

REPORT



과 목 :	인터넷이론및실습
제출일자 :	2022. 05. 03.
담당교수 :	황 성 호
학 과 :	컴퓨터공학과
학 번 :	201720970
이 름 :	권대한

실습 구성: RIP pdf 그림 8-24를 토대로 실습 진행하였으며, 1번 라우터의 구성을 맡았음.

1. VLSM 설정

COM3 - PuTTY

```
R1#show running-config
Building configuration...

Current configuration : 2842 bytes
!
! Last configuration change at 12:52:17 UTC Mon May 4 2020
!
version 15.2
no service pad
service timestamps debug datetime msec
service timestamps log datetime msec
no service password-encryption
service compress-config
!
hostname R1
!
boot-start-marker
boot-end-marker
!
!
vrf definition Mgmt-vrf
!
address-family ipv4
exit-address-family
!
address-family ipv6
exit-address-family
!
!
no aaa new-model
switch 1 provision ws-c3650-24ts
!
!
!
!
!
ip routing
!
!
!
qos queue-softmax-multiplier 100
vtp domain ice
vtp mode transparent
!
!
diagnostic bootup level minimal
spanning-tree mode pvst
spanning-tree extend system-id
hw-switch switch 1 logging onboard message level 3
!
redundancy
mode sso
!
!
vlan 1
tb-vlan1 1002
tb-vlan2 1003
!
vlan 1002
tb-vlan1 1
```

```
!  
vlan 1003  
  tb-vlan1 1  
  tb-vlan2 1002  
  parent 1005  
!  
!  
class-map match-any non-client-nrt-class  
!  
policy-map port_child_policy  
  class non-client-nrt-class  
    bandwidth remaining ratio 10  
!  
!  
!  
!  
!  
!  
!  
!  
!  
!  
!  
!  
!  
interface GigabitEthernet0/0  
  vrf forwarding Mgmt-vrf  
  no ip address  
  negotiation auto  
!  
interface GigabitEthernet1/0/1  
  no switchport  
  ip address 211.114.122.9 255.255.255.248  
!  
interface GigabitEthernet1/0/2  
  no switchport  
  ip address 211.114.122.37 255.255.255.252  
!  
interface GigabitEthernet1/0/3  
  no switchport  
  ip address 211.114.122.33 255.255.255.252  
!  
interface GigabitEthernet1/0/4  
!  
interface GigabitEthernet1/0/5  
!  
interface GigabitEthernet1/0/6  
!  
interface GigabitEthernet1/0/7  
!  
interface GigabitEthernet1/0/8  
!  
interface GigabitEthernet1/0/9  
!  
interface GigabitEthernet1/0/10  
!  
interface GigabitEthernet1/0/11  
!  
interface GigabitEthernet1/0/12
```

COM3 - PuTTY

```
!  
interface Vlan1  
  no ip address  
  shutdown  
!  
router rip  
  version 2  
  network 211.114.122.0  
!  
ip forward-protocol nd  
ip http server  
ip http authentication local  
ip http secure-server  
!  
!  
!  
!  
!  
!  
line con 0  
  stopbits 1  
line aux 0  
line vty 5 15  
!  
wsma agent exec  
  profile httplistener  
  profile httpslistener  
!  
wsma agent config  
  profile httplistener  
  profile httpslistener  
!  
wsma agent filesys  
  profile httplistener  
  profile httpslistener  
!  
wsma agent notify  
  profile httplistener  
  profile httpslistener  
!  
!  
wsma profile listener httplistener  
  transport http  
!  
wsma profile listener httpslistener  
  transport https  
!  
ap group default-group  
end  
R1#
```

<VLSM Raw show-running config>

ip classless 명령을 입력하였으나, show-running config에는 보이지 않았습니다.

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hostname R1

!

boot-start-marker

boot-end-marker

!

!

vrf definition Mgmt-vrf

!

address-family ipv4

exit-address-family

!

address-family ipv6

exit-address-family

!

!

no aaa new-model

switch 1 provision ws-c3650-24ts

!

!

!

!

!

ip routing

!

!

!

qos queue-softmax-multiplier 100

vtp domain ice

vtp mode transparent

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!

diagnostic bootup level minimal

spanning-tree mode pvst

spanning-tree extend system-id

hw-switch switch 1 logging onboard message level 3

!

redundancy

mode sso

!

!

vlan 1

tb-vlan1 1002

tb-vlan2 1003

!

vlan 1002

tb-vlan1 1

tb-vlan2 1003

!

vlan 1003

tb-vlan1 1

tb-vlan2 1002

parent 1005

!

!

class-map match-any non-client-nrt-class

!

policy-map port_child_policy

class non-client-nrt-class

bandwidth remaining ratio 10

!

!

!

!

!

!

!

!

!

!

!

!

!

!

interface GigabitEthernet0/0

vrf forwarding Mgmt-vrf

no ip address

negotiation auto

!

interface GigabitEthernet1/0/1

no switchport

ip address 211.114.122.9 255.255.255.248

!

interface GigabitEthernet1/0/2

no switchport

ip address 211.114.122.37 255.255.255.252

!

interface GigabitEthernet1/0/3

no switchport


```
ip address 211.114.122.33 255.255.255.252
```

```
!
```

```
interface GigabitEthernet1/0/4
```

```
!
```

```
interface GigabitEthernet1/0/5
```

```
!
```

```
interface GigabitEthernet1/0/6
```

```
!
```

```
interface GigabitEthernet1/0/7
```

```
!
```

```
interface GigabitEthernet1/0/8
```

```
!
```

```
interface GigabitEthernet1/0/9
```

```
!
```

```
interface GigabitEthernet1/0/10
```

```
!
```

```
interface GigabitEthernet1/0/11
```

```
!
```

```
interface GigabitEthernet1/0/12
```

```
!
```

```
interface GigabitEthernet1/0/13
```

```
!
```

```
interface GigabitEthernet1/0/14
```

```
!
```

```
interface GigabitEthernet1/0/15
```

```
!
```

interface GigabitEthernet1/0/16

!

interface GigabitEthernet1/0/17

!

interface GigabitEthernet1/0/18

!

interface GigabitEthernet1/0/19

!

interface GigabitEthernet1/0/20

!

interface GigabitEthernet1/0/21

!

interface GigabitEthernet1/0/22

!

interface GigabitEthernet1/0/23

!

interface GigabitEthernet1/0/24

!

interface GigabitEthernet1/1/1

!

interface GigabitEthernet1/1/2

!

interface GigabitEthernet1/1/3

!

interface GigabitEthernet1/1/4

!

```
interface Vlan1

  no ip address

  shutdown

!

router rip

  version 2

  network 211.114.122.0

!

ip forward-protocol nd

ip http server

ip http authentication local

ip http secure-server

!

!

!

!

!

!

!

line con 0

  stopbits 1

line aux 0

line vty 5 15

!

wsma agent exec

  profile httplistener
```

profile httpslistener

!

wsma agent config

profile httplistener

profile httpslistener

!

wsma agent filesys

profile httplistener

profile httpslistener

!

wsma agent notify

profile httplistener

profile httpslistener

!

!

wsma profile listener httplistener

transport http

!

wsma profile listener httpslistener

transport https

!

ap group default-group

end