```
mininet@mininet-vm:~$ sudo mn --topo=tree,depth=3,fanout=3 --mac --link tc,bw=35
*** Creating network
*** Adding controller
*** Adding hosts:
h1 h2 h3 h4 h5 h6 h7 h8 h9 h10 h11 h12 h13 h14 h15 h16 h17 h18 h19 h20 h21 h22 h23 h24 h25 h26 h27
*** Adding switches:
s1 s2 s3 s4 s5 s6 s7 s8 s9 s10 s11 s12 s13
*** Adding links:
(35.00Mbit) (35.00Mbit) (s1, s2) (35.00Mbit) (35.00Mbit) (s1, s6) (35.00Mbit) (35.00Mbit) (s1, s10) (35.00Mbit
) (35.00Mbit) (s2, s3) (35.00Mbit) (35.00Mbit) (s2, s4) (35.00Mbit) (35.00Mbit) (s2, s5) (35.00Mbit) (35.00Mbi
t) (s3, h1) (35.00Mbit) (35.00Mbit) (s3, h2) (35.00Mbit) (35.00Mbit) (s3, h3) (35.00Mbit) (35.00Mbit) (s4, h4)
(35.00Mbit) (35.00Mbit) (s4, h5) (35.00Mbit) (35.00Mbit) (s4, h6) (35.00Mbit) (35.00Mbit) (s5, h7) (35.00Mbit
) (35.00Mbit) (s5, h8) (35.00Mbit) (35.00Mbit) (s5, h9) (35.00Mbit) (35.00Mbit) (s6, s7) (35.00Mbit) (35.00Mbi
t) (s6, s8) (35.00Mbit) (35.00Mbit) (s6, s9) (35.00Mbit) (35.00Mbit) (s7, h10) (35.00Mbit) (35.00Mbit) (s7, h1
1) (35.00Mbit) (35.00Mbit) (s7, h12) (35.00Mbit) (35.00Mbit) (s8, h13) (35.00Mbit) (35.00Mbit) (s8, h14) (35.0
OMbit) (35.00Mbit) (s8, h15) (35.00Mbit) (35.00Mbit) (s9, h16) (35.00Mbit) (35.00Mbit) (s9, h17) (35.00Mbit) (
35.00Mbit) (s9, h18) (35.00Mbit) (35.00Mbit) (s10, s11) (35.00Mbit) (35.00Mbit) (s10, s12) (35.00Mbit) (35.00M
bit) (s10, s13) (35.00Mbit) (35.00Mbit) (s11, h19) (35.00Mbit) (35.00Mbit) (s11, h20) (35.00Mbit) (35.00Mbit)
(s11, h21) (35.00Mbit) (35.00Mbit) (s12, h22) (35.00Mbit) (35.00Mbit) (s12, h23) (35.00Mbit) (35.00Mbit) (s12,
h24) (35.00Mbit) (35.00Mbit) (s13, h25) (35.00Mbit) (35.00Mbit) (s13, h26) (35.00Mbit) (35.00Mbit) (s13, h27)
*** Configuring hosts
h1 h2 h3 h4 h5 h6 h7 h8 h9 h10 h11 h12 h13 h14 h15 h16 h17 h18 h19 h20 h21 h22 h23 h24 h25 h26 h27
*** Starting controller
c0
*** Starting 13 switches
s1 s2 s3 s4 s5 s6 s7 s8 s9 s10 s11 s12 s13 ...(35.00Mbit) (35.00Mbit) (35.00Mbit) (35.00Mbit) (35.00Mbit) (35.
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(35.00Mbit) (35.00Mbit) (35.00Mbit) (35.00Mbit) (35.00Mbit) (35.00Mbit) (35.00Mbit) (35.00Mbit)
*** Starting CLI:
mininet>
```

Last login: Tue Apr 16 16:10:11 PDT 2024 on tty1

```
<Host h1: h1-eth0:10.0.0.1 pid=1044>
(Host h2: h2-eth0:10.0.0.2 pid=1046)
(Host h3: h3-eth0:10.0.0.3 pid=1048)
<Host h4: h4-eth0:10.0.0.4 pid=1050>
<Host h5: h5-eth0:10.0.0.5 pid=1052>
<Host h6: h6-eth0:10.0.0.6 pid=1054>
<Host h7: h7-eth0:10.0.0.7 pid=1056>
<Host h8: h8-eth0:10.0.0.8 pid=1058>
<Host h9: h9-eth0:10.0.0.9 pid=1060>
<Host h10: h10-eth0:10.0.0.10 pid=1062>
<Host h11: h11-eth0:10.0.0.11 pid=1064>
<Host h12: h12-eth0:10.0.0.12 pid=1066>
<Host h13: h13-eth0:10.0.0.13 pid=1068>
<Host h14: h14-eth0:10.0.0.14 pid=1070>
<Host h15: h15-eth0:10.0.0.15 pid=1072>
<Host h16: h16-eth0:10.0.0.16 pid=1074>
<Host h17: h17-eth0:10.0.0.17 pid=1076>
<Host h18: h18-eth0:10.0.0.18 pid=1078>
<Host h19: h19-eth0:10.0.0.19 pid=1080>
<Host h20: h20-eth0:10.0.0.20 pid=1082>
<Host h21: h21-eth0:10.0.0.21 pid=1084>
(Host h22: h22-eth0:10.0.0.22 pid=1086)
(Host h23: h23-eth0:10.0.0.23 pid=1088)
<Host h24: h24-eth0:10.0.0.24 pid=1090>
<Host h25: h25-eth0:10.0.0.25 pid=1092>
<Host h26: h26-eth0:10.0.0.26 pid=1094>
<Host h27: h27-eth0:10.0.0.27 pid=1096>
COVSSwitch s1: lo:127.0.0.1,s1-eth1:None,s1-eth2:None,s1-eth3:None pid=1101>
COVSSwitch s2: lo:127.0.0.1,s2-eth1:None,s2-eth2:None,s2-eth3:None,s2-eth4:None pid=1104>
<OVSSwitch s3: lo:127.0.0.1,s3-eth1:Nome,s3-eth2:Nome,s3-eth3:Nome,s3-eth4:Nome pid=1107>
<OVSSwitch s4: lo:127.0.0.1,s4-eth1:Nome,s4-eth2:Nome,s4-eth3:Nome,s4-eth4:Nome pid=1110>
COVSSwitch s5: lo:127.0.0.1,s5-eth1:None,s5-eth2:None,s5-eth3:None,s5-eth4:None pid=1113>
COVSSwitch s6: lo:127.0.0.1,s6-eth1:None,s6-eth2:None,s6-eth3:None,s6-eth4:None pid=1116>
COVSSwitch s7: lo:127.0.0.1,s7-eth1:None,s7-eth2:None,s7-eth3:None,s7-eth4:None pid=1119>
<OVSSwitch s8: lo:127.0.0.1,s8-eth1:None,s8-eth2:None,s8-eth3:None,s8-eth4:None pid=1122>
<OVSSwitch s9: lo:127.0.0.1,s9-eth1:None,s9-eth2:None,s9-eth3:None,s9-eth4:None pid=1125>
<OVSSwitch s10: lo:127.0.0.1,s10-eth1:None,s10-eth2:None,s10-eth3:None,s10-eth4:None pid=1128><OVSSwitch s11: lo:127.0.0.1,s11-eth1:None,s11-eth2:None,s11-eth3:None,s11-eth4:None pid=1131>
<OUSSwitch s12: lo:127.0.0.1,s12-eth1:None,s12-eth2:None,s12-eth3:None,s12-eth4:None pid=1134>
<OUSSwitch s13: lo:127.0.0.1,s13-eth1:None,s13-eth2:None,s13-eth3:None,s13-eth4:None pid=1137>
<Controller c0: 127.0.0.1:6653 pid=1037>
```

```
h1-eth0: flags=4163<UP,BROADCAST,RUNNING,MULTICAST> mtu 1500
inet 10.0.0.1 netmask 255.0.0.0 broadcast 10.255.255.255
ether 00:00:00:00:00:01 txqueuelen 1000 (Ethernet)
RX packets 0 bytes 0 (0.0 B)
RX errors 0 dropped 0 overruns 0 frame 0
TX packets 0 bytes 0 (0.0 B)
TX errors 0 dropped 0 overruns 0 carrier 0 collisions 0

lo: flags=73<UP,LOOPBACK,RUNNING> mtu 65536
inet 127.0.0.1 netmask 255.0.0.0
loop txqueuelen 1000 (Local Loopback)
RX packets 0 bytes 0 (0.0 B)
RX errors 0 dropped 0 overruns 0 frame 0
TX packets 0 bytes 0 (0.0 B)
TX errors 0 dropped 0 overruns 0 carrier 0 collisions 0
```

mininet> h1 ifconfig

```
mininet> h15 ifconfig
h15-eth0: flags=4163<UP,BROADCAST,RUNNING,MULTICAST> mtu 1500
inet 10.0.0.15 netmask 255.0.0.0 broadcast 10.255.255.255
ether 00:00:00:00:00:00 txqueuelen 1000 (Ethernet)
RX packets 0 bytes 0 (0.0 B)
RX errors 0 dropped 0 overruns 0 frame 0
TX packets 0 bytes 0 (0.0 B)
TX errors 0 dropped 0 overruns 0 carrier 0 collisions 0

lo: flags=73<UP,LOOPBACK,RUNNING> mtu 65536
inet 127.0.0.1 netmask 255.0.0.0
loop txqueuelen 1000 (Local Loopback)
RX packets 0 bytes 0 (0.0 B)
RX errors 0 dropped 0 overruns 0 frame 0
TX packets 0 bytes 0 (0.0 B)
TX errors 0 dropped 0 overruns 0 carrier 0 collisions 0
```

```
mininet> h22 ifconfig
h22-eth0: flags=4163<UP,BROADCAST,RUNNING,MULTICAST> mtu 1500
inet 10.0.0.22 netmask 255.0.0.0 broadcast 10.255.255.255
ether 00:00:00:00:00:16 txqueuelen 1000 (Ethernet)
RX packets 0 bytes 0 (0.0 B)
RX errors 0 dropped 0 overruns 0 frame 0
TX packets 0 bytes 0 (0.0 B)
TX errors 0 dropped 0 overruns 0 carrier 0 collisions 0

lo: flags=73<UP,LOOPBACK,RUNNING> mtu 65536
inet 127.0.0.1 netmask 255.0.0.0
loop txqueuelen 1000 (Local Loopback)
RX packets 0 bytes 0 (0.0 B)
RX errors 0 dropped 0 overruns 0 frame 0
TX packets 0 bytes 0 (0.0 B)
TX errors 0 dropped 0 overruns 0 carrier 0 collisions 0
```

```
mininet> pingall
*** Ping: testing
                   ping reachability
h1 -> h2 h3 h4 h5
                   h6 h7 h8 h9 h10 h11 h12 h13 h14 h15 h16 h17 h18 h19 h20
                                                                               h21 h22 h23 h24
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   -> h1
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                         h8 h9
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h3 \rightarrow h1
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h4 ->
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   Results: 0% dropped (702/702 received)
```

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h? h?-eth0:s5-eth1
h8 h8-eth0:s5-eth2
h9 h9-eth0:s5-eth3
h10 h10-eth0:s7-eth1
h11 h11-eth0:s7-eth2
h12 h12-eth0:s7-eth3
h13 h13-eth0:s8-eth1
h14 h14-eth0:s8-eth2
h15 h15-eth0:s8-eth3
h16 h16-eth0:s9-eth1
h17 h17-eth0:s9-eth2
h18 h18-eth0:s9-eth3
h19 h19-eth0:s11-eth1
h20 h20-eth0:s11-eth2
h21 h21-eth0:s11-eth3
h22 h22-eth0:s12-eth1
h23 h23-eth0:s12-eth2
h24 h24-eth0:s12-eth3
h25 h25-eth0:s13-eth1
h26 h26-eth0:s13-eth2
h27 h27-eth0:s13-eth3
s1 lo:
       s1-eth1:s2-eth4 s1-eth2:s6-eth4 s1-eth3:s10-eth4
s2 lo:
       s2-eth1:s3-eth4 s2-eth2:s4-eth4 s2-eth3:s5-eth4 s2-eth4:s1-eth1
s3 lo:
       s3-eth1:h1-eth0 s3-eth2:h2-eth0 s3-eth3:h3-eth0 s3-eth4:s2-eth1
s4 lo:
       s4-eth1:h4-eth0 s4-eth2:h5-eth0 s4-eth3:h6-eth0 s4-eth4:s2-eth2
       s5-eth1:h7-eth0 s5-eth2:h8-eth0 s5-eth3:h9-eth0 s5-eth4:s2-eth3
s5
  lo:
s6 lo:
       s6-eth1:s7-eth4 s6-eth2:s8-eth4 s6-eth3:s9-eth4 s6-eth4:s1-eth2
       s7-eth1:h10-eth0 s7-eth2:h11-eth0 s7-eth3:h12-eth0 s7-eth4:s6-eth1
s7 lo:
s8 lo:
       s8-eth1:h13-eth0 s8-eth2:h14-eth0 s8-eth3:h15-eth0 s8-eth4:s6-eth2
s9 lo:
       s9-eth1:h16-eth0 s9-eth2:h17-eth0 s9-eth3:h18-eth0 s9-eth4:s6-eth3
s10 lo: s10-eth1:s11-eth4 s10-eth2:s12-eth4 s10-eth3:s13-eth4 s10-eth4:s1-eth3
        s11-eth1:h19-eth0 s11-eth2:h20-eth0 s11-eth3:h21-eth0 s11-eth4:s10-eth1
s11 lo:
s12 lo:
         s12-eth1:h22-eth0 s12-eth2:h23-eth0 s12-eth3:h24-eth0 s12-eth4:s10-eth2
         s13-eth1:h25-eth0 s13-eth2:h26-eth0 s13-eth3:h27-eth0 s13-eth4:s10-eth3
s13 lo:
c0
mininet>
```

```
mininet@mininet-vm:~$ ifconfig
eth0: flags=4163<UP,BROADCAST,RUNNING,MULTICAST> mtu 1500
       inet 10.0.2.15 netmask 255.255.255.0 broadcast 10.0.2.255
       ether 08:00:27:af:41:79 txqueuelen 1000
                                                 (Ethernet)
       RX packets 284 bytes 26881 (26.8 KB)
       RX errors 0 dropped 0 overruns 0 frame 0
       TX packets 286 bytes 25774 (25.7 KB)
       TX errors 0 dropped 0 overruns 0 carrier 0 collisions 0
lo: flags=73<UP,LOOPBACK,RUNNING> mtu 65536
        inet 127.0.0.1 netmask 255.0.0.0
       loop txqueuelen 1000 (Local Loopback)
       RX packets 55614 bytes 6297022 (6.2 MB)
       RX errors 0 dropped 0 overruns 0 frame 0
       TX packets 55614 bytes 6297022 (6.2 MB)
       TX errors 0 dropped 0 overruns 0 carrier 0 collisions 0
mininet@mininet-vm:~$ sudo dhclient eth1
Cannot find device "eth1"
```

mininet@mininet-um:~\$