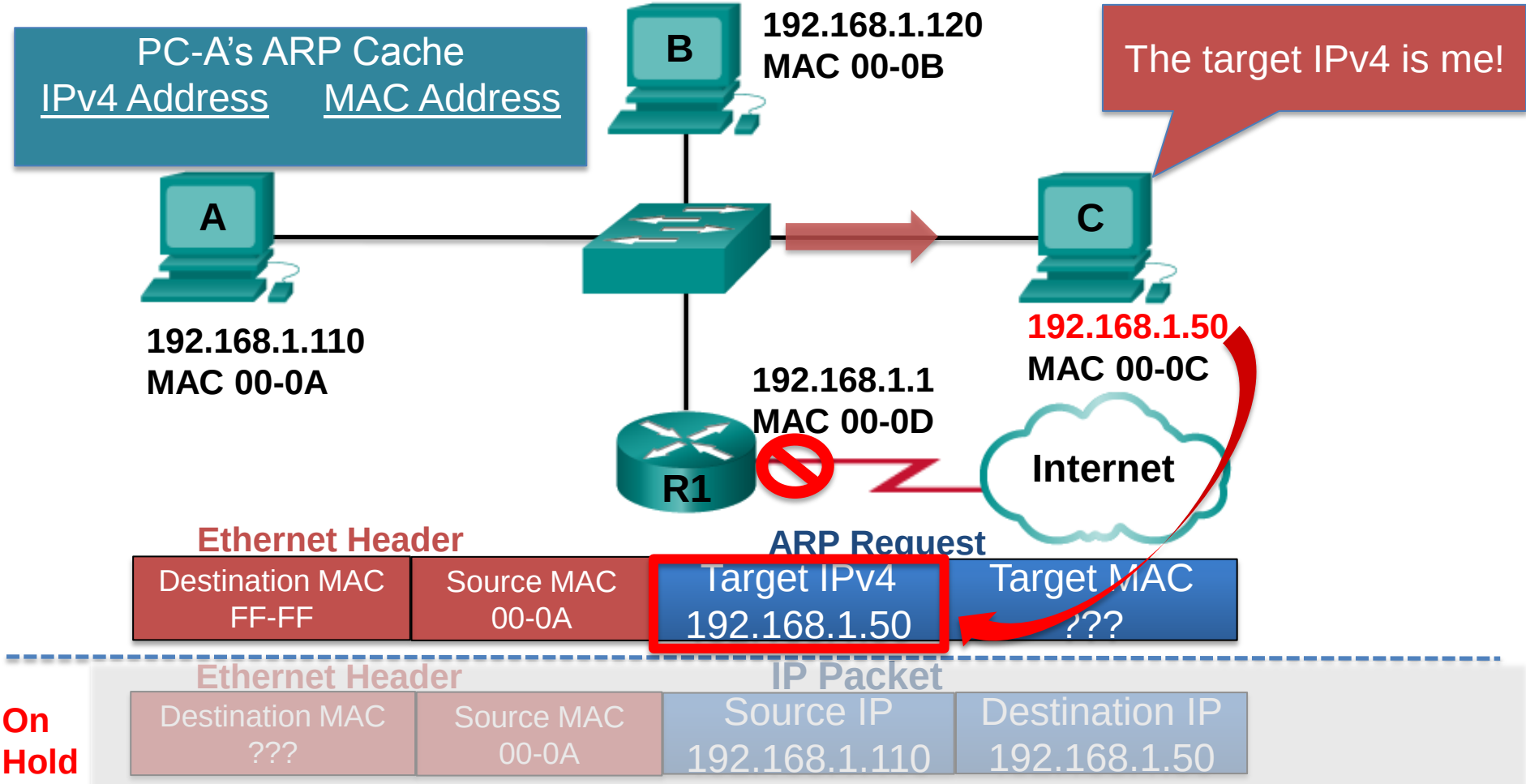
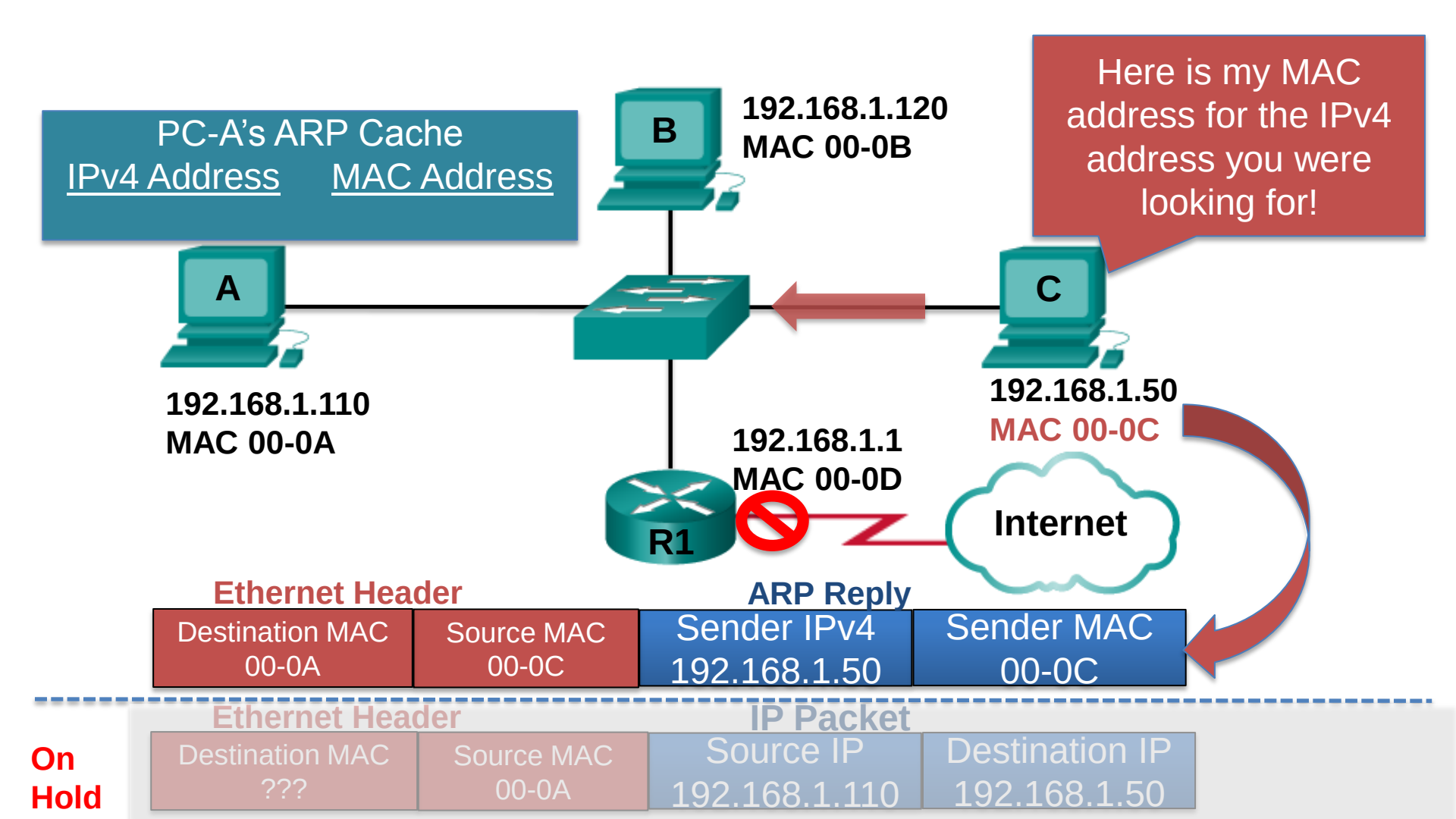
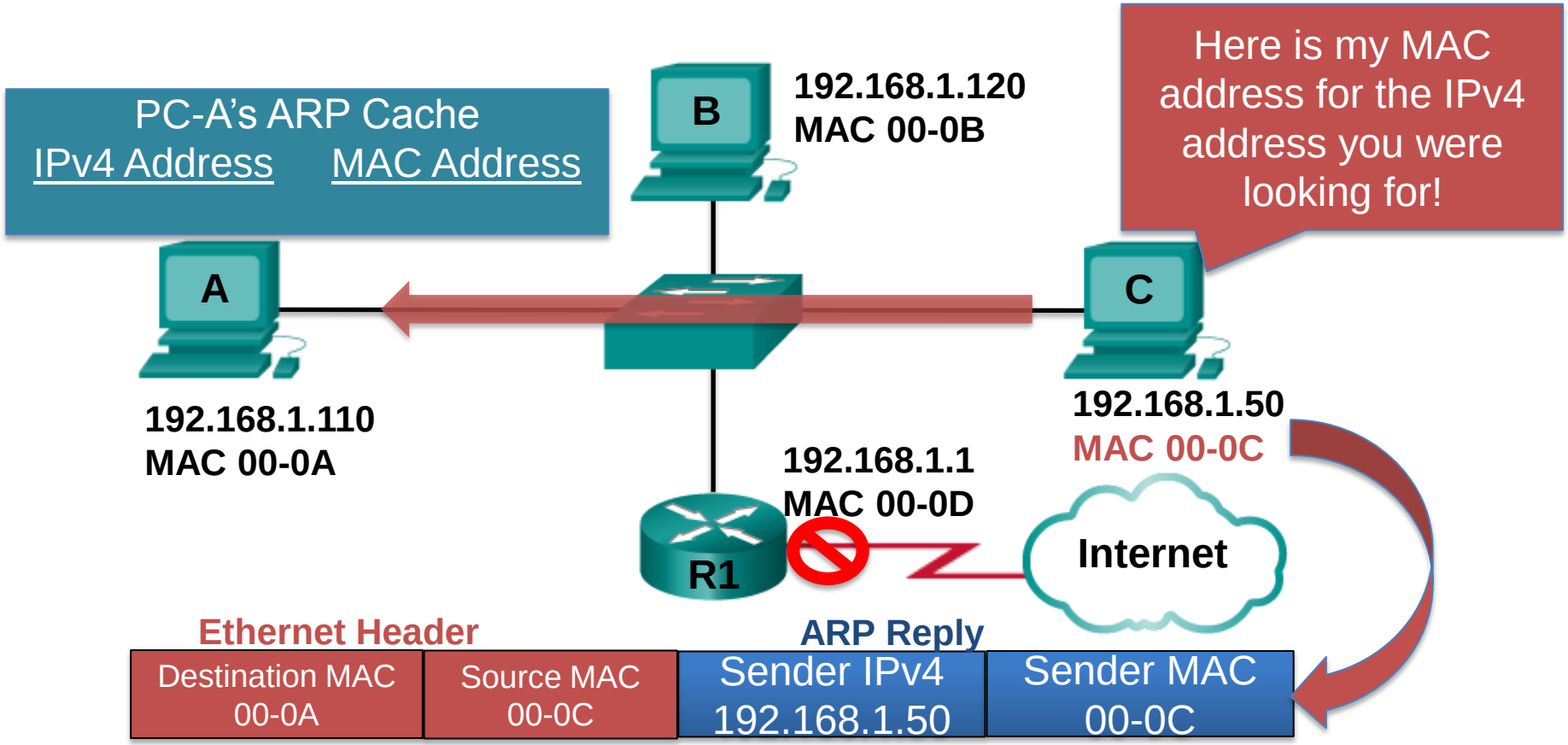
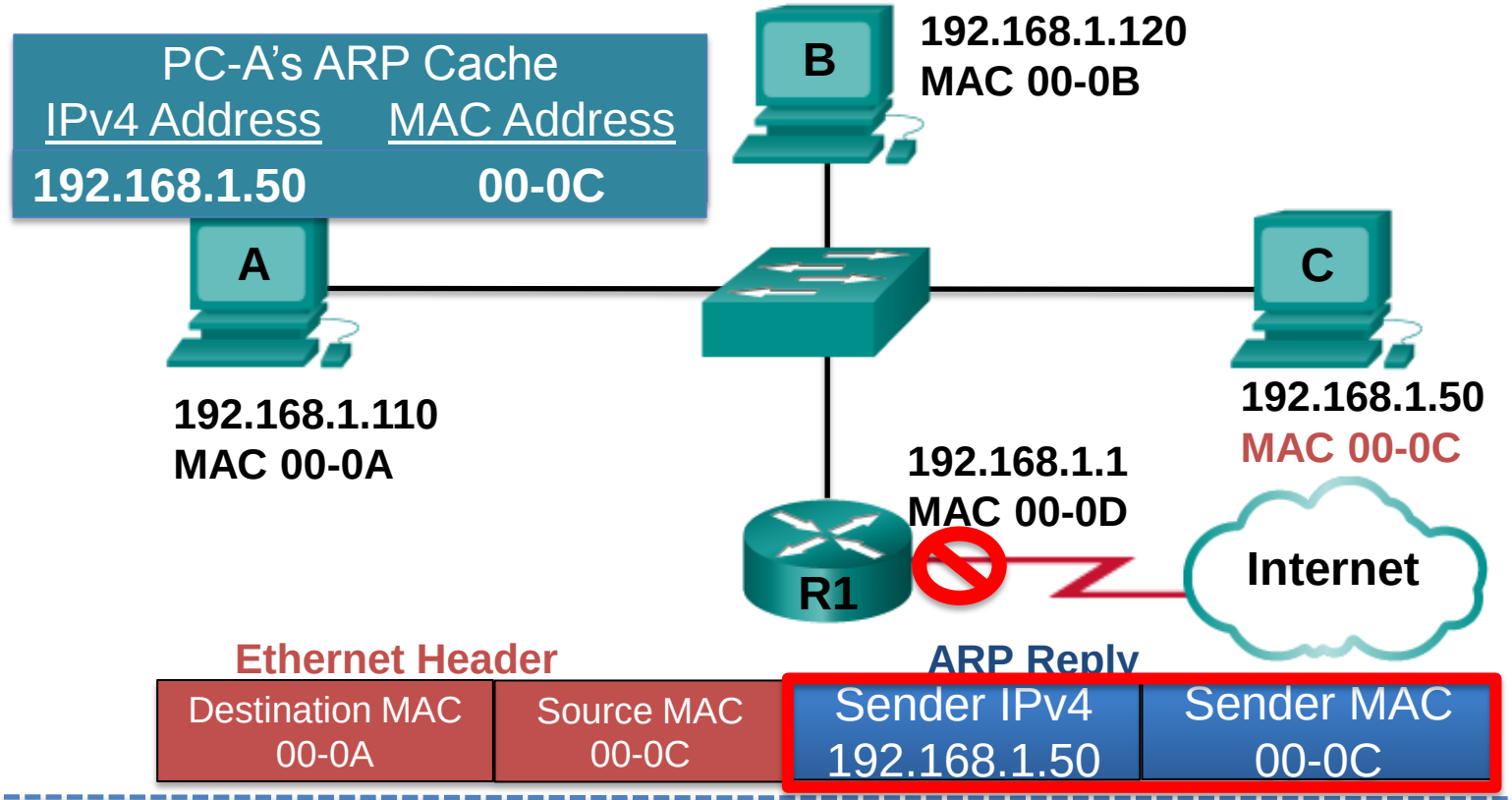
5.3.2.4 - ARP Operation - ARP Reply


PC-A's ARP Cache
IPv4 Address MAC Address
B
192.168.1.120
MAC 00-0B
The target IPv4 is me!
A
C
192.168.1.110
MAC 00-0A
192.168.1.50
MAC 00-0C
192.168.1.1
MAC 00-0D
R1
Internet
Ethernet Header
ARP Request
Destination MAC
FF-FF
Source MAC
00-0A
Target IPv4
192.168.1.50
Target MAC
???
On Hold
Ethernet Header
IP Packet
Destination MAC
???
Source MAC
00-0A
Source IP
192.168.1.110
Destination IP
192.168.1.50


PC-A's ARP Cache
IPv4 Address MAC Address
B
192.168.1.120
MAC 00-0B
Here is my MAC address for the IPv4 address you were looking for!
A
C
192.168.1.110
MAC 00-0A
192.168.1.50
MAC 00-0C
192.168.1.1
MAC 00-0D
R1
Internet
Ethernet Header
ARP Reply
Destination MAC 00-0A
Source MAC 00-0C
Sender IPv4 192.168.1.50
Sender MAC 00-0C
On Hold
Ethernet Header
IP Packet
Destination MAC ???
Source MAC 00-0A
Source IP 192.168.1.110
Destination IP 192.168.1.50


PC-A's ARP Cache
IPv4 Address MAC Address
B
192.168.1.120
MAC 00-0B
Here is my MAC address for the IPv4 address you were looking for!
A
C
192.168.1.110
MAC 00-0A
192.168.1.50
MAC 00-0C
192.168.1.1
MAC 00-0D
R1
Internet
Ethernet Header
Destination MAC 00-0A
Source MAC 00-0C
ARP Reply
Sender IPv4 192.168.1.50
Sender MAC 00-0C
On Hold
Ethernet Header
Destination MAC ???
Source MAC 00-0A
IP Packet
Source IP 192.168.1.110
Destination IP 192.168.1.50



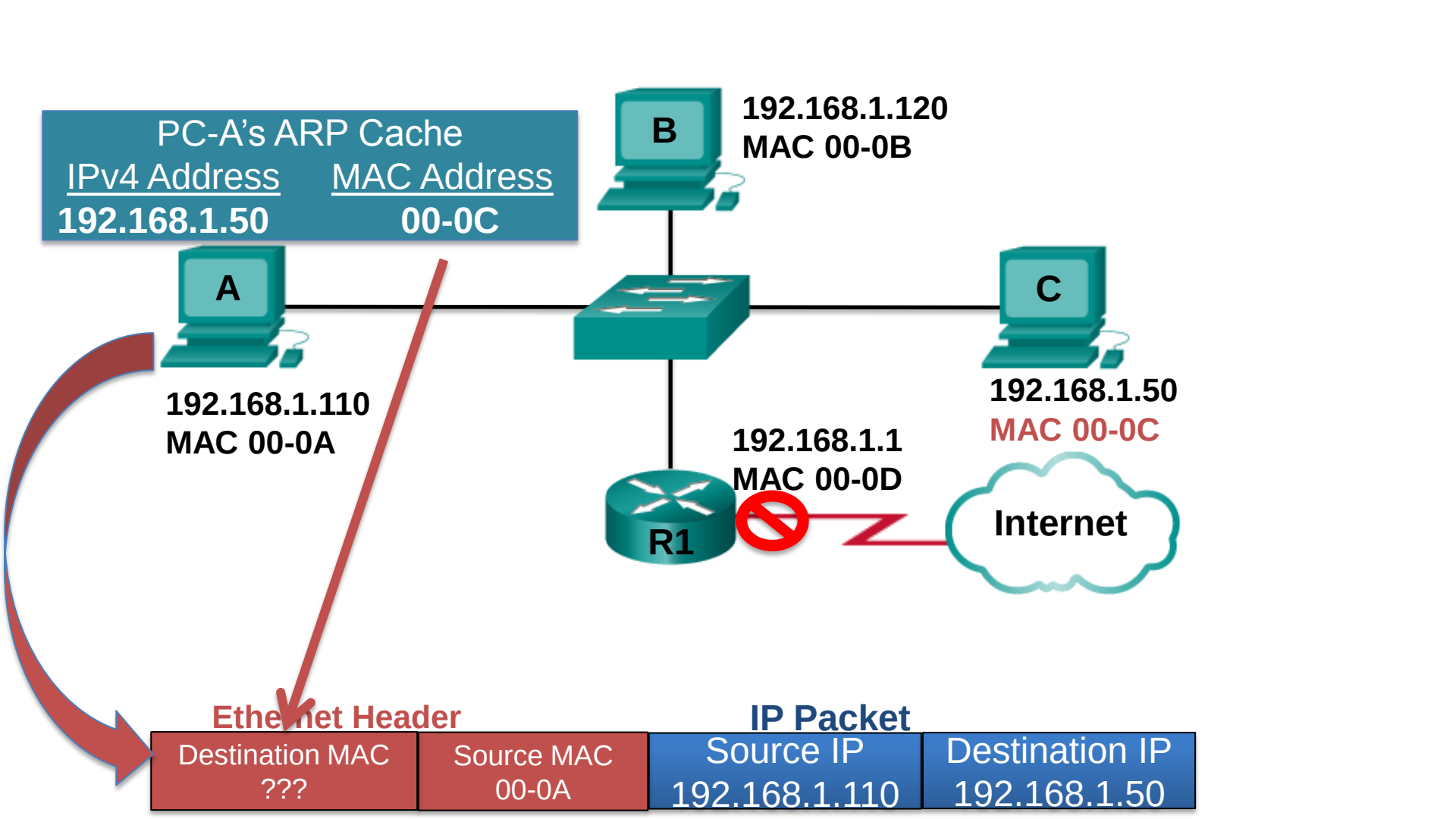
On Hold

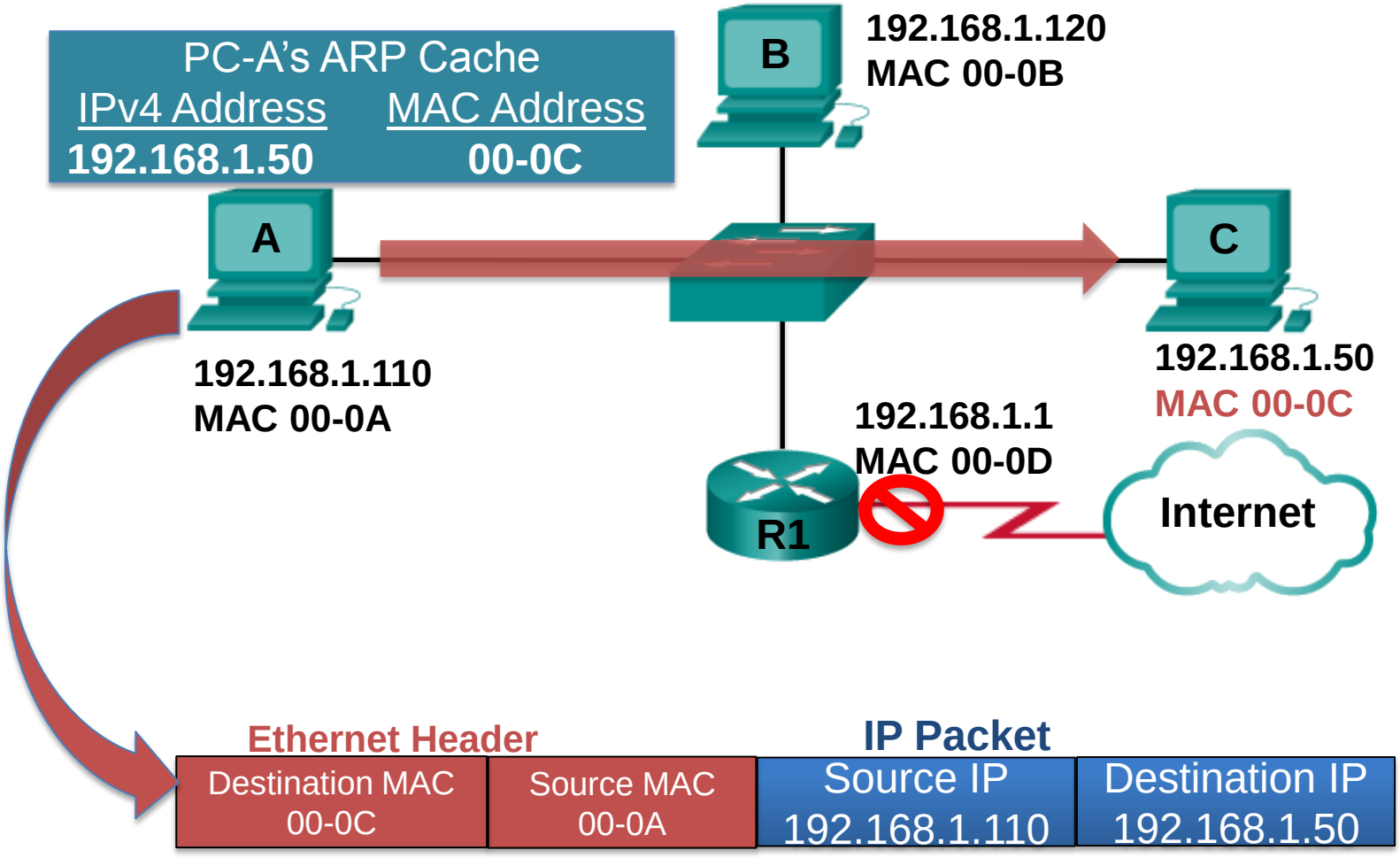
Ethernet Header

Destination MAC	Source MAC
???	00-0A

IP Packet

Source IP	Destination IP
192.168.1.110	192.168.1.50


PC-A's ARP Cache
IPv4 Address
MAC Address
192.168.1.50
00-0C
B
192.168.1.120
MAC 00-0B
A
C
192.168.1.110
MAC 00-0A
192.168.1.50
MAC 00-0C
192.168.1.1
MAC 00-0D
R1
Internet
Ethernet Header
IP Packet
Destination MAC
???
Source MAC
00-0A
Source IP
192.168.1.110
Destination IP
192.168.1.50


PC-A's ARP Cache
IPv4 Address
MAC Address
192.168.1.50
00-0C
B
192.168.1.120
MAC 00-0B
A
C
192.168.1.110
MAC 00-0A
192.168.1.50
MAC 00-0C
192.168.1.1
MAC 00-0D
R1
Internet
Ethernet Header
IP Packet
Destination MAC
00-0C
Source MAC
00-0A
Source IP
192.168.1.110
Destination IP
192.168.1.50