2. In the screenshot the *dump* command is called and so all info related to the custom mininet is "dumped." Also *pingall* is called which pings all hosts and shows they are reachable from all other hosts.

3. The connects speed is 17.4 Gbits/sec

```
File Edit Tabs Help

mininet@mininet-vm:~/Desktop/Labl$ sudo python ezohar-topo.py
mininet> iperf

*** Iperf: testing TCP bandwidth between h1 and h6

*** Results: ['17.4 Gbits/sec', '17.4 Gbits/sec']
mininet>
```

4. a. For the command *h1 ping -c 5 h6* there are a total of **11** "of_packet_in" message.

/3 33.003010000 12/.0.0.1	127.0.0.1	V. 1.V	/o or_como_repey
81 35.00562900(127.0.0.1	127.0.0.1	OF 1.0	76 of_echo_reply
84 37.58484800(10.0.0.1	10.0.0.6	OF 1.0	184 of_packet_in
85 37.58531800(127.0.0.1	127.0.0.1	OF 1.0	92 of_packet_out
91 37.58576900(10.0.0.1	10.0.0.6	OF 1.0	184 of_packet_in
92 37.58627000(127.0.0.1	127.0.0.1	OF 1.0	92 of_packet_out
100 37.58686300(10.0.0.6	10.0.0.1	OF 1.0	184 of_packet_in
101 37.58693200(10.0.0.1	10.0.0.6	OF 1.0	184 of_packet_in
102 37.58720000(127.0.0.1	127.0.0.1	OF 1.0	148 of_flow_add
105 37.58751900(10.0.0.6	10.0.0.1	OF 1.0	184 of_packet_in
106 37.58809800(127.0.0.1	127.0.0.1	OF 1.0	92 of_packet_out
111 37.58862700(127.0.0.1	127.0.0.1	OF 1.0	148 of_flow_add
118 38.59932600(10.0.0.1	10.0.0.6	OF 1.0	184 of_packet_in
119 38.60129800(127.0.0.1	127.0.0.1	OF 1.0	148 of_flow_add
123 38.60332600(10.0.0.1	10.0.0.6	OF 1.0	184 of_packet_in
124 38.60486900(127.0.0.1	127.0.0.1	OF 1.0	148 of_flow_add
157 41.99941800(127.0.0.1	127.0.0.1	OF 1.0	76 of_echo_request
158 41.99995600(127.0.0.1	127.0.0.1	OF 1.0	76 of_echo_reply
165 42.60365400(76:6a:86:65:48:48	7a:f8:e2:6b:46:e2	OF 1.0	128 of_packet_in
166 42.60444900(127.0.0.1	127.0.0.1	OF 1.0	148 of_flow_add
170 42.60569500(76:6a:86:65:48:48	7a:f8:e2:6b:46:e2	OF 1.0	128 of_packet_in
171 42.60597200(127.0.0.1	127.0.0.1	OF 1.0	148 of_flow_add
175 42.60709400(7a:f8:e2:6b:46:e2	76:6a:86:65:48:48	OF 1.0	128 of_packet_in
176 42.60768400(127.0.0.1	127.0.0.1	OF 1.0	148 of_flow_add
179 42.60923700(7a:f8:e2:6b:46:e2	76:6a:86:65:48:48	OF 1.0	128 of_packet_in
180 42.60967600(127.0.0.1	127.0.0.1	OF 1.0	148 of_flow_add

b. For of_packet_in the source and destination switch between 10.0.0.1 and 10.0.0.6.For of_packet_out the source and destination is 127.0.0.1

81 35.00562900(127.0.0.1	127.0.0.1	0F 1.0	76 of_echo_reply
84 37.58484800(10.0.0.1	10.0.0.6	OF 1.0	184 of_packet_in
85 37.58531800(127.0.0.1	127.0.0.1	OF 1.0	92 of_packet_out
91 37.58576900(10.0.0.1	10.0.0.6	0F 1.0	184 of_packet_in
Frame 85: 92 bytes on wire (736 b	its), 92 bytes captured	(736 bits) on in	nterface 0
Linux cooked capture			
Internet Protocol Version 4, Src:	127.0.0.1 (127.0.0.1).	Dst: 127.0.0.1	(127.0.0.1)
Transmission Control Protocol, Sr			
OpenFlow			
version: 1			
type: OFPT PACKET OUT (13)			
length: 24			
xid: 0			
buffer id: 265			
in port: 1			
actions len: 8			
▽ of action list			
of action output			
type: OFPAT OUTPUT (0)			
c)pc. 011111 001101 (0)			
len: 8			

c. There are 257 entries. The ICMP file types are "Echo (ping) reply" and "Echo (ping) request."

