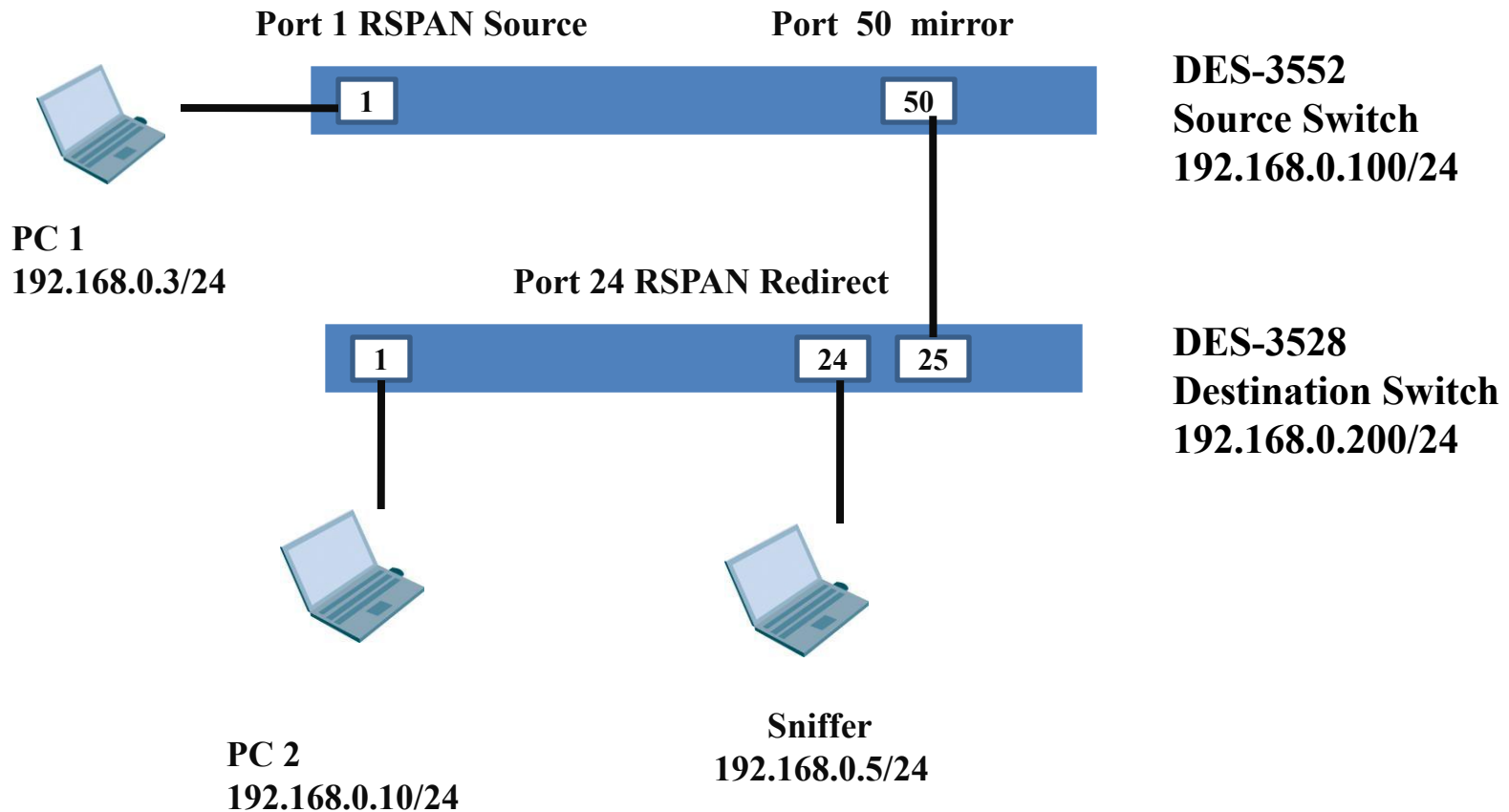


# RSPAN

Jason Chang  
2009.07.01

# Topology



# Command

- DES-3552 Source Switch ( FW 2.11.B008)

enable rspan

create vlan vlanid 100

config mirror port 50 add source ports 1 both

enable mirror

config vlan vlanid 100 name RSPAN\_VLAN

create rspan vlan vlan\_name RSPAN\_VLAN

config rspan vlan vlan\_name RSPAN\_VLAN source add ports 1 both

# Command (cont.)

- DES-3528 Destination Switch (FW 2.00.B003)

```
enable rspan
```

```
create vlan vlanid 100
```

```
config vlan vlanid 100 add tagged 24-25
```

```
config vlan vlanid 100 name RSPAN_VLAN
```

```
create rspan vlan vlan_name RSPAN_VLAN
```

```
config rspan vlan vlan_name RSPAN_VLAN redirect add port 24
```

# Test Result

- PC1 (192.168.0.3) can ping PC2 (192.168.0.10) successfully!
- Sniffer PC can capture ICMP packets ( both RX & TX ) from the traffic between PC1 & PC2

# Test Result

The image shows a Wireshark capture of network traffic. The main pane displays a list of 18 packets. The first two are ARP requests for 192.168.0.10. The third is an ARP reply. The remaining 15 packets are ICMP Echo (ping) requests and replies between 192.168.0.10 and 192.168.0.3.

No.	Time	Source	Destination	Protocol	Info
1	0.000000	Giga-Byt_ef:ba:82	Broadcast	ARP	who has 192.168.0.10? Tell 192.168.0.3
2	0.000010	Giga-Byt_ef:ba:82	Broadcast	ARP	who has 192.168.0.10? Tell 192.168.0.3
3	0.000235	Toshiba_e1:d6:25	Giga-Byt_ef:ba:82	ARP	192.168.0.10 is at 00:0e:7b:e1:d6:25
4	0.000238	192.168.0.3	192.168.0.10	ICMP	Echo (ping) request
5	0.000407	192.168.0.10	192.168.0.3	ICMP	Echo (ping) reply
6	0.993276	192.168.0.3	192.168.0.10	ICMP	Echo (ping) request
7	0.993540	192.168.0.10	192.168.0.3	ICMP	Echo (ping) reply
8	1.993111	192.168.0.3	192.168.0.10	ICMP	Echo (ping) request
9	1.993357	192.168.0.10	192.168.0.3	ICMP	Echo (ping) reply
10	2.993106	192.168.0.3	192.168.0.10	ICMP	Echo (ping) request
11	2.993347	192.168.0.10	192.168.0.3	ICMP	Echo (ping) reply
12	3.993136	192.168.0.3	192.168.0.10	ICMP	Echo (ping) request
13	3.993360	192.168.0.10	192.168.0.3	ICMP	Echo (ping) reply
14	4.993149	192.168.0.3	192.168.0.10	ICMP	Echo (ping) request
15	4.993387	192.168.0.10	192.168.0.3	ICMP	Echo (ping) reply
16	5.993182	192.168.0.3	192.168.0.10	ICMP	Echo (ping) request
17	5.993421	192.168.0.10	192.168.0.3	ICMP	Echo (ping) reply
18	6.993225	192.168.0.3	192.168.0.10	ICMP	Echo (ping) request

**Frame 5 (82 bytes on wire, 82 bytes captured)**

- Ethernet II, Src: Toshiba\_e1:d6:25 (00:0e:7b:e1:d6:25), Dst: Giga-Byt\_ef:ba:82 (00:0f:ea:ef:ba:82)
- 802.1Q Virtual LAN, PRI: 0, CFI: 0, ID: 100
  - 000. .... = Priority: 0
  - ...0 .... = CFI: 0
  - .... 0000 0110 0100 = ID: 100
  - Type: 802.1Q Virtual LAN (0x8100)
- 802.1Q Virtual LAN, PRI: 0, CFI: 0, ID: 1
  - 000. .... = Priority: 0
  - ...0 .... = CFI: 0
  - .... 0000 0000 0001 = ID: 1
  - Type: IP (0x0800)
- Internet Protocol, Src: 192.168.0.10 (192.168.0.10), Dst: 192.168.0.3 (192.168.0.3)
- Internet Control Message Protocol

```
0000 00 0f ea ef ba 82 00 0e 7b e1 d6 25 81 00 00 64 ..... {.%...d
0010 81 00 00 01 08 00 45 00 00 3c 05 cd 00 00 80 01 .....E. .<.....
0020 b3 96 c0 a8 00 0a c0 a8 00 03 00 00 a4 5b 04 00 ..... [..
0030 ad 00 61 62 63 64 65 66 67 68 69 6a 6b 6c 6d 6e ..abcdef ghijklmn
0040 6f 70 71 72 73 74 75 76 77 61 62 63 64 65 66 67 opqrstuv wabcdeff
```