

Joel Trainer Assignment 4:

Before adding table entries. Sent 10 packets and got 10 packets back.

No.	Time	Source	Destination	Protocol	Length	Info
1	0.000000000	192.168.10.1	192.168.10.2	UDP	64	50000 → 1024 Len=22
2	0.001129658	192.168.10.1	192.168.10.2	UDP	64	50000 → 1024 Len=22
3	0.049028840	192.168.10.1	192.168.10.2	UDP	64	50000 → 1024 Len=22
4	0.049636490	192.168.10.1	192.168.10.2	UDP	64	50000 → 1024 Len=22
5	0.105314692	192.168.10.1	192.168.10.2	UDP	64	50000 → 1024 Len=22
6	0.105885811	192.168.10.1	192.168.10.2	UDP	64	50000 → 1024 Len=22
7	0.156902095	192.168.10.1	192.168.10.2	UDP	64	50000 → 1024 Len=22
8	0.157766574	192.168.10.1	192.168.10.2	UDP	64	50000 → 1024 Len=22
9	0.228962192	192.168.10.1	192.168.10.2	UDP	64	50000 → 1024 Len=22
10	0.229859470	192.168.10.1	192.168.10.2	UDP	64	50000 → 1024 Len=22
11	0.272766461	192.168.10.1	192.168.10.2	UDP	64	50000 → 1024 Len=22
12	0.273565748	192.168.10.1	192.168.10.2	UDP	64	50000 → 1024 Len=22
17	0.337092571	192.168.10.1	192.168.10.2	UDP	64	50000 → 1024 Len=22
18	0.337705004	192.168.10.1	192.168.10.2	UDP	64	50000 → 1024 Len=22
19	0.392960068	192.168.10.1	192.168.10.2	UDP	64	50000 → 1024 Len=22
▶ Frame 1: 64 bytes on wire (512 bits), 64 bytes captured (512 bits) on interface enx0c37965f8a16, id 0						
▼ Ethernet II, Src: 00:00:00_00:00:02 (00:00:00:00:00:02), Dst: 00:00:00_00:00:01 (00:00:00:00:00:01)						
▶ Frame 2: 64 bytes on wire (512 bits), 64 bytes captured (512 bits) on interface enx0c37965f8a16, id 0						
▼ Ethernet II, Src: 00:00:00_00:00:01 (00:00:00:00:00:01), Dst: 00:00:00_00:00:02 (00:00:00:00:00:02)						

Half the packets are going from mac address 02 to 01 and half from 01 to 02

Can I add table entries so code will drop packets I send?

```
RuntimeCmd: table_add MyIngress.src_mac_drop MyIngress.drop 00:00:00
:00:00:02 =>
Adding entry to exact match table MyIngress.src_mac_drop
match key:          EXACT-00:00:00:00:00:02
action:             MyIngress.drop
runtime data:
Entry has been added with handle 1
```

After dropping packets I sent:

5	4.897091087	192.168.10.1	192.168.10.2	UDP	64	50000 → 1024 Len=22
6	4.937203286	192.168.10.1	192.168.10.2	UDP	64	50000 → 1024 Len=22
11	5.018328392	192.168.10.1	192.168.10.2	UDP	64	50000 → 1024 Len=22
12	5.082032851	192.168.10.1	192.168.10.2	UDP	64	50000 → 1024 Len=22
13	5.150074817	192.168.10.1	192.168.10.2	UDP	64	50000 → 1024 Len=22
14	5.205911505	192.168.10.1	192.168.10.2	UDP	64	50000 → 1024 Len=22
15	5.261484062	192.168.10.1	192.168.10.2	UDP	64	50000 → 1024 Len=22
16	5.317437923	192.168.10.1	192.168.10.2	UDP	64	50000 → 1024 Len=22
17	5.377995329	192.168.10.1	192.168.10.2	UDP	64	50000 → 1024 Len=22
18	5.422080504	192.168.10.1	192.168.10.2	UDP	64	50000 → 1024 Len=22
▼ Ethernet II, Src: 00:00:00_00:00:02 (00:00:00:00:00:02), Dst: 00:00:00_00:00:01 (00:00:00:00:00:01)						
▶ Destination: 00:00:00_00:00:01 (00:00:00:00:00:01)						

The source for these is only mac address 02 as all the 01 packets were dropped.