

Alexander Ross

2:

Host PC: 192.168.56.1

VM1: 192.168.100.4

VM2: 192.168.100.5

C:

The reason that computer 1 can trace the packets sent between computer 2 and 3 is because computer 1 is acting like a hub and is the gateway for the VM's to connect to the outside world, so all packets go through the host computer.

D: If we ran all computers through a physical switch, we would not have been able to intercept packets from PC2-PC3 as a switch will not flood packets to computer 1 because we would have the correct MAC Addresses and routes.

I did not do 2-3, 2-4 or 2-5

This is ScreenGrab of 2-1

1272	137.641492	192.168.100.5	192.168.100.4	ICMP	74 Echo (ping) request	id=0x0001, seq=1/256, ttl=128 (reply in 1273)
1273	137.641845	192.168.100.4	192.168.100.5	ICMP	74 Echo (ping) reply	id=0x0001, seq=1/256, ttl=128 (request in 1272)
1274	138.653822	192.168.100.5	192.168.100.4	ICMP	74 Echo (ping) request	id=0x0001, seq=2/512, ttl=128 (reply in 1275)
1275	138.654430	192.168.100.4	192.168.100.5	ICMP	74 Echo (ping) reply	id=0x0001, seq=2/512, ttl=128 (request in 1274)
1276	139.685099	192.168.100.5	192.168.100.4	ICMP	74 Echo (ping) request	id=0x0001, seq=3/768, ttl=128 (reply in 1277)
1277	139.685339	192.168.100.4	192.168.100.5	ICMP	74 Echo (ping) reply	id=0x0001, seq=3/768, ttl=128 (request in 1276)
1278	140.700060	192.168.100.5	192.168.100.4	ICMP	74 Echo (ping) request	id=0x0001, seq=4/1024, ttl=128 (reply in 1279)
1279	140.700290	192.168.100.4	192.168.100.5	ICMP	74 Echo (ping) reply	id=0x0001, seq=4/1024, ttl=128 (request in 1278)
1280	141.184857	fe80::194d:18f7:3dd_	ff02::16	ICMPv6	90 Multicast Listener Report Message v2	
1297	166.443578	192.168.100.5	192.168.56.1	ICMP	74 Echo (ping) request	id=0x0001, seq=5/1280, ttl=128 (reply in 1298)
1298	166.444169	192.168.56.1	192.168.100.5	ICMP	74 Echo (ping) reply	id=0x0001, seq=5/1280, ttl=127 (request in 1297)
1299	167.466277	192.168.100.5	192.168.56.1	ICMP	74 Echo (ping) request	id=0x0001, seq=6/1536, ttl=128 (reply in 1300)
1300	167.466855	192.168.56.1	192.168.100.5	ICMP	74 Echo (ping) reply	id=0x0001, seq=6/1536, ttl=127 (request in 1299)
1301	168.481896	192.168.100.5	192.168.56.1	ICMP	74 Echo (ping) request	id=0x0001, seq=7/1792, ttl=128 (reply in 1302)
1302	168.482278	192.168.56.1	192.168.100.5	ICMP	74 Echo (ping) reply	id=0x0001, seq=7/1792, ttl=127 (request in 1301)
1303	169.513002	192.168.100.5	192.168.56.1	ICMP	74 Echo (ping) request	id=0x0001, seq=8/2048, ttl=128 (reply in 1304)
1304	169.513477	192.168.56.1	192.168.100.5	ICMP	74 Echo (ping) reply	id=0x0001, seq=8/2048, ttl=127 (request in 1303)

This is Screen grab of 2-2

