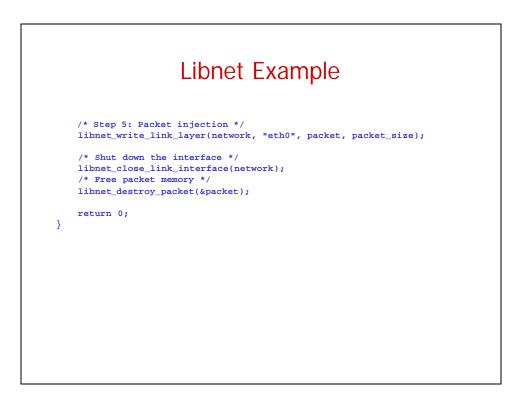
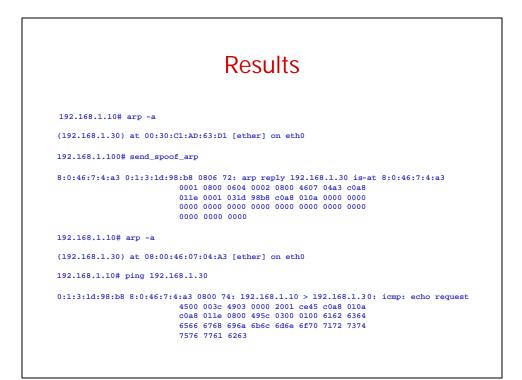
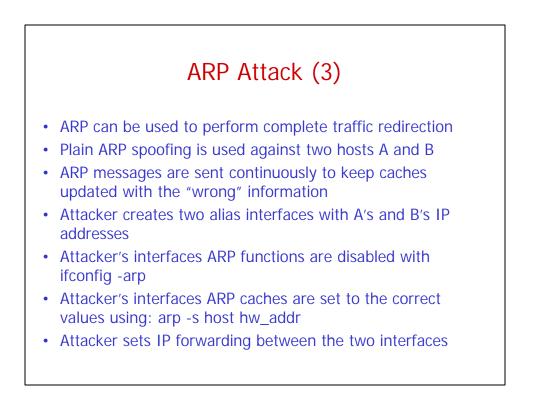


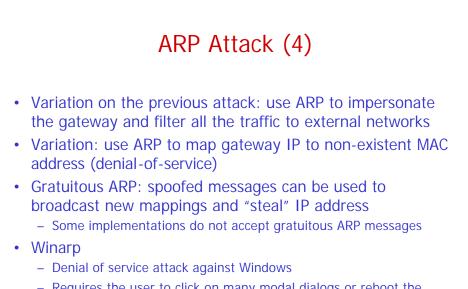
#include <libnet.h></libnet.h>	
/* 192.168.1.10 at 00:01:03:1D:98:B8	3 */
/* 192.168.1.100 at 08:00:46:07:04:A3	3 */
/* 192.168.1.30 at 00:30:C1:AD:63:D1	L */
u_char enet_dst[6] = {0x00, 0x01, 0x03	3. 0x1d. 0x98. 0xB8}:
u_char enet_src[6] = {0x08, 0x00, 0x46	
•	-
<pre>int main(int argc, char *argv[]) {</pre>	
<pre>int packet_size;</pre>	/* size of our packet */
<pre>u_long spf_ip = 0, dst_ip = 0; u char *packet;</pre>	/* spooled 1p, dest 1p */ /* pointer to our packet buffer */
char err buf[LIBNET ERRBUF SIZE];	
struct libnet link int *network;	
, <u>, , , , , , , , , , , , , , , , , , </u>	, pointer to rime interface ,
<pre>dst_ip = libnet_name_resolve("192.</pre>	.168.1.10", LIBNET_DONT_RESOLVE);
spf in = libnet name resolve("192)	.168.1.30", LIBNET DONT RESOLVE);

Libnet Example

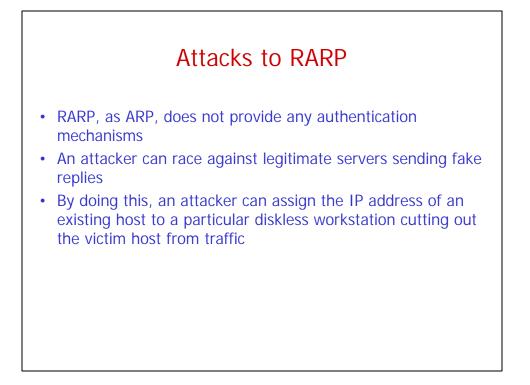








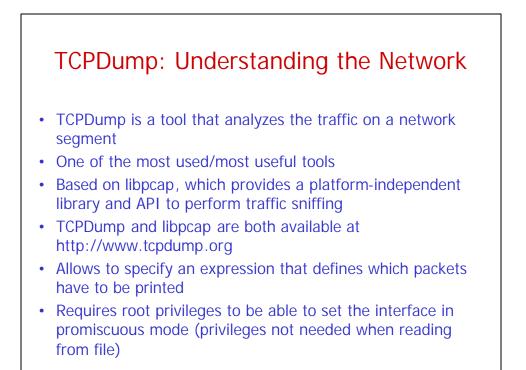
Requires the user to click on many modal dialogs or reboot the machine

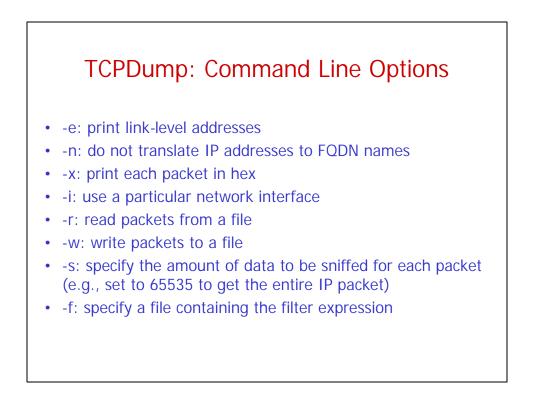


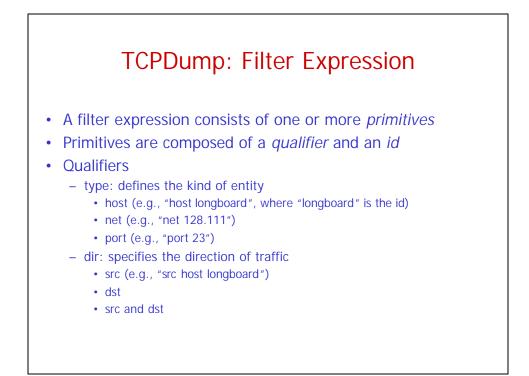
Fools arp Used to manipulate the system ARP cache Used to configure/monitor a network interface used to configure/monitor a network interface arpwatch arpwatch keeps track for Ethernet/IP address mappings It logs activity and reports certain changes via email arpwatch uses libpcap to listen for ARP packets

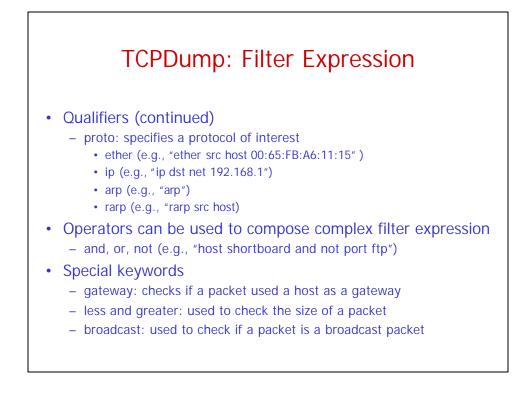
Wait a Minute! What About Switched Ethernet?

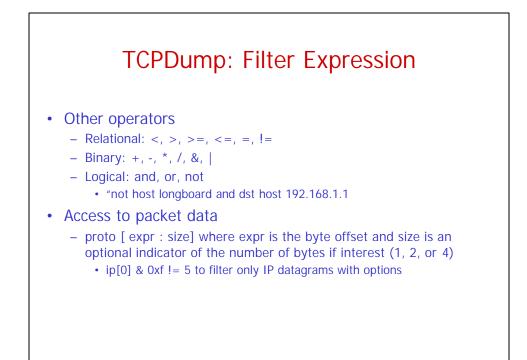
- Switched Ethernet does not allow direct sniffing
- ARP spoofing with forwarding can be used to bypass this protection
- MAC flooding
 - Switches maintain a table with MAC address/port mappings
 - Flooding the switch with bogus MAC address will overflow table memory and revert the behavior from "switch" to "hub"
- MAC duplicating/cloning
 - You reconfigure your host to have the same MAC address as the machine whose traffic you're trying to sniff
 - The switch will record this in its table and send the traffic to you

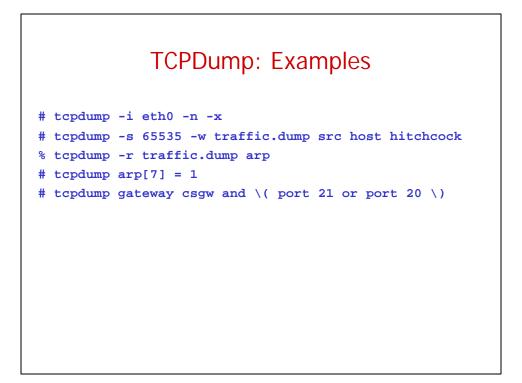


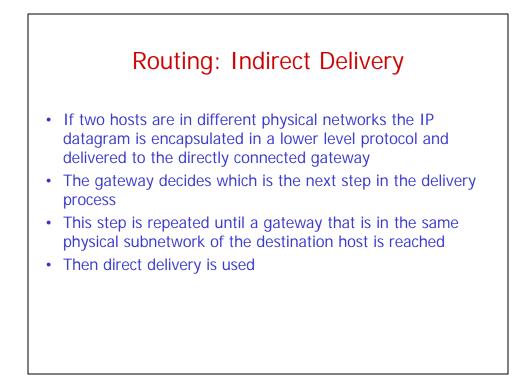


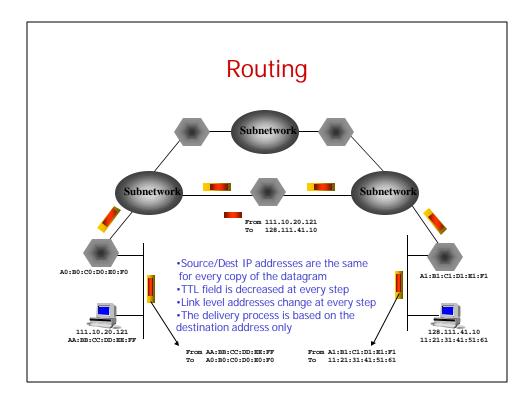


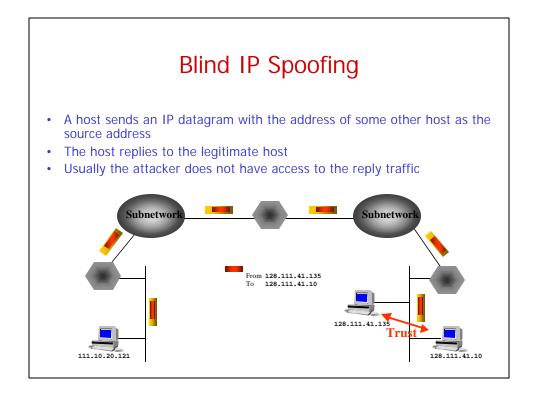


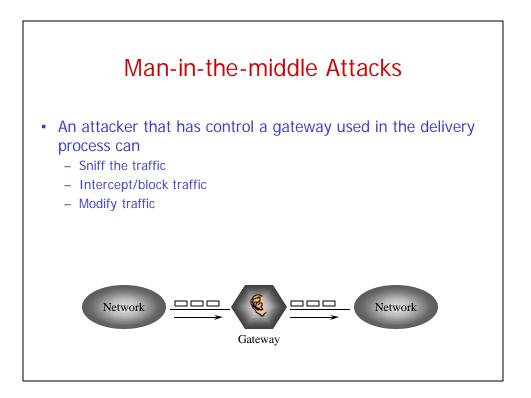


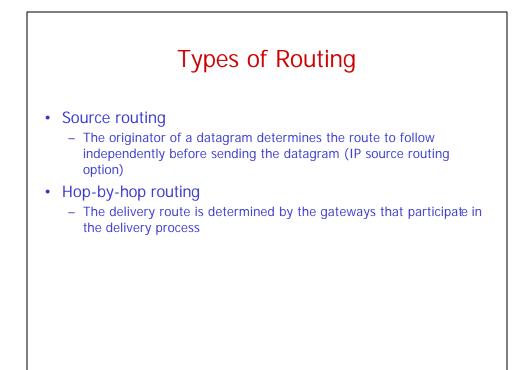


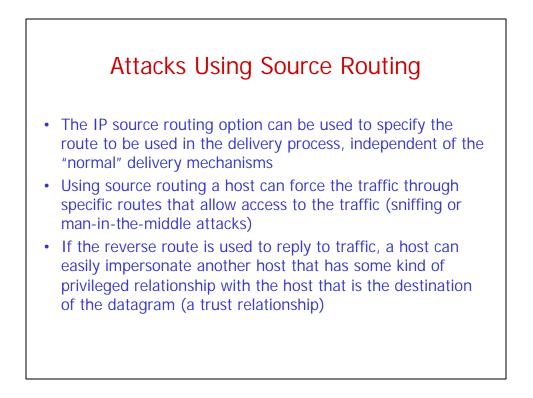


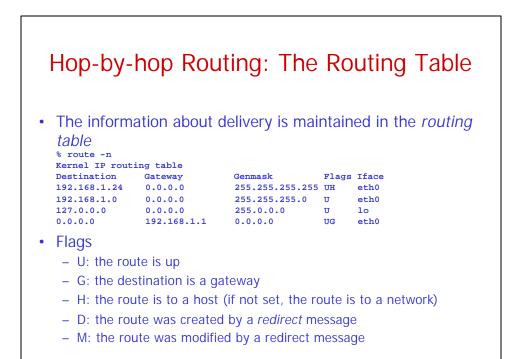


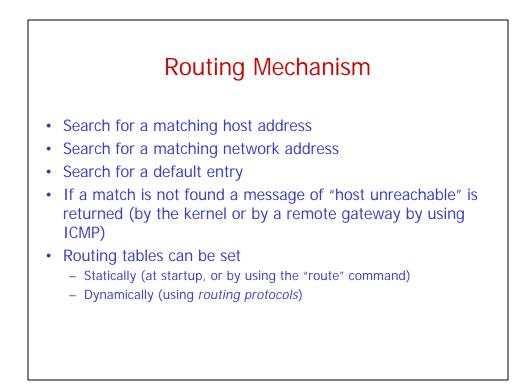


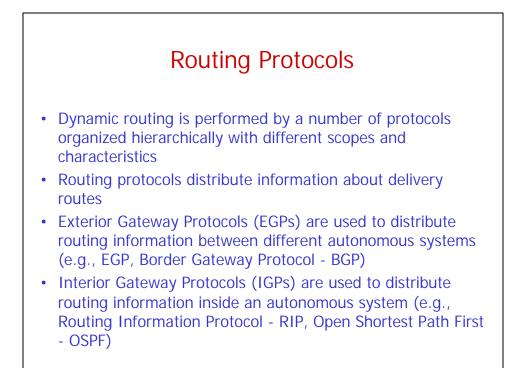


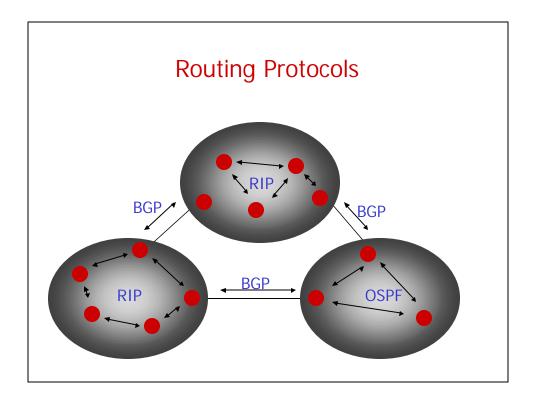


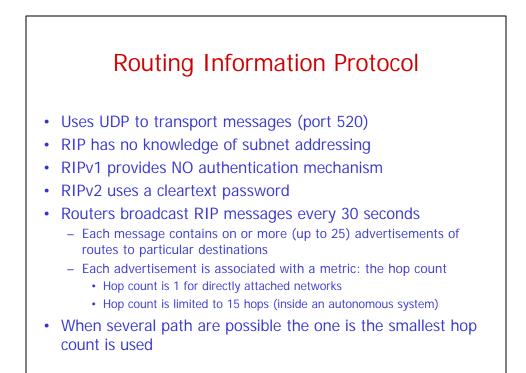


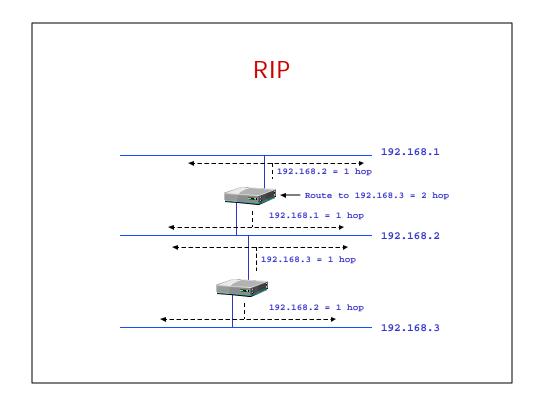




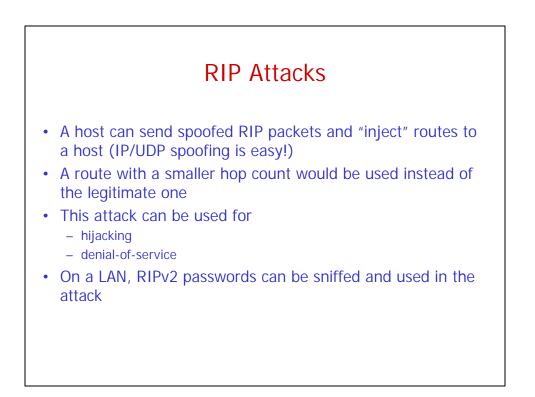












Open Shortest Path First

- Uses IP directly
- Instead of hop counts it uses a link-state information
 - Each router test the the status of its link to each of its neighbors
 - Then, it sends this information to its other neighbors
- It uses multicast for traffic delivery (instead of broadcast)
- It provides a cleartext password authentication mechanism