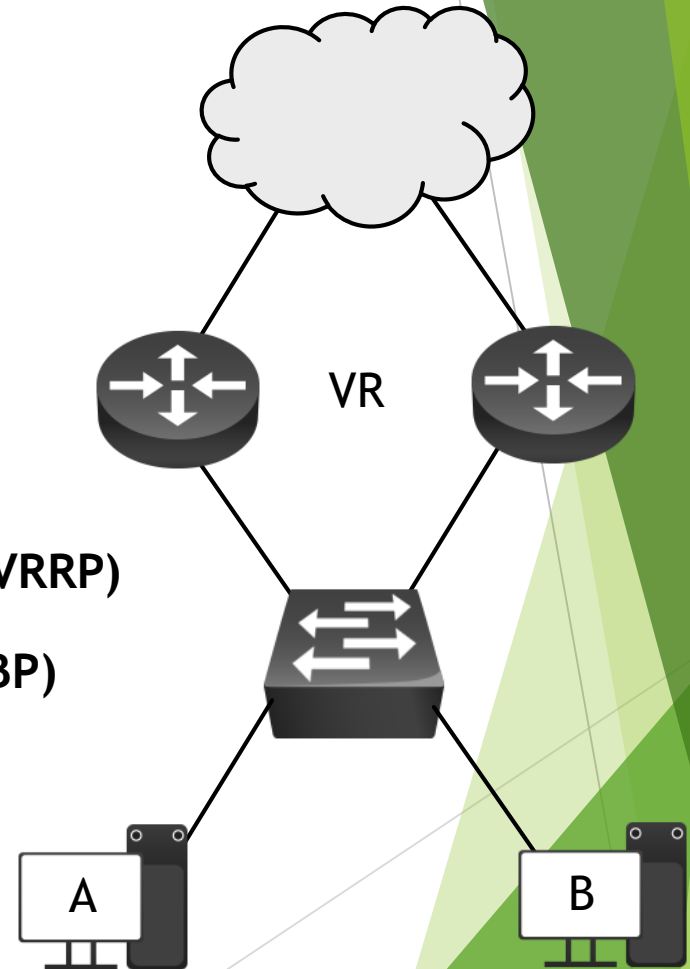# FHRP

FHRP이란

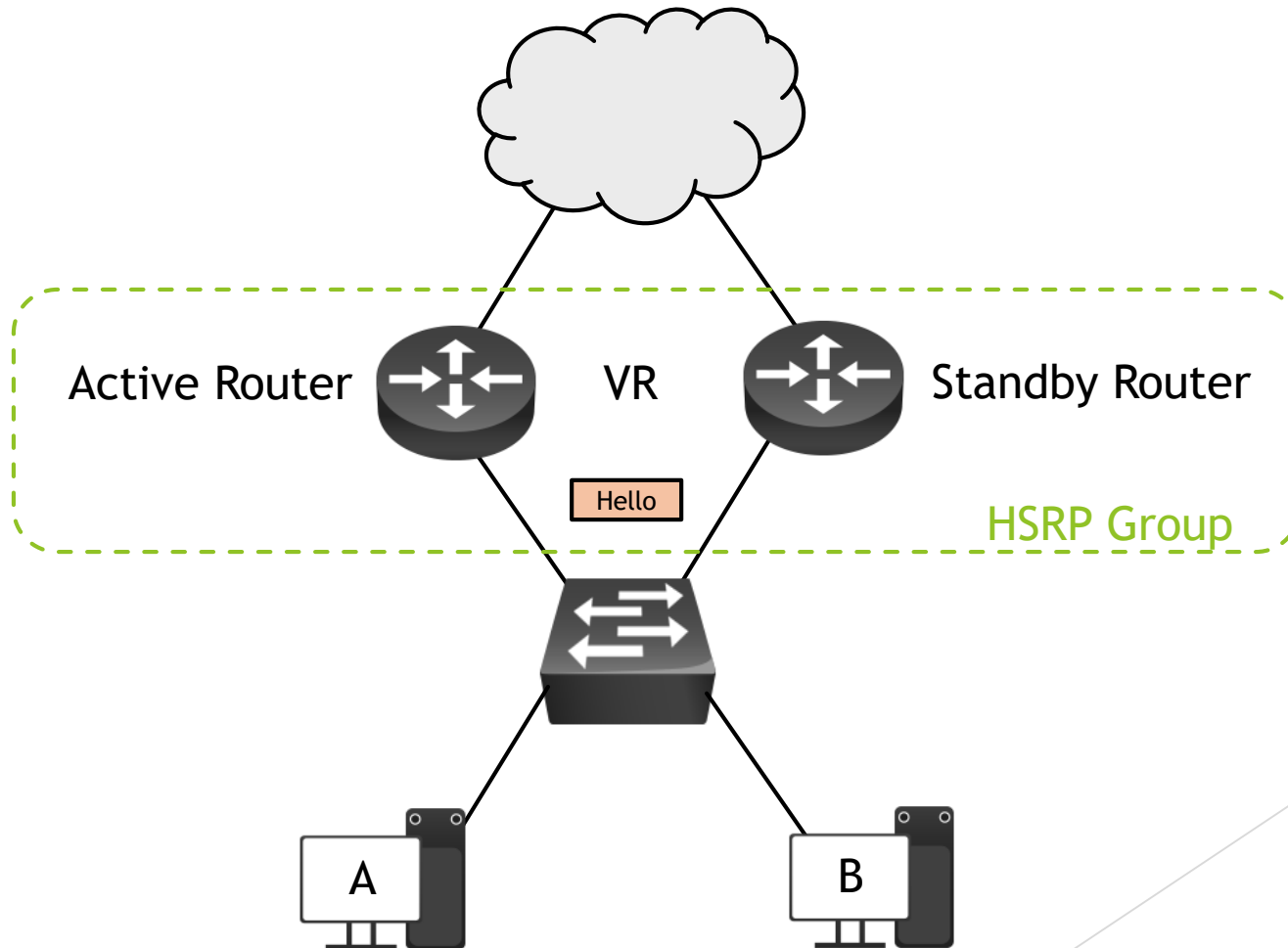✓ **Gateway를 이중화 하기 위한 기술**

✓ **FHRP의 종류**

    ✓ **Hot Standby Router Protocol (HSRP)**

    ✓ **Virtual Router Redundancy Protocol (VRRP)**

    ✓ **Gateway Load Balancing Protocol (GLBP)**

VR

A

B

HSRP 동작

Active Router — VR — Standby Router

Hello

HSRP Group

A   B

HSRP 설정

1. HSRP 설정 (Active Router)

    R1(config)# interface g0/0
    R1(config-if)# ip address 192.168.1.253 255.255.0.0
    R1(config-if)# standby 1 ip 192.168.1.1
    R1(config-if)# standby 1 priority 200
    R1(config-if)# standby 1 preempt

2. HSRP 설정 (Standby Router)

    R2(config)# interface g0/0
    R2(config-if)# ip address 192.168.1.254.255.255.255.0
    R2(config-if)# standby 1 ip 192.168.1.1

HSRP 확인(Active Router)

```
R1# show standby
GigabitEthernet0/0 - Group 1
  State is Active
    2 state changes, last state change 00:11:51
  Virtual IP address is 192.168.1.1
  Active virtual MAC address is 0000.0c07.ac01
   Local virtual MAC address is 0000.0c07.ac01 (v1 default)
  Hello time 3 sec, hold time 10 sec
   Next hello sent in 1.232 secs
  Preemption enabled
  Active router is local
  Standby router is 192.168.1.254, priority 100 (expires in 9.808 sec)
  Priority 200 (configured 200)
  Group name is "hsrp-Gi0/0-1" (default)
R1# show standby brief
                 P indicates configured to preempt.
                 |
Interface    Grp Pri  P  State  Active      Standby       Virtual IP
Gi0/0          1   200     Active  local  192.168.1.254  192.168.1.1
```

HSRP 확인(Standby Router)

```
R2# show standby
GigabitEthernet0/0 - Group 1
  State is Standby
    1 state change, last state change 00:15:23
  Virtual IP address is 192.168.1.1
  Active virtual MAC address is 0000.0c07.ac01
    Local virtual MAC address is 0000.0c07.ac01 (v1 default)
  Hello time 3 sec, hold time 10 sec
    Next hello sent in 1.008 secs
  Preemption disabled
  Active router is 192.168.1.253, priority 200 (expires in 8.624 sec)
  Standby router is local
  Priority 100 (default 100)
  Group name is "hsrp-Gi0/0-1" (default)
R2# show standby brief
                 P  indicates configured to preempt.
                 |
Interface    Grp Pri  P  State       Active          Standby        Virtual IP
Gi0/0         1   100    Standby  192.168.1.253    local          192.168.1.1
```