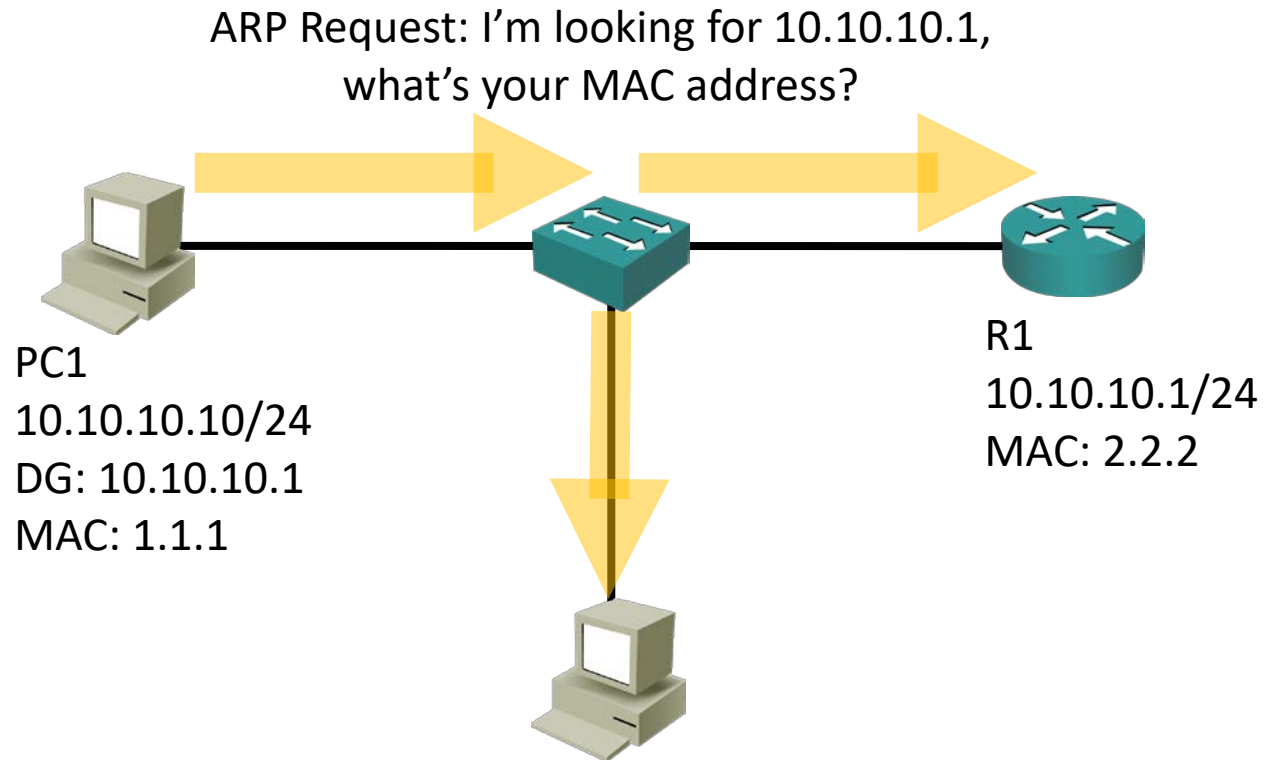
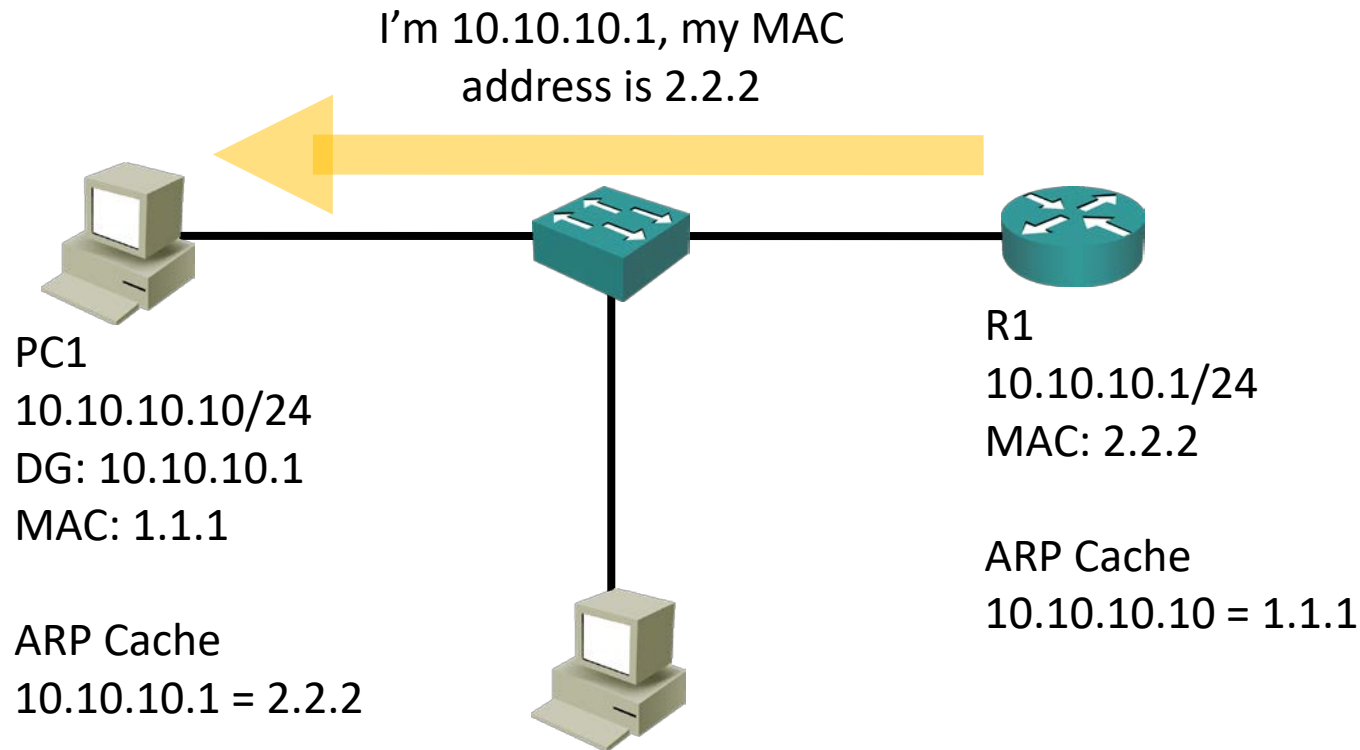


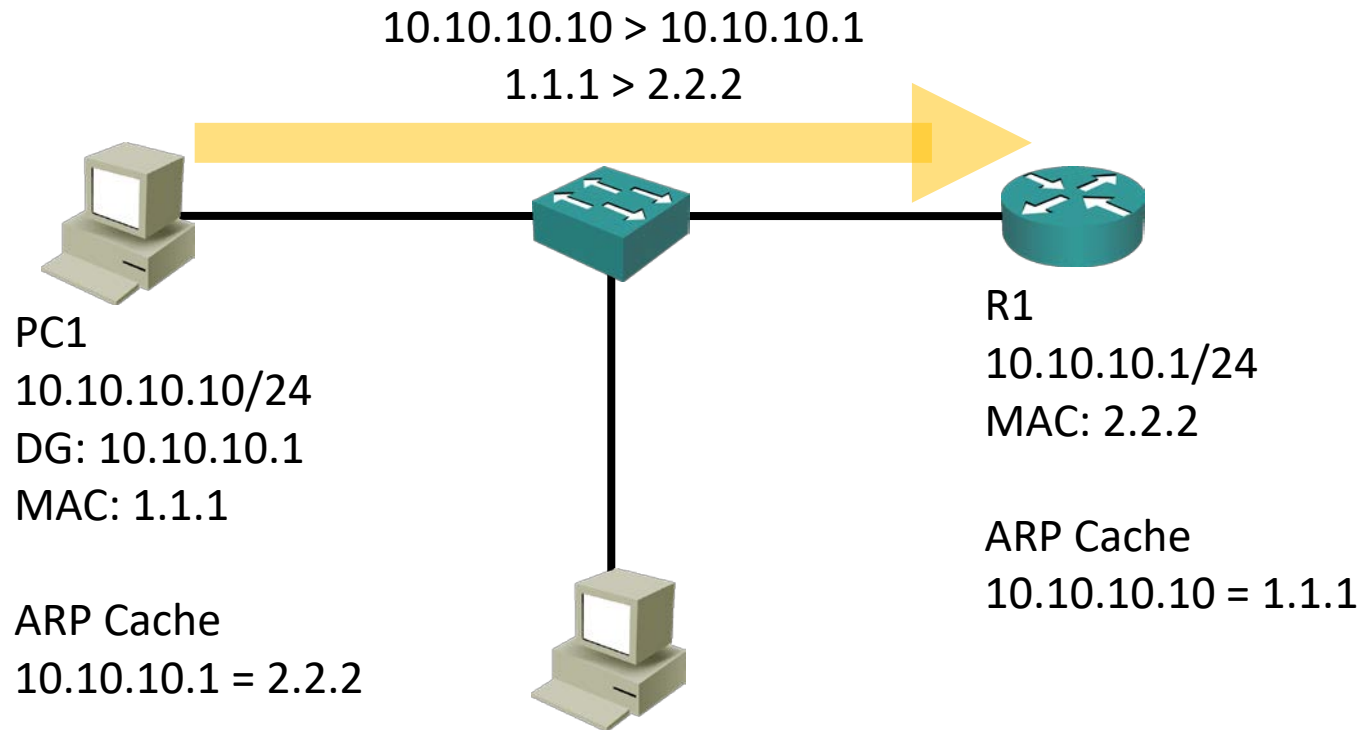
# ARP Address Resolution Protocol



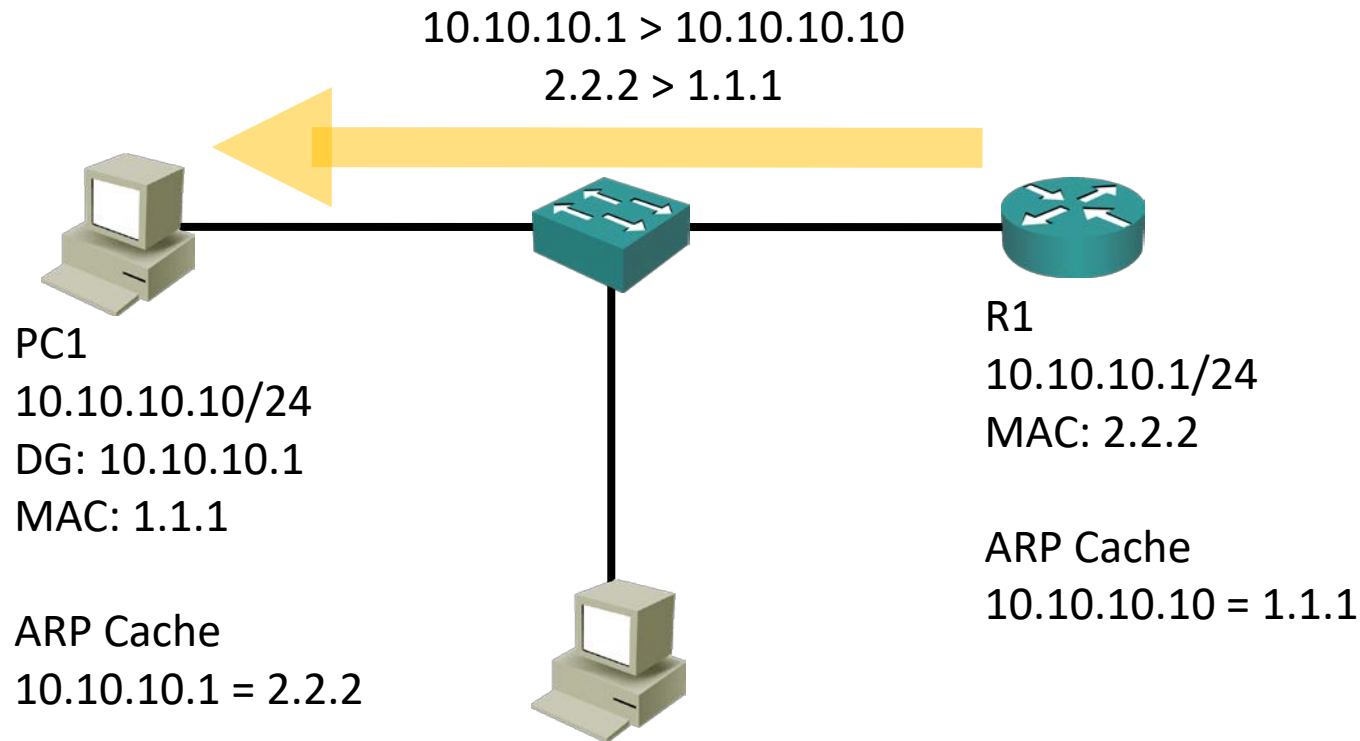
# ARP Address Resolution Protocol



# ARP Address Resolution Protocol

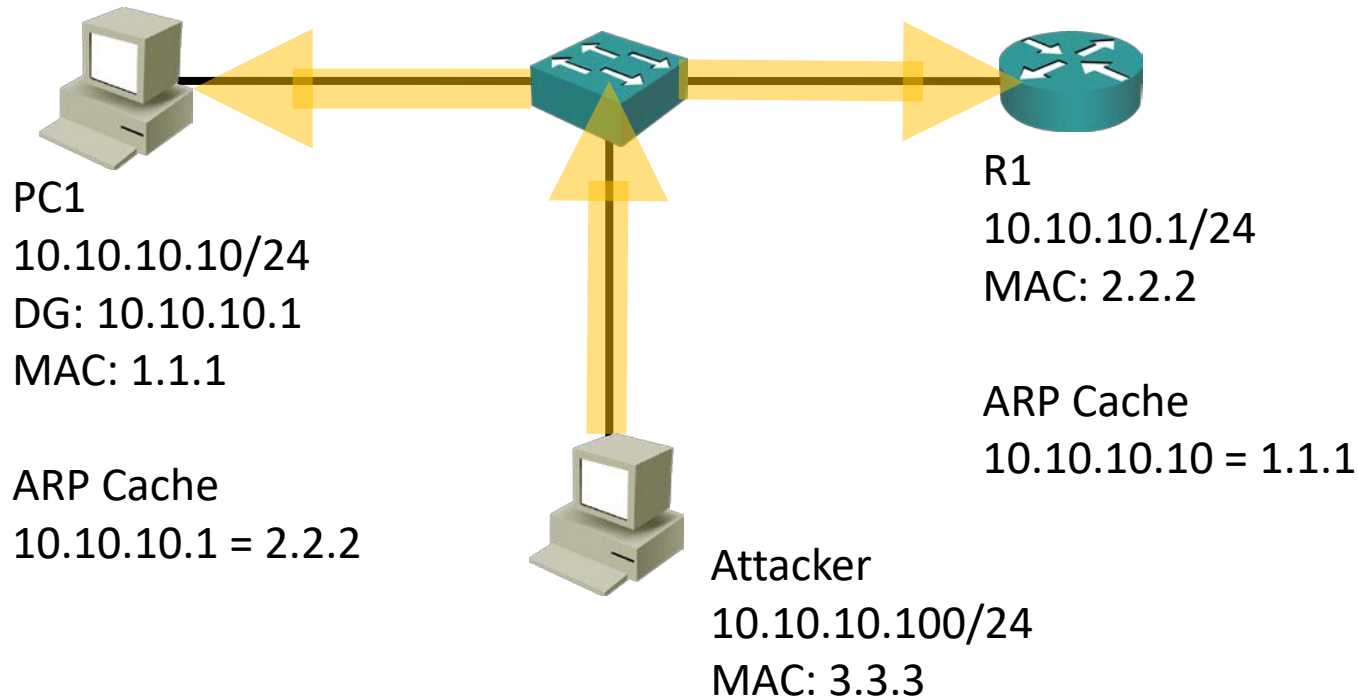


# ARP Address Resolution Protocol

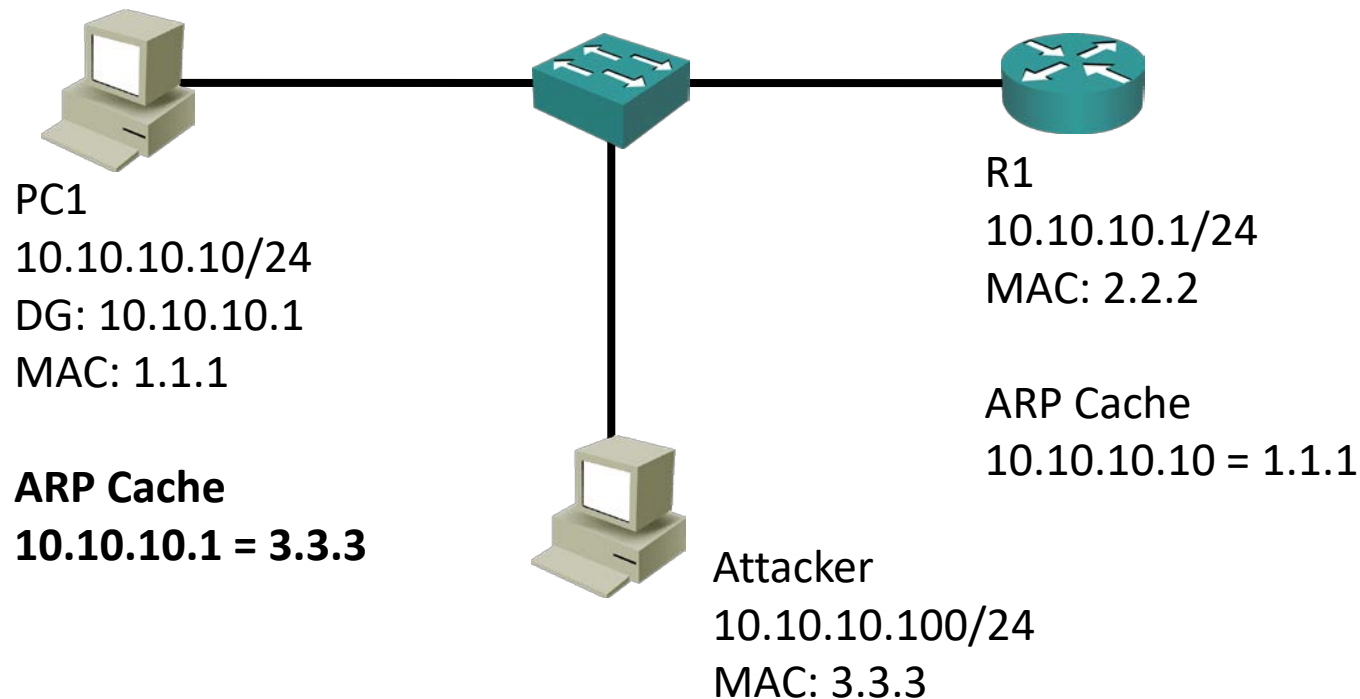


# Man in the Middle ARP Spoofing

Gratuitous ARP: 'I am 10.10.10.1, my MAC address is 3.3.3'

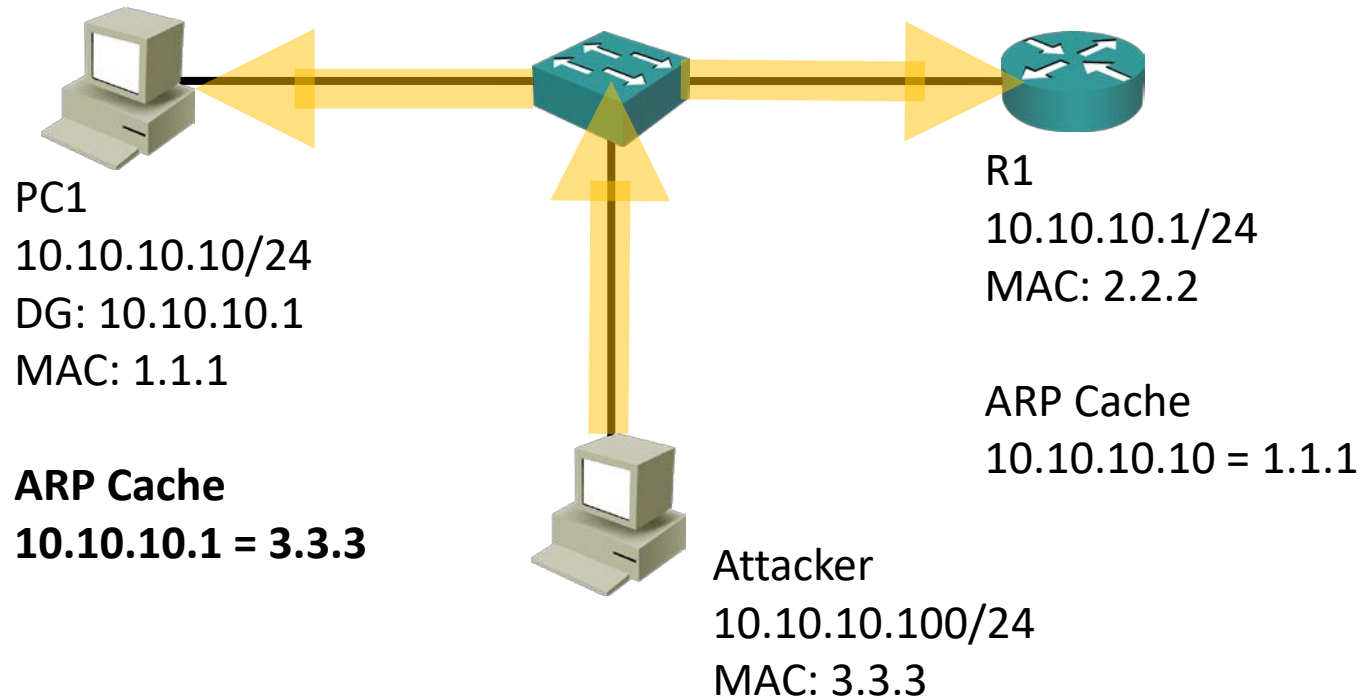


# Man in the Middle ARP Spoofing

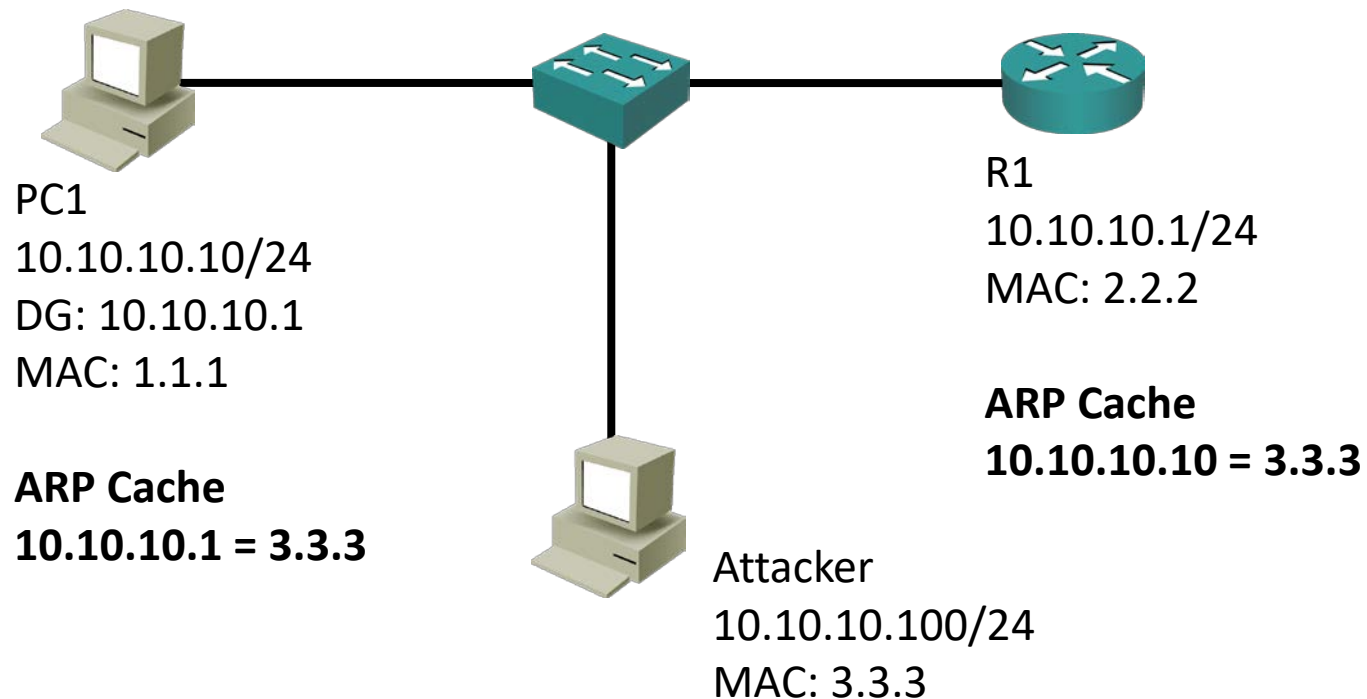


# Man in the Middle ARP Spoofing

Gratuitous ARP: 'I am 10.10.10.10, my MAC address is 3.3.3'

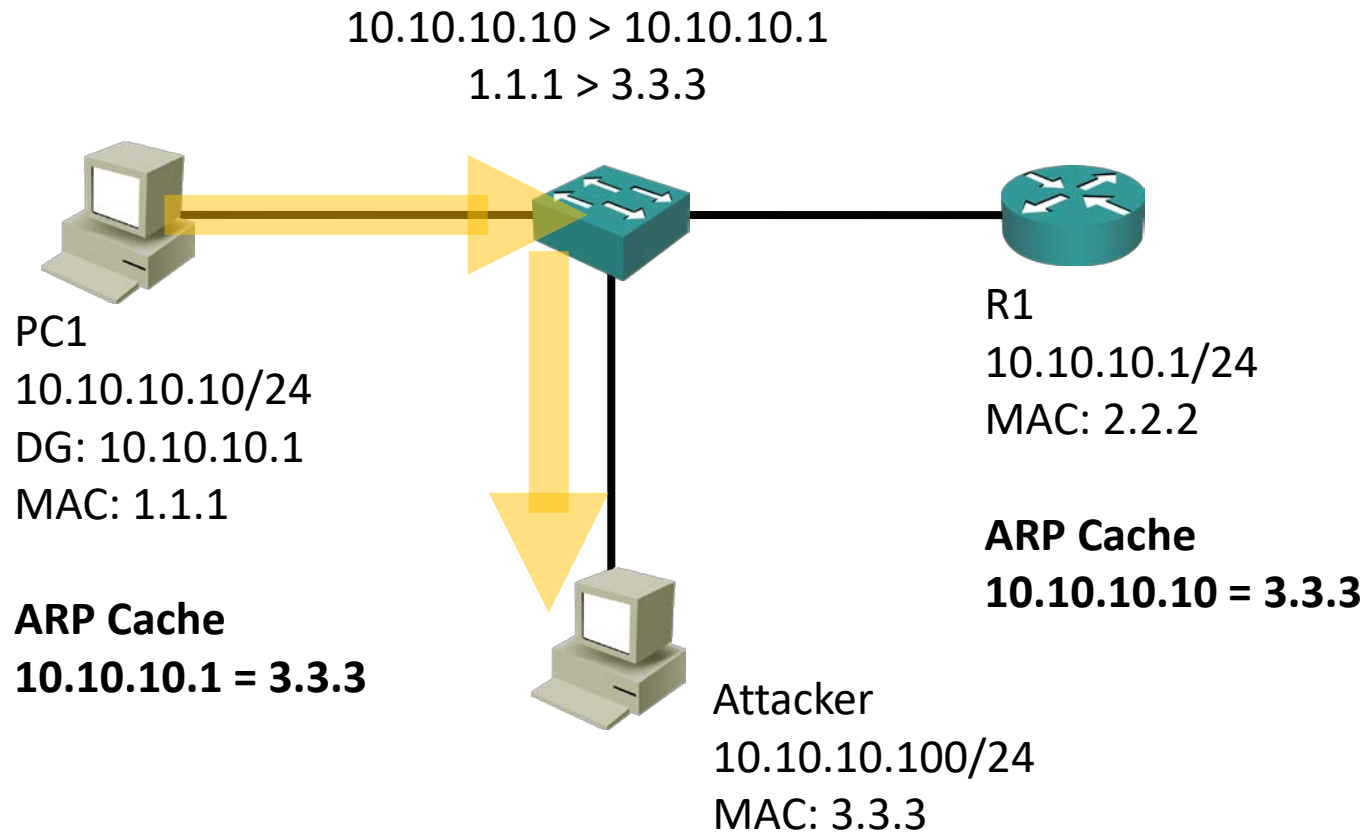


# Man in the Middle ARP Spoofing

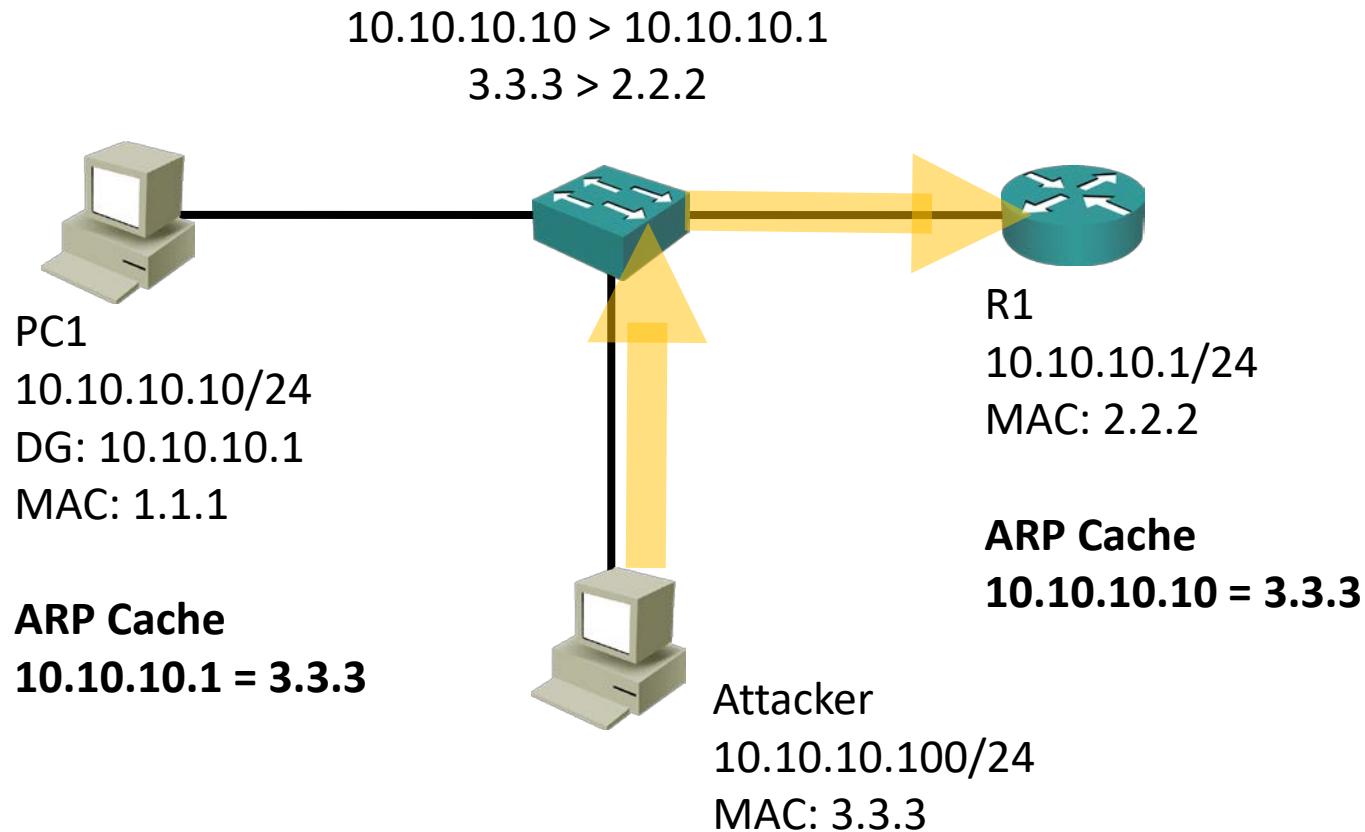




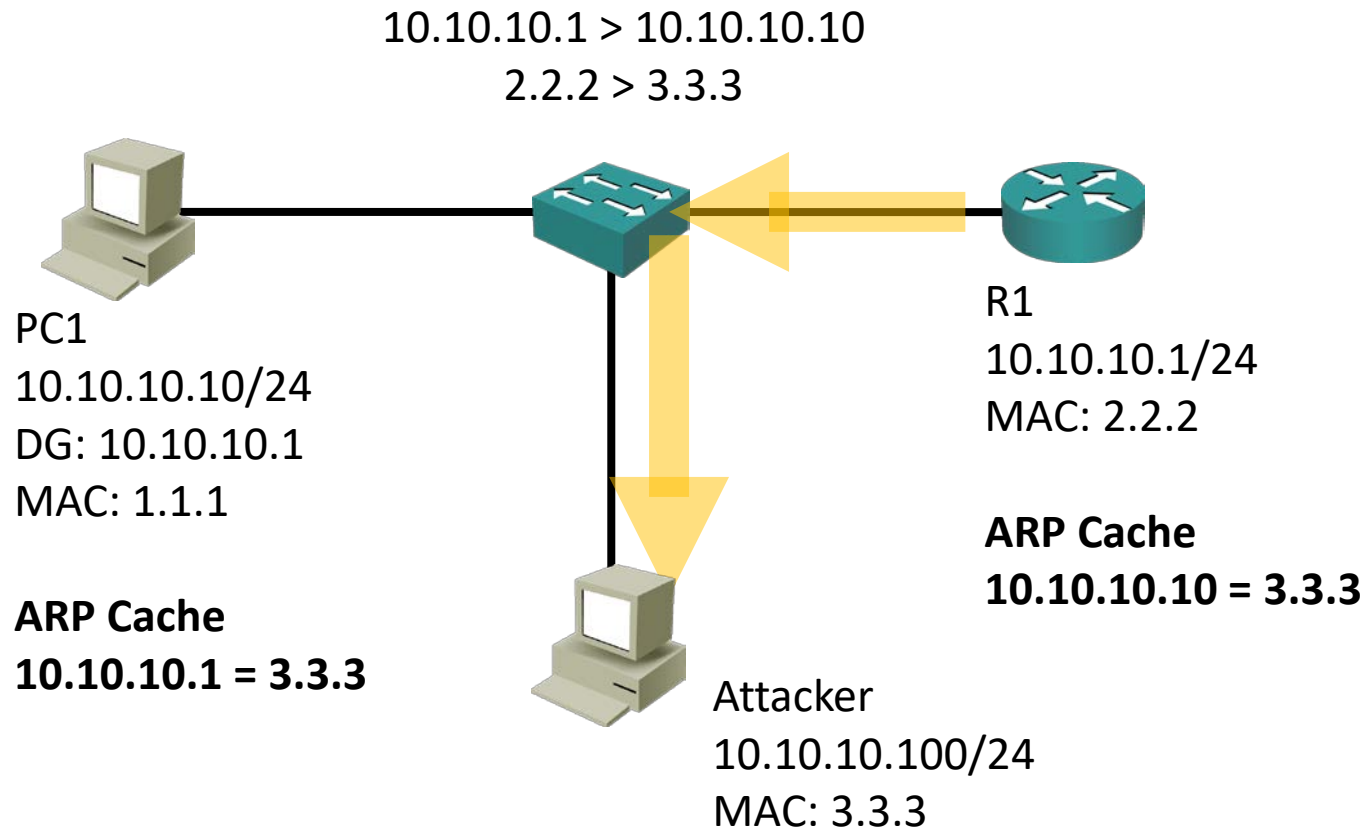
# Man in the Middle ARP Spoofing



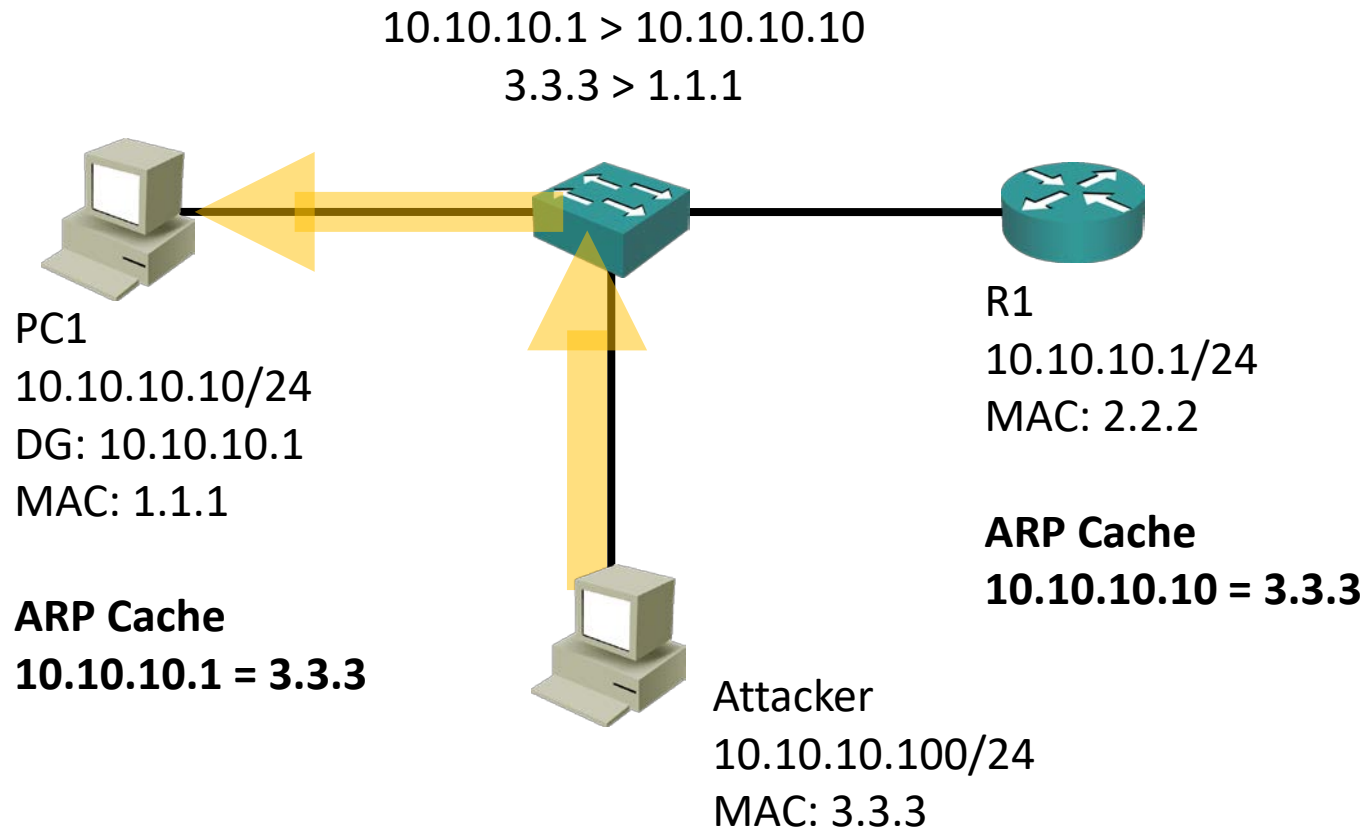
# Man in the Middle ARP Spoofing



# Man in the Middle ARP Spoofing



# Man in the Middle ARP Spoofing

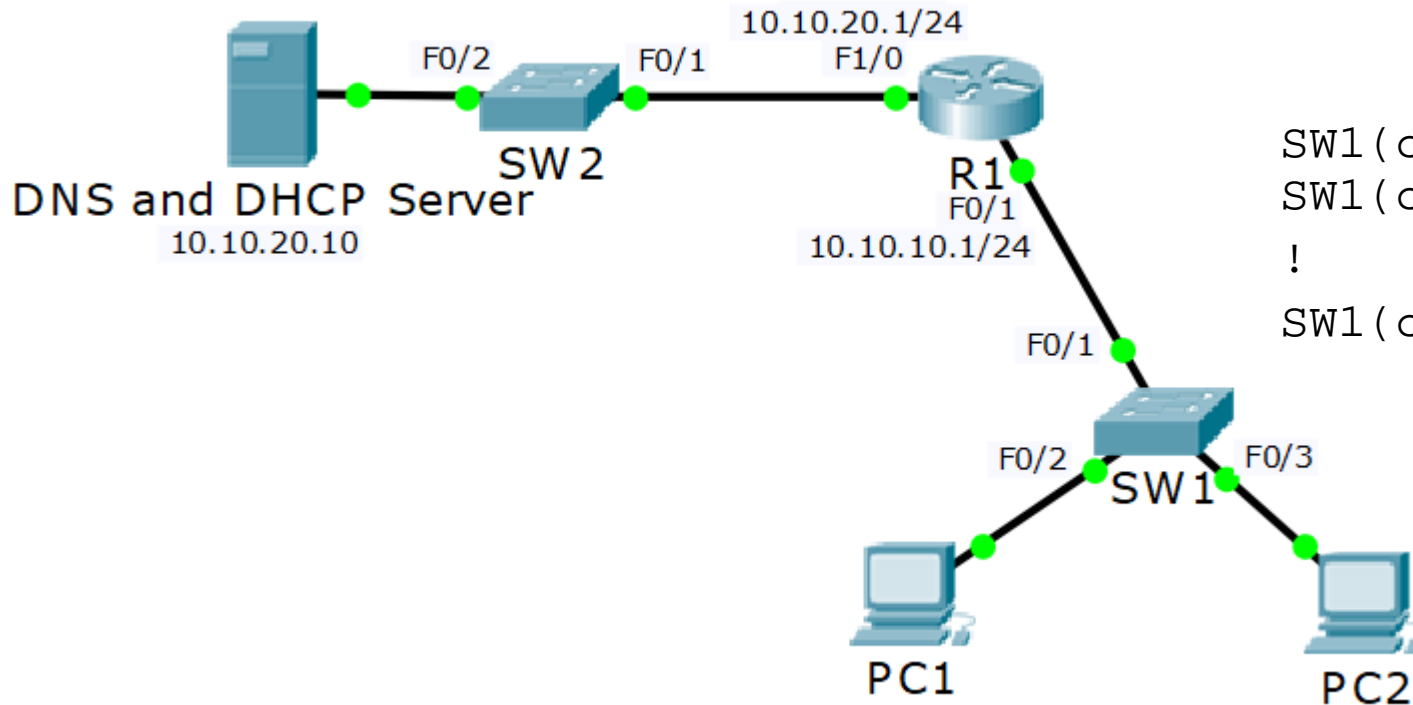


# Dynamic ARP Inspection DAI



- When you enable DHCP snooping, the switch inspects the DHCP traffic and keeps track of which IP addresses were assigned to which MAC addresses
- For example, PC1 with MAC address 1.1.1 was assigned IP address 10.10.10
- If invalid ARP traffic tries to pass through the switch, for example 3.3.3 saying it is 10.10.10, the switch drops the traffic

# DAI Configuration



```
SW1(config)#int f0/1
SW1(config-if)#ip arp inspection trust
!
SW1(config)#ip arp inspection vlan 10
```

DAI is not performed on trusted ports.  
Enable this for non DHCP clients.

# Dynamic ARP Inspection DAI



- SBH-SW2(config)#int g1/0/23  
SBH-SW2(config-if)#ip arp inspection trust
- !
- SBH-SW2(config)#ip arp inspection vlan 12