# Project2 Internet Technology

#### \$ifconfig

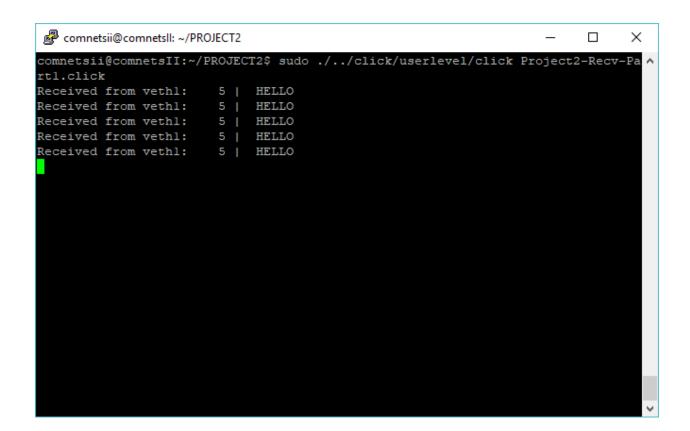
veth1 Link encap:Ethernet HWaddr c6:19:64:19:f7:9e inet addr:192.168.56.125 Bcast:192.168.56.255 Mask:255.255.255.0

veth2 Link encap:Ethernet HWaddr 76:3c:a0:ec:19:04 inet addr:192.168.56.126 Bcast:192.168.56.255 Mask:255.255.255.0

```
comnetsii@comnetsll: ~
                                                                               Х
ovs-bridge Link encap:Ethernet HWaddr 3e:6e:63:2c:41:4c
         inet6 addr: fe80::ec28:abff:febc:6b7b/64 Scope:Link
         UP BROADCAST RUNNING MTU:1500 Metric:1
         RX packets:1375 errors:0 dropped:1036 overruns:0 frame:0
         TX packets:8 errors:0 dropped:0 overruns:0 carrier:0
         collisions:0 txqueuelen:0
         RX bytes:34632 (34.6 KB) TX bytes:648 (648.0 B)
         Link encap:Ethernet HWaddr c6:19:64:19:f7:9e
vethl
         inet addr:192.168.56.125 Bcast:192.168.56.255 Mask:255.255.255.0
         inet6 addr: fe80::c419:64ff:fe19:f79e/64 Scope:Link
         UP BROADCAST RUNNING MTU:1500 Metric:1
         RX packets:1527 errors:0 dropped:1020 overruns:0 frame:0
         TX packets:196 errors:0 dropped:0 overruns:0 carrier:0
         collisions:0 txqueuelen:0
         RX bytes:37479 (37.4 KB) TX bytes:3976 (3.9 KB)
veth2
         Link encap:Ethernet HWaddr 76:3c:a0:ec:19:04
         inet addr:192.168.56.126 Bcast:192.168.56.255 Mask:255.255.255.0
         inet6 addr: fe80::743c:a0ff:feec:1904/64 Scope:Link
         UP BROADCAST RUNNING MTU:1500 Metric:1
         RX packets:202 errors:0 dropped:0 overruns:0 frame:0
         TX packets:1570 errors:0 dropped:0 overruns:0 carrier:0
         collisions:0 txqueuelen:0
         RX bytes:4444 (4.4 KB) TX bytes:37021 (37.0 KB)
comnetsii@comnetsII:~$
comnetsii@comnetsII:~$
comnetsii@comnetsII:~$
comnetsii@comnetsII:~$
```

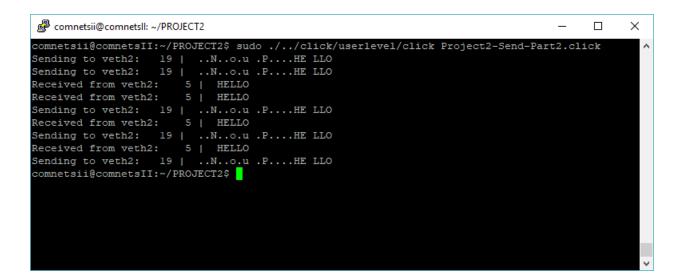
### Part1

## \$ cat Project2-Recv-Part1.click //Project2 Part1 Receive token FromDevice (veth1) -> Strip(14) -> Print('Received from veth1', MAXLENGTH -1, CONTENTS ASCII) -> Discard(); \$ cat Project2-Send-Part1.click //Project2 Part1 Send token to vth2 rp :: RatedSource(DATA \<48 45 4C 4C 4F>, RATE 1, LIMIT 5, ACTIVE true, STOP true); ->EtherEncap(0x0800, veth1, veth2) ->Queue ->Print('Sending to veth2', CONTENTS ASCII) ->ToDevice(veth2); Putty1 Х comnetsii@comnetsII:~/PROJECT2\$ sudo ./../click/userlevel/click Project2-Send-Pa ^ rtl.click Sending to veth2: 19 | ..N..o.u .P....HE LLO comnetsii@comnetsII:~/PROJECT2\$



### PART2

```
$ cat Project2-Send-Part2.click
//Project2 Part2 Send token and receive the token back from veth2
rp :: RatedSource(DATA \<48 45 4C 4C 4F>, RATE 1, LIMIT 5, ACTIVE
true, STOP true);
rp
->EtherEncap(0x0800, veth1, veth2)
->Queue
->Print('Sending to veth2', CONTENTS ASCII)
->ToDevice(veth2);
rp2 :: FromDevice(veth2)
-> Strip(14)
-> Print('Received from veth2', CONTENTS ASCII)
-> Discard();
$ cat Project2-Recv-Part2.click
//Project2 Part2 Receive token and send back received token
rp :: FromDevice(veth1);
rp2 ::
        Strip(14)
->Print('Sending to veth1', CONTENTS ASCII)
->EtherEncap(0x0800, veth2, veth1)
->Queue
->ToDevice(veth1);
rp -> Print('Received from veth1', MAXLENGTH -1, CONTENTS ASCII) ->
rp2;
```



### Putty2

