

NAT (Network Address Translation)

NAT

- Static NAT(1:1)
 - IP IP
- Dynamic NAT(m:n)
 - IP IP m:n
- PAT (Port Address Translation)
 - IP

NAT

DNAT

NAT 가 () 가

VPN

ISAKMP (Internet Security Association & Key Management Protocol)

VPN SA(Security Association) IETF

SSL VPN

가

```
Switch# show portsecurity address
```

VLAN

- switch# show vlan

VLAN	NAME	Status	Ports
----	----	-----	-----
1	default	active	Gi0/1, Gi0/2, Gi0/17

VLAN

- switch# conf t
- switch(config)# vlan 2 → vlan 2
- switch(config-vlan)# vlan 2 name boanin → 'boanin'

VLAN	NAME	Status	Ports
----	----	-----	-----
1	default	active	Gi0/1, Gi0/2, Gi0/17
2	boanin	active	

- # clock set hh:mm:ss

- router# conf t
- router(config)# line console 0 →
- router(config)# login
- router(config)# password boanin → boanin

AUX, VTY

- router(config)# line aux 0 → AUX
- router(config)# login
- router(config)# password boanin → boanin

ACL

- router(config)# access-list 16 permit 192.168.0.0 0.0.255.255

```
router(config)# access-list 16 permit 192.168.0.0 0.0.255.255
```

```
router(config)# access-list 16 deny any
router(config)# interface FastEthernet0/0
router(config-if)# ip access-group 16 out
```

(Static Routing)

- 가
-

(Default Route)

-
- R1(config)# ip default-network 192.168.10.0

- ID VLAN . VLAN ID
(Frame Tagging)

*

* CSMA/CD

IP

MAC

	IP	MAC
layer	Layer3 ()	Layer2()
	32 bit	48 bit
	. 가 .	MAC 가 가

ARP

IP	MAC	IP	MAC	IP	MAC
	MAC				
	MAC				
Protocol)			ARP(Address Resolution		

TCP vs UDP

TCP(Transmission Control Protocol)

* Seq No. Ack No. *

UDP(User Datagram Protocol)

* data , * TCP UDP *

* PING : Packet Internet Groper * TTL : Time To Live * IPS : Intrusion Detection System * VPN : Virtual Private Network

VLAN

* 가 * VLAN . *

TCP/IP OSI

* . * 가 . * / . *

* TCP/IP OSI . * TCP/IP OSI .

IPv4 vs IPv6

IPv4

* TCP/IP 가 IP . * 32 bit . * byte 0.0.0.0 ~
 . byte . * 1 byte 가 0~255 IP
255.255.255.255 .

IPv6

* 128 bit . 2 128 가 . * 16 bit 8
 : () . *
가 가 . *
가 가 . *

(AS: Autonomous System)

* ISP 가가 *
 AS 가 * AS

RIP

RIP

IPSEC

가 IP header .
• : IP , (Payload)
• : IP (Payload) IP

Plugin Backlinks:

From:

<http://jace.link/> - **Various Ways**

Permanent link:

<http://jace.link/open/network>

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