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IFT 259 Introduction to Internet Networking

Lab 6 Collision & Broadcast Domains

OBJECTIVES: To understand collision and broadcast domains

Collision & Broadcast Domains

www.youtube.com/watch?v= c1gqcr6Lcs www.youtube.com/watch?v=s3pq0bdZMz8

Hub

- 1 collision domain (no matter how many ports)
- If a hub is connected to another hub then still only 1 collision domain as the connected hub will also receive the message and send it to all connected ports

Switch

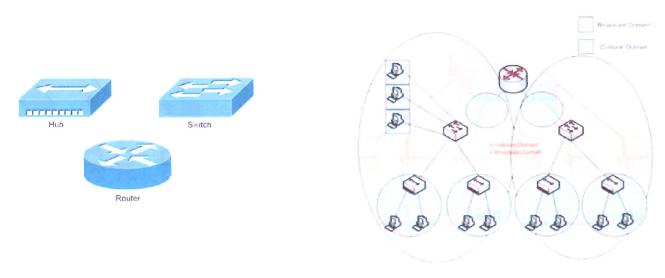
- · Each port is 1 collision domain
- · Link between two switches 1 CD
- Link between a switch and a router 1 CD

Router

- Each active port is 1 collision domain
- Each active port is in its own broadcast domain
- Broadcast domains are usually separated by a router since a router does not propagate/forward broadcasts
- Link between two routers 1 CD
- Link between a router and an end device 1 CD

Bridge

- Each port is 1 collision domain (2 interfaces so 2 collision domains)
- All segments on a bridge are in the same broadcast domain; and bridges forward all broadcast messages



Now you try these.....

How many collision domains are shown? How many broadcast domains are shown? BDs: CDs: BDs: CDs: Switch Switch el Hub Hub Sales Production 2 BDs: CDs: BDs: CDs:

BDs:

CDs:

CDs: 12

BDs: