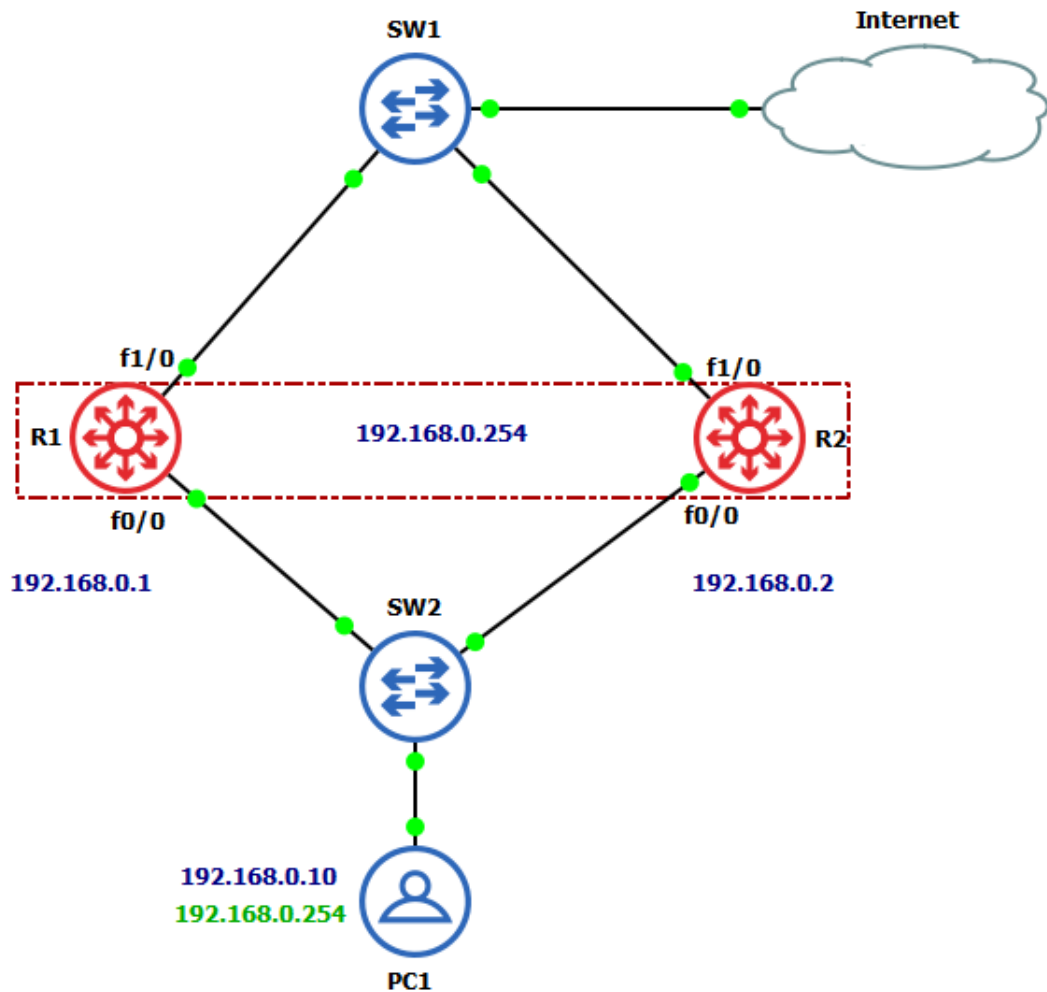


## HSRP Lab Time:



### R1 Configuration:

```
R1(config)#interface FastEthernet0/0  
R1(config-if)# ip address 192.168.0.1 255.255.255.0  
R1(config-if)# no shutdown
```

```
R1(config)#interface FastEthernet1/0  
R1(config-if)# ip address dhcp  
R1(config-if)# no shutdown
```

### R2 Configuration:

```
R2(config)#interface FastEthernet0/0  
R2(config-if)# ip address 192.168.0.2 255.255.255.0  
R2(config-if)# no shutdown
```

```
R1(config)#interface FastEthernet1/0  
R1(config-if)# ip address dhcp  
R1(config-if)# no shutdown
```

```

#
# This is a sample network config uncomment lines to configure the network
#

# Static config for eth0
auto eth0
iface eth0 inet static
    address 192.168.0.10
    netmask 255.255.255.0
    gateway 192.168.0.254
    up echo nameserver 8.8.8.8 > /etc/resolv.conf

# DHCP config for eth0
# auto eth0
# iface eth0 inet dhcp

```

### R1 HSRP Configuration

```

R1(config)#interface FastEthernet 0/0
R1(config-if)#standby 1 ip 192.168.0.254
R1(config-if)#standby 1 name Group1
R1(config-if)#standby 1 authentication text abc
R1(config-if)#standby 1 authentication md5 key-string abc
R1(config-if)#standby 1 timers 2 3
R1(config-if)#standby 1 priority 110
R1(config-if)#standby 1 preempt
R1(config-if)#standby 1 preempt delay minimum 60
R1(config-if)#standby 1 track fastEthernet 1/0

```

```
R1#show standby
```

```
R1#show standby brief
```

```
R1#debug standby packets
```

```
R1#debug standby events
```

### R2 HSRP Configuration

```

R2(config)#interface FastEthernet 0/0
R2(config-if)#standby 1 ip 192.168.0.254
R2(config-if)#standby 1 name Group1
R1(config-if)#standby 1 timers 2 3
R2(config-if)#standby 1 authentication text abc
R2(config-if)#standby 1 authentication md5 key-string abc

```

```
R2#show standby
```

```
R2#show standby brief
```

```
R2#show standby neighbors
```

```
R2#debug standby packets
```

```
R2#debug standby events
```

```

R1#show standby
FastEthernet0/0 - Group 1
  State is Active
    2 state changes, last state change 00:01:00
  Virtual IP address is 192.168.0.254
  Active virtual MAC address is 0000.0c07.ac01 (MAC In Use)
  Local virtual MAC address is 0000.0c07.ac01 (v1 default)
  Hello time 3 sec, hold time 10 sec
  Next hello sent in 1.632 secs
  Preemption disabled
  Active router is local
  Standby router is 192.168.0.2, priority 100 (expires in 9.504 sec)
  Priority 100 (default 100)
  Group name is "hsrp-Fa0/0-1" (default)

```

```

R1#show standby
FastEthernet0/0 - Group 1
  State is Standby
    7 state changes, last state change 00:01:45
  Virtual IP address is 192.168.0.254
  Active virtual MAC address is 0000.0c07.ac01 (MAC Not In Use)
  Local virtual MAC address is 0000.0c07.ac01 (v1 default)
  Hello time 3 sec, hold time 10 sec
  Next hello sent in 0.752 secs
  Authentication MD5, key-string
  Preemption disabled
  Active router is 192.168.0.2, priority 100 (expires in 8.432 sec)
  Standby router is local
  Priority 100 (default 100)
  Group name is "hsrp-Fa0/0-1" (default)

```

```

R1#show standby
FastEthernet0/0 - Group 1
  State is Standby
    7 state changes, last state change 00:04:24
  Virtual IP address is 192.168.0.254
  Active virtual MAC address is 0000.0c07.ac01 (MAC Not In Use)
  Local virtual MAC address is 0000.0c07.ac01 (v1 default)
  Hello time 3 sec (cfgd 1 sec), hold time 10 sec (cfgd 3 sec)
  Next hello sent in 1.424 secs
  Authentication MD5, key-string
  Preemption disabled
  Active router is 192.168.0.2, priority 100 (expires in 10.512 sec)
  Standby router is local
  Priority 100 (default 100)
  Group name is "hsrp-Fa0/0-1" (default)

```

```

R1#show standby brief
          P indicates configured to preempt.
          |
Interface  Grp  Pri  P  State  Active        Standby        Virtual IP
Fa0/0      1    100  |  Standby 192.168.0.2   local          192.168.0.254

```