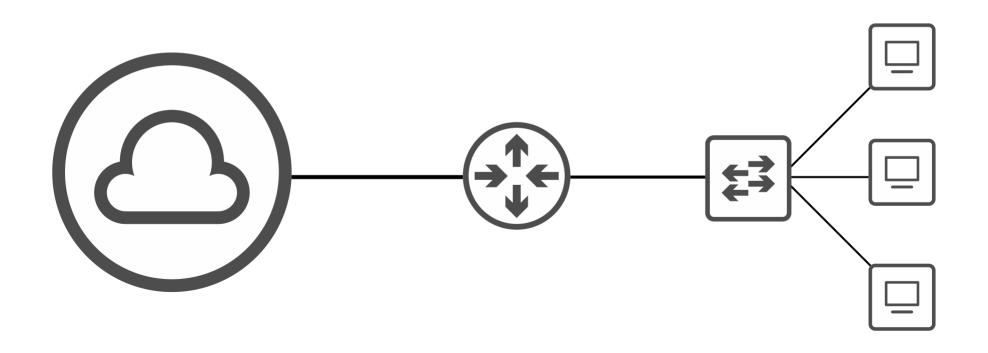


CCNA 200-301 Day 12

Life of a Packet

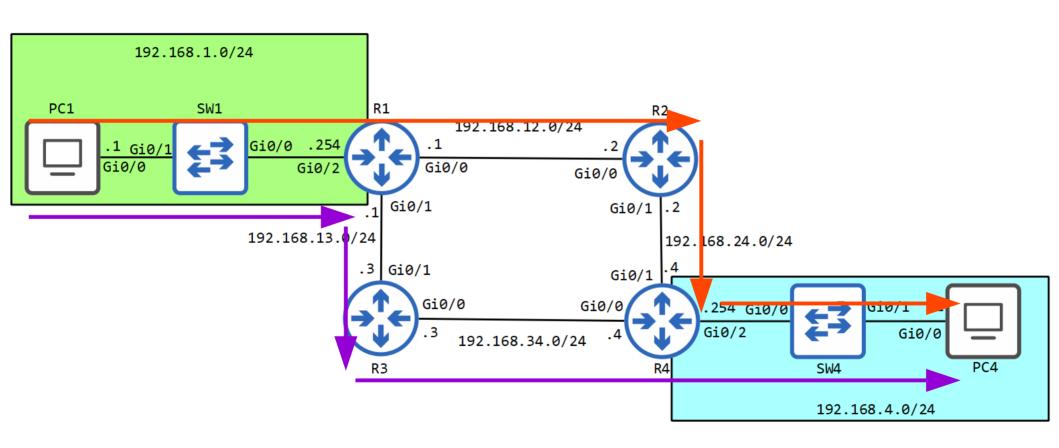




Things we'll cover

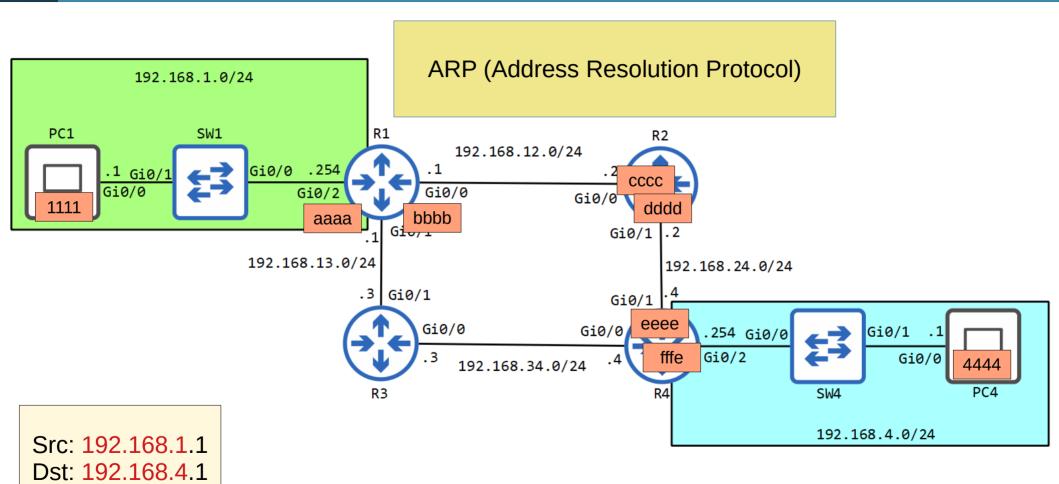
- The entire process of sending a packet to a remote destination.
- · Including ARP, encapsulation, de-encapsulation, etc.

Network Topology



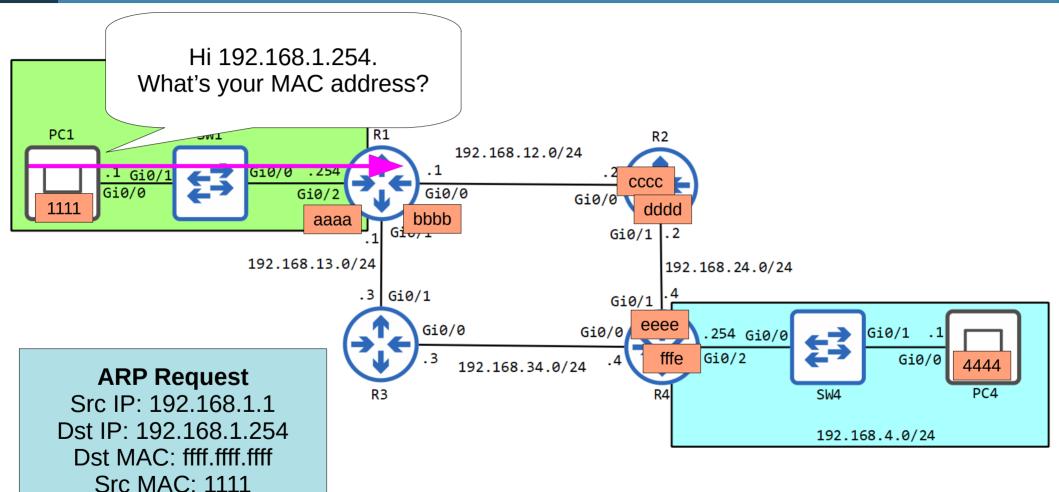


Network Topology



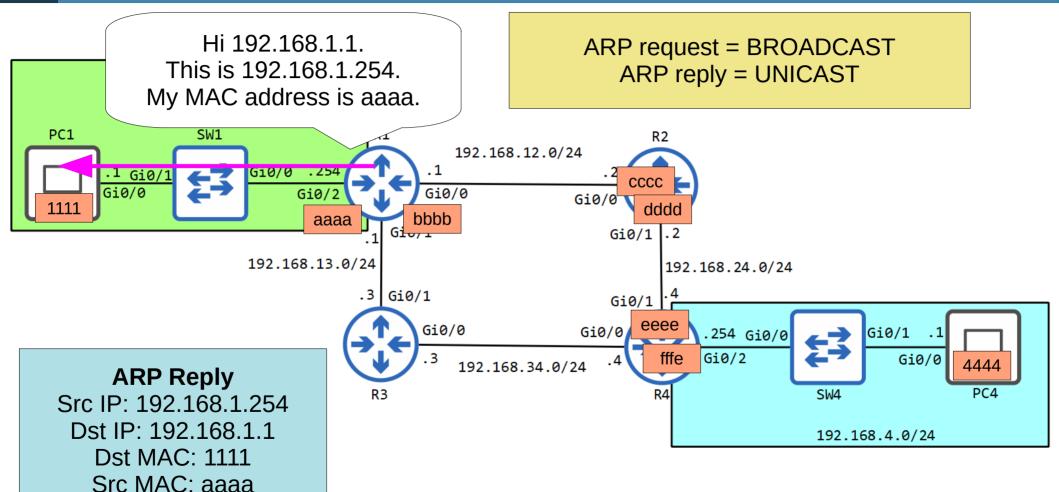


ARP (Address Resolution Protocol)

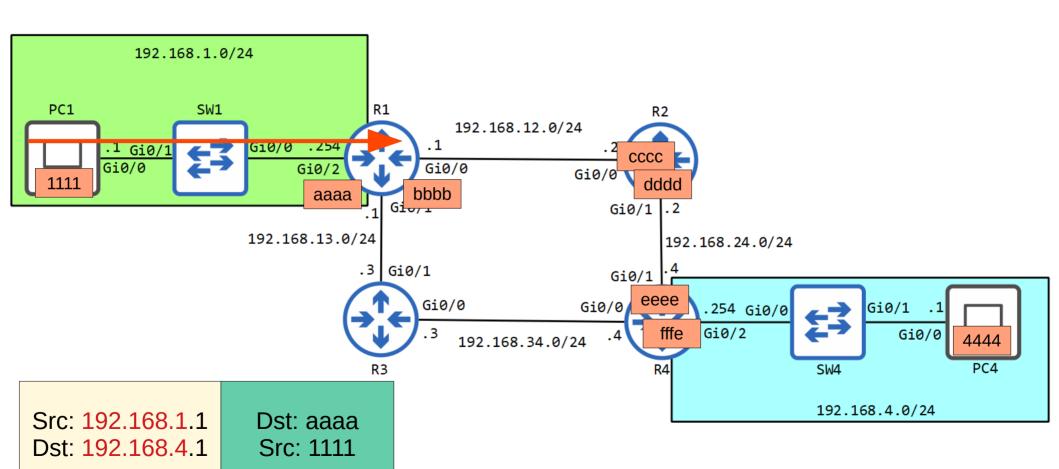




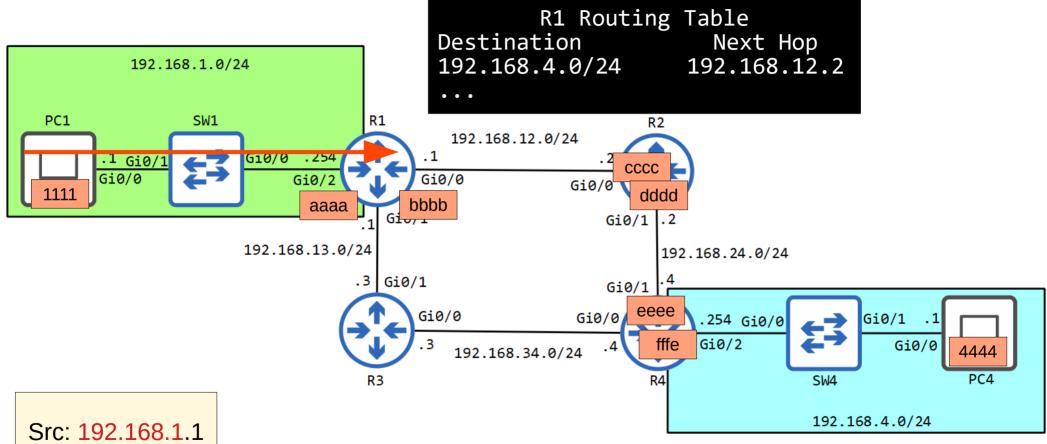
ARP (Address Resolution Protocol)



$PC1 \rightarrow R1$



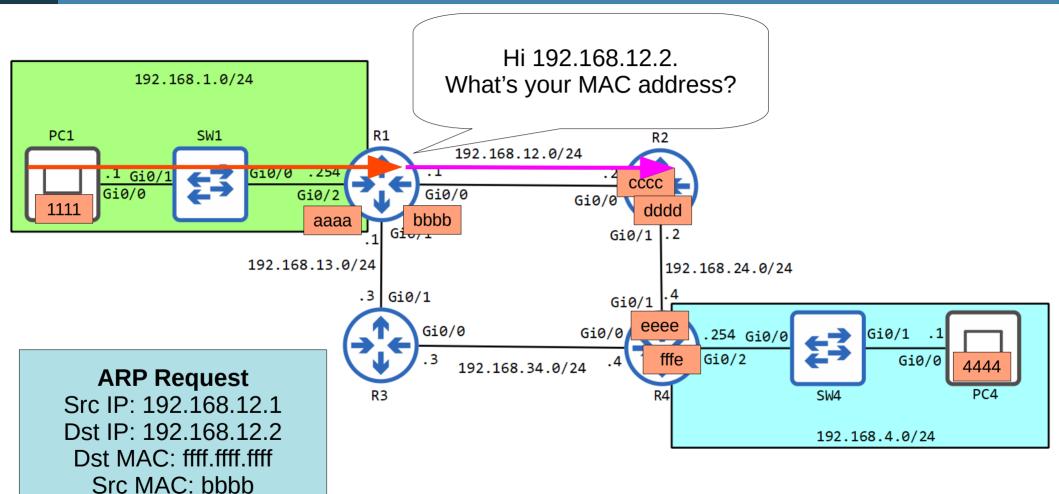
$R1 \rightarrow R2$



Dst: 192.168.4.1

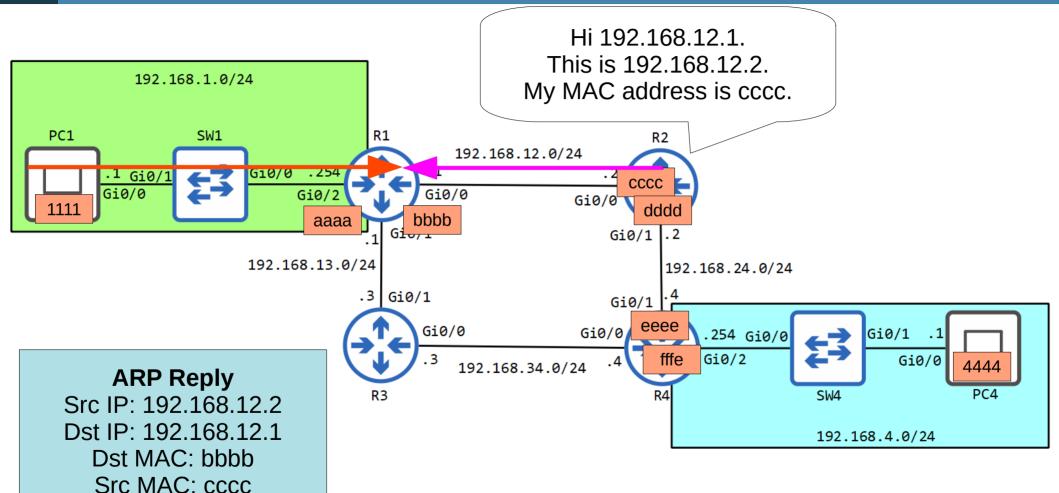




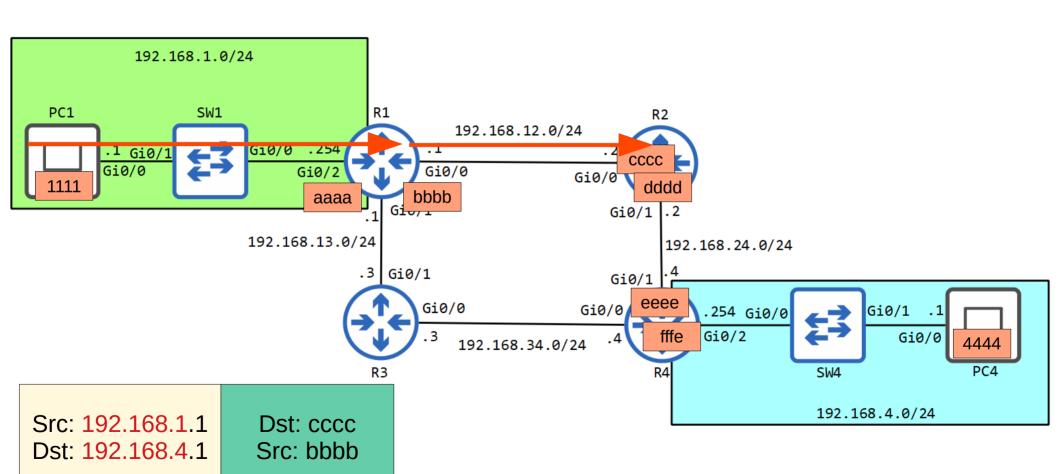




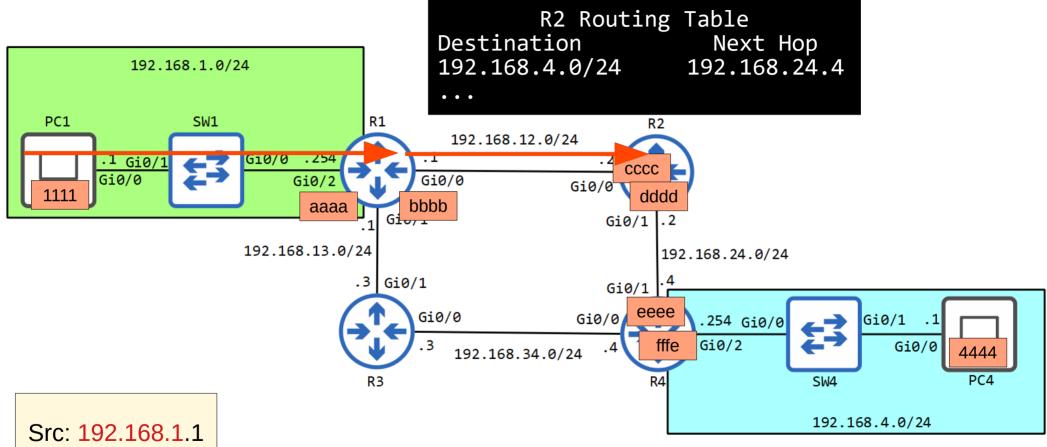




$R1 \rightarrow R2$

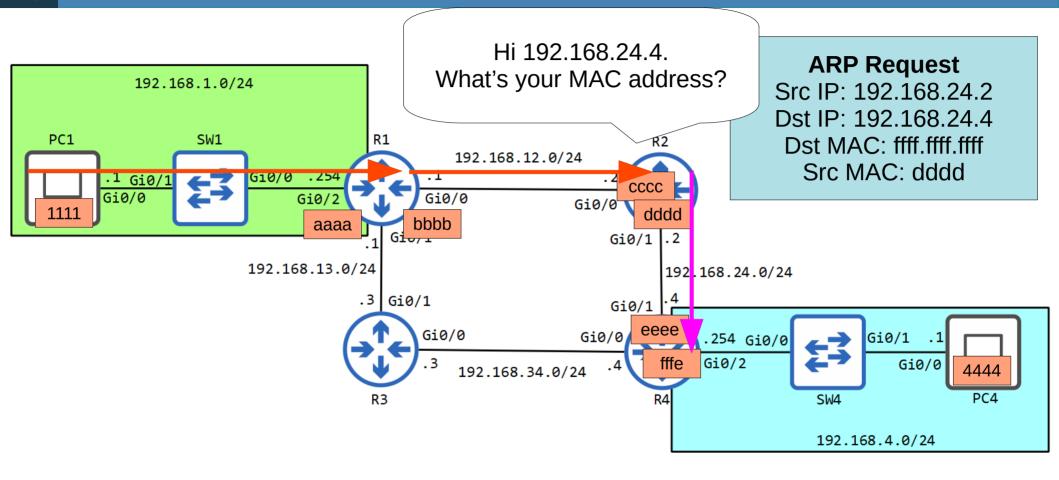


$R2 \rightarrow R4$

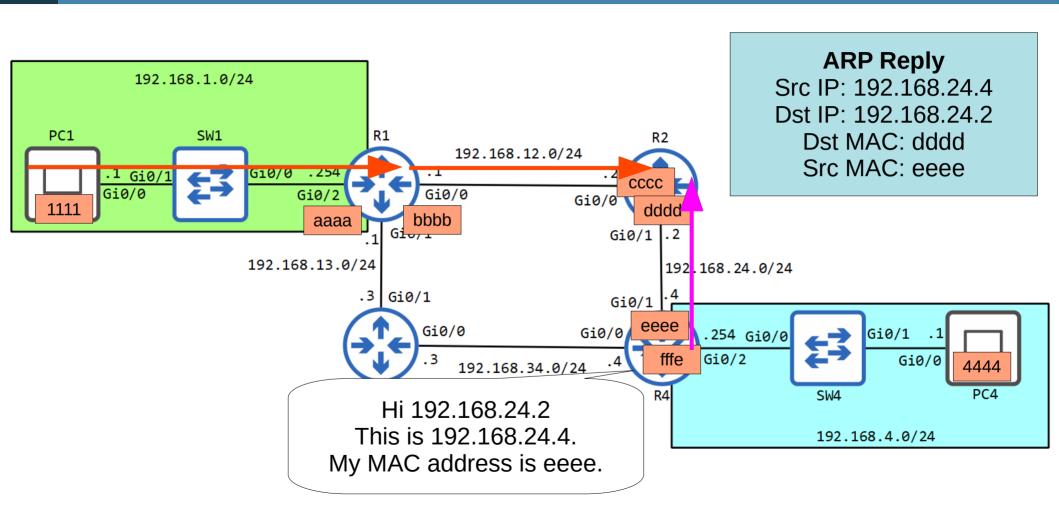


Dst: 192.168.4.1

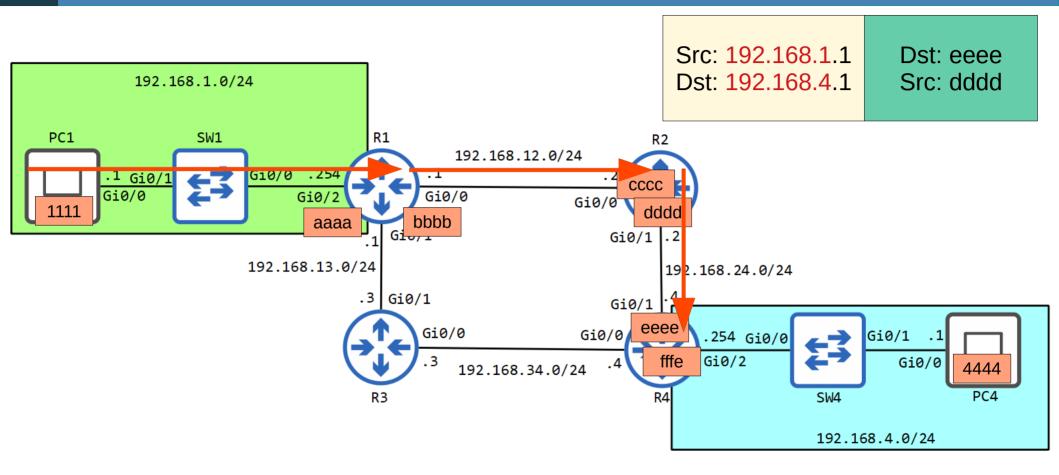
ARP



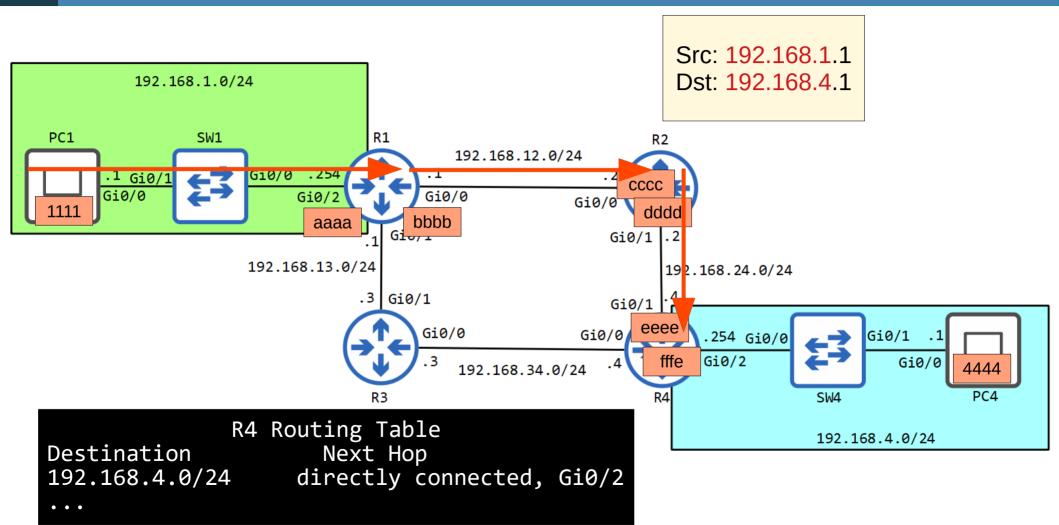




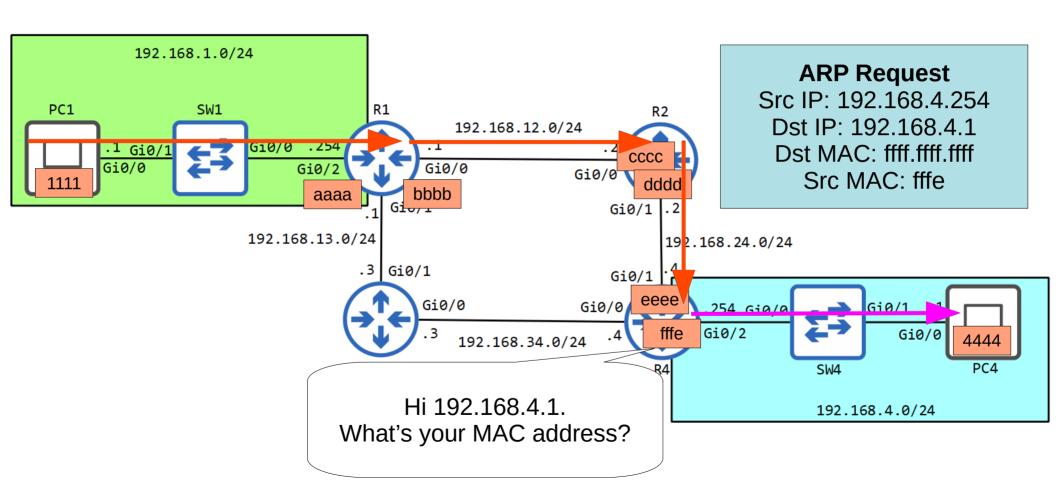
$R2 \rightarrow R4$



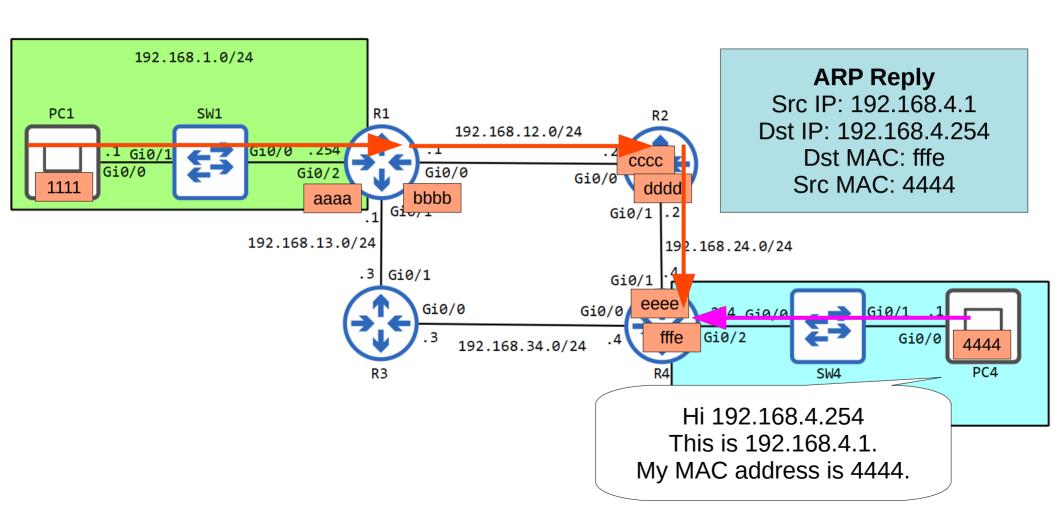
$R2 \rightarrow R4$



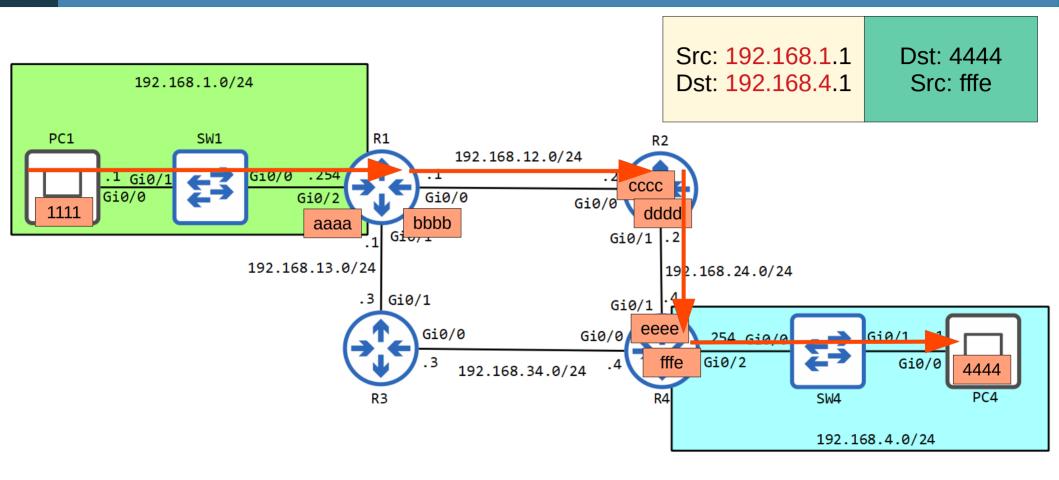




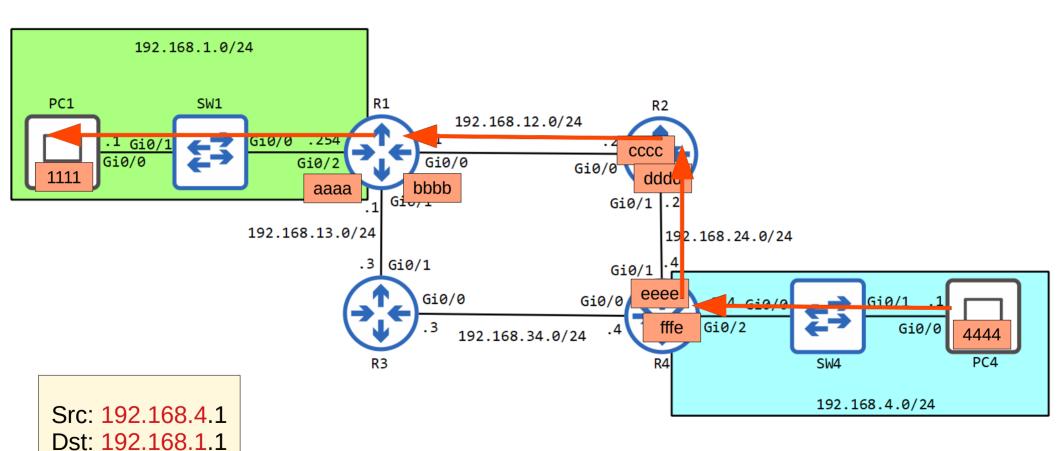


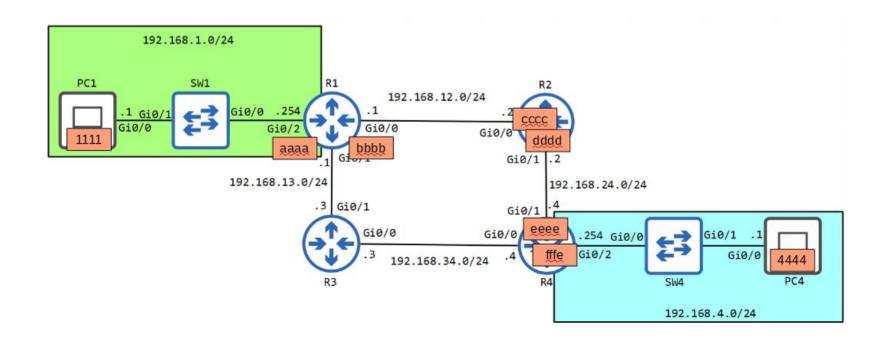


$R4 \rightarrow PC4$



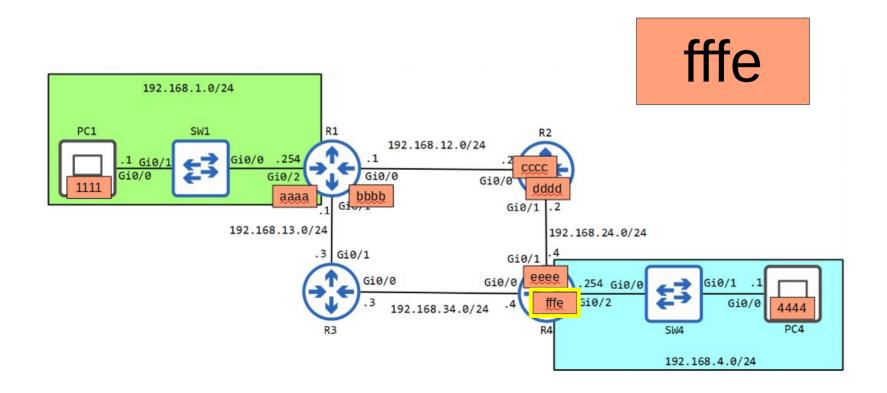
$R4 \rightarrow PC4$





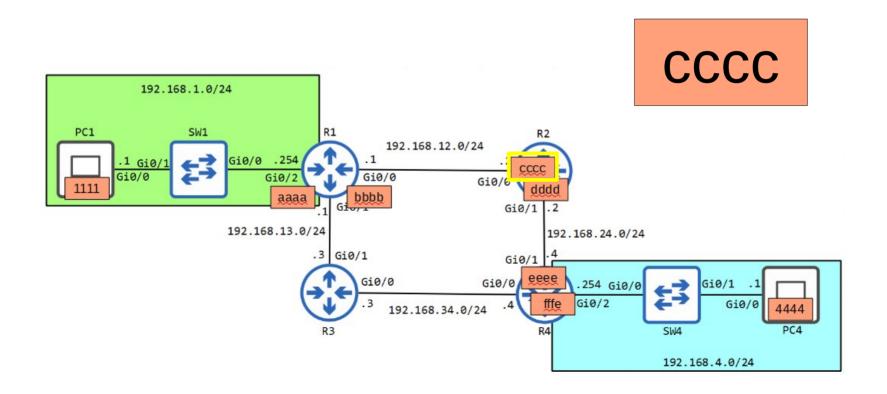


PC4 sends a packet to PC1. What is the destination MAC address when it is sent from PC4's network interface?



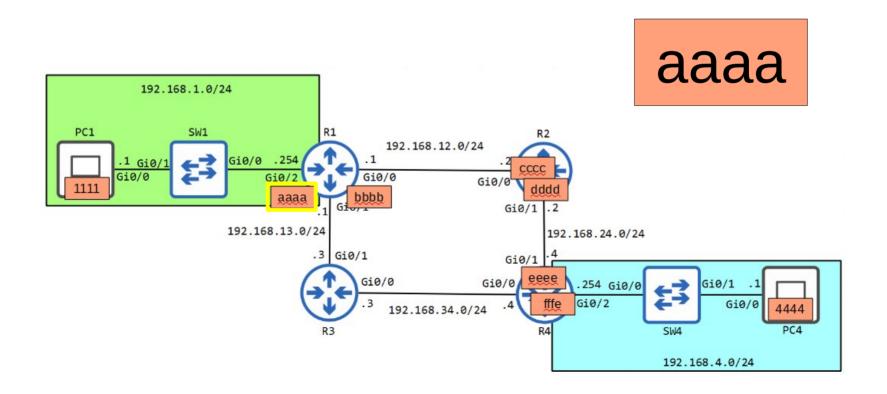


PC4 sends a packet to PC1. What is the source MAC address when it is received on R1's GiO/O interface?



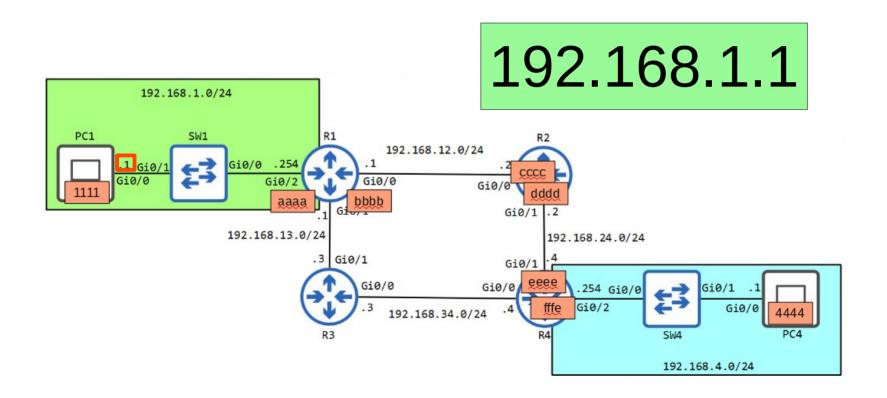


PC4 sends a packet to PC1. What is the source MAC address when it is sent from SW1's GiO/1 interface?



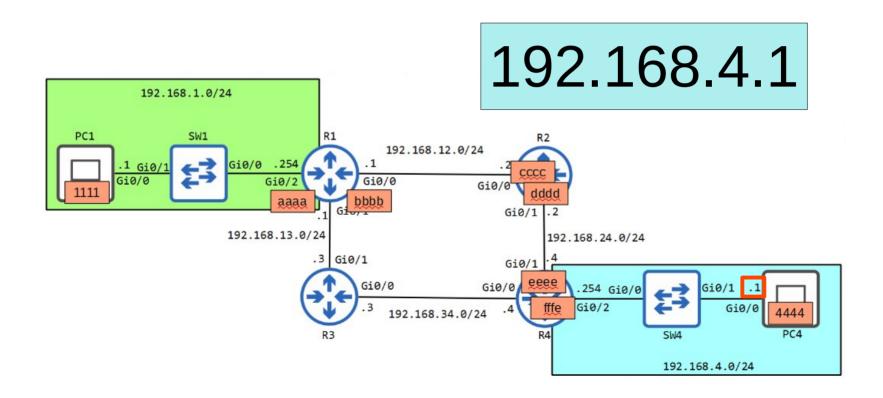


PC4 sends a packet to PC1. What is the destination IP address when it is sent from R4's GiO/1 interface?





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





Supplementary Materials

Packet Tracer lab

