besar Praktikum Mata Kuliah Jaringan Komputer.

Tidak lupa kami ucapkan terima kasih kami kepada Asisten Dosen Mata Kuliah Jaringan Komputer yang sudah membimbing kami mengerjakan tugas ini dan juga kepada teman-teman yang sudah memberikan kontribusi baik langsung maupun tidak langsung dalam pembuatan laporan ini.

Kami berharap laporan ini dapat berguna untuk menambah pengetahuan dalam pembuatan simulasi skema jaringan komputer dan konfigurasi jaringan. Kami menyadari laporan ini jauh dari kata sempurna. Maka dari itu, kami memohon adanya kritik, saran dan usulan demi perbaikan laporan yang kami buat di masa yang akan datang, mengingat tidak ada sesuatu yang sempurna tanpa saran yang membangun.

Bandung, 16 Desember 2018

Penyusun

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# BAB I

# PENDAHULUAN

## **Latar Belakang**

Seiring perkembangan zaman teknlogi semakin berkembang pesat. Hampir semua aspek kehidupan tidak lepas dari teknologi, teknologi memberi dampak yang baik bagi keberlangsungan hidup ini dari berbagai aspek kehidupan. Teknologi memberikan kemudahan dalam setiap aktifitas manusia yaitu dengan memberikan jalan alternatif untuk setiap aktifitas sehari-hari yang awalnya rumit dan dikerjakan secara manual menjadi berbasis teknologi yang lebih efisien.

Demikian halnya dengan teknologi komunikasi yang merupakan peralatan perangkat keras dalam struktur organisasi yang mengandung nilai sosial yang memungkinkan individu untuk mengumpulkan, memproses dan saling tukar informasi. Teknologi komunikasi sangat penting untuk mengkomunikasikan misalnya suatu perusahaan yang memiliki banyak cabang, untuk mengkoneksikan kantor pusat dengan kantor cabang yang lainnya dibutuhkan adanya teknologi komunikasi untuk komunikasi kantor pusat dengan kantor cabang yang lainnya.

Jaringan komputer merupakan kumpulan dari komputer, perangkat komputer (baik software maupun hardware) serta perangkat lainnya yang saling terhubung satu sama lain. Dalam sebuah jaringan memungkinkan sebuah komputer dapat berinteraksi atau berkomunikasi dengan komputer lainnya, dan juga memungkinkan adanya interaksi antara komputer dengan perangkat yang ada di jaringan komputer tersebut. PT Industri telekomunikasi Indonesia (Persero) atau disingkat INTI adalah badan Usahas Milik Negara (BUMN) yang bergerak dibidang telekomunikasi yang selama lebih dari 3 dasawarsa beroera sebagai pemasok utama pembangunan jaringan elepon nasional yang diselenggarakan oleh PT Telkom Indonesia Tbk dan PT Indosat Tbk. PT INTI memiliki dua Gedung yaitu Gedung Utama dan Gedung pusat teknologi. Jaringan computer sangat penting dan wajib ada untuk komunikasi anatar Gedung di PT INTI . maka dari itu kami membuat skema jaringan di PT INTI untuk komunikasi antar gedung.

## **Rumusan Masalah**

1. Bagaimana pembangunan skema jaringan di PT INTI Bandung?
2. Bagaimana konfigurasi dan pengaturan dari perangkat-perangkat jaringan yang ada di PT INTI Bandung?

## **Tujuan Penulisan**

1. Untuk mengetahui skema jaringan pada PT INTI Bandung.
2. Untuk mengetahui konfigurasi pada perangkat jaringan yang ada di PT INTI Bandung.

# BAB II

# ANALISIS KEBUTUHAN

## **Latar Belakang**

Peralatan yang dibutuhkan dalam perancangan jaringan PT INTI Bandung yaitu :

1. *PC/Laptop*

PC dan laptop digunakan oleh pihak PT.INTI dan terletak di dalam ruangan dan terhubung dengan jaringan LAN. PC terhubung ke jaringan statis, sedangkan Laptop terhubung ke jaringan Wireless.

1. *Router*

Pada pembangunan jaringan ini, perlu diketahui terlebih dahulu bahwa terdapat dua gedung di PT.INTI ini, Gedung Utama dan Gedung Pusat Teknologi (GPT). Gedung Utama memiliki dua bagian gedung, yaitu bagian utara dan selatan, dan memiliki 10 tingkat. Tiap tingkat memiliki 1 router lantai yang mengontrol aktivitas gedung bagian utara dan selatan. Jadi, di Gedung Utama terdapat 10 Router-PT. Untuk Gedung Pusat Teknologi, memiliki 6 tingkat dengan tiap lantai masing-masing memiliki 1 router lantai, sehingga Gedung Pusat Teknologi memiliki 6 Router-PT. Jadi jumlah router yang terdapat pada PT INTI Bandung ada 16 Router-PT.

1. *Switch*

Di Gedung Utama terdapat 2 switch bertipe Switch-PT tiap lantai yang berfungsi meneruskan data ke Router lantai, 1 switch untuk bagian utara, sedangkan 1 switch lainnya untuk bagian selatan, sehingga terdapat 20 Switch di Gedung Utama. Untuk Gedung Pusat Teknologi, terdapat 1 switch tipe Switch-PT untuk tiap lantainya, sehingga terdapat 6 switch di Gedung Pusat Teknologi yang berfungsi meneruskan data ke Router lantai.

1. *Access Point*

Access point di desain untuk jaringan wireless. Pada gedung utama terdapat 2 access point bertipe *Generic Access Point* (AccessPoint-PT) untuk tiap tingkatnya, dimana 1 access point digunakan untuk gedung bagian selatan, sisanya untuk gedung bagian utara, sehingga ada 20 *Access Point* di gedung utama. Pada gedung pusat teknologi, terdapat 1 access point bertipe *Generic Access Point* (AccessPoint-PT) untuk tiap tingkatnya, sehingga terdapat 6 access point di GPT.

1. *Kabel*

Ada beberapa jenis kabel yang digunakan dalam desain jaringan ini yaitu kabel fiber, dan UTP. Kabel fiber digunakan untuk menghubungkan antar gedung. Sedangkan kabel UTP digunakan sebagai penghubung device yang berbeda seperti antar Switch-PC, Switch- Access Point.

1. *Cloud*

Terdapat 3 Cloud bertipe *Generic Cloud* (Cloud-PT) yang digunakan sebagai penyedia Internet yaitu dari Biznet, Indosat dan Jalawave.

1. *Server*

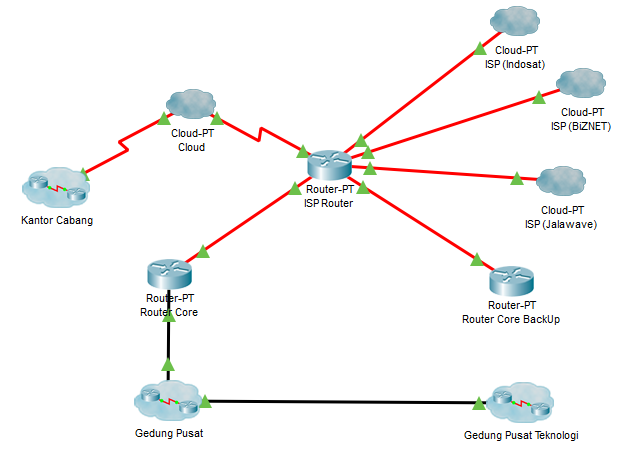
Terdapat satu buah server bertipe *Generic Server* (Server-PT) yang ditempatkan di Gedung Utama di tingkat 2 sebagai penyedia layanan DNS dan Web Server.

# BAB III

# DESAIN JARINGAN

## **3.1 Jaringan Utama**

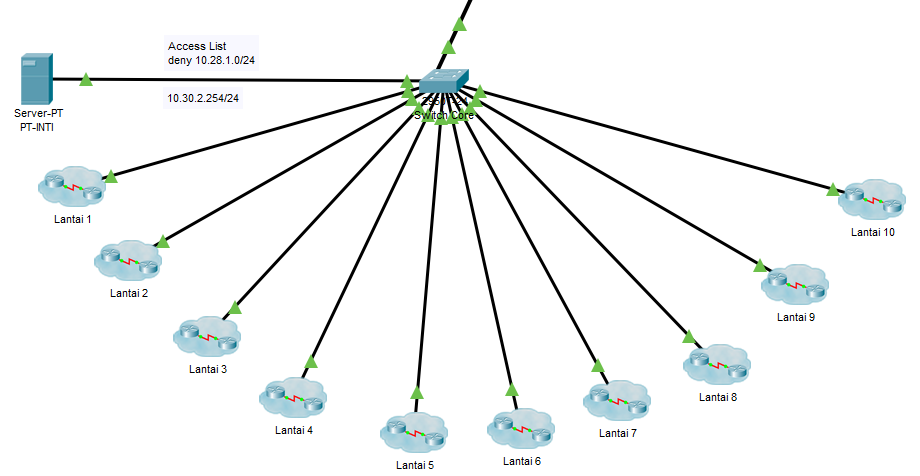
Dalam jaringan ini tedapat satu jaringan utama pada PT.INTI Bandung, berikut penggambarannya:



**Gambar 3.1.1** Skema Jaringan Utama

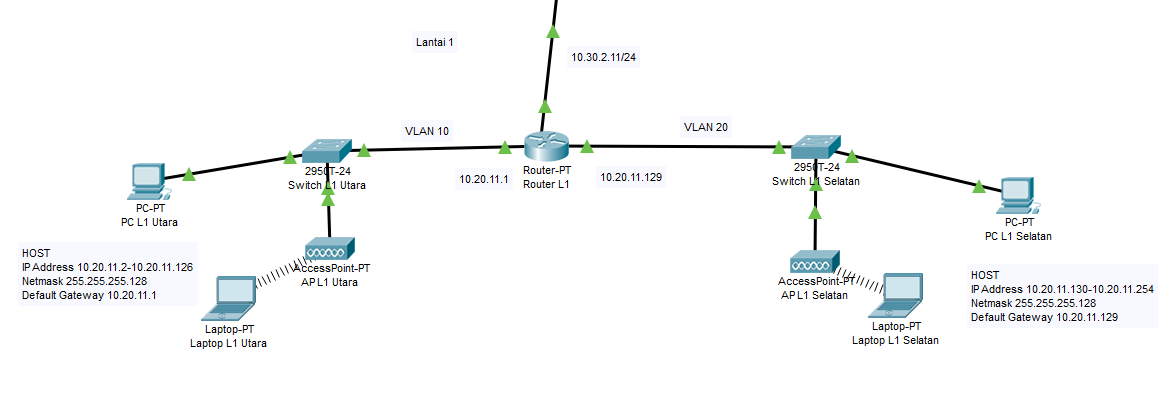
Skema jaringan didesain sesuai hasil observasi jaringan, namun pada skema jaringan gedung utama. Berikut adalah skema jaringan yang digunakan dari setiap gedung:

1. ***Gedung Pusat***

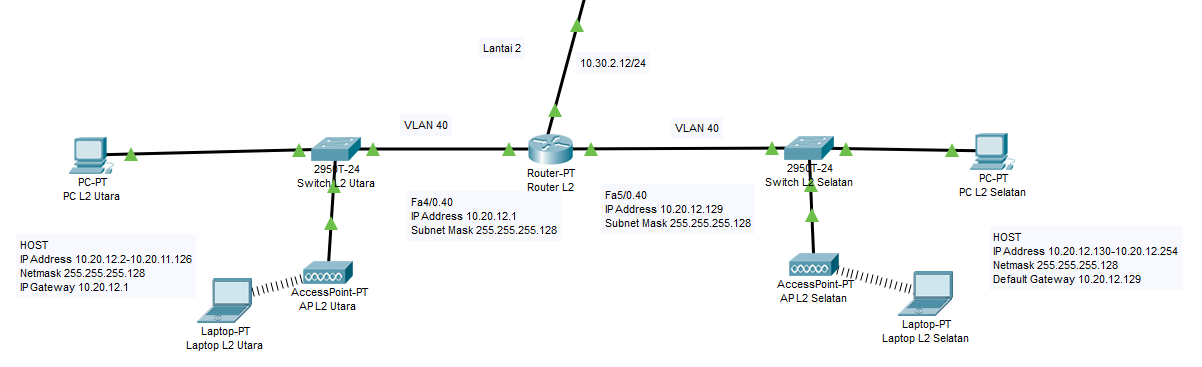


**Gambar 3.1.1.1** *Skema Jaringan Gedung Utama*

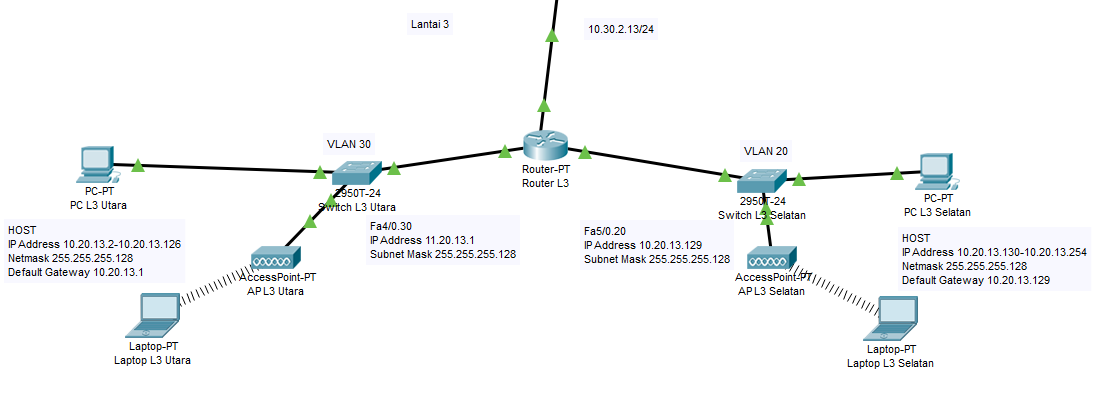
Untuk skema jaringan per lantai, kami menggunakan 2 PC yang mewakili jumlah PC yang digunakan di masing-masing bagian gedung yang terdapat pada tiap lantai Gedung Utama (1 PC untuk bagian utara, 1 PC untuk bagian selatan). Berikut adalah konfigurasi jaringan dari setiap lantai:



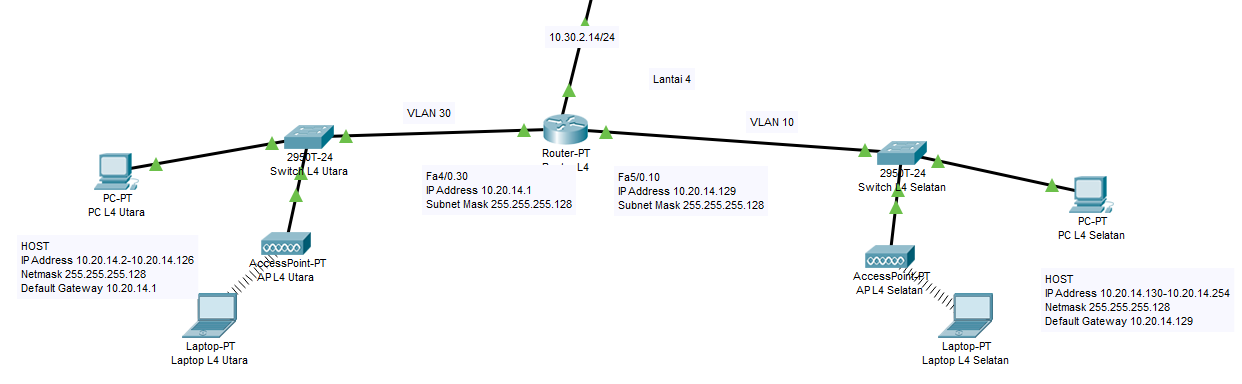
**Gambar 3.1.1.2** *Skema Jaringan Lantai 1 Gedung Utama*



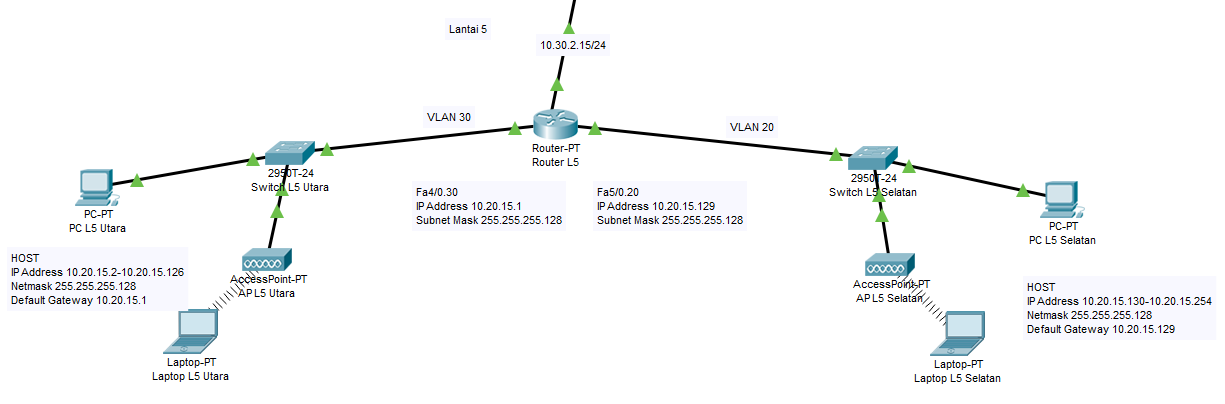
**Gambar 3.1.1.3** *Skema Jaringan Lantai 2 Gedung Utama*



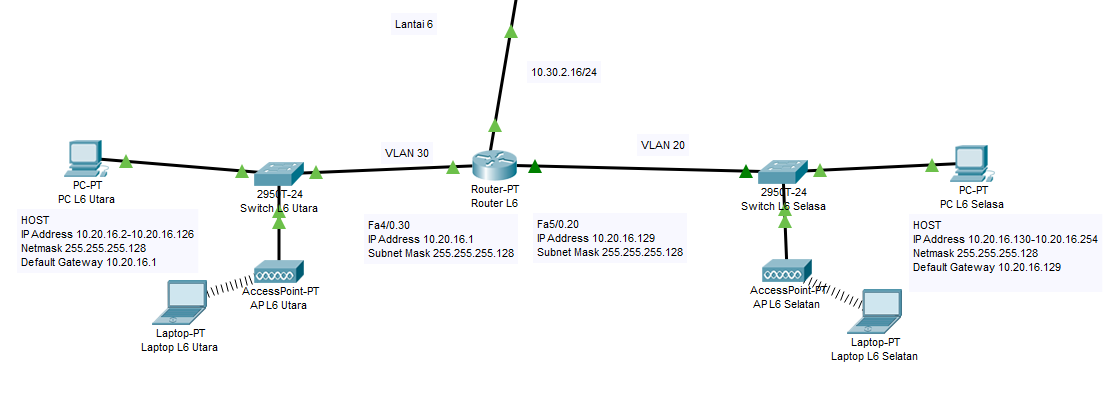
**Gambar 3.1.1.4** *Skema Jaringan Lantai 3 Gedung Utama*



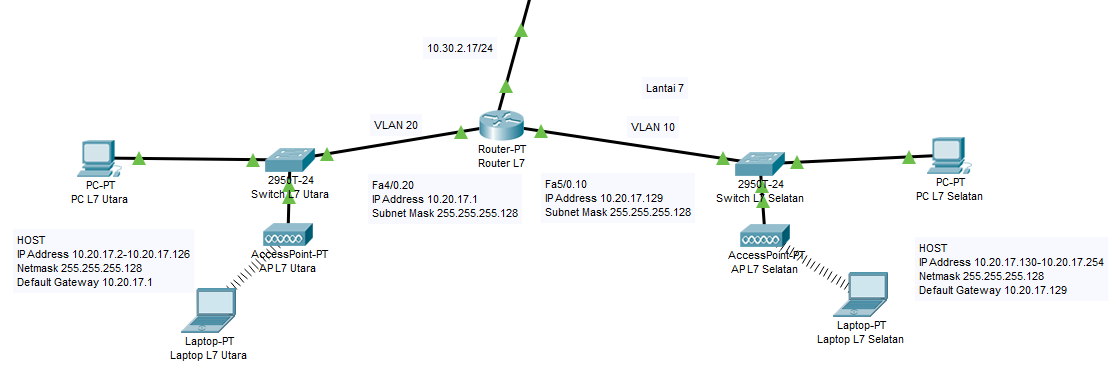
**Gambar 3.1.1.5** *Skema Jaringan Lantai 4 Gedung Utama*



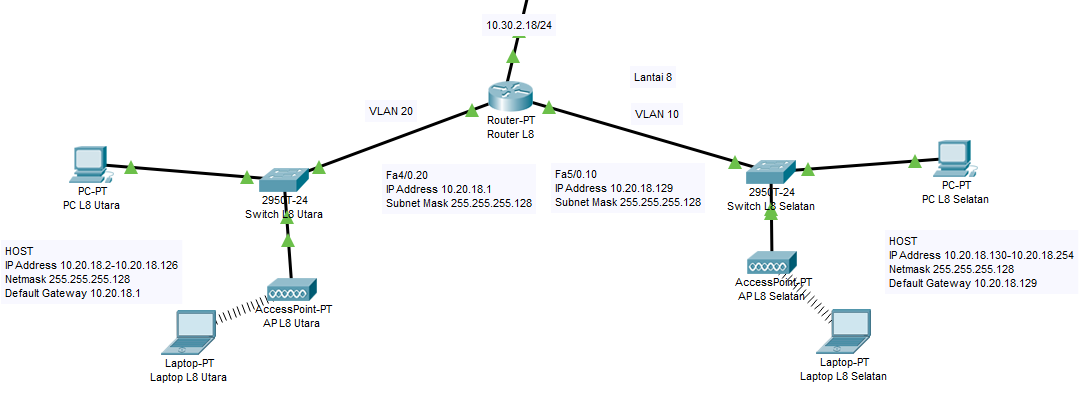
**Gambar 3.1.1.6** *Skema Jaringan Lantai 5 Gedung Utama*



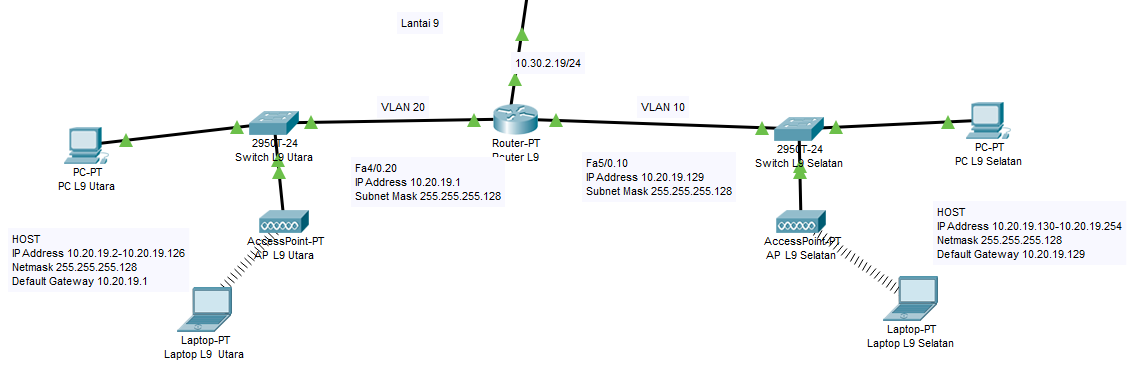
**Gambar 3.1.1.7** *Skema Jaringan Lantai 6 Gedung Utama*



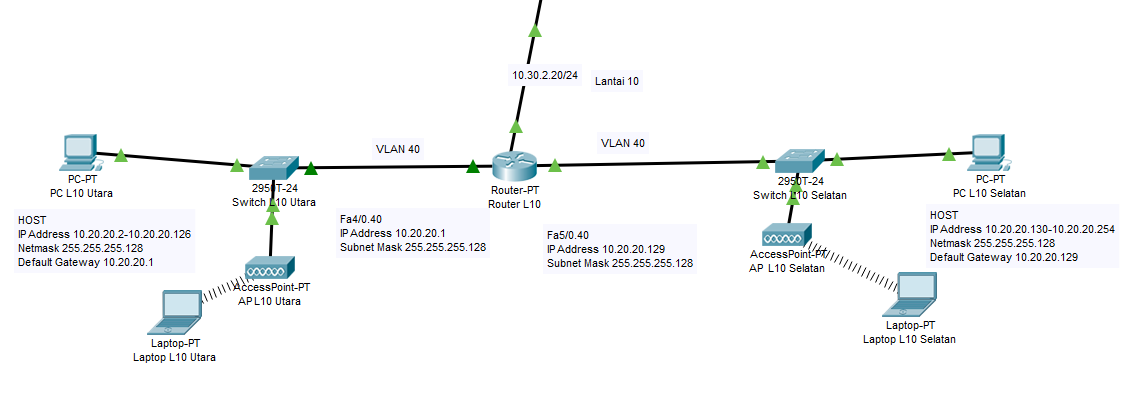
**Gambar 3.1.1.8** *Skema Jaringan Lantai 7 Gedung Utama*



**Gambar 3.1.1.9** *Skema Jaringan Lantai 8 Gedung Utama*

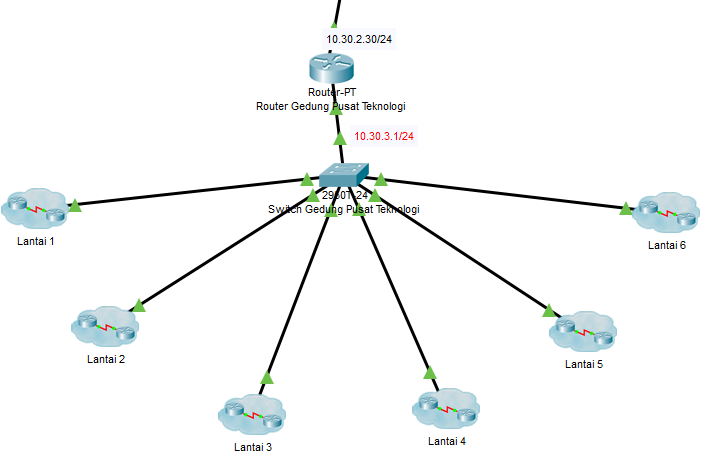


**Gambar 3.1.1.10** *Skema Jaringan Lantai 9 Gedung Utama*



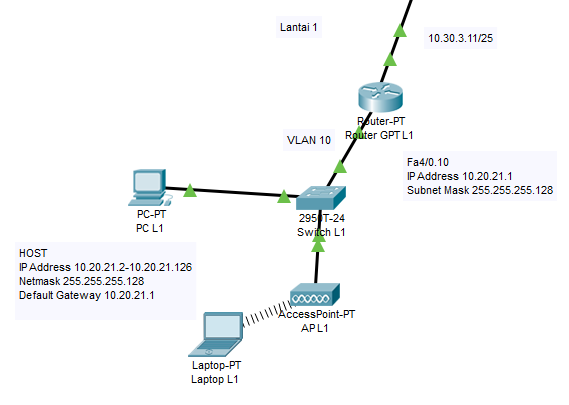
**Gambar 3.1.1.11** *Skema Jaringan Lantai 10 Gedung Utama*

1. ***Gedung Pusat Teknologi***

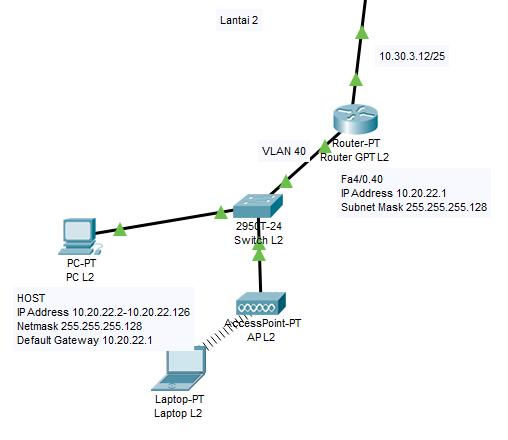


**Gambar 3.1.2.1** *Skema Jaringan Gedung Pusat Teknologi*

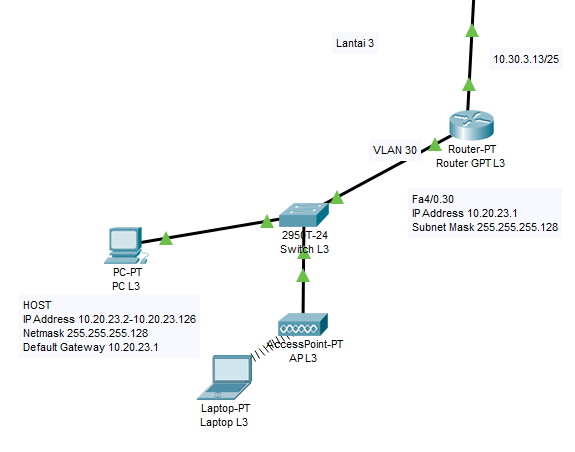
Untuk skema jaringan per lantai, kami menggunakan 1 PC yang mewakili jumlah PC yang digunakan di masing-masing lantai Gedung Pusat Teknologi. Berikut adalah konfigurasi jaringan dari setiap lantai:



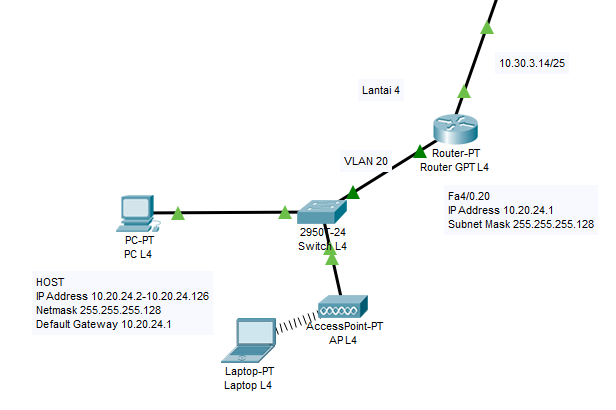
**Gambar 3.1.1.2** *Skema Jaringan Lantai 1 Gedung Pusat Teknologi*



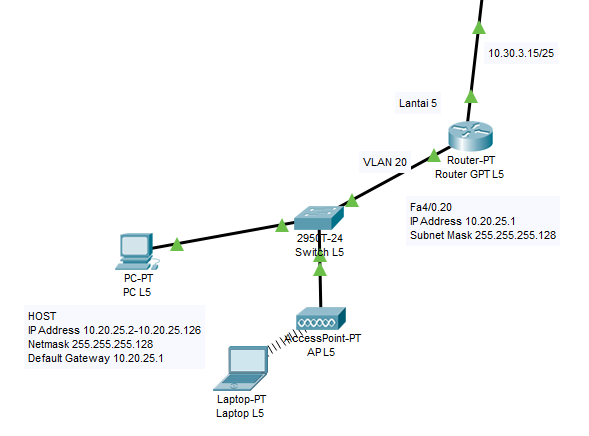
**Gambar 3.1.1.3** *Skema Jaringan Lantai 2 Gedung Pusat Teknologi*



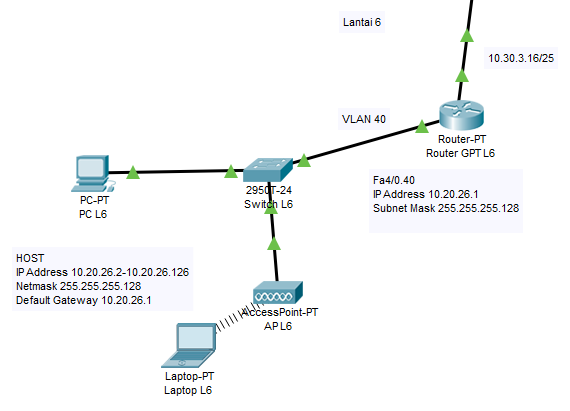
**Gambar 3.1.1.4** *Skema Jaringan Lantai 3 Gedung Pusat Teknologi*



**Gambar 3.1.1.5** *Skema Jaringan Lantai 4 Gedung Pusat Teknologi*



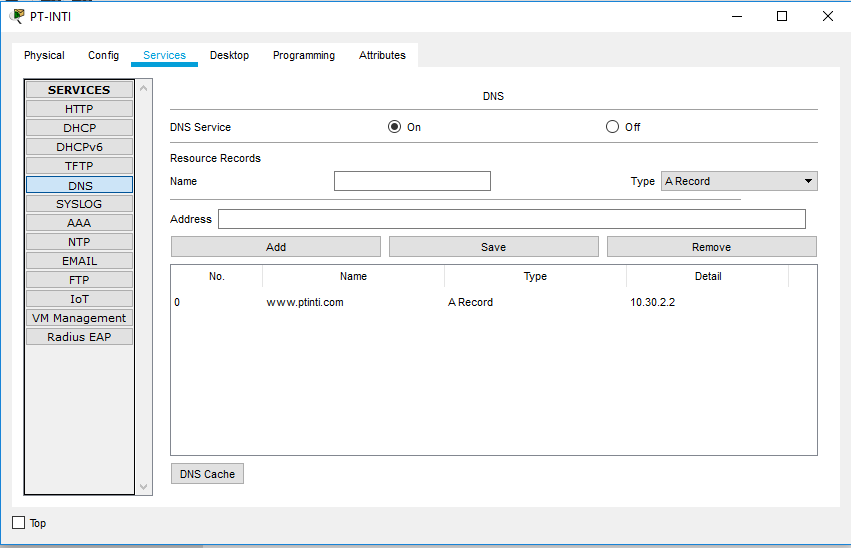
**Gambar 3.1.1.6** *Skema Jaringan Lantai 5 Gedung Pusat Teknologi*



**Gambar 3.1.1.7** *Skema Jaringan Lantai 6 Gedung Pusat Teknologi*

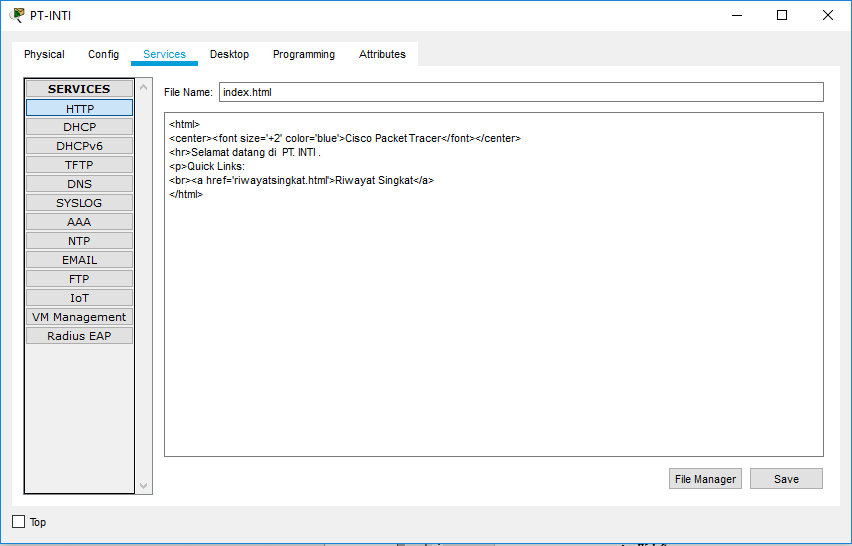
## **Layanan Server**

* 1. ***DNS Server***



**Gambar 3.2.1.1** *Konfigurasi DNS Server*

* 1. ***Web Server***



**Gambar 3.2.2.1** *Konfigurasi Web Server*

# BAB IV

# DOKUMENTASI

## **Pemberian IP Pada Masing-masing Interface Router**

**Router Core**

Enable

Configurasi terminal

Interface fa4/0

Ip address 10.30.1.1 255.255.255.0

No shutdown

Interface fa1/0

Ip address 10.30.2.1 255.255.255.0

No shutdown

**ISP Router**

Enable

Configurasi terminal

Interface fa3/0

Ip address 10.29.1.1 255.255.255.0

No shutdown

Interface fa4/0

Ip address 10.29.2.1 255.255.255.0

No shutdown

Interface fa5/0

Ip address 10.29.3.1 255.255.255.0

No shutdown

Interface se6/0

Ip address 10.29.5.1 255.255.255.0

No shutdown

Interface fa7/0

Ip address 10.30.1.2 255.255.255.0

No shutdown

Interface fa8/0

Ip address 10.30.2.1 255.255.255.0

No shutdown

**Router Core Backup**

Enable

Configurasi terminal

Interface fa4/0

Ip address 10.31.1.1 255.255.255.0

No shutdown

Interface fa1/0

Ip address 10.31.2.1 255.255.255.0

No shutdown

**Router L2 Gedung Utama**

Enable

Configurasi terminal

Interface fa0/0

Ip address 10.30.2.12 255.255.255.128

No shutdown

Interface fa4/0

Ip address 10.20.12.1 255.255.255.128

No shutdown

Interface fa5/0

Ip address 10.20.12.129 255.255.255.128

No shutdown

**Router L1 Gedung Utama**

Enable

Configurasi terminal

Interface fa0/0

Ip address 10.30.2.11 255.255.255.128

No shutdown

Interface fa4/0

Ip address 10.20.11.1 255.255.255.128

No shutdown

Interface fa5/0

Ip address 10.20.11.129 255.255.255.128

No shutdown

**Router L4 Gedung Utama**

Enable

Configurasi terminal

Interface fa0/0

Ip address 10.30.2.14 255.255.255.128

No shutdown

Interface fa4/0

Ip address 10.20.14.1 255.255.255.128

No shutdown

Interface fa5/0

Ip address 10.20.14.129 255.255.255.128

No shutdown

**Router L3 Gedung Utama**

Enable

Configurasi terminal

Interface fa0/0

Ip address 10.30.2.13 255.255.255.128

No shutdown

Interface fa4/0

Ip address 10.20.13.1 255.255.255.128

No shutdown

Interface fa5/0

Ip address 10.20.13.129 255.255.255.128

No shutdown

**Router L6 Gedung Utama**

Enable

Configurasi terminal

Interface fa0/0

Ip address 10.30.2.16 255.255.255.128

No shutdown

Interface fa4/0

Ip address 10.20.16.1 255.255.255.128

No shutdown

Interface fa5/0

Ip address 10.20.16.129 255.255.255.128

No shutdown

**Router L5 Gedung Utama**

Enable

Configurasi terminal

Interface fa0/0

Ip address 10.30.2.15 255.255.255.128

No shutdown

Interface fa4/0

Ip address 10.20.15.1 255.255.255.128

No shutdown

Interface fa5/0

Ip address 10.20.15.129 255.255.255.128

No shutdown

**Router L8 Gedung Utama**

Enable

Configurasi terminal

Interface fa0/0

Ip address 10.30.2.18 255.255.255.128

No shutdown

Interface fa4/0

Ip address 10.20.18.1 255.255.255.128

No shutdown

Interface fa5/0

Ip address 10.20.18.129 255.255.255.128

No shutdown

**Router L7 Gedung Utama**

Enable

Configurasi terminal

Interface fa0/0

Ip address 10.30.2.17 255.255.255.128

No shutdown

Interface fa4/0

Ip address 10.20.17.1 255.255.255.128

No shutdown

Interface fa5/0

Ip address 10.20.17.129 255.255.255.128

No shutdown

**Router L10 Gedung Utama**

Enable

Configurasi terminal

Interface fa0/0

Ip address 10.30.2.120 255.255.255.128

No shutdown

Interface fa4/0

Ip address 10.20.20.1 255.255.255.128

No shutdown

Interface fa5/0

Ip address 10.20.20.129 255.255.255.128

No shutdown

**Router L9 Gedung Utama**

Enable

Configurasi terminal

Interface fa0/0

Ip address 10.30.2.19 255.255.255.128

No shutdown

Interface fa4/0

Ip address 10.20.19.1 255.255.255.128

No shutdown

Interface fa5/0

Ip address 10.20.19.129 255.255.255.128

No shutdown

**Router Gedung Pusat Teknologi**

Enable

Configurasi terminal

Interface fa0/0

Ip address 10.30.2.31 255.255.255.128

No shutdown

Interface fa1/0

Ip address 10.20.15.130 255.255.255.128

No shutdown

**Router L1 Gedung Pusat Teknologi**

Enable

Configurasi terminal

Interface fa0/0

Ip address 10.30.2.131 255.255.255.128

No shutdown

Interface fa4/0

Ip address 10.20.21.1 255.255.255.128

No shutdown

**Router L3 Gedung Pusat Teknologi**

Enable

Configurasi terminal

Interface fa0/0

Ip address 10.30.2.133 255.255.255.128

No shutdown

Interface fa4/0

Ip address 10.20.23.1 255.255.255.128

No shutdown

**Router L2 Gedung Pusat Teknologi**

Enable

Configurasi terminal

Interface fa0/0

Ip address 10.30.2.132 255.255.255.128

No shutdown

Interface fa4/0

Ip address 10.20.22.1 255.255.255.128

No shutdown

**Router L5 Gedung Pusat Teknologi**

Enable

Configurasi terminal

Interface fa0/0

Ip address 10.30.2.135 255.255.255.128

No shutdown

Interface fa4/0

Ip address 10.20.25.1 255.255.255.128

No shutdown

**Router L4 Gedung Pusat Teknologi**

Enable

Configurasi terminal

Interface fa0/0

Ip address 10.30.2.134 255.255.255.128

No shutdown

Interface fa4/0

Ip address 10.20.24.1 255.255.255.128

No shutdown

**Router KC**

Enable

Configurasi terminal

Interface se2/0

Ip address 10.29.5.2 255.255.255.0

No shutdown

Interface fa0/0

Ip address 10.28.1.1 255.255.255.0

No shutdown

**Router L6 Gedung Pusat Teknologi**

Enable

Configurasi terminal

Interface fa0/0

Ip address 10.30.2.136 255.255.255.128

No shutdown

Interface fa4/0

Ip address 10.20.26.1 255.255.255.128

No shutdown

## **Konfigurasi VLAN**

**VLAN 20**

enable

configure terminal

vlan 20

name biznet

interface range fa0/1-23

switchport mode access

switchport access vlan 20

interface fa0/24

switchport mode trunk

switchport trunk allowed vlan all

end

**VLAN 10**

enable

configure terminal

vlan 10

name indosat

interface range fa0/1-23

switchport mode access

switchport access vlan 10

interface fa0/24

switchport mode trunk

switchport trunk allowed vlan all

end

**VLAN 30**

enable

configure terminal

vlan 30

name jalawave

interface range fa0/1-23

switchport mode access

switchport access vlan 30

interface fa0/24

switchport mode trunk

switchport trunk allowed vlan all

end

**VLAN 40**

enable

configure terminal

vlan 40

name local

interface range fa0/1-23

switchport mode access

switchport access vlan 40

interface fa0/24

switchport mode trunk

switchport trunk allowed vlan all

end

## **Konfigurasi DOT1Q dan DHCP**

**Router Lantai 2 Gedung Pusat**

enable

configure terminal

interface fa4/0.40

encapsulation dot1Q 40

ip address 10.20.12.1 255.255.255.128

ip dhcp pool dhcp\_lantai2\_utara

network 10.20.12.0 255.255.255.128

default 10.20.12.1

ip dhcp exclude 10.20.12.1 10.20.12.2

interface fa5/0.40

encapsulation dot1Q 40

ip address 10.20.12.129 255.255.255.128

ip dhcp pool dhcp\_lantai2\_selatan

network 10.20.12.128 255.255.255.128

default 10.20.12.129

ip dhcp exclude 10.20.12.129 10.20.12.130

ex

**Router Lantai 1 Gedung Pusat**

enable

configure terminal

interface fa4/0.10

encapsulation dot1Q 10

ip address 10.20.11.1 255.255.255.128

ip dhcp pool dhcp\_lantai1\_utara

network 10.20.11.0 255.255.255.128

default 10.20.11.1

ip dhcp exclude 10.20.11.1 10.20.11.2

interface fa5/0.20

encapsulation dot1Q 20

ip address 10.20.11.129 255.255.255.128

ip dhcp pool dhcp\_lantai1\_selatan

network 10.20.11.128 255.255.255.128

default 10.20.11.129

ip dhcp exclude 10.20.11.129 10.20.11.130

ex

**Router Lantai 4 Gedung Pusat**

enable

configure terminal

interface fa4/0.30

encapsulation dot1Q 30

ip address 10.20.14.1 255.255.255.128

ip dhcp pool dhcp\_lantai4\_utara

network 10.20.14.0 255.255.255.128

default 10.20.14.1

ip dhcp exclude 10.20.14.1 10.20.14.2

interface fa5/0.10

encapsulation dot1Q 10

ip address 10.20.14.129 255.255.255.128

ip dhcp pool dhcp\_lantai4\_selatan

network 10.20.14.128 255.255.255.128

default 10.20.14.129

ip dhcp exclude 10.20.14.129 10.20.14.130

ex

**Router Lantai 3 Gedung Pusat**

enable

configure terminal

interface fa4/0.30

encapsulation dot1Q 30

ip address 10.20.13.1 255.255.255.128

ip dhcp pool dhcp\_lantai3\_utara

network 10.20.13.0 255.255.255.128

default 10.20.13.1

ip dhcp exclude 10.20.13.1 10.20.13.2

interface fa5/0.20

encapsulation dot1Q 20

ip address 10.20.13.130 255.255.255.128

ip dhcp pool dhcp\_lantai3\_selatan

network 10.20.13.128 255.255.255.128

default 10.20.13.129

ip dhcp exclude 10.20.13.129 10.20.13.130

ex

**Router Lantai 6 Gedung Pusat**

enable

configure terminal

interface fa4/0.30

encapsulation dot1Q 30

ip address 10.20.16.1 255.255.255.128

ip dhcp pool dhcp\_lantai6\_utara

network 10.20.16.0 255.255.255.128

default 10.20.16.1

ip dhcp exclude 10.20.16.1 10.20.16.2

interface fa5/0.20

encapsulation dot1Q 20

ip address 10.20.16.129 255.255.255.128

ip dhcp pool dhcp\_lantai6\_selatan

network 10.20.16.128 255.255.255.128

default 10.20.16.129

ip dhcp exclude 10.20.16.129 10.20.16.130

ex

**Router Lantai 5 Gedung Pusat**

enable

configure terminal

interface fa4/0.30

encapsulation dot1Q 30

ip address 10.20.15.1 255.255.255.128

ip dhcp pool dhcp\_lantai5\_utara

network 10.20.15.0 255.255.255.128

default 10.20.15.1

ip dhcp exclude 10.20.15.1 10.20.15.2

interface fa5/0.20

encapsulation dot1Q 20

ip address 10.20.15.129 255.255.255.128

ip dhcp pool dhcp\_lantai5\_selatan

network 10.20.15.128 255.255.255.128

default 10.20.15.129

ip dhcp exclude 10.20.15.129 10.20.15.130

ex

**Router Lantai 7 Gedung Pusat**

enable

configure terminal

interface fa4/0.20

encapsulation dot1Q 20

ip address 10.20.17.1 255.255.255.128

ip dhcp pool dhcp\_lantai7\_utara

network 10.20.17.0 255.255.255.128

default 10.20.17.1

ip dhcp exclude 10.20.17.1 10.20.17.2

interface fa5/0.10

encapsulation dot1Q 10

ip address 10.20.17.129 255.255.255.128

ip dhcp pool dhcp\_lantai7\_selatan

network 10.20.17.128 255.255.255.128

default 10.20.17.129

ip dhcp exclude 10.20.17.129 10.20.17.130

ex

**Router Lantai 8 Gedung Pusat**

enable

configure terminal

interface fa4/0.20

encapsulation dot1Q 20

ip address 10.20.18.1 255.255.255.128

ip dhcp pool dhcp\_lantai8\_utara

network 10.20.18.0 255.255.255.128

default 10.20.18.1

ip dhcp exclude 10.20.18.1 10.20.18.2

interface fa5/0.10

encapsulation dot1Q 10

ip address 10.20.18.129 255.255.255.128

ip dhcp pool dhcp\_lantai8\_selatan

network 10.20.18.128 255.255.255.128

default 10.20.18.129

ip dhcp exclude 10.20.18.129 10.20.18.130

ex

**Router Lantai 10 Gedung Pusat**

enable

configure terminal

interface fa4/0.40

encapsulation dot1Q 40

ip address 10.20.20.1 255.255.255.128

ip dhcp pool dhcp\_lantai10\_utara

network 10.20.20.0 255.255.255.128

default 10.20.20.1

ip dhcp exclude 10.20.20.1 10.20.20.2

interface fa5/0.40

encapsulation dot1Q 40

ip address 10.20.20.129 255.255.255.128

ip dhcp pool dhcp\_lantai10\_selatan

network 10.20.20.128 255.255.255.128

default 10.20.20.129

ip dhcp exclude 10.20.20.129 10.20.20.130

ex

**Router Lantai 9 Gedung Pusat**

enable

configure terminal

interface fa4/0.20

encapsulation dot1Q 20

ip address 10.20.19.1 255.255.255.128

ip dhcp pool dhcp\_lantai9\_utara

network 10.20.19.0 255.255.255.128

default 10.20.19.1

ip dhcp exclude 10.20.19.1 10.20.19.2

interface fa5/0.10

encapsulation dot1Q 10

ip address 10.20.19.129 255.255.255.128

ip dhcp pool dhcp\_lantai9\_selatan

network 10.20.19.128 255.255.255.128

default 10.20.19.129

ip dhcp exclude 10.20.19.129 10.20.19.130

ex

**Router Lantai 1 Gedung Pusat Teknologi**

enable

configure terminal

interface fa4/0.10

encapsulation dot1Q 10

ip address 10.20.21.1 255.255.255.128

ip dhcp pool dhcp\_lantai1

network 10.20.21.0 255.255.255.128

default 10.20.21.1

ip dhcp exclude 10.20.21.1 10.20.21.2

ex

**Router Lantai 2 Gedung Pusat Teknologi**

enable

configure terminal

interface fa4/0.40

encapsulation dot1Q 40

ip address 10.20.22.1 255.255.255.128

ip dhcp pool dhcp\_lantai2

network 10.20.22.0 255.255.255.128

default 10.20.22.1

ip dhcp exclude 10.20.22.1 10.20.22.2

ex

**Router Lantai 3 Gedung Pusat Teknologi**

enable

configure terminal

interface fa4/0.30

encapsulation dot1Q 30

ip address 10.20.23.1 255.255.255.128

ip dhcp pool dhcp\_lantai3

network 10.20.23.0 255.255.255.128

default 10.20.23.1

ip dhcp exclude 10.20.23.1 10.20.23.2

ex

**Router Lantai 4 Gedung Pusat Teknologi**

enable

configure terminal

interface fa4/0.20

encapsulation dot1Q 20

ip address 10.20.24.1 255.255.255.128

ip dhcp pool dhcp\_lantai4

network 10.20.24.0 255.255.255.128

default 10.20.24.1

ip dhcp exclude 10.20.24.1 10.20.24.2

ex

**Router Lantai 6 Gedung Pusat Teknologi**

enable

configure terminal

interface fa4/0.40

encapsulation dot1Q 40

ip address 10.20.26.1 255.255.255.128

ip dhcp pool dhcp\_lantai6

network 10.20.26.0 255.255.255.128

default 10.20.26.1

ip dhcp exclude 10.20.26.1 10.20.26.2

ex

**Router Lantai 5 Gedung Pusat Teknologi**

enable

configure terminal

interface fa4/0.20

encapsulation dot1Q 20

ip address 10.20.25.1 255.255.255.128

ip dhcp pool dhcp\_lantai5

network 10.20.25.0 255.255.255.128

default 10.20.25.1

ip dhcp exclude 10.20.25.1 10.20.25.2

ex

## **Konfigurasi Routing Static**

**Router L2 Gedung Utama**

Enable

Configurasi terminal

ip route 10.20.11.0 255.255.255.128 10.30.2.11

ip route 10.20.13.0 255.255.255.128 10.30.2.13

ip route 10.20.14.0 255.255.255.128 10.30.2.14

ip route 10.20.15.0 255.255.255.128 10.30.2.15

ip route 10.20.16.0 255.255.255.128 10.30.2.16

ip route 10.20.17.0 255.255.255.128 10.30.2.17

ip route 10.20.18.0 255.255.255.128 10.30.2.18

ip route 10.20.19.0 255.255.255.128 10.30.2.19

ip route 10.20.20.0 255.255.255.128 10.30.2.20

ip route 10.20.11.128 255.255.255.128 10.30.2.11

ip route 10.20.13.128 255.255.255.128 10.30.2.13

ip route 10.20.14.128 255.255.255.128 10.30.2.14

ip route 10.20.15.128 255.255.255.128 10.30.2.15

ip route 10.20.16.128 255.255.255.128 10.30.2.16

ip route 10.20.17.128 255.255.255.128 10.30.2.17

ip route 10.20.18.128 255.255.255.128 10.30.2.18

ip route 10.20.19.128 255.255.255.128 10.30.2.19

ip route 10.20.20.128 255.255.255.128 10.30.2.20

ip route 10.30.1.0 255.255.255.0 10.30.2.1

ip route 10.29.1.0 255.255.255.0 10.30.2.1

ip route 10.29.2.0 255.255.255.0 10.30.2.1

ip route 10.29.3.0 255.255.255.0 10.30.2.1

ip route 10.29.4.0 255.255.255.0 10.30.2.1

ip route 10.30.1.0 255.255.255.0 10.31.2.1

ip route 10.29.1.0 255.255.255.0 10.31.2.1

ip route 10.29.2.0 255.255.255.0 10.31.2.1

ip route 10.29.3.0 255.255.255.0 10.31.2.1

ip route 10.29.4.0 255.255.255.0 10.31.2.1

ip route 10.30.3.0 255.255.255.0 10.30.2.30

ip route 10.20.21.0 255.255.255.128 10.30.2.30

ip route 10.20.22.0 255.255.255.128 10.30.2.30

ip route 10.20.23.0 255.255.255.128 10.30.2.30

ip route 10.20.24.0 255.255.255.128 10.30.2.30

ip route 10.20.25.0 255.255.255.128 10.30.2.30

ip route 10.20.26.0 255.255.255.128 10.30.2.30

ip route 10.29.5.0 255.255.255.0 10.30.2.1

ip route 10.28.1.0 255.255.255.0 10.30.2.1

**Router L1 Gedung Utama**

Enable

Configurasi terminal

ip route 10.20.12.0 255.255.255.128 10.30.2.12

ip route 10.20.13.0 255.255.255.128 10.30.2.13

ip route 10.20.14.0 255.255.255.128 10.30.2.14

ip route 10.20.15.0 255.255.255.128 10.30.2.15

ip route 10.20.16.0 255.255.255.128 10.30.2.16

ip route 10.20.17.0 255.255.255.128 10.30.2.17

ip route 10.20.18.0 255.255.255.128 10.30.2.18

ip route 10.20.19.0 255.255.255.128 10.30.2.19

ip route 10.20.20.0 255.255.255.128 10.30.2.20

ip route 10.20.12.128 255.255.255.128 10.30.2.12

ip route 10.20.13.128 255.255.255.128 10.30.2.13

ip route 10.20.14.128 255.255.255.128 10.30.2.14

ip route 10.20.15.128 255.255.255.128 10.30.2.15

ip route 10.20.16.128 255.255.255.128 10.30.2.16

ip route 10.20.17.128 255.255.255.128 10.30.2.17

ip route 10.20.18.128 255.255.255.128 10.30.2.18

ip route 10.20.19.128 255.255.255.128 10.30.2.19

ip route 10.20.20.128 255.255.255.128 10.30.2.20

ip route 10.30.1.0 255.255.255.0 10.30.2.1

ip route 10.29.1.0 255.255.255.0 10.30.2.1

ip route 10.29.2.0 255.255.255.0 10.30.2.1

ip route 10.29.3.0 255.255.255.0 10.30.2.1

ip route 10.29.4.0 255.255.255.0 10.30.2.1

ip route 10.30.1.0 255.255.255.0 10.31.2.1

ip route 10.29.1.0 255.255.255.0 10.31.2.1

ip route 10.29.2.0 255.255.255.0 10.31.2.1

ip route 10.29.3.0 255.255.255.0 10.31.2.1

ip route 10.29.4.0 255.255.255.0 10.31.2.1

ip route 10.30.3.0 255.255.255.0 10.30.2.30

ip route 10.20.21.0 255.255.255.128 10.30.2.30

ip route 10.20.22.0 255.255.255.128 10.30.2.30

ip route 10.20.23.0 255.255.255.128 10.30.2.30

ip route 10.20.24.0 255.255.255.128 10.30.2.30

ip route 10.20.25.0 255.255.255.128 10.30.2.30

ip route 10.20.26.0 255.255.255.128 10.30.2.30

ip route 10.29.5.0 255.255.255.0 10.30.2.1

ip route 10.28.1.0 255.255.255.0 10.30.2.1

## **Konfigurasi Frame Relay**

## **Konfigurasi Acceslist**

**Router L4 Gedung Utama**

Enable

Configurasi terminal

ip route 10.20.11.0 255.255.255.128 10.30.2.11

ip route 10.20.12.0 255.255.255.128 10.30.2.12

ip route 10.20.13.0 255.255.255.128 10.30.2.13

ip route 10.20.15.0 255.255.255.128 10.30.2.15

ip route 10.20.16.0 255.255.255.128 10.30.2.16

ip route 10.20.17.0 255.255.255.128 10.30.2.17

ip route 10.20.18.0 255.255.255.128 10.30.2.18

ip route 10.20.19.0 255.255.255.128 10.30.2.19

ip route 10.20.20.0 255.255.255.128 10.30.2.20

ip route 10.20.11.128 255.255.255.128 10.30.2.11

ip route 10.20.12.128 255.255.255.128 10.30.2.12

ip route 10.20.13.128 255.255.255.128 10.30.2.13

ip route 10.20.15.128 255.255.255.128 10.30.2.15

ip route 10.20.16.128 255.255.255.128 10.30.2.16

ip route 10.20.17.128 255.255.255.128 10.30.2.17

ip route 10.20.18.128 255.255.255.128 10.30.2.18

ip route 10.20.19.128 255.255.255.128 10.30.2.19

ip route 10.20.20.128 255.255.255.128 10.30.2.20

ip route 10.30.1.0 255.255.255.0 10.30.2.1

ip route 10.29.1.0 255.255.255.0 10.30.2.1

ip route 10.29.2.0 255.255.255.0 10.30.2.1

ip route 10.29.3.0 255.255.255.0 10.30.2.1

ip route 10.29.4.0 255.255.255.0 10.30.2.1

ip route 10.30.1.0 255.255.255.0 10.31.2.1

ip route 10.29.1.0 255.255.255.0 10.31.2.1

ip route 10.29.2.0 255.255.255.0 10.31.2.1

ip route 10.29.3.0 255.255.255.0 10.31.2.1

ip route 10.29.4.0 255.255.255.0 10.31.2.1

ip route 10.30.3.0 255.255.255.0 10.30.2.30

ip route 10.20.21.0 255.255.255.128 10.30.2.30

ip route 10.20.22.0 255.255.255.128 10.30.2.30

ip route 10.20.23.0 255.255.255.128 10.30.2.30

ip route 10.20.24.0 255.255.255.128 10.30.2.30

ip route 10.20.25.0 255.255.255.128 10.30.2.30

ip route 10.20.26.0 255.255.255.128 10.30.2.30

ip route 10.29.5.0 255.255.255.0 10.30.2.1

ip route 10.28.1.0 255.255.255.0 10.30.2.1

**Router L3 Gedung Utama**

Enable

Configurasi terminal

ip route 10.20.11.0 255.255.255.128 10.30.2.11

ip route 10.20.12.0 255.255.255.128 10.30.2.12

ip route 10.20.14.0 255.255.255.128 10.30.2.14

ip route 10.20.15.0 255.255.255.128 10.30.2.15

ip route 10.20.16.0 255.255.255.128 10.30.2.16

ip route 10.20.17.0 255.255.255.128 10.30.2.17

ip route 10.20.18.0 255.255.255.128 10.30.2.18

ip route 10.20.19.0 255.255.255.128 10.30.2.19

ip route 10.20.20.0 255.255.255.128 10.30.2.20

ip route 10.20.11.128 255.255.255.128 10.30.2.11

ip route 10.20.12.128 255.255.255.128 10.30.2.12

ip route 10.20.14.128 255.255.255.128 10.30.2.14

ip route 10.20.15.128 255.255.255.128 10.30.2.15

ip route 10.20.16.128 255.255.255.128 10.30.2.16

ip route 10.20.17.128 255.255.255.128 10.30.2.17

ip route 10.20.18.128 255.255.255.128 10.30.2.18

ip route 10.20.19.128 255.255.255.128 10.30.2.19

ip route 10.20.20.128 255.255.255.128 10.30.2.20

ip route 10.30.1.0 255.255.255.0 10.30.2.1

ip route 10.29.1.0 255.255.255.0 10.30.2.1

ip route 10.29.2.0 255.255.255.0 10.30.2.1

ip route 10.29.3.0 255.255.255.0 10.30.2.1

ip route 10.29.4.0 255.255.255.0 10.30.2.1

ip route 10.30.1.0 255.255.255.0 10.31.2.1

ip route 10.29.1.0 255.255.255.0 10.31.2.1

ip route 10.29.2.0 255.255.255.0 10.31.2.1

ip route 10.29.3.0 255.255.255.0 10.31.2.1

ip route 10.29.4.0 255.255.255.0 10.31.2.1

ip route 10.30.3.0 255.255.255.0 10.30.2.30

ip route 10.20.21.0 255.255.255.128 10.30.2.30

ip route 10.20.22.0 255.255.255.128 10.30.2.30

ip route 10.20.23.0 255.255.255.128 10.30.2.30

ip route 10.20.24.0 255.255.255.128 10.30.2.30

ip route 10.20.25.0 255.255.255.128 10.30.2.30

ip route 10.20.26.0 255.255.255.128 10.30.2.30

ip route 10.29.5.0 255.255.255.0 10.30.2.1

ip route 10.28.1.0 255.255.255.0 10.30.2.1

**Router L6 Gedung Utama**

Enable

Configurasi terminal

ip route 10.20.11.0 255.255.255.128 10.30.2.11

ip route 10.20.12.0 255.255.255.128 10.30.2.12

ip route 10.20.13.0 255.255.255.128 10.30.2.13

ip route 10.20.14.0 255.255.255.128 10.30.2.14

ip route 10.20.15.0 255.255.255.128 10.30.2.15

ip route 10.20.17.0 255.255.255.128 10.30.2.17

ip route 10.20.18.0 255.255.255.128 10.30.2.18

ip route 10.20.19.0 255.255.255.128 10.30.2.19

ip route 10.20.20.0 255.255.255.128 10.30.2.20

ip route 10.20.11.128 255.255.255.128 10.30.2.11

ip route 10.20.12.128 255.255.255.128 10.30.2.12

ip route 10.20.13.128 255.255.255.128 10.30.2.13

ip route 10.20.14.128 255.255.255.128 10.30.2.14

ip route 10.20.15.128 255.255.255.128 10.30.2.15

ip route 10.20.17.128 255.255.255.128 10.30.2.17

ip route 10.20.18.128 255.255.255.128 10.30.2.18

ip route 10.20.19.128 255.255.255.128 10.30.2.19

ip route 10.20.20.128 255.255.255.128 10.30.2.20

ip route 10.30.1.0 255.255.255.0 10.30.2.1

ip route 10.29.1.0 255.255.255.0 10.30.2.1

ip route 10.29.2.0 255.255.255.0 10.30.2.1

ip route 10.29.3.0 255.255.255.0 10.30.2.1

ip route 10.29.4.0 255.255.255.0 10.30.2.1

ip route 10.30.1.0 255.255.255.0 10.31.2.1

ip route 10.29.1.0 255.255.255.0 10.31.2.1

ip route 10.29.2.0 255.255.255.0 10.31.2.1

ip route 10.29.3.0 255.255.255.0 10.31.2.1

ip route 10.29.4.0 255.255.255.0 10.31.2.1

ip route 10.30.3.0 255.255.255.0 10.30.2.30

ip route 10.20.21.0 255.255.255.128 10.30.2.30

ip route 10.20.22.0 255.255.255.128 10.30.2.30

ip route 10.20.23.0 255.255.255.128 10.30.2.30

ip route 10.20.24.0 255.255.255.128 10.30.2.30

ip route 10.20.25.0 255.255.255.128 10.30.2.30

ip route 10.20.26.0 255.255.255.128 10.30.2.30

ip route 10.29.5.0 255.255.255.0 10.30.2.1

ip route 10.28.1.0 255.255.255.0 10.30.2.1

**Router L5 Gedung Utama**

Enable

Configurasi terminal

ip route 10.20.11.0 255.255.255.128 10.30.2.11

ip route 10.20.12.0 255.255.255.128 10.30.2.12

ip route 10.20.13.0 255.255.255.128 10.30.2.13

ip route 10.20.14.0 255.255.255.128 10.30.2.14

ip route 10.20.16.0 255.255.255.128 10.30.2.16

ip route 10.20.17.0 255.255.255.128 10.30.2.17

ip route 10.20.18.0 255.255.255.128 10.30.2.18

ip route 10.20.19.0 255.255.255.128 10.30.2.19

ip route 10.20.20.0 255.255.255.128 10.30.2.20

ip route 10.20.11.128 255.255.255.128 10.30.2.11

ip route 10.20.12.128 255.255.255.128 10.30.2.12

ip route 10.20.13.128 255.255.255.128 10.30.2.13

ip route 10.20.14.128 255.255.255.128 10.30.2.14

ip route 10.20.16.128 255.255.255.128 10.30.2.16

ip route 10.20.17.128 255.255.255.128 10.30.2.17

ip route 10.20.18.128 255.255.255.128 10.30.2.18

ip route 10.20.19.128 255.255.255.128 10.30.2.19

ip route 10.20.20.128 255.255.255.128 10.30.2.20

ip route 10.30.1.0 255.255.255.0 10.30.2.1

ip route 10.29.1.0 255.255.255.0 10.30.2.1

ip route 10.29.2.0 255.255.255.0 10.30.2.1

ip route 10.29.3.0 255.255.255.0 10.30.2.1

ip route 10.29.4.0 255.255.255.0 10.30.2.1

ip route 10.30.1.0 255.255.255.0 10.31.2.1

ip route 10.29.1.0 255.255.255.0 10.31.2.1

ip route 10.29.2.0 255.255.255.0 10.31.2.1

ip route 10.29.3.0 255.255.255.0 10.31.2.1

ip route 10.29.4.0 255.255.255.0 10.31.2.1

ip route 10.30.3.0 255.255.255.0 10.30.2.30

ip route 10.20.21.0 255.255.255.128 10.30.2.30

ip route 10.20.22.0 255.255.255.128 10.30.2.30

ip route 10.20.23.0 255.255.255.128 10.30.2.30

ip route 10.20.24.0 255.255.255.128 10.30.2.30

ip route 10.20.25.0 255.255.255.128 10.30.2.30

ip route 10.20.26.0 255.255.255.128 10.30.2.30

ip route 10.29.5.0 255.255.255.0 10.30.2.1

ip route 10.28.1.0 255.255.255.0 10.30.2.1

**Router L8 Gedung Utama**

Enable

Configurasi terminal

ip route 10.20.11.0 255.255.255.128 10.30.2.11

ip route 10.20.12.0 255.255.255.128 10.30.2.12

ip route 10.20.13.0 255.255.255.128 10.30.2.13

ip route 10.20.14.0 255.255.255.128 10.30.2.14

ip route 10.20.15.0 255.255.255.128 10.30.2.15

ip route 10.20.16.0 255.255.255.128 10.30.2.16

ip route 10.20.17.0 255.255.255.128 10.30.2.17

ip route 10.20.19.0 255.255.255.128 10.30.2.19

ip route 10.20.20.0 255.255.255.128 10.30.2.20

ip route 10.20.11.128 255.255.255.128 10.30.2.11

ip route 10.20.12.128 255.255.255.128 10.30.2.12

ip route 10.20.13.128 255.255.255.128 10.30.2.13

ip route 10.20.14.128 255.255.255.128 10.30.2.14

ip route 10.20.15.128 255.255.255.128 10.30.2.15

ip route 10.20.16.128 255.255.255.128 10.30.2.16

ip route 10.20.17.128 255.255.255.128 10.30.2.17

ip route 10.20.19.128 255.255.255.128 10.30.2.19

ip route 10.20.20.128 255.255.255.128 10.30.2.20

ip route 10.30.1.0 255.255.255.0 10.30.2.1

ip route 10.29.1.0 255.255.255.0 10.30.2.1

ip route 10.29.2.0 255.255.255.0 10.30.2.1

ip route 10.29.3.0 255.255.255.0 10.30.2.1

ip route 10.29.4.0 255.255.255.0 10.30.2.1

ip route 10.30.1.0 255.255.255.0 10.31.2.1

ip route 10.29.1.0 255.255.255.0 10.31.2.1

ip route 10.29.2.0 255.255.255.0 10.31.2.1

ip route 10.29.3.0 255.255.255.0 10.31.2.1

ip route 10.29.4.0 255.255.255.0 10.31.2.1

ip route 10.30.3.0 255.255.255.0 10.30.2.30

ip route 10.20.21.0 255.255.255.128 10.30.2.30

ip route 10.20.22.0 255.255.255.128 10.30.2.30

ip route 10.20.23.0 255.255.255.128 10.30.2.30

ip route 10.20.24.0 255.255.255.128 10.30.2.30

ip route 10.20.25.0 255.255.255.128 10.30.2.30

ip route 10.20.26.0 255.255.255.128 10.30.2.30

ip route 10.29.5.0 255.255.255.0 10.30.2.1

ip route 10.28.1.0 255.255.255.0 10.30.2.1

**Router L7 Gedung Utama**

Enable

Configurasi terminal

ip route 10.20.11.0 255.255.255.128 10.30.2.11

ip route 10.20.12.0 255.255.255.128 10.30.2.12

ip route 10.20.13.0 255.255.255.128 10.30.2.13

ip route 10.20.14.0 255.255.255.128 10.30.2.14

ip route 10.20.15.0 255.255.255.128 10.30.2.15

ip route 10.20.16.0 255.255.255.128 10.30.2.16

ip route 10.20.18.0 255.255.255.128 10.30.2.18

ip route 10.20.19.0 255.255.255.128 10.30.2.19

ip route 10.20.20.0 255.255.255.128 10.30.2.20

ip route 10.20.11.128 255.255.255.128 10.30.2.11

ip route 10.20.12.128 255.255.255.128 10.30.2.12

ip route 10.20.13.128 255.255.255.128 10.30.2.13

ip route 10.20.14.128 255.255.255.128 10.30.2.14

ip route 10.20.15.128 255.255.255.128 10.30.2.15

ip route 10.20.16.128 255.255.255.128 10.30.2.16

ip route 10.20.18.128 255.255.255.128 10.30.2.18

ip route 10.20.19.128 255.255.255.128 10.30.2.19

ip route 10.20.20.128 255.255.255.128 10.30.2.20

ip route 10.30.1.0 255.255.255.0 10.30.2.1

ip route 10.29.1.0 255.255.255.0 10.30.2.1

ip route 10.29.2.0 255.255.255.0 10.30.2.1

ip route 10.29.3.0 255.255.255.0 10.30.2.1

ip route 10.29.4.0 255.255.255.0 10.30.2.1

ip route 10.30.1.0 255.255.255.0 10.31.2.1

ip route 10.29.1.0 255.255.255.0 10.31.2.1

ip route 10.29.2.0 255.255.255.0 10.31.2.1

ip route 10.29.3.0 255.255.255.0 10.31.2.1

ip route 10.29.4.0 255.255.255.0 10.31.2.1

ip route 10.30.3.0 255.255.255.0 10.30.2.30

ip route 10.20.21.0 255.255.255.128 10.30.2.30

ip route 10.20.22.0 255.255.255.128 10.30.2.30

ip route 10.20.23.0 255.255.255.128 10.30.2.30

ip route 10.20.24.0 255.255.255.128 10.30.2.30

ip route 10.20.25.0 255.255.255.128 10.30.2.30

ip route 10.20.26.0 255.255.255.128 10.30.2.30

ip route 10.29.5.0 255.255.255.0 10.30.2.1

ip route 10.28.1.0 255.255.255.0 10.30.2.1

**Router L10 Gedung Utama**

Enable

Configurasi terminal

ip route 10.20.11.0 255.255.255.128 10.30.2.11

ip route 10.20.12.0 255.255.255.128 10.30.2.12

ip route 10.20.13.0 255.255.255.128 10.30.2.13

ip route 10.20.14.0 255.255.255.128 10.30.2.14

ip route 10.20.15.0 255.255.255.128 10.30.2.15

ip route 10.20.16.0 255.255.255.128 10.30.2.16

ip route 10.20.17.0 255.255.255.128 10.30.2.17

ip route 10.20.18.0 255.255.255.128 10.30.2.18

ip route 10.20.19.0 255.255.255.128 10.30.2.19

ip route 10.20.11.128 255.255.255.128 10.30.2.11

ip route 10.20.12.128 255.255.255.128 10.30.2.12

ip route 10.20.13.128 255.255.255.128 10.30.2.13

ip route 10.20.14.128 255.255.255.128 10.30.2.14

ip route 10.20.15.128 255.255.255.128 10.30.2.15

ip route 10.20.16.128 255.255.255.128 10.30.2.16

ip route 10.20.17.128 255.255.255.128 10.30.2.17

ip route 10.20.18.128 255.255.255.128 10.30.2.18

ip route 10.20.19.128 255.255.255.128 10.30.2.19

ip route 10.30.1.0 255.255.255.0 10.30.2.1

ip route 10.29.1.0 255.255.255.0 10.30.2.1

ip route 10.29.2.0 255.255.255.0 10.30.2.1

ip route 10.29.3.0 255.255.255.0 10.30.2.1

ip route 10.29.4.0 255.255.255.0 10.30.2.1

ip route 10.30.1.0 255.255.255.0 10.31.2.1

ip route 10.29.1.0 255.255.255.0 10.31.2.1

ip route 10.29.2.0 255.255.255.0 10.31.2.1

ip route 10.29.3.0 255.255.255.0 10.31.2.1

ip route 10.29.4.0 255.255.255.0 10.31.2.1

ip route 10.30.3.0 255.255.255.0 10.30.2.30

ip route 10.20.21.0 255.255.255.128 10.30.2.30

ip route 10.20.22.0 255.255.255.128 10.30.2.30

ip route 10.20.23.0 255.255.255.128 10.30.2.30

ip route 10.20.24.0 255.255.255.128 10.30.2.30

ip route 10.20.25.0 255.255.255.128 10.30.2.30

ip route 10.20.26.0 255.255.255.128 10.30.2.30

ip route 10.29.5.0 255.255.255.0 10.30.2.1

ip route 10.28.1.0 255.255.255.0 10.30.2.1

**Router L9 Gedung Utama**

Enable

Configurasi terminal

ip route 10.20.11.0 255.255.255.128 10.30.2.11

ip route 10.20.12.0 255.255.255.128 10.30.2.12

ip route 10.20.13.0 255.255.255.128 10.30.2.13

ip route 10.20.14.0 255.255.255.128 10.30.2.14

ip route 10.20.15.0 255.255.255.128 10.30.2.15

ip route 10.20.16.0 255.255.255.128 10.30.2.16

ip route 10.20.17.0 255.255.255.128 10.30.2.17

ip route 10.20.18.0 255.255.255.128 10.30.2.18

ip route 10.20.20.0 255.255.255.128 10.30.2.20

ip route 10.20.11.128 255.255.255.128 10.30.2.11

ip route 10.20.12.128 255.255.255.128 10.30.2.12

ip route 10.20.13.128 255.255.255.128 10.30.2.13

ip route 10.20.14.128 255.255.255.128 10.30.2.14

ip route 10.20.15.128 255.255.255.128 10.30.2.15

ip route 10.20.16.128 255.255.255.128 10.30.2.16

ip route 10.20.17.128 255.255.255.128 10.30.2.17

ip route 10.20.18.128 255.255.255.128 10.30.2.18

ip route 10.20.20.128 255.255.255.128 10.30.2.20

ip route 10.30.1.0 255.255.255.0 10.30.2.1

ip route 10.29.1.0 255.255.255.0 10.30.2.1

ip route 10.29.2.0 255.255.255.0 10.30.2.1

ip route 10.29.3.0 255.255.255.0 10.30.2.1

ip route 10.29.4.0 255.255.255.0 10.30.2.1

ip route 10.30.1.0 255.255.255.0 10.31.2.1

ip route 10.29.1.0 255.255.255.0 10.31.2.1

ip route 10.29.2.0 255.255.255.0 10.31.2.1

ip route 10.29.3.0 255.255.255.0 10.31.2.1

ip route 10.29.4.0 255.255.255.0 10.31.2.1

ip route 10.30.3.0 255.255.255.0 10.30.2.30

ip route 10.20.21.0 255.255.255.128 10.30.2.30

ip route 10.20.22.0 255.255.255.128 10.30.2.30

ip route 10.20.23.0 255.255.255.128 10.30.2.30

ip route 10.20.24.0 255.255.255.128 10.30.2.30

ip route 10.20.25.0 255.255.255.128 10.30.2.30

ip route 10.20.26.0 255.255.255.128 10.30.2.30

ip route 10.29.5.0 255.255.255.0 10.30.2.1

ip route 10.28.1.0 255.255.255.0 10.30.2.1

**Router L2 Gedung Pusat Teknologi**

Enable

Configurasi terminal

ip route 10.20.21.0 255.255.255.128 10.30.3.11

ip route 10.20.23.0 255.255.255.128 10.30.3.13

ip route 10.20.24.0 255.255.255.128 10.30.3.14

ip route 10.20.25.0 255.255.255.128 10.30.3.15

ip route 10.20.26.0 255.255.255.128 10.30.3.16

ip route 10.30.1.0 255.255.255.0 10.30.3.1

ip route 10.29.1.0 255.255.255.0 10.30.3.1

ip route 10.29.2.0 255.255.255.0 10.30.3.1

ip route 10.29.3.0 255.255.255.0 10.30.3.1

ip route 10.29.4.0 255.255.255.0 10.30.3.1

ip route 10.20.11.0 255.255.255.128 10.30.3.1

ip route 10.20.12.0 255.255.255.128 10.30.3.1

ip route 10.20.13.0 255.255.255.128 10.30.3.1

ip route 10.20.14.0 255.255.255.128 10.30.3.1

ip route 10.20.15.0 255.255.255.128 10.30.3.1

ip route 10.20.16.0 255.255.255.128 10.30.3.1

ip route 10.20.17.0 255.255.255.128 10.30.3.1

ip route 10.20.18.0 255.255.255.128 10.30.3.1

ip route 10.20.19.0 255.255.255.128 10.30.3.1

ip route 10.20.20.0 255.255.255.128 10.30.3.1

ip route 10.20.11.128 255.255.255.128 10.30.3.1

ip route 10.20.12.128 255.255.255.128 10.30.3.1

ip route 10.20.13.128 255.255.255.128 10.30.3.1

ip route 10.20.14.128 255.255.255.128 10.30.3.1

ip route 10.20.15.128 255.255.255.128 10.30.3.1

ip route 10.20.16.128 255.255.255.128 10.30.3.1

ip route 10.20.17.128 255.255.255.128 10.30.3.1

ip route 10.20.18.128 255.255.255.128 10.30.3.1

ip route 10.20.19.128 255.255.255.128 10.30.3.1

ip route 10.20.20.128 255.255.255.128 10.30.3.1

ip route 10.29.5.0 255.255.255.0 10.30.3.1

ip route 10.28.1.0 255.255.255.0 10.30.3.1

**Router L1 Gedung Pusat Teknologi**

Enable

Configurasi terminal

ip route 10.20.22.0 255.255.255.128 10.30.3.12

ip route 10.20.23.0 255.255.255.128 10.30.3.13

ip route 10.20.24.0 255.255.255.128 10.30.3.14

ip route 10.20.25.0 255.255.255.128 10.30.3.15

ip route 10.20.26.0 255.255.255.128 10.30.3.16

ip route 10.30.1.0 255.255.255.0 10.30.3.1

ip route 10.29.1.0 255.255.255.0 10.30.3.1

ip route 10.29.2.0 255.255.255.0 10.30.3.1

ip route 10.29.3.0 255.255.255.0 10.30.3.1

ip route 10.29.4.0 255.255.255.0 10.30.3.1

ip route 10.20.11.0 255.255.255.128 10.30.3.1

ip route 10.20.12.0 255.255.255.128 10.30.3.1

ip route 10.20.13.0 255.255.255.128 10.30.3.1

ip route 10.20.14.0 255.255.255.128 10.30.3.1

ip route 10.20.15.0 255.255.255.128 10.30.3.1

ip route 10.20.16.0 255.255.255.128 10.30.3.1

ip route 10.20.17.0 255.255.255.128 10.30.3.1

ip route 10.20.18.0 255.255.255.128 10.30.3.1

ip route 10.20.19.0 255.255.255.128 10.30.3.1

ip route 10.20.20.0 255.255.255.128 10.30.3.1

ip route 10.20.11.128 255.255.255.128 10.30.3.1

ip route 10.20.12.128 255.255.255.128 10.30.3.1

ip route 10.20.13.128 255.255.255.128 10.30.3.1

ip route 10.20.14.128 255.255.255.128 10.30.3.1

ip route 10.20.15.128 255.255.255.128 10.30.3.1

ip route 10.20.16.128 255.255.255.128 10.30.3.1

ip route 10.20.17.128 255.255.255.128 10.30.3.1

ip route 10.20.18.128 255.255.255.128 10.30.3.1

ip route 10.20.19.128 255.255.255.128 10.30.3.1

ip route 10.20.20.128 255.255.255.128 10.30.3.1

ip route 10.29.5.0 255.255.255.0 10.30.3.1

ip route 10.28.1.0 255.255.255.0 10.30.3.1

**Router L4 Gedung Pusat Teknologi**

Enable

Configurasi terminal

ip route 10.20.21.0 255.255.255.128 10.30.3.11

ip route 10.20.22.0 255.255.255.128 10.30.3.12

ip route 10.20.23.0 255.255.255.128 10.30.3.13

ip route 10.20.25.0 255.255.255.128 10.30.3.15

ip route 10.20.26.0 255.255.255.128 10.30.3.16

ip route 10.30.1.0 255.255.255.0 10.30.3.1

ip route 10.29.1.0 255.255.255.0 10.30.3.1

ip route 10.29.2.0 255.255.255.0 10.30.3.1

ip route 10.29.3.0 255.255.255.0 10.30.3.1

ip route 10.29.4.0 255.255.255.0 10.30.3.1

ip route 10.20.11.0 255.255.255.128 10.30.3.1

ip route 10.20.12.0 255.255.255.128 10.30.3.1

ip route 10.20.13.0 255.255.255.128 10.30.3.1

ip route 10.20.14.0 255.255.255.128 10.30.3.1

ip route 10.20.15.0 255.255.255.128 10.30.3.1

ip route 10.20.16.0 255.255.255.128 10.30.3.1

ip route 10.20.17.0 255.255.255.128 10.30.3.1

ip route 10.20.18.0 255.255.255.128 10.30.3.1

ip route 10.20.19.0 255.255.255.128 10.30.3.1

ip route 10.20.20.0 255.255.255.128 10.30.3.1

ip route 10.20.11.128 255.255.255.128 10.30.3.1

ip route 10.20.12.128 255.255.255.128 10.30.3.1

ip route 10.20.13.128 255.255.255.128 10.30.3.1

ip route 10.20.14.128 255.255.255.128 10.30.3.1

ip route 10.20.15.128 255.255.255.128 10.30.3.1

ip route 10.20.16.128 255.255.255.128 10.30.3.1

ip route 10.20.17.128 255.255.255.128 10.30.3.1

ip route 10.20.18.128 255.255.255.128 10.30.3.1

ip route 10.20.19.128 255.255.255.128 10.30.3.1

ip route 10.20.20.128 255.255.255.128 10.30.3.1

ip route 10.29.5.0 255.255.255.0 10.30.3.1

ip route 10.28.1.0 255.255.255.0 10.30.3.1

**Router L3 Gedung Pusat Teknologi**

Enable

Configurasi terminal

ip route 10.20.21.0 255.255.255.128 10.30.3.11

ip route 10.20.22.0 255.255.255.128 10.30.3.12

ip route 10.20.24.0 255.255.255.128 10.30.3.14

ip route 10.20.25.0 255.255.255.128 10.30.3.15

ip route 10.20.26.0 255.255.255.128 10.30.3.16

ip route 10.30.1.0 255.255.255.0 10.30.3.1

ip route 10.29.1.0 255.255.255.0 10.30.3.1

ip route 10.29.2.0 255.255.255.0 10.30.3.1

ip route 10.29.3.0 255.255.255.0 10.30.3.1

ip route 10.29.4.0 255.255.255.0 10.30.3.1

ip route 10.20.11.0 255.255.255.128 10.30.3.1

ip route 10.20.12.0 255.255.255.128 10.30.3.1

ip route 10.20.13.0 255.255.255.128 10.30.3.1

ip route 10.20.14.0 255.255.255.128 10.30.3.1

ip route 10.20.15.0 255.255.255.128 10.30.3.1

ip route 10.20.16.0 255.255.255.128 10.30.3.1

ip route 10.20.17.0 255.255.255.128 10.30.3.1

ip route 10.20.18.0 255.255.255.128 10.30.3.1

ip route 10.20.19.0 255.255.255.128 10.30.3.1

ip route 10.20.20.0 255.255.255.128 10.30.3.1

ip route 10.20.11.128 255.255.255.128 10.30.3.1

ip route 10.20.12.128 255.255.255.128 10.30.3.1

ip route 10.20.13.128 255.255.255.128 10.30.3.1

ip route 10.20.14.128 255.255.255.128 10.30.3.1

ip route 10.20.15.128 255.255.255.128 10.30.3.1

ip route 10.20.16.128 255.255.255.128 10.30.3.1

ip route 10.20.17.128 255.255.255.128 10.30.3.1

ip route 10.20.18.128 255.255.255.128 10.30.3.1

ip route 10.20.19.128 255.255.255.128 10.30.3.1

ip route 10.20.20.128 255.255.255.128 10.30.3.1

ip route 10.29.5.0 255.255.255.0 10.30.3.1

ip route 10.28.1.0 255.255.255.0 10.30.3.1

**Router L6 Gedung Pusat Teknologi**

Enable

Configurasi terminal

ip route 10.20.21.0 255.255.255.128 10.30.3.11

ip route 10.20.22.0 255.255.255.128 10.30.3.12

ip route 10.20.23.0 255.255.255.128 10.30.3.13

ip route 10.20.24.0 255.255.255.128 10.30.3.14

ip route 10.20.25.0 255.255.255.128 10.30.3.15

ip route 10.30.1.0 255.255.255.0 10.30.3.1

ip route 10.29.1.0 255.255.255.0 10.30.3.1

ip route 10.29.2.0 255.255.255.0 10.30.3.1

ip route 10.29.3.0 255.255.255.0 10.30.3.1

ip route 10.29.4.0 255.255.255.0 10.30.3.1

ip route 10.20.11.0 255.255.255.128 10.30.3.1

ip route 10.20.12.0 255.255.255.128 10.30.3.1

ip route 10.20.13.0 255.255.255.128 10.30.3.1

ip route 10.20.14.0 255.255.255.128 10.30.3.1

ip route 10.20.15.0 255.255.255.128 10.30.3.1

ip route 10.20.16.0 255.255.255.128 10.30.3.1

ip route 10.20.17.0 255.255.255.128 10.30.3.1

ip route 10.20.18.0 255.255.255.128 10.30.3.1

ip route 10.20.19.0 255.255.255.128 10.30.3.1

ip route 10.20.20.0 255.255.255.128 10.30.3.1

ip route 10.20.11.128 255.255.255.128 10.30.3.1

ip route 10.20.12.128 255.255.255.128 10.30.3.1

ip route 10.20.13.128 255.255.255.128 10.30.3.1

ip route 10.20.14.128 255.255.255.128 10.30.3.1

ip route 10.20.15.128 255.255.255.128 10.30.3.1

ip route 10.20.16.128 255.255.255.128 10.30.3.1

ip route 10.20.17.128 255.255.255.128 10.30.3.1

ip route 10.20.18.128 255.255.255.128 10.30.3.1

ip route 10.20.19.128 255.255.255.128 10.30.3.1

ip route 10.20.20.128 255.255.255.128 10.30.3.1

ip route 10.29.5.0 255.255.255.0 10.30.3.1

ip route 10.28.1.0 255.255.255.0 10.30.3.1

**Router L5 Gedung Pusat Teknologi**

Enable

Configurasi terminal

ip route 10.20.21.0 255.255.255.128 10.30.3.11

ip route 10.20.22.0 255.255.255.128 10.30.3.12

ip route 10.20.23.0 255.255.255.128 10.30.3.13

ip route 10.20.24.0 255.255.255.128 10.30.3.14

ip route 10.20.26.0 255.255.255.128 10.30.3.16

ip route 10.30.1.0 255.255.255.0 10.30.3.1

ip route 10.29.1.0 255.255.255.0 10.30.3.1

ip route 10.29.2.0 255.255.255.0 10.30.3.1

ip route 10.29.3.0 255.255.255.0 10.30.3.1

ip route 10.29.4.0 255.255.255.0 10.30.3.1

ip route 10.20.11.0 255.255.255.128 10.30.3.1

ip route 10.20.12.0 255.255.255.128 10.30.3.1

ip route 10.20.13.0 255.255.255.128 10.30.3.1

ip route 10.20.14.0 255.255.255.128 10.30.3.1

ip route 10.20.15.0 255.255.255.128 10.30.3.1

ip route 10.20.16.0 255.255.255.128 10.30.3.1

ip route 10.20.17.0 255.255.255.128 10.30.3.1

ip route 10.20.18.0 255.255.255.128 10.30.3.1

ip route 10.20.19.0 255.255.255.128 10.30.3.1

ip route 10.20.20.0 255.255.255.128 10.30.3.1

ip route 10.20.11.128 255.255.255.128 10.30.3.1

ip route 10.20.12.128 255.255.255.128 10.30.3.1

ip route 10.20.13.128 255.255.255.128 10.30.3.1

ip route 10.20.14.128 255.255.255.128 10.30.3.1

ip route 10.20.15.128 255.255.255.128 10.30.3.1

ip route 10.20.16.128 255.255.255.128 10.30.3.1

ip route 10.20.17.128 255.255.255.128 10.30.3.1

ip route 10.20.18.128 255.255.255.128 10.30.3.1

ip route 10.20.19.128 255.255.255.128 10.30.3.1

ip route 10.20.20.128 255.255.255.128 10.30.3.1

ip route 10.29.5.0 255.255.255.0 10.30.3.1

ip route 10.28.1.0 255.255.255.0 10.30.3.1

**ISP Router**

Enable

Configurasi terminal

ip route 10.28.1.0 255.255.255.0 10.29.5.2

ip route 10.30.2.0 255.255.255.0 10.30.1.1

ip route 10.20.11.0 255.255.255.128 10.30.1.1

ip route 10.20.12.0 255.255.255.128 10.30.1.1

ip route 10.20.13.0 255.255.255.128 10.30.1.1

ip route 10.20.14.0 255.255.255.128 10.30.1.1

ip route 10.20.15.0 255.255.255.128 10.30.1.1

ip route 10.20.16.0 255.255.255.128 10.30.1.1

ip route 10.20.17.0 255.255.255.128 10.30.1.1

ip route 10.20.18.0 255.255.255.128 10.30.1.1

ip route 10.20.19.0 255.255.255.128 10.30.1.1

ip route 10.20.20.0 255.255.255.128 10.30.1.1

ip route 10.20.11.128 255.255.255.128 10.30.1.1

ip route 10.20.12.128 255.255.255.128 10.30.1.1

ip route 10.20.13.128 255.255.255.128 10.30.1.1

ip route 10.20.14.128 255.255.255.128 10.30.1.1

ip route 10.20.15.128 255.255.255.128 10.30.1.1

ip route 10.20.16.128 255.255.255.128 10.30.1.1

ip route 10.20.17.128 255.255.255.128 10.30.1.1

ip route 10.20.18.128 255.255.255.128 10.30.1.1

ip route 10.20.19.128 255.255.255.128 10.30.1.1

ip route 10.20.20.128 255.255.255.128 10.30.1.1

ip route 10.30.3.0 255.255.255.0 10.30.1.1

ip route 10.20.21.0 255.255.255.128 10.30.1.1

ip route 10.20.22.0 255.255.255.128 10.30.1.1

ip route 10.20.23.0 255.255.255.128 10.30.1.1

ip route 10.20.24.0 255.255.255.128 10.30.1.1

ip route 10.20.25.0 255.255.255.128 10.30.1.1

ip route 10.20.26.0 255.255.255.128 10.30.1.1

**Router Core**

Enable

Configurasi terminal

ip route 10.20.11.0 255.255.255.128 10.30.2.11

ip route 10.20.12.0 255.255.255.128 10.30.2.12

ip route 10.20.13.0 255.255.255.128 10.30.2.13

ip route 10.20.14.0 255.255.255.128 10.30.2.14

ip route 10.20.15.0 255.255.255.128 10.30.2.15

ip route 10.20.16.0 255.255.255.128 10.30.2.16

ip route 10.20.17.0 255.255.255.128 10.30.2.17

ip route 10.20.18.0 255.255.255.128 10.30.2.18

ip route 10.20.19.0 255.255.255.128 10.30.2.19

ip route 10.20.20.0 255.255.255.128 10.30.2.20

ip route 10.20.11.128 255.255.255.128 10.30.2.11

ip route 10.20.12.128 255.255.255.128 10.30.2.12

ip route 10.20.13.128 255.255.255.128 10.30.2.13

ip route 10.20.14.128 255.255.255.128 10.30.2.14

ip route 10.20.15.128 255.255.255.128 10.30.2.15

ip route 10.20.16.128 255.255.255.128 10.30.2.16

ip route 10.20.17.128 255.255.255.128 10.30.2.17

ip route 10.20.18.128 255.255.255.128 10.30.2.18

ip route 10.20.19.128 255.255.255.128 10.30.2.19

ip route 10.20.20.128 255.255.255.128 10.30.2.20

ip route 10.30.3.0 255.255.255.0 10.30.2.30

ip route 10.20.21.0 255.255.255.128 10.30.2.30

ip route 10.20.22.0 255.255.255.128 10.30.2.30

ip route 10.20.23.0 255.255.255.128 10.30.2.30

ip route 10.20.24.0 255.255.255.128 10.30.2.30

ip route 10.20.25.0 255.255.255.128 10.30.2.30

ip route 10.20.26.0 255.255.255.128 10.30.2.30

ip route 10.29.5.0 255.255.255.0 10.30.1.2

ip route 10.28.1.0 255.255.255.0 10.30.1.2

**Router KC**

Enable

Configurasi terminal

ip route 10.30.1.0 255.255.255.0 10.29.5.1

ip route 10.30.2.0 255.255.255.0 10.29.5.1

ip route 10.20.11.0 255.255.255.128 10.29.5.1

ip route 10.20.12.0 255.255.255.128 10.29.5.1

ip route 10.20.13.0 255.255.255.128 10.29.5.1

ip route 10.20.14.0 255.255.255.128 10.29.5.1

ip route 10.20.15.0 255.255.255.128 10.29.5.1

ip route 10.20.16.0 255.255.255.128 10.29.5.1

ip route 10.20.17.0 255.255.255.128 10.29.5.1

ip route 10.20.18.0 255.255.255.128 10.29.5.1

ip route 10.20.19.0 255.255.255.128 10.29.5.1

ip route 10.20.20.0 255.255.255.128 10.29.5.1

ip route 10.20.11.128 255.255.255.128 10.29.5.1

ip route 10.20.12.128 255.255.255.128 10.29.5.1

ip route 10.20.13.128 255.255.255.128 10.29.5.1

ip route 10.20.14.128 255.255.255.128 10.29.5.1

ip route 10.20.15.128 255.255.255.128 10.29.5.1

ip route 10.20.16.128 255.255.255.128 10.29.5.1

ip route 10.20.17.128 255.255.255.128 10.29.5.1

ip route 10.20.18.128 255.255.255.128 10.29.5.1

ip route 10.20.19.128 255.255.255.128 10.29.5.1

ip route 10.20.20.128 255.255.255.128 10.29.5.1

ip route 10.30.3.0 255.255.255.0 10.29.5.1

ip route 10.20.21.0 255.255.255.128 10.29.5.1

ip route 10.20.22.0 255.255.255.128 10.29.5.1

ip route 10.20.23.0 255.255.255.128 10.29.5.1

ip route 10.20.24.0 255.255.255.128 10.29.5.1

ip route 10.20.25.0 255.255.255.128 10.29.5.1

ip route 10.20.26.0 255.255.255.128 10.29.5.1

## **Konfigurasi Frame Relay**

**Router KC**

enable

configure terminal

interface se2/0

encapsulation frame-relay

frame-relay map ip 10.29.5.1 104 broadcast

do write

**ISP Router**

enable

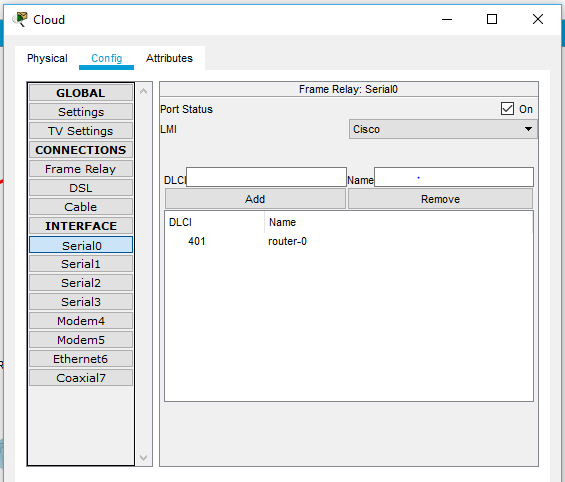
configure terminal

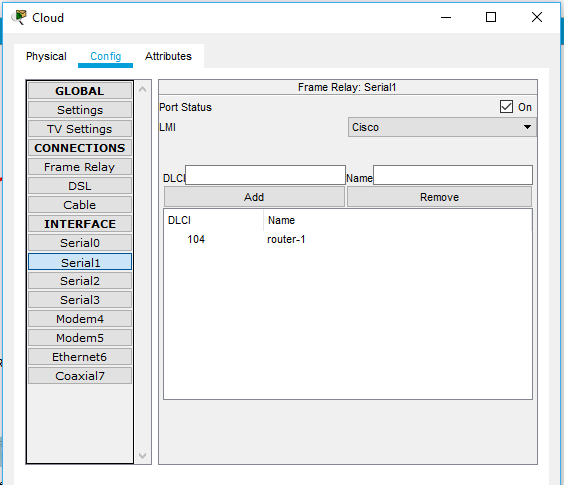
interface se6/0

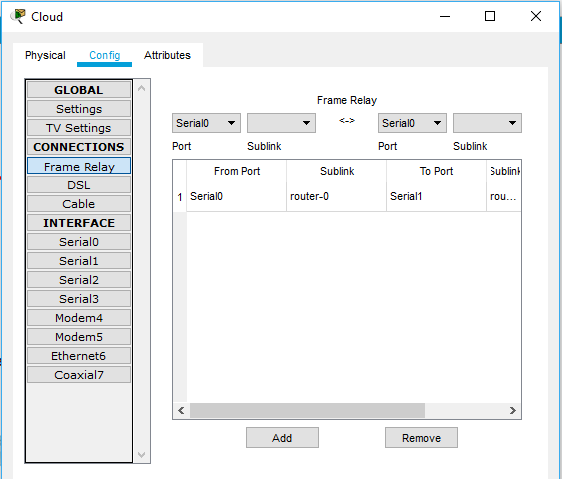
encapsulation frame-relay

frame-relay map ip 10.29.5.2 401 broadcast

do write







## **Konfigurasi Accesslist**

**Swicth Core**

enable

configure terminal

access-list 1 deny host 10.28.1.2

access-list 1 permit any

int fa0/21

ip access-group 1 out

# BAB V

# KESIMPULAN

## **5.1 Simpulan**

## **5.2 Saran**

# LAMPIRAN

## **Pembagian Tugas**

|  |  |
| --- | --- |
| Nama | Tugas |
| Ammar Ash-shiddiqi | * Anggota kelompok, menjalankan tugas yang diberi ketua kelompok * Mencari narasumber yang bisa di wawancarai mengenai Tugas Besar * Penentuan IP Address pada masing-masing interface router * Konfigurasi layanan server yaitu DNS dan Webserver * Konfigurasi DHCP pada masing-masing Interface Router * Menyusun laporan |
| Silvi Febrianti | * Anggota kelompok, menjalankan tugas yang diberi ketua kelompok * Konfigurasi routing statis pada Router * Konfigurasi Jaringan Kantor Cabang * Konfigurasi routing Jaringan Kantor Cabang * Konfigurasi Frame Relay pada Cloud * Menyusun laporan |
| Teguh Arianto | * Ketua kelompok, mengkordinir pembagian tugas anggota * Membuat skema jaringan, sesuai dengan hasil observasi * Konfigurasi Access List pada Router * Konfigurasi Inter VLAN pada Switch dan Router * Menyusun laporan |

## **Dokumentasi Survei Kelompok**



## **Lembar Konsultasi**

LEMBAR KONSULTASI **TUGAS BESAR**

**JARINGAN KOMPUTER 2018**

Kelompok : Kelompok 1 (Shift 2)

Nama Anggota : 1600095 – Ammar Ashshiddiqi

1608270 – Silvi Febrianti

1606525 – Teguh Arianto

Tema : Manufaktur jaringan PT. INTI

Deskripsi :

TTD

Asisten Jaringan Komputer 2017,

………………………………….