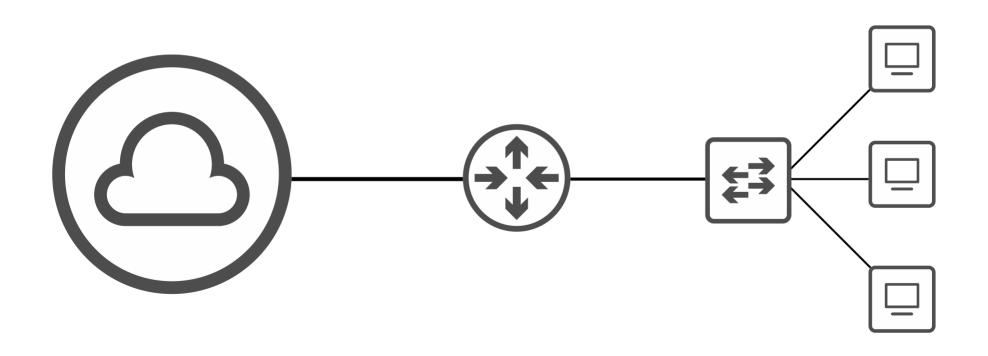


# CCNA 200-301 Day 12

#### Life of a Packet

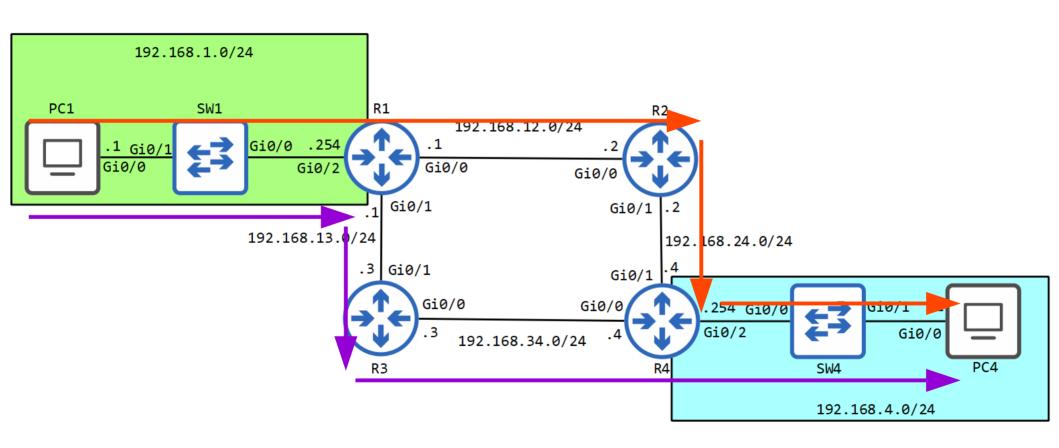




# Things we'll cover

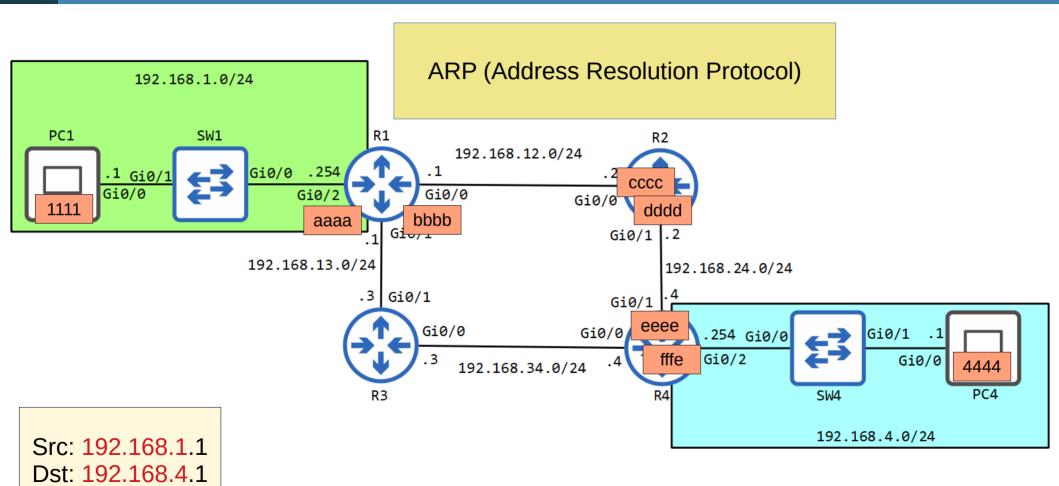
- The entire process of sending a packet to a remote destination.
- · Including ARP, encapsulation, de-encapsulation, etc.

# Network Topology



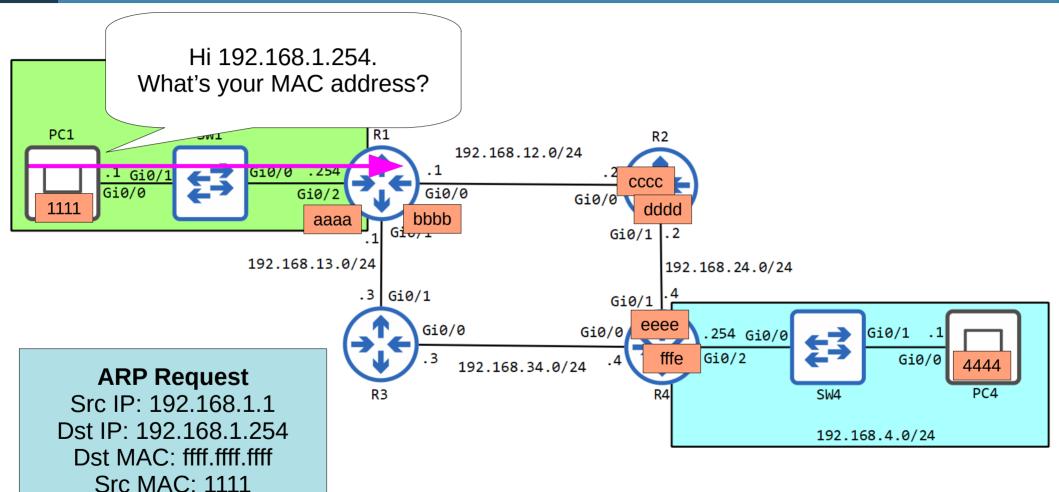


# Network Topology



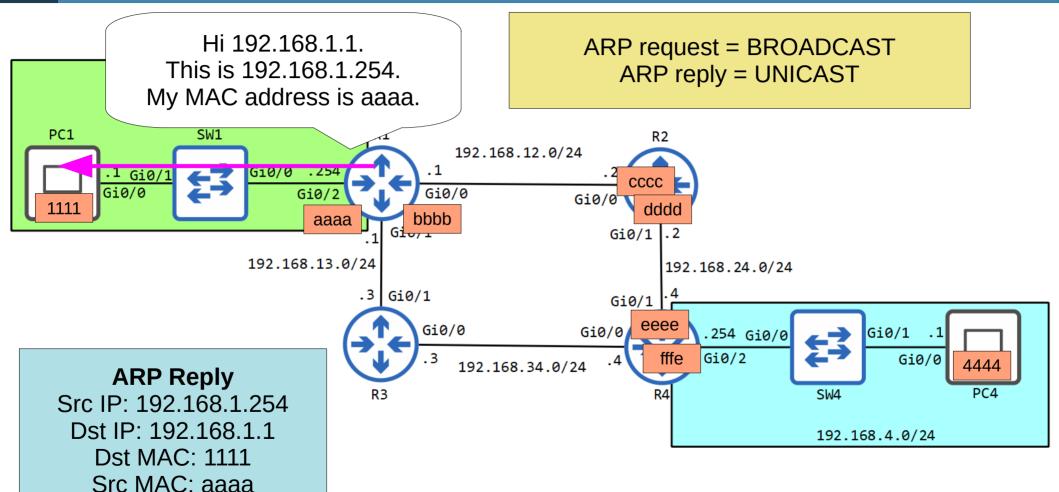


# ARP (Address Resolution Protocol)

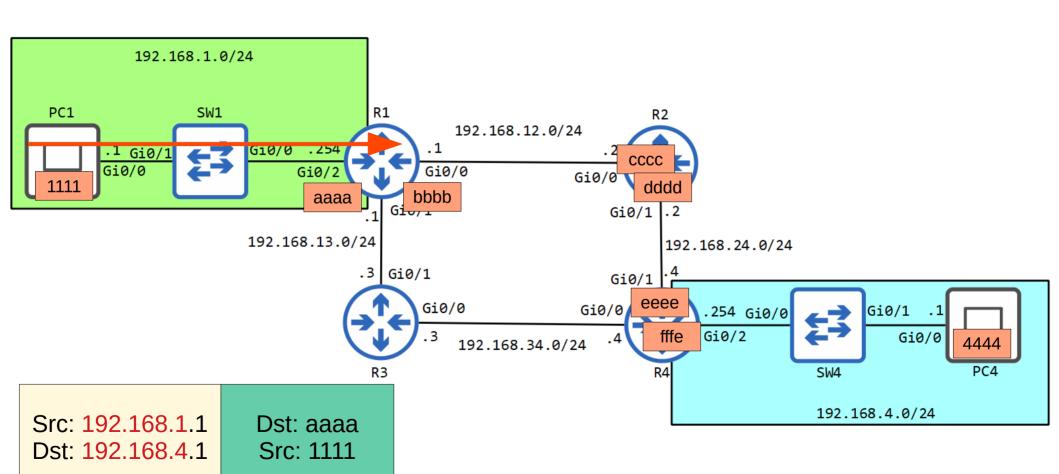




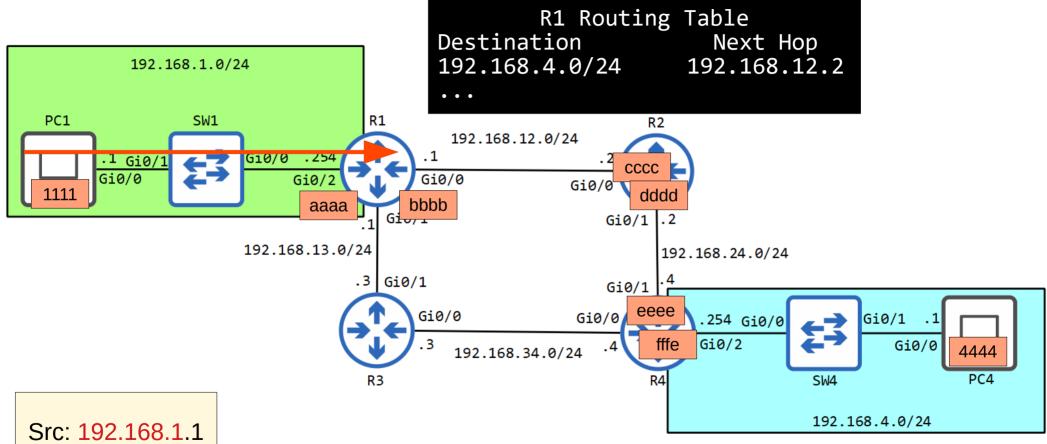
# ARP (Address Resolution Protocol)



#### $PC1 \rightarrow R1$



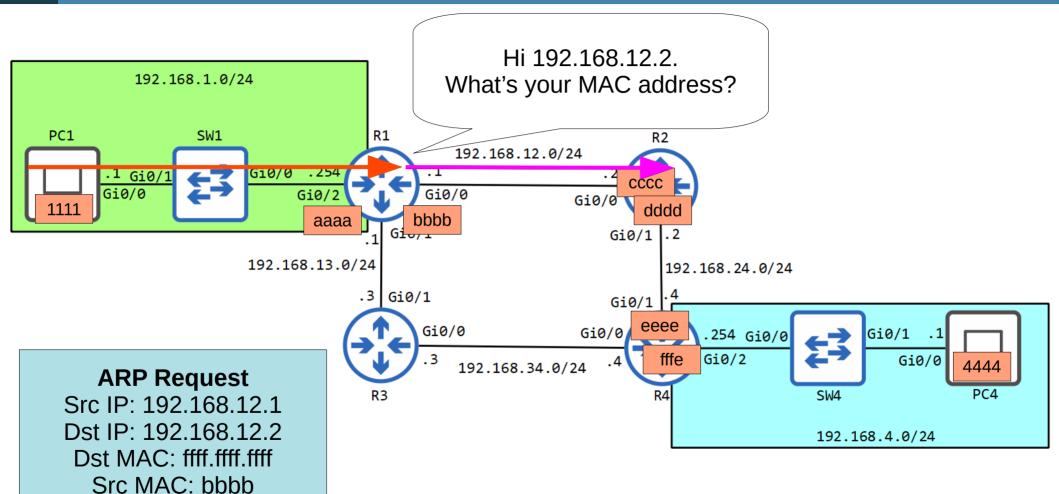
#### $R1 \rightarrow R2$



Dst: 192.168.4.1

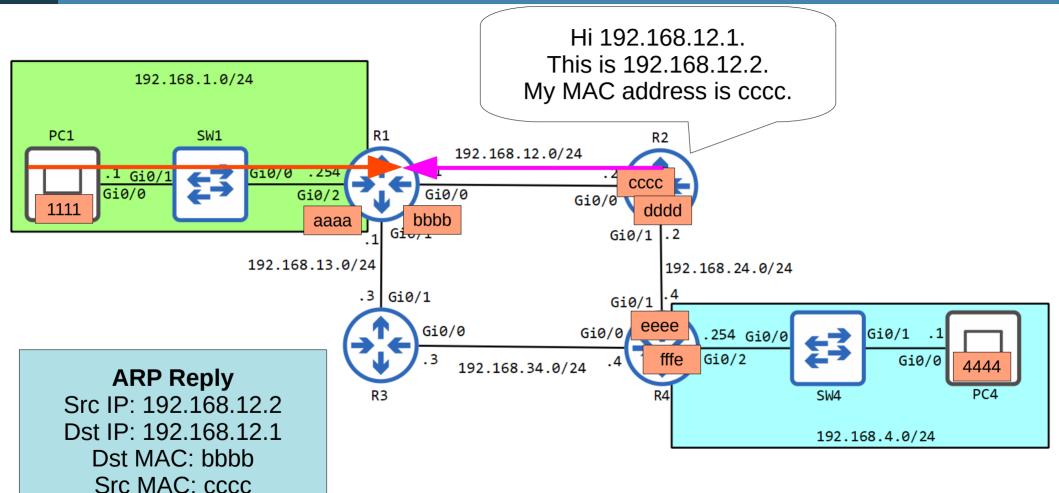




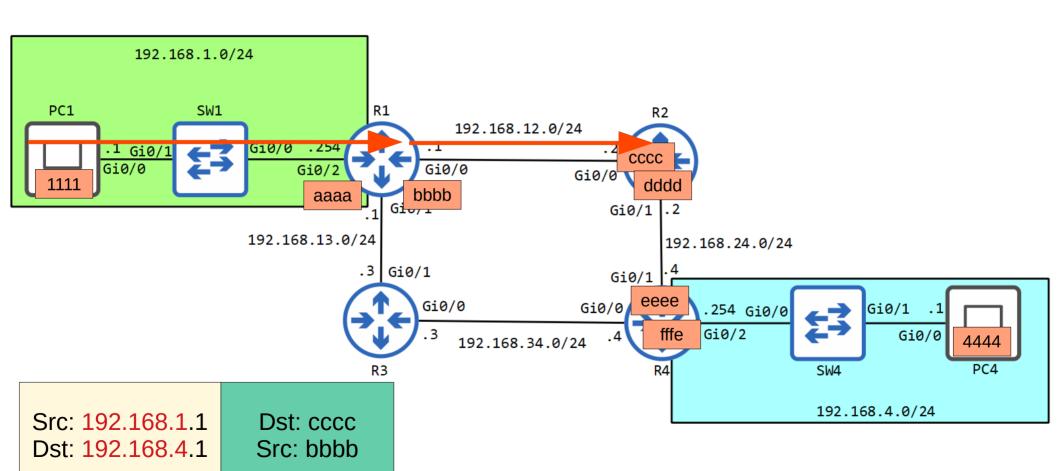




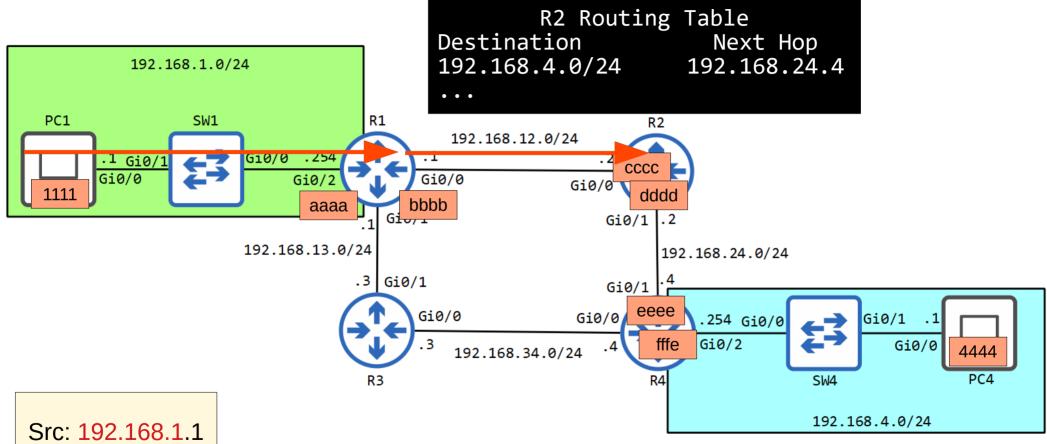




#### $R1 \rightarrow R2$

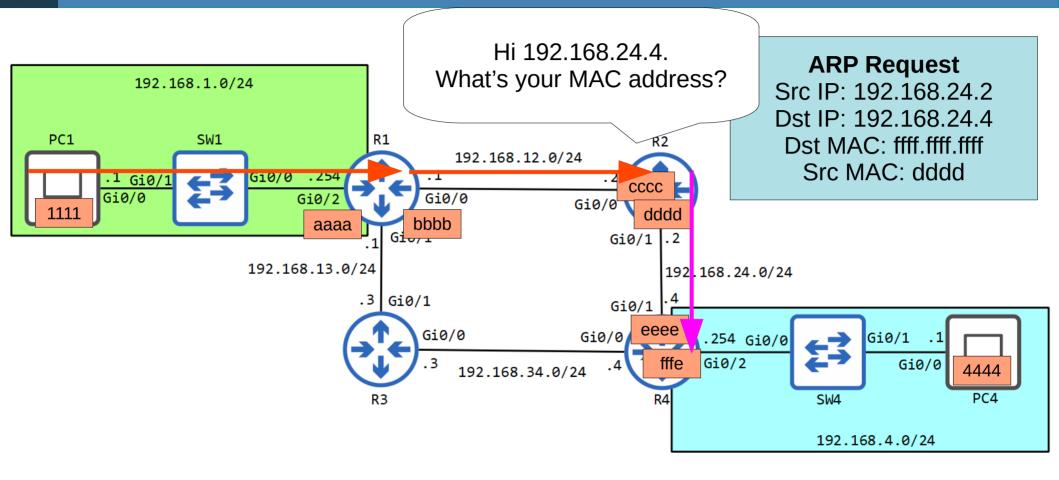


#### $R2 \rightarrow R4$

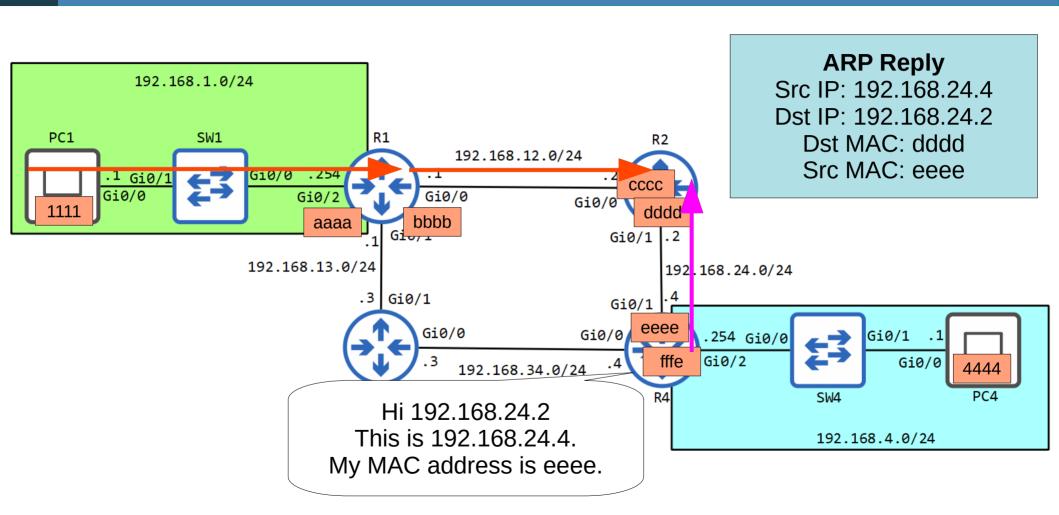


Dst: 192.168.4.1

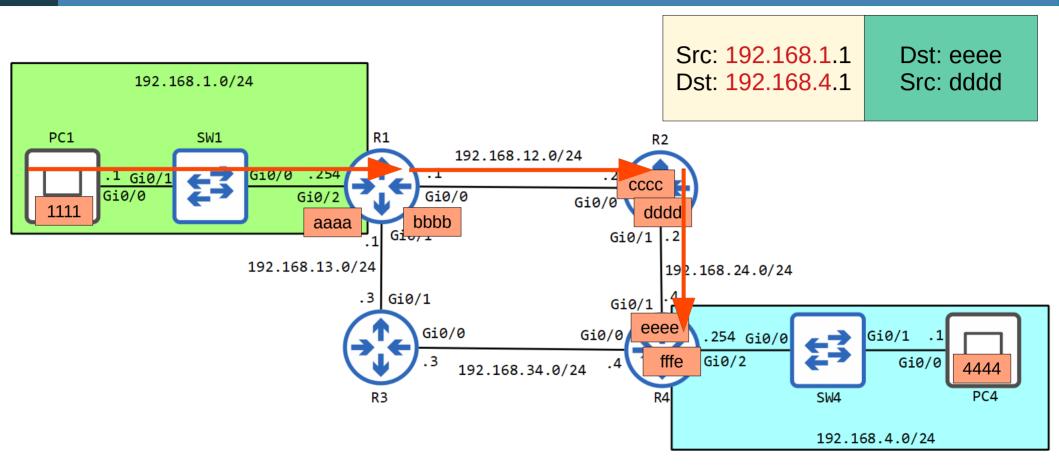
#### ARP



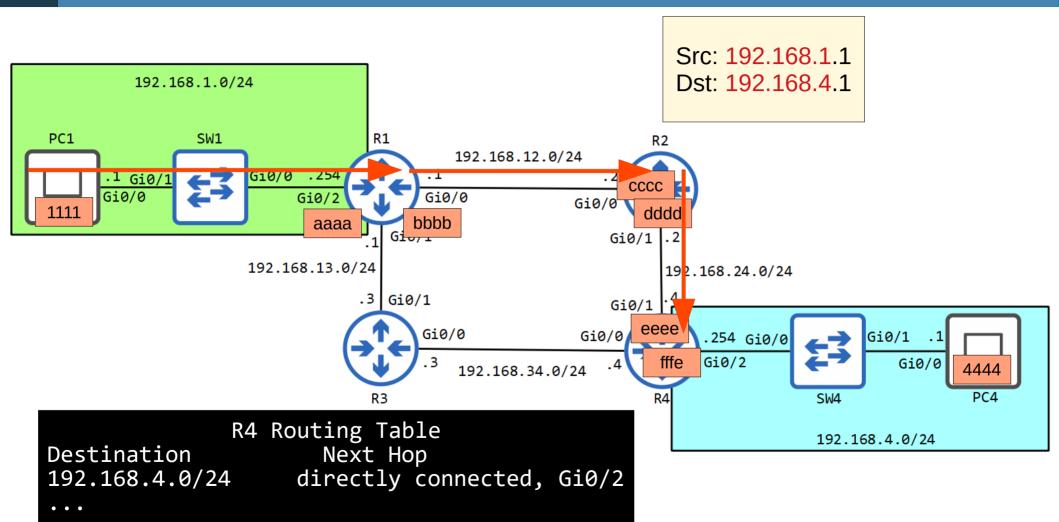




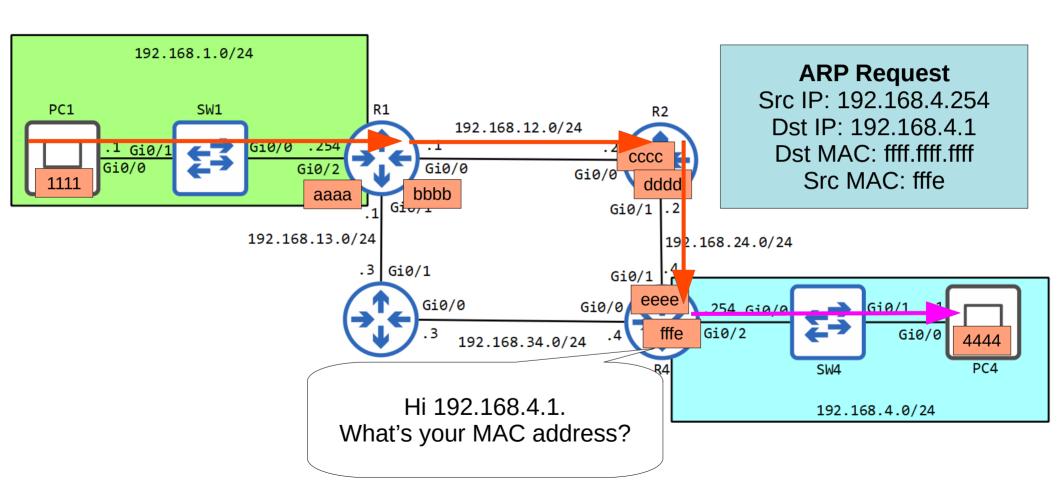
#### $R2 \rightarrow R4$



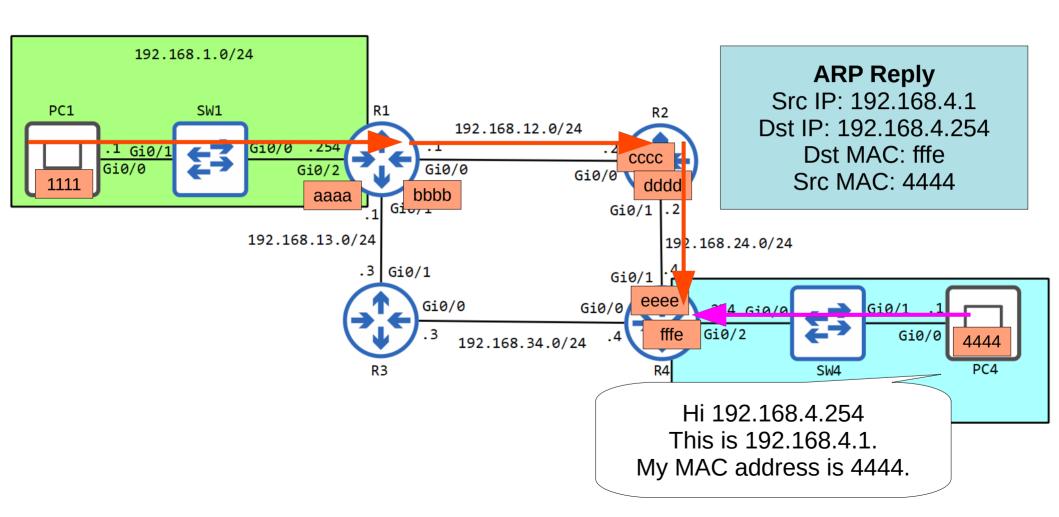
#### $R2 \rightarrow R4$



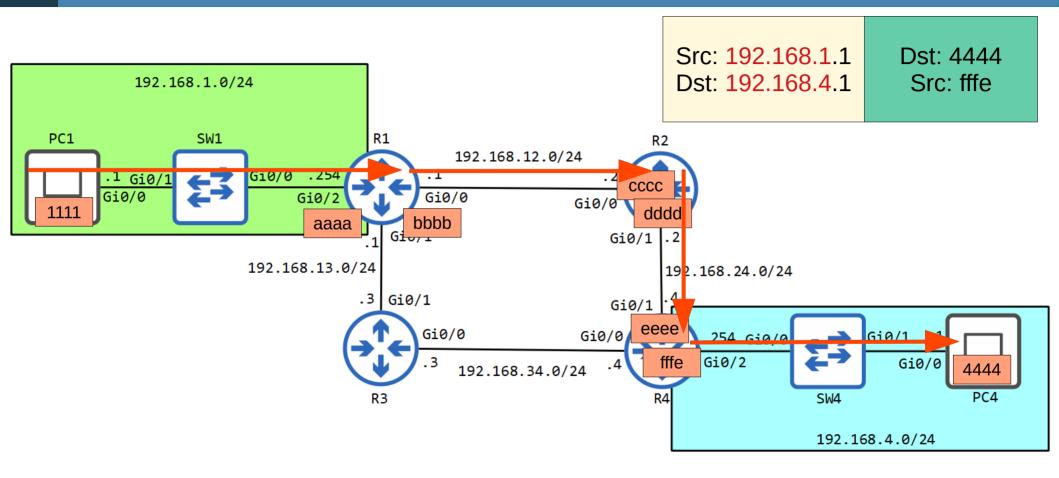




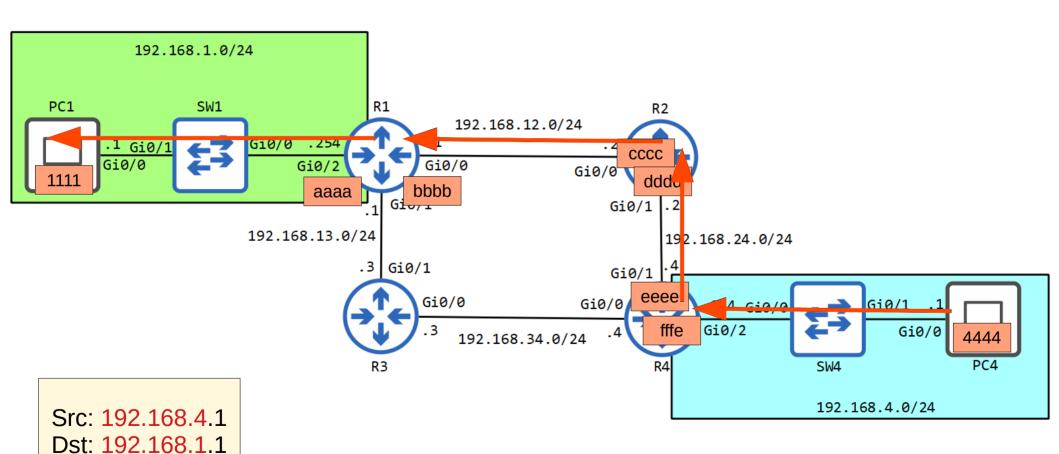
#### ARP



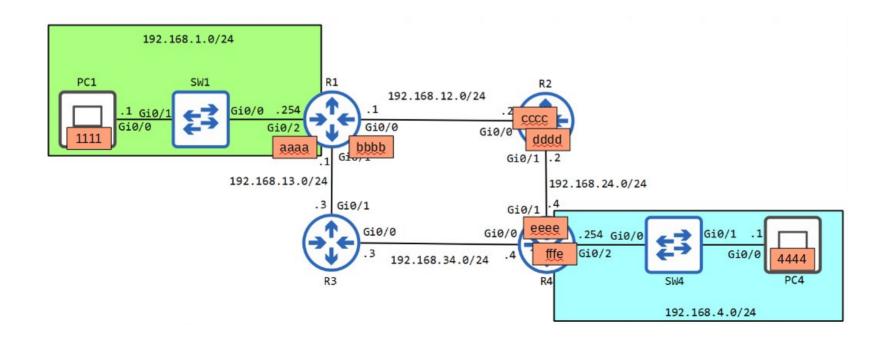
#### $R4 \rightarrow PC4$



#### $R4 \rightarrow PC4$

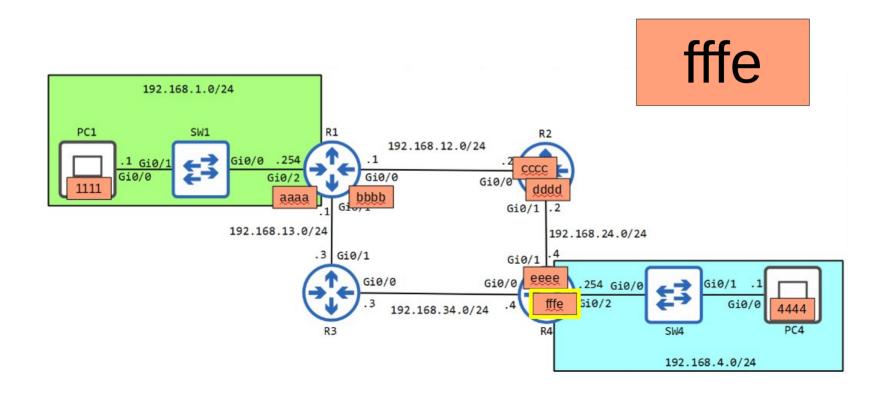


### QUIZ



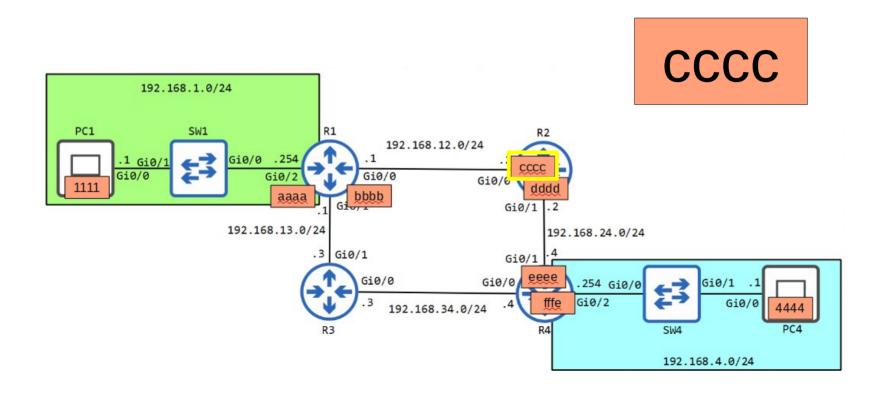


PC4 sends a packet to PC1. What is the destination MAC address when it is sent from PC4's network interface?



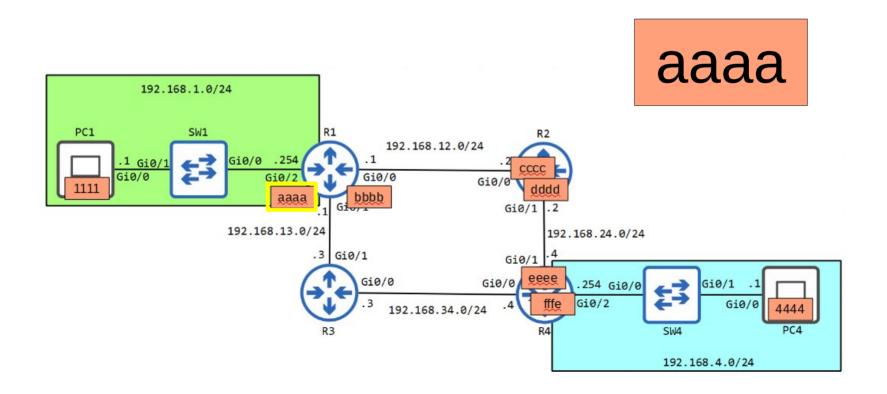


PC4 sends a packet to PC1. What is the source MAC address when it is received on R1's GiO/O interface?



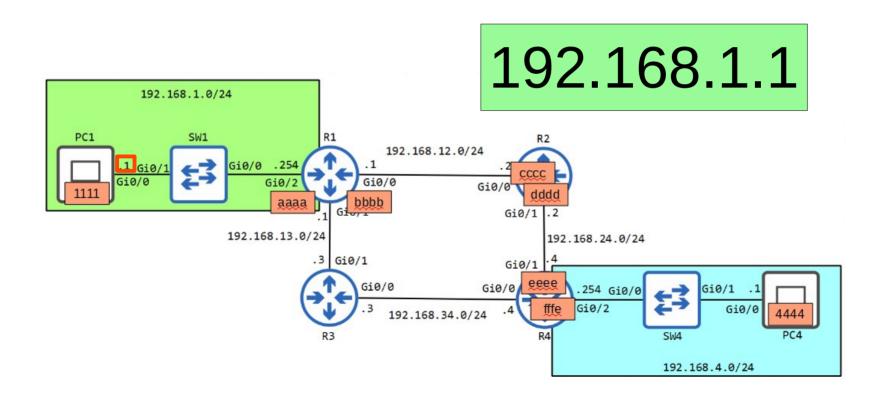


PC4 sends a packet to PC1. What is the source MAC address when it is sent from SW1's GiO/1 interface?





PC4 sends a packet to PC1. What is the destination IP address when it is sent from R4's GiO/1 interface?





PC4 sends a packet to PC1. What is the source IP address when it is received on R1's GiO/O interface?

