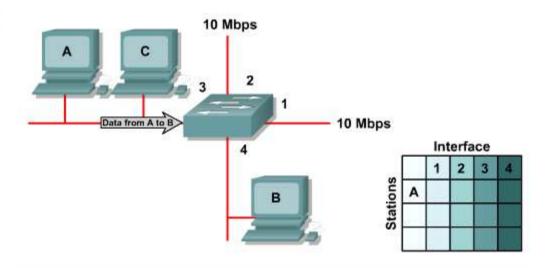
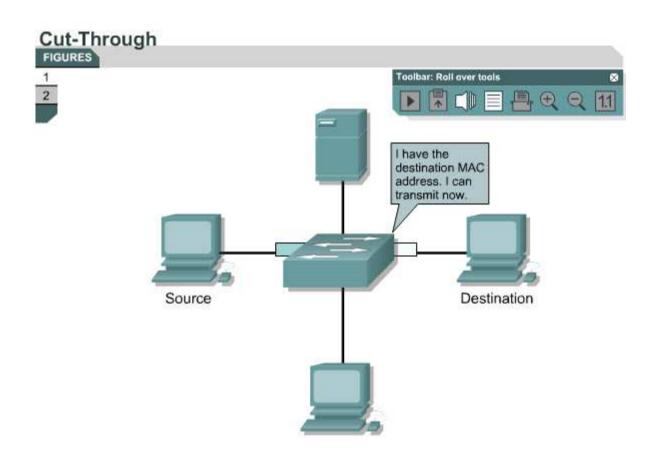
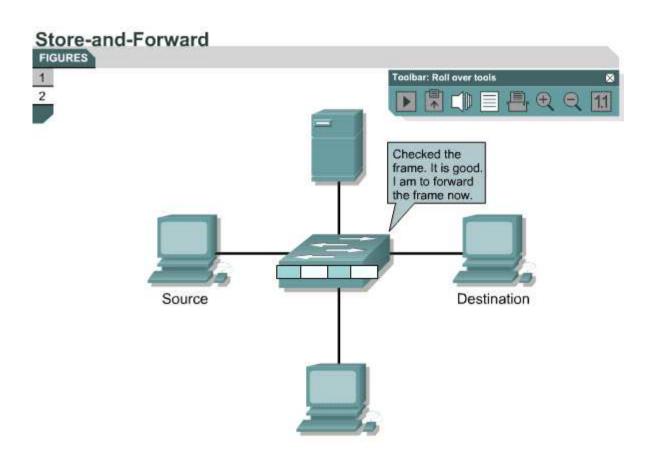
## Switch Operation

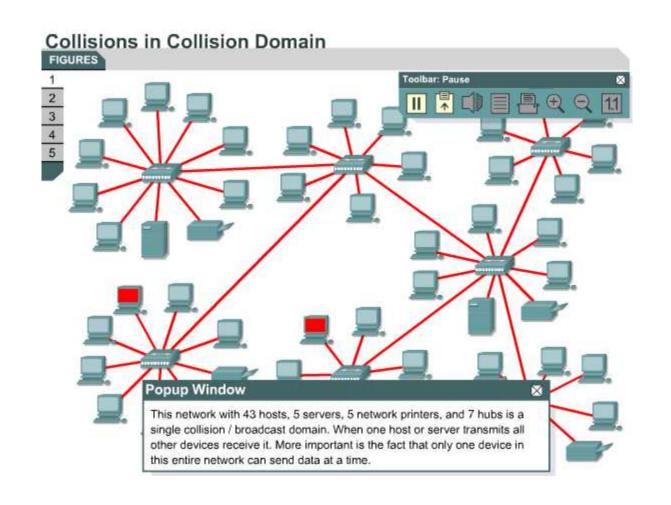
2



- · Forward packets based on MAC address in forwarding table
- · Operates at OSI Layer 2
- · Learns a station's location by examining source address

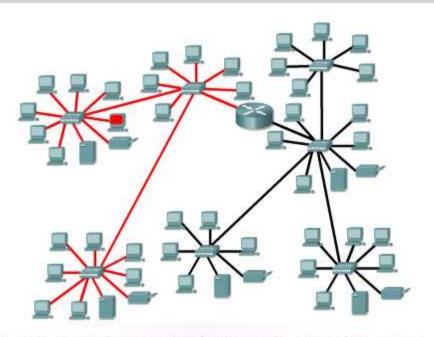




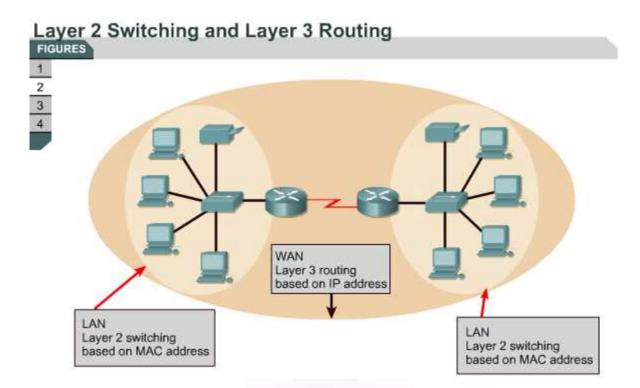


## Limiting the Collision Domain FIGURES 1 2 3 OR = Collision Domain

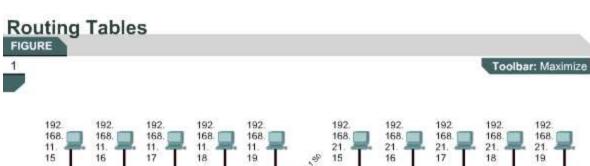
## Broadcast Domain Segmentation

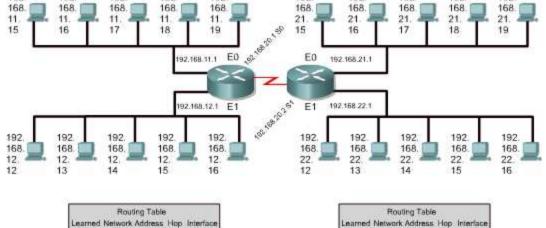


By using a router in place of a bridging device a Layer 2 broadcast is contained. Layer 3 devices are the only devices that contain broadcasts.



Layer 2 switching takes place within the LAN. Layer 3 routing moves traffic between broadcast domains. This requires the hierarchical addressing format that a Layer 3 addressing scheme like IP provides.





Learne	be	Network Address	Hop	Interface
С	8	192,168,11.0	0	E0
C	90	192.168.12.0	0	Et
C	Ħ	192.168.20.0	0	80
R	G	192.168.21.0	4	S0
R		192 168 22 0	1	190

		Routing Table	£	
Learne	ed	Network Address	Hop	Interface
C	ß.	192.168.21.0	0	E0
C	4	192.168.22.0	0	E1
C	1	192.168.20.0	0	St
R	16	192,168.11.0	14	\$1
R		192.168.12.0	14	51