

[Router Setting]

```

Router> (사용자 모드)
Router>enable
Router#conf t (프리빌리지드 모드)
Router(config)#hostname LAB_A (구성 모드)
Router(config)#interface e0
Router(config-if)#ip address 210.192.172.1 255.255.255.0
Router(config-if)#no shutdown
Router(config-if)#exit
Router(config)#interface e1
Router(config-if)#ip address 210.192.173.1 255.255.255.0
Router(config-if)#no shutdown
Router(config-if)#exit
LAB_A(config)#enable secret class
LAB_A(config)#enable password cisco
LAB_A(config)#line vty 0 4
LAB_A(config-line)#login
LAB_A(config-line)#password cisco2
  
```

[Switch Setting]

```

>enable
#configure terminal
Enter configuration commands, one per line. End with CNTL/Z.
(config)#ip address 210.192.17x.x 255.255.255.0
(config)#ip default-gateway 210.192.17x.1
  
```

[Pc Setting]

```
C:>ip /ip 210.192.17x.x 255.255.255.0
```

```
C:>ip /dg 210.192.17x.1
```

(8대 모두 세팅..)

[Vlan Setting]

[switch 1]

```
(config)#vtp domain (ho) [vtp domain 도메인명]
```

```
(config)#vtp server
```

```
(config)#vlan 2 [Server로 설정된 Switch 에서만]
```

```
(config)#vlan 3 [Server로 설정된 Switch 에서만]
```

```
(config)#interface ethernet0/x
```

```
(config-if)#vlan-membership static x
```

```
(config-if)#no shutdown
```

```
(config-if)#exit
```

```
(config)#interface fastethernet0/26
```

```
(config-if)#trunk on
```

```
(config-if)#no shutdown
```

[Switch 2]

```
(config)#vtp domain (ho) [vtp domain 도메인명]
```

```
(config)#vtp client
```

```
(config)#interface ethernet0/x
```

```
(config-if)#vlan-membership static x
```

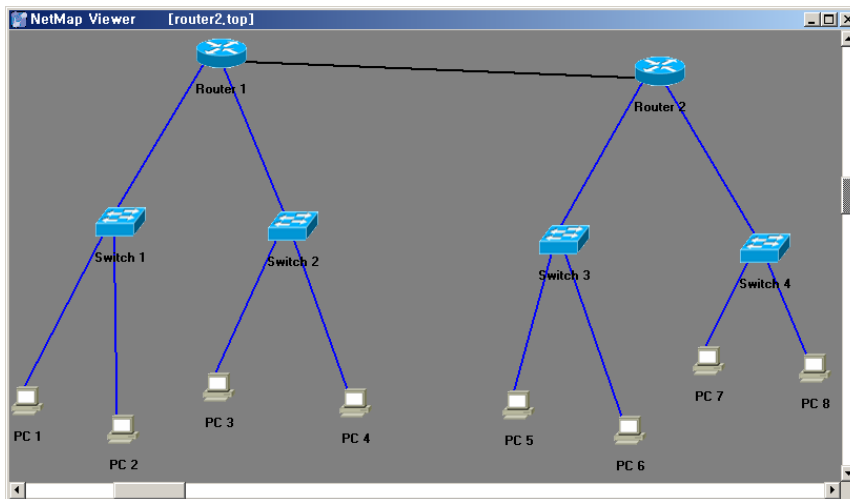
```
(config-if)#no shutdown
```

```
(config-if)#exit
```

```
(config)#interface fastethernet0/27
```

```
(config-if)#trunk on
```

```
(config-if)#no shutdown
```



[Router Setting]

```

Router>enable
Router#configure terminal
Router(config)#interface serial 0
Router(config-if)#ip address 210.192.168.1 255.255.255.0
Router(config-if)#clock rate 9600
Router(config-if)#no shutdown
Router(config-if)#exit
Router(config)#interface e0
Router(config-if)#ip address 210.192.172.1 255.255.255.0
Router(config-if)#no shutdown
Router(config-if)#exit
Router(config)#interface ethernet 1
Router(config-if)#ip address 210.192.173.1 255.255.255.0
Router(config-if)#no shutdown
Router(config-if)#exit
Router(config)#router rip
Router(config-router)#network 210.192.168.0
Router(config-router)#network 210.192.172.0
Router(config-router)#network 210.192.173.0
Router(config-router)#exit
Router(config)#hostname LAB_A
LAB_A(config)#enable secret class
LAB_A(config)#enable password cisco
LAB_A(config)#line vty 0 4
LAB_A(config-line)#password cisco2
LAB_A(config-line)#login
LAB_A(config-line)#exit

```

[Router 2 Setting]

```
Router>enable
Router#configure terminal
Enter configuration commands, one per line. End with CNTL/Z.
Router(config)#interface s1
Router(config-if)#ip address 210.192.168.2 255.255.255.0
Router(config-if)#no shutdown
Router(config-if)#exit
Router(config)#interface ethernet0
Router(config-if)#ip address 210.192.174.1 255.255.255.0
Router(config-if)#no shutdown
Router(config-if)#exit
Router(config)#interface ethernet1
Router(config-if)#ip address 210.192.175.1 255.255.255.0
Router(config-if)#no shutdown
Router(config-if)#exit
Router(config)#router rip
Router(config-router)#network 210.192.168.0
Router(config-router)#network 210.192.174.0
Router(config-router)#network 210.192.175.0
Router(config-router)#exit
Router(config)#hostname LAB_B
LAB_B(config)#enable secret class
LAB_B(config)#enable password cisco
LAB_B(config)#line vty 0 4
LAB_B(config-line)#login
LAB_B(config-line)#password cisco2
LAB_B(config-line)#exit
```

[Switch Setting]

```
>enable
#configure terminal
(config)#ip address 210.192.17x.x 255.255.255.0
(config)#ip default-gateway 210.192.17x.1
```

[Pc Setting]

```
C:>ip /ip 210.192.17x.x 255.255.255.0
```

```
C:>ip /dg 210.192.17x.1
```

[Network Access (standard)]

조 건

- PC3을 제외한 210.192.173.0 네트워크의 모든 PC는 PC1에 접속할 수 있다.
- PC5를 제외한 210.192.174.0 네트워크의 모든 PC는 PC1에 접속할 수 있다.
- 나머지 인터넷의 모든 PC는 PC1에 접속할 수 없다.

```
LAB_A#configure terminal
```

```
Enter configuration commands, one per line. End with CNTL/Z.
```

```
LAB_A(config)#access-list 3 deny 210.192.173.0 0.0.0.255
```

```
LAB_A(config)#no access-list 3 deny 210.192.173.0 0.0.0.255
```

```
LAB_A(config)#access-list 3 deny 210.192.173.3 0.0.0.255
```

```
LAB_A(config)#access-list 3 deny 210.192.174.3 0.0.0.255
```

```
LAB_A(config)#access-list 3 permit 210.192.173.0 0.0.0.255
```

```
LAB_A(config)#access-list 3 permit 210.192.174.0 0.0.0.255
```

```
LAB_A(config)#^Z
```

```
LAB_A#show access-lists
```

```
Standard IP access list 3
```

```
3 deny 210.192.173.3 0.0.0.255 (0 matches)
```

```
3 deny 210.192.174.3 0.0.0.255 (0 matches)
```

```
3 permit 210.192.173.0 0.0.0.255 (0 matches)
```

```
3 permit 210.192.174.0 0.0.0.255 (0 matches)
```

```
LAB_A#configure terminal
```

```
Enter configuration commands, one per line. End with CNTL/Z.
```

```
LAB_A(config)#interface e0
```

```
LAB_A(config-if)#ip access-group 3 out
```

[Network Access (Ex)]

조 건

- 210.192.172.0 255.255.255.0 (Destination) 네트워크에 있는 호스트들에 대해서 210.192.173.0 255.255.255.0 (Source) 에 있는 호스트들이 telnet을 못하도록 제한한다.
- 나머지 모든 곳은 210.192.174.0 255.255.255.0 네트워크로 들어오는 트래픽을 허용한다.

Press Enter to Start

```
Lab_A#conf t
```

Enter configuration commands, one per line. End with CNTL/Z.

```
Lab_A(config)#access-list 101 deny tcp 210.192.173.0 0.0.0.255 210.192.172.0 0.0.0.255 eq telnet
```

```
Lab_A(config)#access-list 101 permit ip any any
```

```
Lab_A(config)#^Z
```

```
%SYS-5-CONFIG_I: Configured from console by console
```

```
Lab_A#sh access-lists
```

```
Extended IP access list 101
```

```
deny tcp 210.192.173.0 0.0.0.255 210.192.172.0 0.0.0.255 eq telnet (0 matches)
```

```
permit ip any any (0 matches)
```

```
Lab_A#configure terminal
```

Enter configuration commands, one per line. End with CNTL/Z.

```
Lab_A(config)#inter e1
```

```
Lab_A(config-if)#ip access-group 101 in
```

```
Lab_A(config-if)#^Z
```

```
%SYS-5-CONFIG_I: Configured from console by console
```