

RIP ROUTING

오늘 우리는

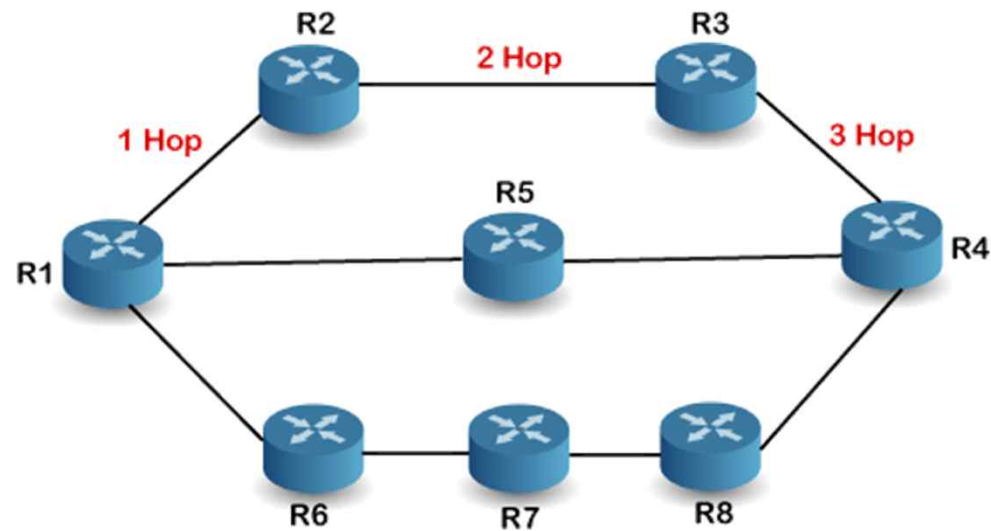
- packet tracer 기본 설정
- Static Routing

- DHCP, DNS, WEB SERVER 설정

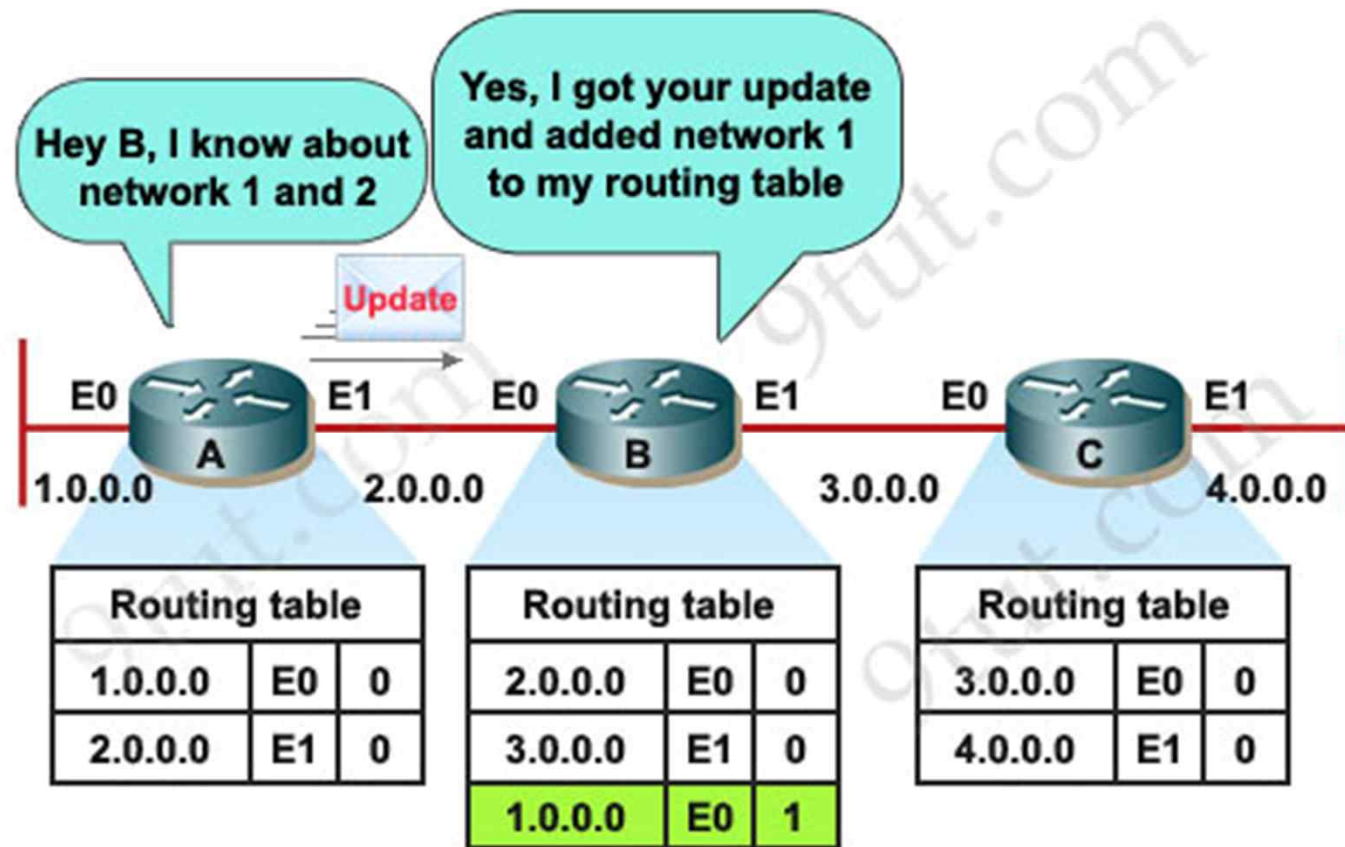
- RIP PROTOCOL
- 과제 안내

Routing Information Protocol

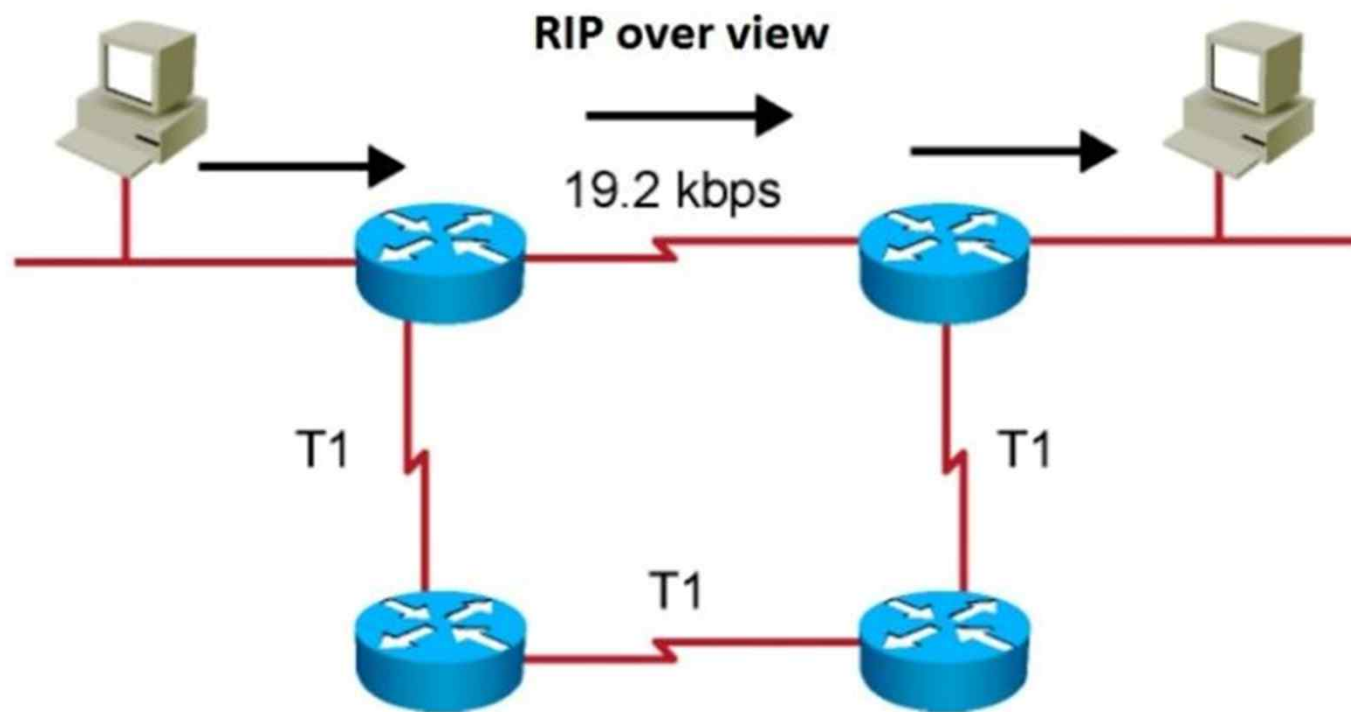
- 동적 라우팅(Dynamic Routing)은 네트워크 토폴로지의 변경에 따라 라우팅 테이블을 자동으로 조정하도록 라우터를 프로그래밍하는 네트워킹 기술
- 라우터 간에 라우팅 정보를 정기적으로 교환하는 방식으로 작동



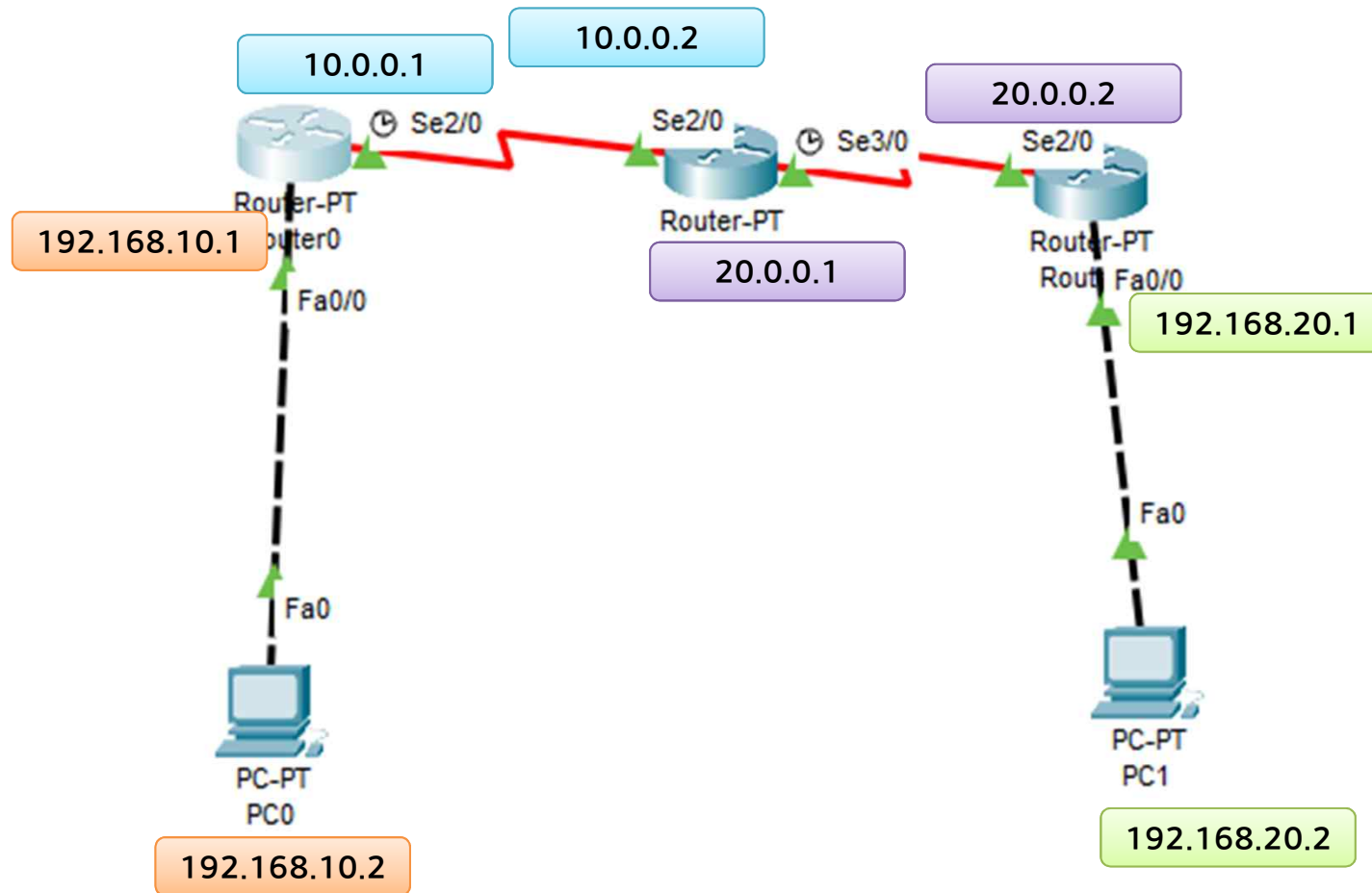
Rip 테이블 작성 방법



RIP 문제점



RIP 실습



RIP 실습

LEFT

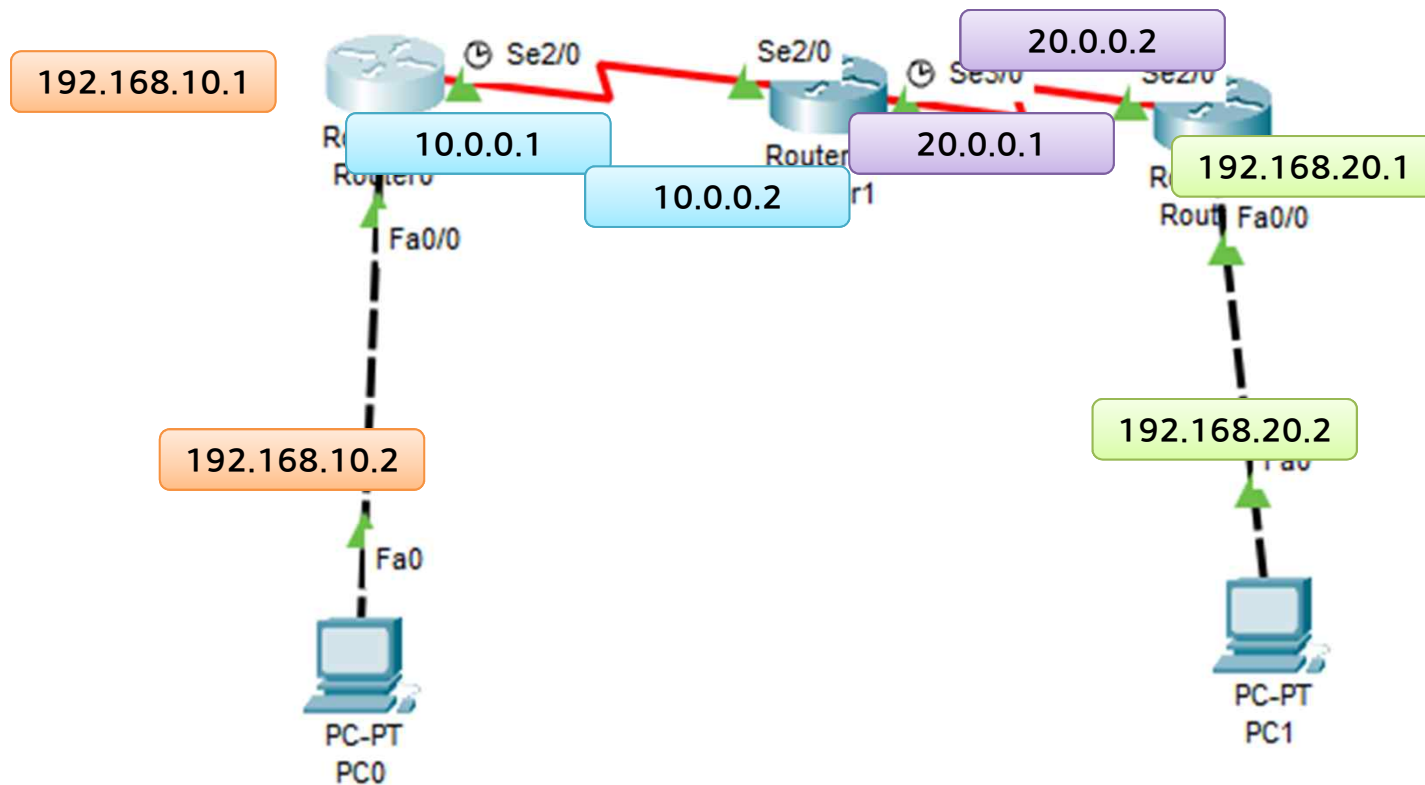
192.168.10.0	L	0
10.0.0.0	C	0

CENTER

10.0.0.0	C	0
20.0.0.0	C	0

RIGHT

192.168.20.0	L	0
20.0.0.0	C	0



RIP 실습

LEFT

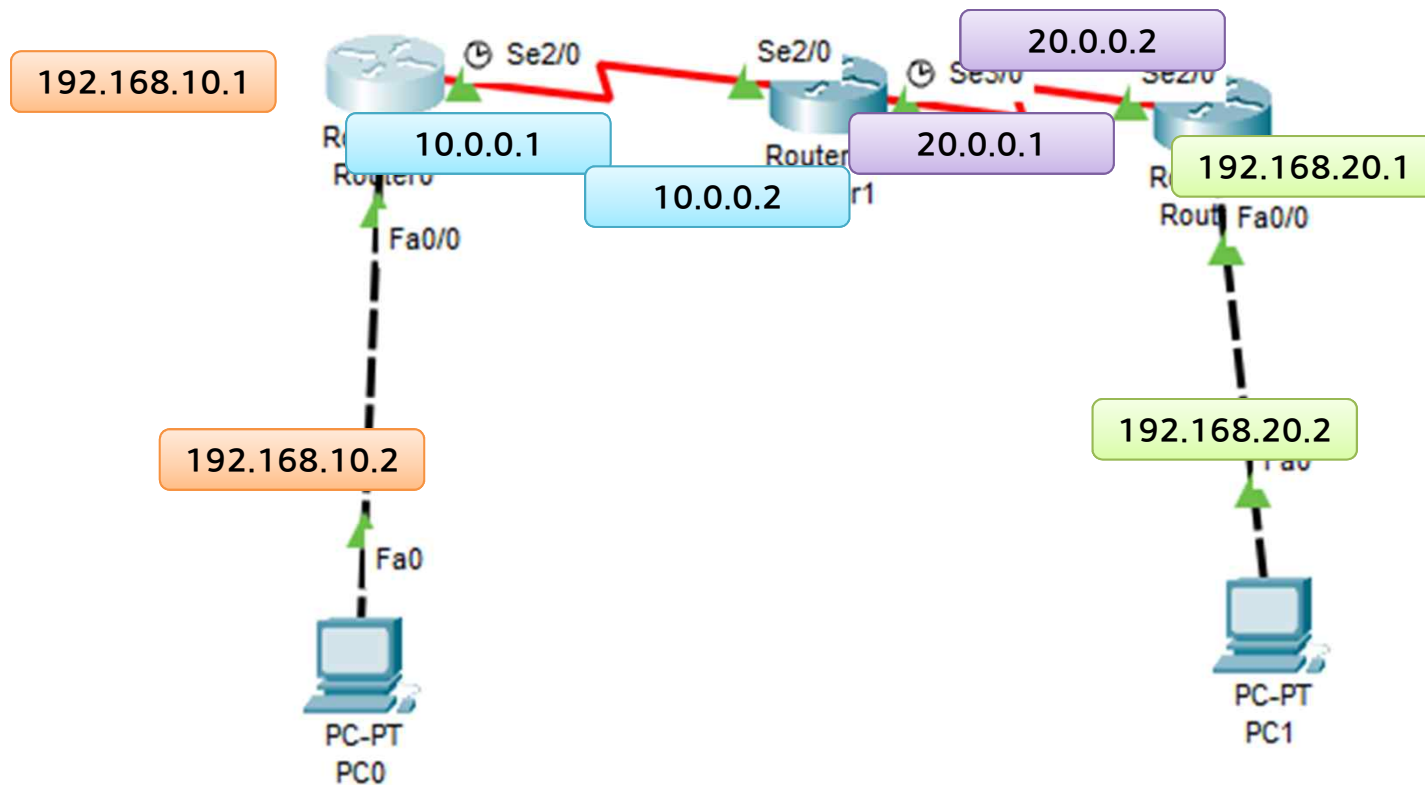
192.168.10.0	L	0
10.0.0.0	C	0
20.0.0.0	R	1
192.168.20.0	R	2

CENTER

10.0.0.0	C	0
20.0.0.0	C	0
192.168.10.0	R	1
192.168.20.0	R	1

RIGHT

192.168.20.0	L	0
20.0.0.0	C	0
10.0.0.0	R	1
192.168.10.0	R	2



RIP 실습

LEFT

```
LEFT(config)#ROUTER RIP
LEFT(config-router)# NETWORK 192.168.10.0
LEFT(config-router)# NETWORK 10.0.0.0
```

CENTER

C	0
C	0

RIGHT

192.168.20.0	L	0
20.0.0.0	C	0

192.168.

```
CENTER(config)#ROUTER RIP
CENTER(config-router)# NETWORK 10.0.0.0
CENTER(config-router)# NETWORK 20.0.0.0
```

192.168.20.1

Router Fa0/0

192.168.10.2

Fa0

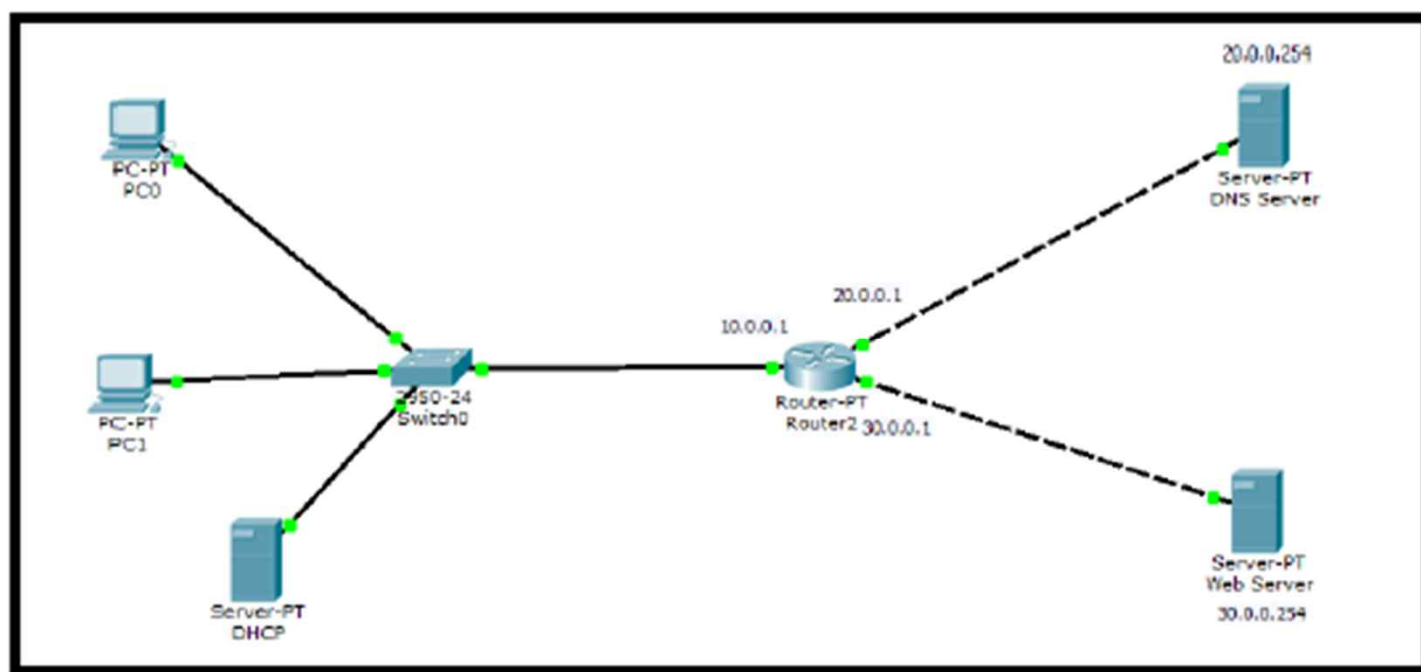


PC-PT
PC0

```
RIGHT(config)#ROUTER RIP
RIGHT(config-router)# NETWORK 192.168.20.0
RIGHT(config-router)# NETWORK 20.0.0.0
```

PC-PT
PC1

과제 1



과제 제출 화면

static 192.16.0.90

File Edit Options View Tools Extensions Window Help

Logical Physical x: 733, y: 665

PC-PT Dynamic 1

Laptop-PT Dynamic 2

PC-PT static 192.16.0.90

Switch2

Router

Server-PT DHCP SERVER 192.16.0.10

Server-PT www.catholic.ac.kr 192.16.0.20

Server-PT www.aaa.com 192.16.0.30

Server-PT DNS SERVER 192.16.0.1

PC-PT PC8 10.0.0.2

static 192.16.0.90

Physical Config Desktop Programming Attributes

Web Browser

URL http://www.aaa.com Go Stop

데이터통신

과제예제

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Top

Time: 00:02:15

Realtime Simulation

Scenario 0

New Delete

Toggle PDU List Window

Fire Last Status Source Destination Type Color Time(sec) Periodic Num Edit Delete

과제 2

- RIP 프로토콜 사용하여
- 최소 4개의 네트워크를 구성하여
- 모든 네트워크를 연결하시오.
- 과제 1처럼 WEB SERVER 연결까지