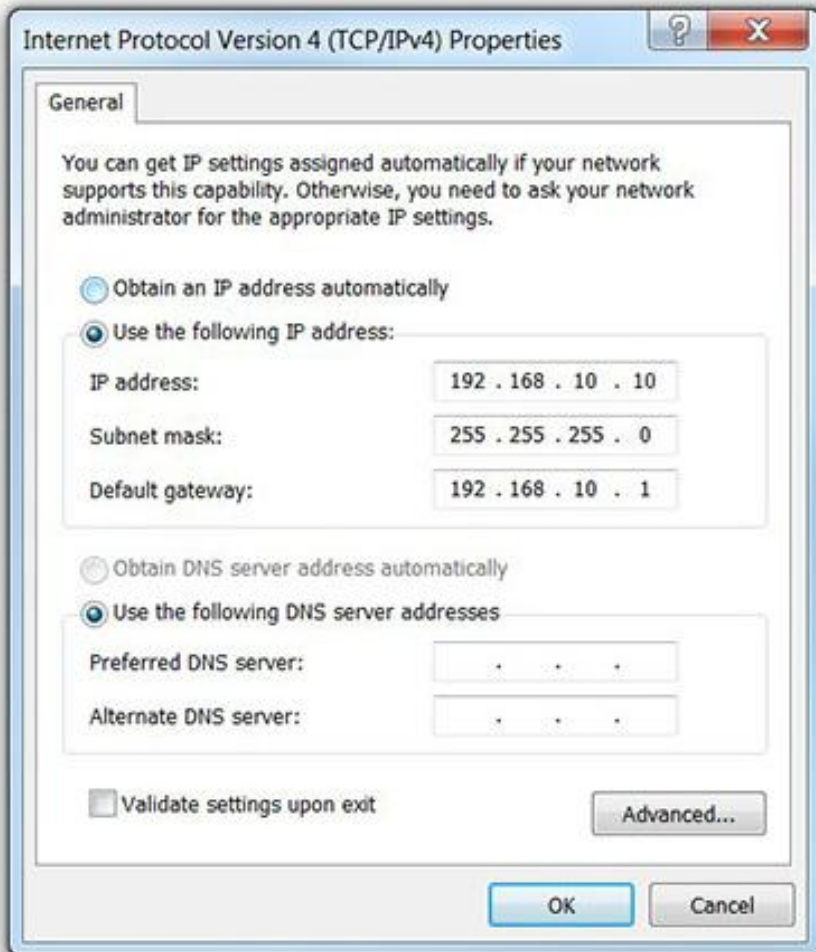


Static & Dynamic IPv4 Address Assignment to a Host

Static Assignment



Internet Protocol Version 4 (TCP/IPv4) Properties

General

You can get IP settings assigned automatically if your network supports this capability. Otherwise, you need to ask your network administrator for the appropriate IP settings.

☐ Obtain an IP address automatically

☒ Use the following IP address:

IP address: 192 . 168 . 10 . 10

Subnet mask: 255 . 255 . 255 . 0

Default gateway: 192 . 168 . 10 . 1

☐ Obtain DNS server address automatically

☒ Use the following DNS server addresses

Preferred DNS server: . . .

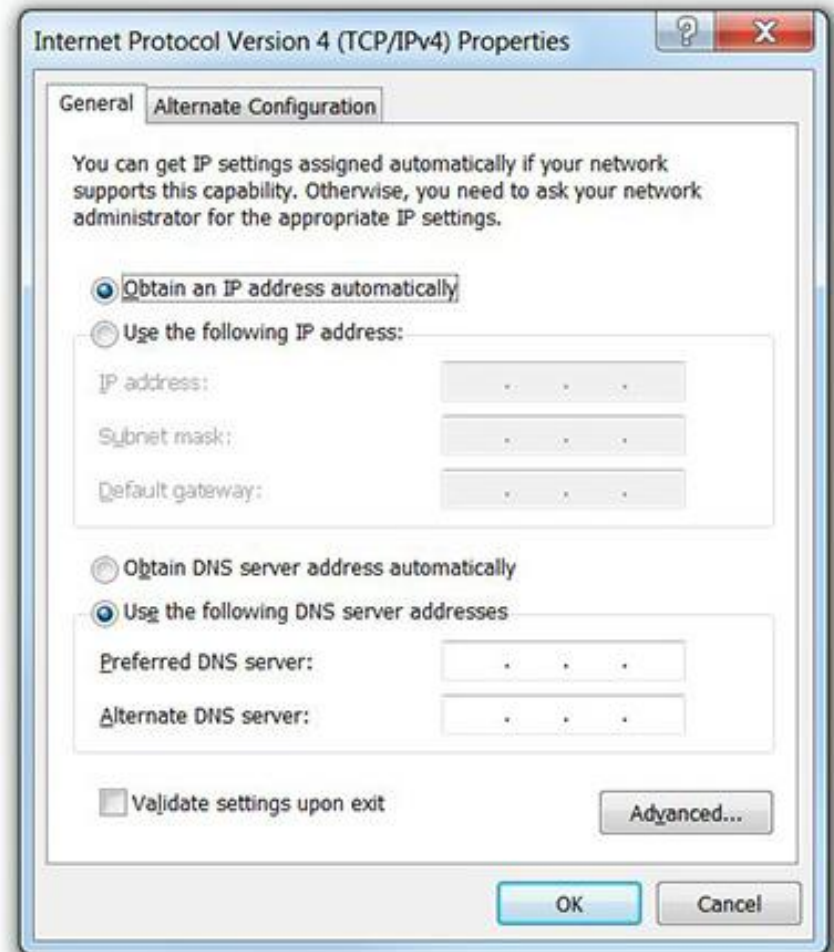
Alternate DNS server: . . .

☐ Validate settings upon exit

Advanced...

OK Cancel

Dynamic Assignment



Internet Protocol Version 4 (TCP/IPv4) Properties

General Alternate Configuration

You can get IP settings assigned automatically if your network supports this capability. Otherwise, you need to ask your network administrator for the appropriate IP settings.

☒ Obtain an IP address automatically

☐ Use the following IP address:

IP address: . . .

Subnet mask: . . .

Default gateway: . . .

☐ Obtain DNS server address automatically

☒ Use the following DNS server addresses

Preferred DNS server: . . .

Alternate DNS server: . . .

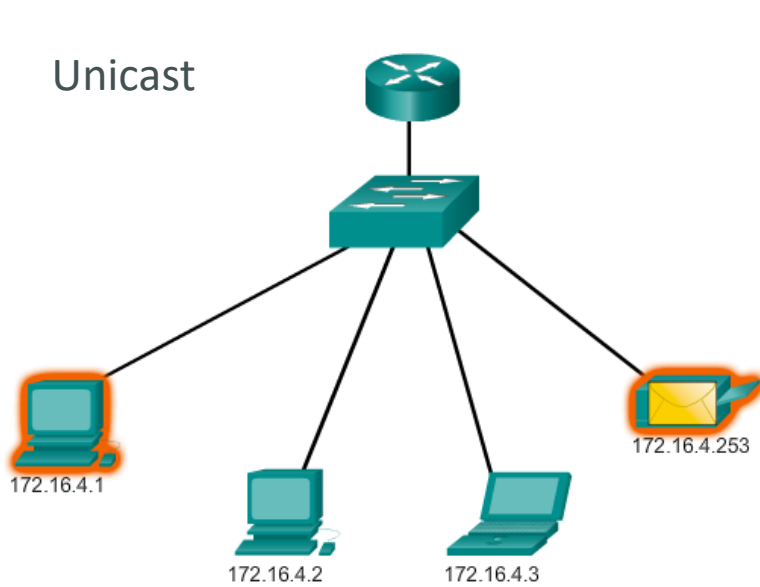
☐ Validate settings upon exit

Advanced...

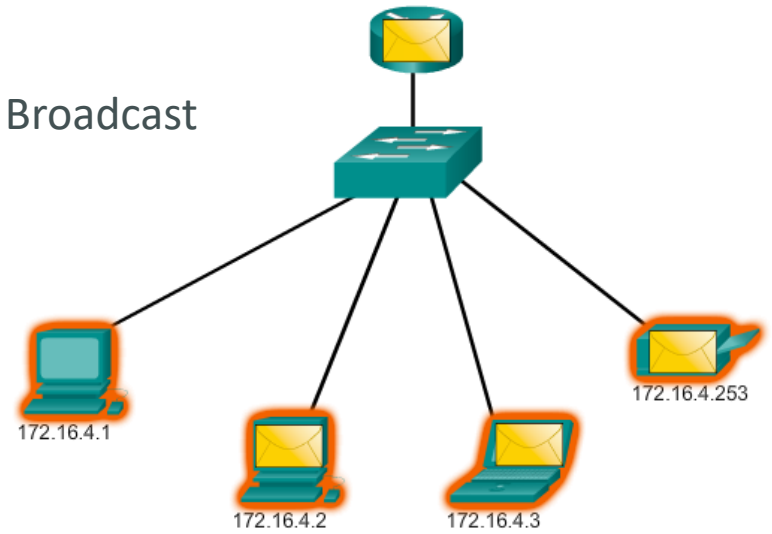
OK Cancel

IPv4 Communication

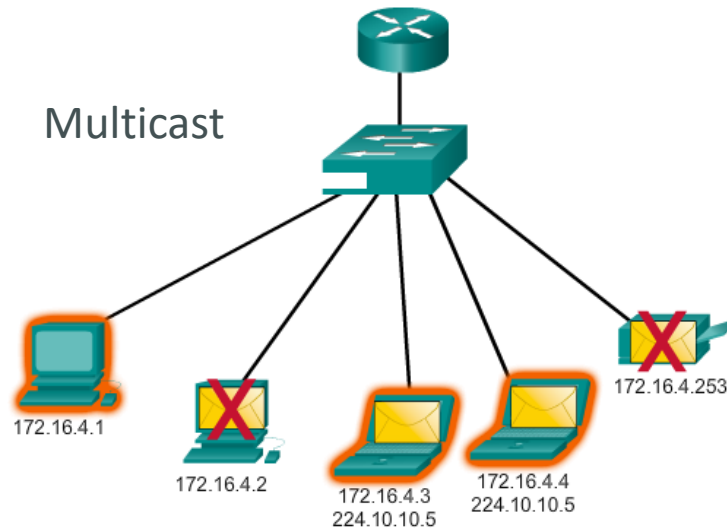
Unicast



Broadcast

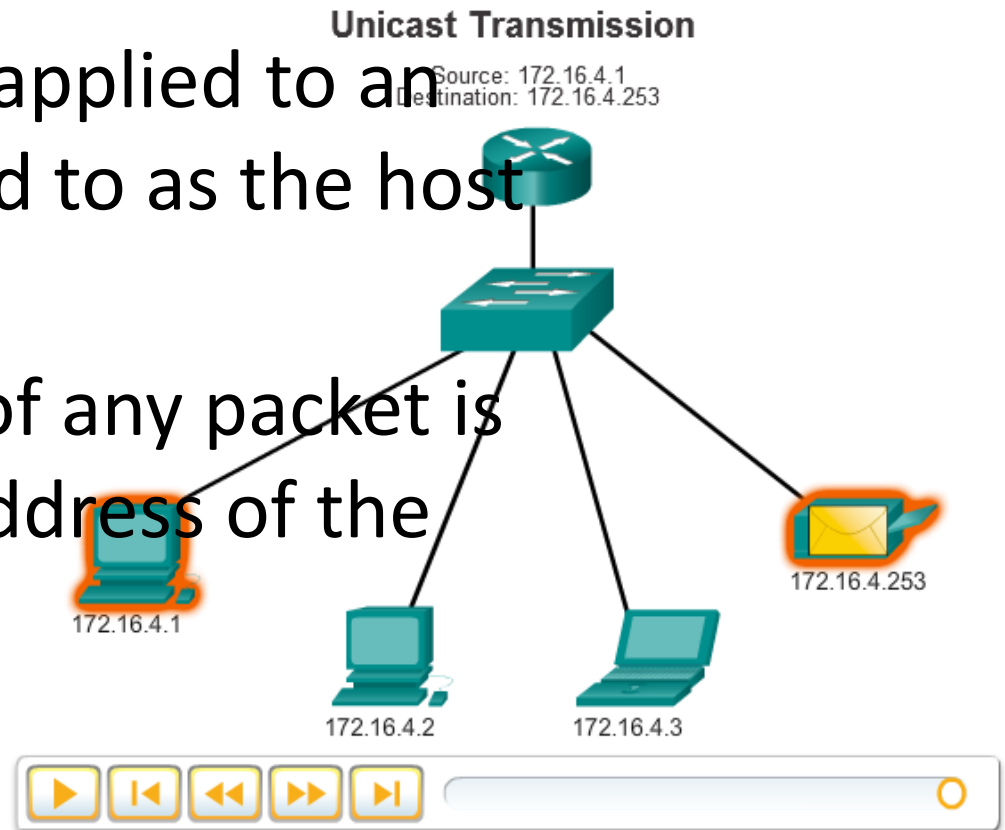


Multicast



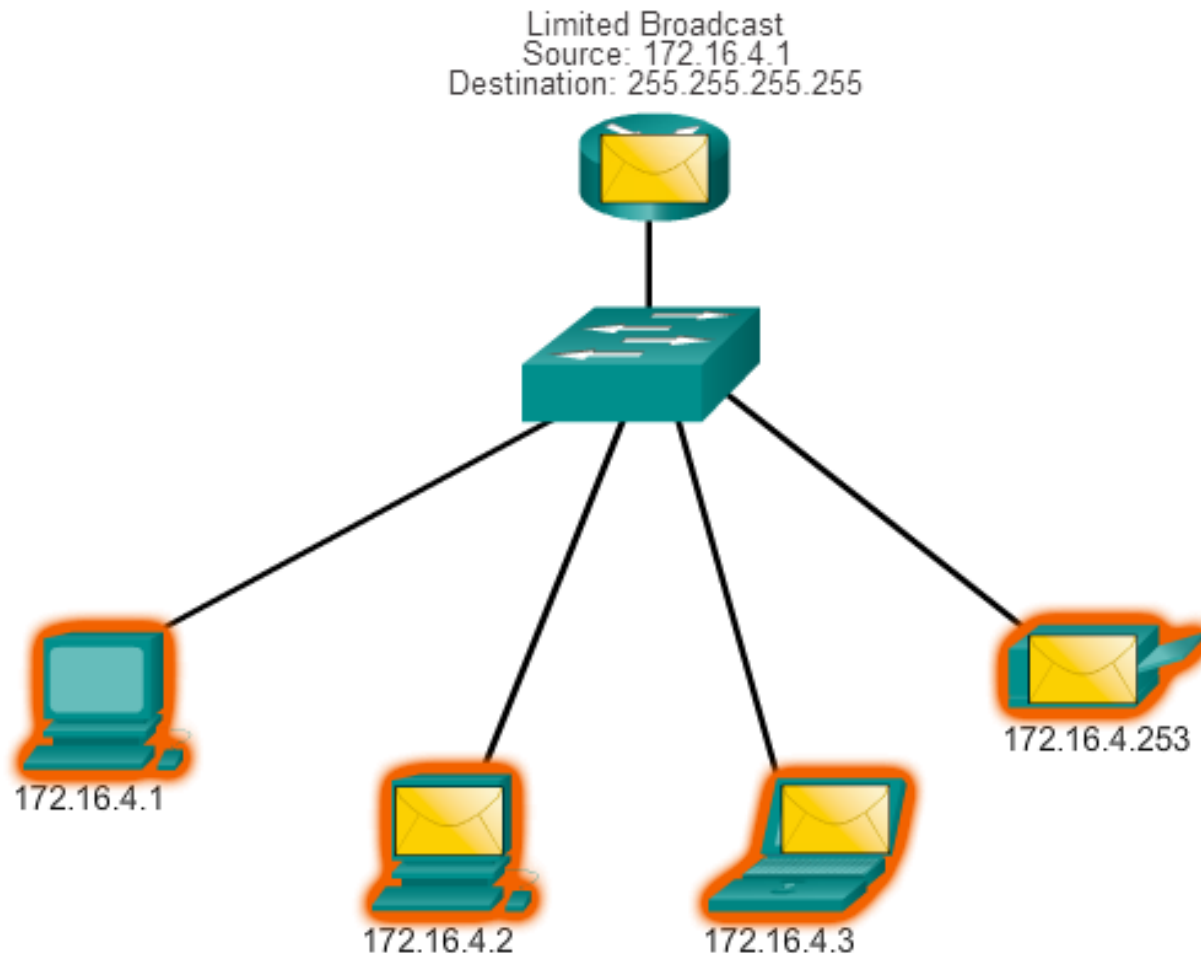
Unicast Transmission

- Unicast communication is used for normal host-to-host communication.
- The unicast address applied to an end device is referred to as the host address.
- The source address of any packet is always the unicast address of the originating host.



Broadcast Transmission

Limited Broadcast Transmission



Multicast Transmission

- A host sends a single packet to a selected set of hosts that subscribe to a multicast group.
- The 224.0.0.0 to 239.255.255.255 range of addresses are reserved for multicast.

