JURNAL PRAKTIKUM
(LAB. ACTIVITY)
JARINGAN KOMPUTER
SI032

Materi 8:

Router & Routing

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JURUSAN SISTEM INFORMASI

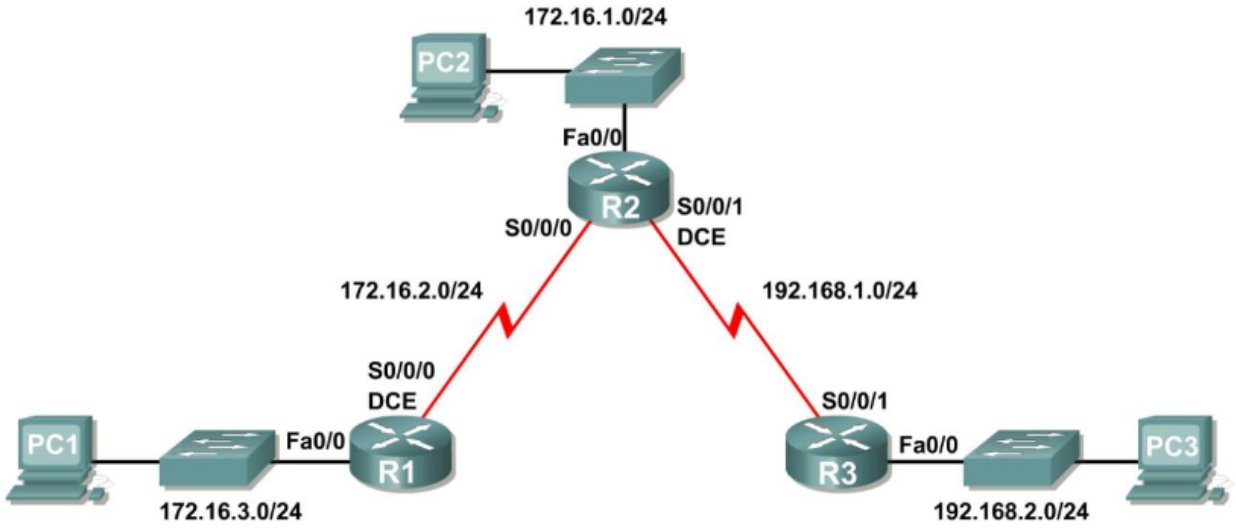
SEKOLAH TINGGI MANAJEMEN INFORMATIKA DAN KOMPUTER

AMIKOM YOGYAKARTA

YOGYAKARTA

2023

Konfigurasi Dasar Routing Static dan Routing Default



Addressing Table

Device	Interface	IP Address	Subnet Mask	Default Gateway
R1	Fa0/0	172.16.3.1	255.255.255.0	N/A
	S0/0/0	172.16.2.1	255.255.255.0	N/A
R2	Fa0/0	172.16.1.1	255.255.255.0	N/A
	S0/0/0	172.16.2.2	255.255.255.0	N/A
	S0/0/1	192.168.1.2	255.255.255.0	N/A
R3	FA0/0	192.168.2.1	255.255.255.0	N/A
	S0/0/1	192.168.1.1	255.255.255.0	N/A
PC1	NIC	172.16.3.10	255.255.255.0	172.16.3.1
PC2	NIC	172.16.1.10	255.255.255.0	172.16.1.1
PC3	NIC	192.168.2.10	255.255.255.0	192.168.2.1

Konfigurasi R1

```
Router#enable
Router #configure terminal
Router config)#hostname R1

R1(config)#interface fastEthernet 0/0
R1(config-if)#ip address 172.16.3.1 255.255.255.0
R1(config-if)#no shutdown

R1(config)#interface Serial0/0/0
R1(config-if)#ip address 172.16.2.1 255.255.255.0
R1(config-if)#clock rate 64000
R1(config-if)#no shutdown

R1(config-if)#exit
R1(config)#router rip
R1(config-router)#version 2
R1(config-router)#network 172.16.2.0
R1(config-router)#network 172.16.3.0

R1(config)#enable secret class
R1(config)#no ip domain-lookup
R1(config)#line console 0
R1(config-line)#password cisco
R1(config-line)#login

R1(config-line)#exit
R1(config)#username amikom password 123
R1(config)#line vty 0 4
R1(config-line)#password cisco
R1(config-line)#login local

R1(config-line)#end
```

Konfigurasi R2

```
hostname R2

interface FastEthernet0/0
ip address 172.16.1.1 255.255.255.0
no shutdown
```

```
interface Serial0/0/0
ip address 172.16.2.2 255.255.255.0
no shutdown

interface Serial0/0/1
ip address 192.168.1.2 255.255.255.0
clock rate 64000
no shutdown

R2(config)#router rip
R2(config-router)#version 2
R2(config-router)#network 172.16.2.0
R2(config-router)#network 192.168.1.0

R2(config)#enable secret class
R2(config)#no ip domain-lookup
R2(config)#line console 0
R2(config-line)#password cisco
R2(config-line)#login

R2(config-line)#exit
R2(config)#username amikom password 123
R2(config)#line vty 0 4
R2(config-line)#password cisco
R2(config-line)#login local

R2(config-line)#end
```

Konfigurasi R3

```
hostname R3

interface FastEthernet0/0
ip address 192.168.2.1 255.255.255.0
no shutdown

interface Serial0/0/1
ip address 192.168.1.1 255.255.255.0
no shutdown

R3(config)#router rip
R3(config-router)#version 2
R3(config-router)#net 192.168.2.0
R3(config-router)#net 192.168.1.0
```

```
R3(config)#enable secret class
R3(config)#no ip domain-lookup
R3(config)#line console 0
R3(config-line)#password cisco
R3(config-line)#login

R3(config-line)#exit
R3(config)#username amikom password 123
R3(config)#line vty 0 4
R3(config-line)#password cisco
R3(config-line)#login local

R3(config-line)#end
```

Lakukan Verifikasi di masing-masing router.

```
#show ip route
```

1. Silahakan diamati dan dianalisa routing Table di masing-masing router. Apa yang dapat anda simpulkan?
2. Apa maksud dari masing-masing perintah konfigurasi yang dilakukan di setiap router?
3. Berikan bukti screenshoot bahwa PC1 dapat berkomunikasi dengan PC2 dan PC3, dan sebaliknya. Dengan menggunkan perintah “ping”
4. Berikan bukti screen shoot bahwa anda dapat melakukan telnet ke router tetangga.

NB: Tugas di kerjakan individu dan wajib submit laporan masing-masing, ke google classroom. Format laporan seperti ”JURNAL PRAKTIKUM”.