

LACP(802.3ad)	Hash	3
<i>layer2</i> ()		3
<i>layer2+3</i>		3
<i>layer3+4</i>		3
.....		3
.....		3

LACP(802.3ad)

Hash

Bond (Mode 4 / 802.3ad)

(xmit_hash_policy)

(Bonding Mode 4)

LACP

layer2 ()

: / MAC

: (Gateway) 가 MAC MAC

1

layer2+3

: / MAC + IP

: L3 ()

layer3+4

: / IP + TCP/UDP

: 가 (,)

layer2+3

layer3+4

P2P(1:1)

. layer2

가

가

```
root@idpp-pve02:~# cat /proc/net/bonding/bond0
Ethernet Channel Bonding Driver: v7.0.14-12-pve

Bonding Mode: IEEE 802.3ad Dynamic link aggregation
```

Transmit Hash Policy: layer3+4 (1) <<<-

MII Status: up
MII Polling Interval (ms): 100
Up Delay (ms): 0
Down Delay (ms): 0
Peer Notification Delay (ms): 0
...

가 .

. iperf3 .

\$ iperf3 -s

\$ iperf3 -c < IP> -P 8

root@idpp-pve02:~# iperf3 -c 192.168.0.33 -P 8
Connecting to host 192.168.0.33, port 5201
[5] local 192.168.0.52 port 57324 connected to 192.168.0.33 port 5201
[7] local 192.168.0.52 port 57332 connected to 192.168.0.33 port 5201
[9] local 192.168.0.52 port 57342 connected to 192.168.0.33 port 5201
[11] local 192.168.0.52 port 57344 connected to 192.168.0.33 port 5201
[13] local 192.168.0.52 port 57360 connected to 192.168.0.33 port 5201
[15] local 192.168.0.52 port 57370 connected to 192.168.0.33 port 5201
[17] local 192.168.0.52 port 57378 connected to 192.168.0.33 port 5201
[19] local 192.168.0.52 port 57394 connected to 192.168.0.33 port 5201
[ID] Interval Transfer Bitrate Retr Cwnd
[5] 0.00-1.00 sec 16.0 MBytes 134 Mbits/sec 45 222 KBytes
[7] 0.00-1.00 sec 15.6 MBytes 131 Mbits/sec 46 218 KBytes
[9] 0.00-1.00 sec 15.6 MBytes 131 Mbits/sec 46 222 KBytes
[11] 0.00-1.00 sec 15.0 MBytes 126 Mbits/sec 45 197 KBytes
[13] 0.00-1.00 sec 15.4 MBytes 129 Mbits/sec 46 229 KBytes
[15] 0.00-1.00 sec 15.0 MBytes 126 Mbits/sec 45 208 KBytes
[17] 0.00-1.00 sec 14.6 MBytes 123 Mbits/sec 45 175 KBytes
[19] 0.00-1.00 sec 14.8 MBytes 124 Mbits/sec 90 146 KBytes
[SUM] 0.00-1.00 sec 122 MBytes 1.02 Gbits/sec 408
- - - - -
...
- - - - -
[ID] Interval Transfer Bitrate Retr sender
[5] 0.00-10.00 sec 142 MBytes 119 Mbits/sec 315
[5] 0.00-10.04 sec 140 MBytes 117 Mbits/sec
receiver

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LACP(802.3ad)

Hash

[7]	0.00-10.00	sec	141 MBytes	118 Mbits/sec	299	sender
[7]	0.00-10.04	sec	140 MBytes	117 Mbits/sec		
receiver						
[9]	0.00-10.00	sec	141 MBytes	119 Mbits/sec	454	sender
[9]	0.00-10.04	sec	140 MBytes	117 Mbits/sec		
receiver						
[11]	0.00-10.00	sec	141 MBytes	119 Mbits/sec	581	sender
[11]	0.00-10.04	sec	140 MBytes	117 Mbits/sec		
receiver						
[13]	0.00-10.00	sec	143 MBytes	120 Mbits/sec	242	sender
[13]	0.00-10.04	sec	140 MBytes	117 Mbits/sec		
receiver						
[15]	0.00-10.00	sec	141 MBytes	118 Mbits/sec	333	sender
[15]	0.00-10.04	sec	140 MBytes	117 Mbits/sec		
receiver						
[17]	0.00-10.00	sec	141 MBytes	118 Mbits/sec	383	sender
[17]	0.00-10.04	sec	140 MBytes	117 Mbits/sec		
receiver						
[19]	0.00-10.00	sec	141 MBytes	118 Mbits/sec	352	sender
[19]	0.00-10.04	sec	140 MBytes	117 Mbits/sec		
receiver						
[SUM]	0.00-10.00	sec	1.11 GBytes	949 Mbits/sec	2959	sender
[SUM]	0.00-10.04	sec	1.09 GBytes	936 Mbits/sec		receiver

iperf Done.

