# VXLAN

# 组网

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## RouterA：

### Linux：

ip link add name vpp1out type veth peer name vpp1host

ip link set dev vpp1out up

ip link set dev vpp1host up

ip addr add 20.1.1.2/24 dev vpp1host

ip route add 16.1.1.0/24 dev vpp1host via 20.1.1.1

### VPP：

set interface state GigabitEthernet0/b/0 up

set interface ip address GigabitEthernet0/b/0 10.1.1.1/24

create vxlan tunnel src 10.1.1.1 dst 10.1.1.2 vni 100 decap-next l2

set interface l2 bridge vxlan\_tunnel0 100 1

loopback create mac 11:12:13:14:15:16

set interface l2 bridge loop0 100 bvi

set interface state loop0 up

set interface ip address loop0 6.1.1.1/24

create host-interface name vpp1out

set interface state host-vpp1out up

set interface ip addr host-vpp1out 20.1.1.1/24

ip route add 16.1.1.0/24 via 6.1.1.2

## RouterB：

### Linux：

ip link add name vpp2out type veth peer name vpp2host

ip link set dev vpp2out up

ip link set dev vpp2host up

ip addr add 16.1.1.2/24 dev vpp2host

ip route add 20.1.1.0/24 dev vpp2host via 16.1.1.1

### VPP：

set interface state GigabitEthernet0/b/0 up

set interface ip address GigabitEthernet0/b/0 10.1.1.2/24

create vxlan tunnel src 10.1.1.2 dst 10.1.1.1 vni 100 decap-next l2

set interface l2 bridge vxlan\_tunnel0 100 1

loopback create mac 1a:2b:3c:4d:5e:6f

set interface l2 bridge loop0 100 bvi

set interface state loop0 up

set interface ip address loop0 6.1.1.2/24

create host-interface name vpp2out

set interface state host-vpp2out up

set interface ip addr host-vpp2out 16.1.1.1/24

ip route add 20.1.1.0/24 via 6.1.1.1

# GRE

## Router-A Linux Ping

ping 16.1.1.2 -c 2

## Router-A Trace：

DBGvpp# show trace

------------------- Start of thread 0 vpp\_main -------------------

No packets in trace buffer

------------------- Start of thread 1 vpp\_wk\_0 -------------------

Packet 1

00:28:39:641765: dpdk-input

GigabitEthernet0/b/0 rx queue 0

buffer 0x98051: current data 0, length 52, buffer-pool 0, ref-count 1, totlen-nifb 0, trace handle 0x1000000

ext-hdr-valid

l4-cksum-computed l4-cksum-correct

PKT MBUF: port 2, nb\_segs 1, pkt\_len 52

buf\_len 2176, data\_len 52, ol\_flags 0x0, data\_off 128, phys\_addr 0xa74014c0

packet\_type 0x0 l2\_len 0 l3\_len 0 outer\_l2\_len 0 outer\_l3\_len 0

rss 0x0 fdir.hi 0x0 fdir.lo 0x0

0x0026: fe:54:00:b1:98:3f -> 01:80:c2:00:00:00

00:28:39:641791: ethernet-input

frame: flags 0x1, hw-if-index 3, sw-if-index 3

0x0026: fe:54:00:b1:98:3f -> 01:80:c2:00:00:00

00:28:39:641802: llc-input

LLC bpdu -> bpdu

00:28:39:641805: error-drop

rx:GigabitEthernet0/b/0

00:28:39:641809: drop

llc-input: unknown llc ssap/dsap

Packet 2

00:28:40:537737: dpdk-input

GigabitEthernet0/9/0 rx queue 0

buffer 0x9829a: current data 0, length 52, buffer-pool 0, ref-count 1, totlen-nifb 0, trace handle 0x1000001

ext-hdr-valid

l4-cksum-computed l4-cksum-correct

PKT MBUF: port 0, nb\_segs 1, pkt\_len 52

buf\_len 2176, data\_len 52, ol\_flags 0x0, data\_off 128, phys\_addr 0xa740a700

packet\_type 0x0 l2\_len 0 l3\_len 0 outer\_l2\_len 0 outer\_l3\_len 0

rss 0x0 fdir.hi 0x0 fdir.lo 0x0

0x0026: fe:54:00:b2:c8:c0 -> 01:80:c2:00:00:00

00:28:40:537759: ethernet-input

frame: flags 0x1, hw-if-index 1, sw-if-index 1

0x0026: fe:54:00:b2:c8:c0 -> 01:80:c2:00:00:00

00:28:40:537772: llc-input

LLC bpdu -> bpdu

00:28:40:537775: error-drop

rx:GigabitEthernet0/9/0

00:28:40:537778: drop

llc-input: unknown llc ssap/dsap

Packet 3

00:28:41:625774: dpdk-input

GigabitEthernet0/b/0 rx queue 0

buffer 0x9809f: current data 0, length 52, buffer-pool 0, ref-count 1, totlen-nifb 0, trace handle 0x1000002

ext-hdr-valid

l4-cksum-computed l4-cksum-correct

PKT MBUF: port 2, nb\_segs 1, pkt\_len 52

buf\_len 2176, data\_len 52, ol\_flags 0x0, data\_off 128, phys\_addr 0xa7402840

packet\_type 0x0 l2\_len 0 l3\_len 0 outer\_l2\_len 0 outer\_l3\_len 0

rss 0x0 fdir.hi 0x0 fdir.lo 0x0

0x0026: fe:54:00:b1:98:3f -> 01:80:c2:00:00:00

00:28:41:625799: ethernet-input

frame: flags 0x1, hw-if-index 3, sw-if-index 3

0x0026: fe:54:00:b1:98:3f -> 01:80:c2:00:00:00

00:28:41:625810: llc-input

LLC bpdu -> bpdu

00:28:41:625813: error-drop

rx:GigabitEthernet0/b/0

00:28:41:625817: drop

llc-input: unknown llc ssap/dsap

Packet 4

00:28:42:521888: dpdk-input

GigabitEthernet0/9/0 rx queue 0

buffer 0x982c1: current data 0, length 52, buffer-pool 0, ref-count 1, totlen-nifb 0, trace handle 0x1000003

ext-hdr-valid

l4-cksum-computed l4-cksum-correct

PKT MBUF: port 0, nb\_segs 1, pkt\_len 52

buf\_len 2176, data\_len 52, ol\_flags 0x0, data\_off 128, phys\_addr 0xa740b0c0

packet\_type 0x0 l2\_len 0 l3\_len 0 outer\_l2\_len 0 outer\_l3\_len 0

rss 0x0 fdir.hi 0x0 fdir.lo 0x0

0x0026: fe:54:00:b2:c8:c0 -> 01:80:c2:00:00:00

00:28:42:521904: ethernet-input

frame: flags 0x1, hw-if-index 1, sw-if-index 1

0x0026: fe:54:00:b2:c8:c0 -> 01:80:c2:00:00:00

00:28:42:521911: llc-input

LLC bpdu -> bpdu

00:28:42:521913: error-drop

rx:GigabitEthernet0/9/0

00:28:42:521916: drop

llc-input: unknown llc ssap/dsap

Packet 5

00:28:43:641764: dpdk-input

GigabitEthernet0/b/0 rx queue 0

buffer 0x980ed: current data 0, length 52, buffer-pool 0, ref-count 1, totlen-nifb 0, trace handle 0x1000004

ext-hdr-valid

l4-cksum-computed l4-cksum-correct

PKT MBUF: port 2, nb\_segs 1, pkt\_len 52

buf\_len 2176, data\_len 52, ol\_flags 0x0, data\_off 128, phys\_addr 0xa7403bc0

packet\_type 0x0 l2\_len 0 l3\_len 0 outer\_l2\_len 0 outer\_l3\_len 0

rss 0x0 fdir.hi 0x0 fdir.lo 0x0

0x0026: fe:54:00:b1:98:3f -> 01:80:c2:00:00:00

00:28:43:641786: ethernet-input

frame: flags 0x1, hw-if-index 3, sw-if-index 3

0x0026: fe:54:00:b1:98:3f -> 01:80:c2:00:00:00

00:28:43:641797: llc-input

LLC bpdu -> bpdu

00:28:43:641801: error-drop

rx:GigabitEthernet0/b/0

00:28:43:641805: drop

llc-input: unknown llc ssap/dsap

Packet 6

00:28:44:537809: dpdk-input

GigabitEthernet0/9/0 rx queue 0

buffer 0x982e8: current data 0, length 52, buffer-pool 0, ref-count 1, totlen-nifb 0, trace handle 0x1000005

ext-hdr-valid

l4-cksum-computed l4-cksum-correct

PKT MBUF: port 0, nb\_segs 1, pkt\_len 52

buf\_len 2176, data\_len 52, ol\_flags 0x0, data\_off 128, phys\_addr 0xa740ba80

packet\_type 0x0 l2\_len 0 l3\_len 0 outer\_l2\_len 0 outer\_l3\_len 0

rss 0x0 fdir.hi 0x0 fdir.lo 0x0

0x0026: fe:54:00:b2:c8:c0 -> 01:80:c2:00:00:00

00:28:44:537823: ethernet-input

frame: flags 0x1, hw-if-index 1, sw-if-index 1

0x0026: fe:54:00:b2:c8:c0 -> 01:80:c2:00:00:00

00:28:44:537833: llc-input

LLC bpdu -> bpdu

00:28:44:537835: error-drop

rx:GigabitEthernet0/9/0

00:28:44:537838: drop

llc-input: unknown llc ssap/dsap

Packet 7

00:28:45:625836: dpdk-input

GigabitEthernet0/b/0 rx queue 0

buffer 0x97773: current data 0, length 52, buffer-pool 0, ref-count 1, totlen-nifb 0, trace handle 0x1000006

ext-hdr-valid

l4-cksum-computed l4-cksum-correct

PKT MBUF: port 2, nb\_segs 1, pkt\_len 52

buf\_len 2176, data\_len 52, ol\_flags 0x0, data\_off 128, phys\_addr 0xa7bddd40

packet\_type 0x0 l2\_len 0 l3\_len 0 outer\_l2\_len 0 outer\_l3\_len 0

rss 0x0 fdir.hi 0x0 fdir.lo 0x0

0x0026: fe:54:00:b1:98:3f -> 01:80:c2:00:00:00

00:28:45:625854: ethernet-input

frame: flags 0x1, hw-if-index 3, sw-if-index 3

0x0026: fe:54:00:b1:98:3f -> 01:80:c2:00:00:00

00:28:45:625865: llc-input

LLC bpdu -> bpdu

00:28:45:625868: error-drop

rx:GigabitEthernet0/b/0

00:28:45:625872: drop

llc-input: unknown llc ssap/dsap

Packet 8

00:28:46:521931: dpdk-input

GigabitEthernet0/9/0 rx queue 0

buffer 0x98336: current data 0, length 52, buffer-pool 0, ref-count 1, totlen-nifb 0, trace handle 0x1000007

ext-hdr-valid

l4-cksum-computed l4-cksum-correct

PKT MBUF: port 0, nb\_segs 1, pkt\_len 52

buf\_len 2176, data\_len 52, ol\_flags 0x0, data\_off 128, phys\_addr 0xa740ce00

packet\_type 0x0 l2\_len 0 l3\_len 0 outer\_l2\_len 0 outer\_l3\_len 0

rss 0x0 fdir.hi 0x0 fdir.lo 0x0

0x0026: fe:54:00:b2:c8:c0 -> 01:80:c2:00:00:00

00:28:46:521947: ethernet-input

frame: flags 0x1, hw-if-index 1, sw-if-index 1

0x0026: fe:54:00:b2:c8:c0 -> 01:80:c2:00:00:00

00:28:46:521954: llc-input

LLC bpdu -> bpdu

00:28:46:521956: error-drop

rx:GigabitEthernet0/9/0

00:28:46:521959: drop

llc-input: unknown llc ssap/dsap

Packet 9

00:28:47:641828: dpdk-input

GigabitEthernet0/b/0 rx queue 0

buffer 0x977c1: current data 0, length 52, buffer-pool 0, ref-count 1, totlen-nifb 0, trace handle 0x1000008

ext-hdr-valid

l4-cksum-computed l4-cksum-correct

PKT MBUF: port 2, nb\_segs 1, pkt\_len 52

buf\_len 2176, data\_len 52, ol\_flags 0x0, data\_off 128, phys\_addr 0xa7bdf0c0

packet\_type 0x0 l2\_len 0 l3\_len 0 outer\_l2\_len 0 outer\_l3\_len 0

rss 0x0 fdir.hi 0x0 fdir.lo 0x0

0x0026: fe:54:00:b1:98:3f -> 01:80:c2:00:00:00

00:28:47:641848: ethernet-input

frame: flags 0x1, hw-if-index 3, sw-if-index 3

0x0026: fe:54:00:b1:98:3f -> 01:80:c2:00:00:00

00:28:47:641860: llc-input

LLC bpdu -> bpdu

00:28:47:641864: error-drop

rx:GigabitEthernet0/b/0

00:28:47:641868: drop

llc-input: unknown llc ssap/dsap

Packet 10

00:28:48:537968: dpdk-input

GigabitEthernet0/9/0 rx queue 0

buffer 0x9835d: current data 0, length 52, buffer-pool 0, ref-count 1, totlen-nifb 0, trace handle 0x1000009

ext-hdr-valid

l4-cksum-computed l4-cksum-correct

PKT MBUF: port 0, nb\_segs 1, pkt\_len 52

buf\_len 2176, data\_len 52, ol\_flags 0x0, data\_off 128, phys\_addr 0xa740d7c0

packet\_type 0x0 l2\_len 0 l3\_len 0 outer\_l2\_len 0 outer\_l3\_len 0

rss 0x0 fdir.hi 0x0 fdir.lo 0x0

0x0026: fe:54:00:b2:c8:c0 -> 01:80:c2:00:00:00

00:28:48:537990: ethernet-input

frame: flags 0x1, hw-if-index 1, sw-if-index 1

0x0026: fe:54:00:b2:c8:c0 -> 01:80:c2:00:00:00

00:28:48:537996: llc-input

LLC bpdu -> bpdu

00:28:48:537998: error-drop

rx:GigabitEthernet0/9/0

00:28:48:538001: drop

llc-input: unknown llc ssap/dsap

Packet 11

00:28:49:625934: dpdk-input

GigabitEthernet0/b/0 rx queue 0

buffer 0x98a38: current data 0, length 52, buffer-pool 0, ref-count 1, totlen-nifb 0, trace handle 0x100000a

ext-hdr-valid

l4-cksum-computed l4-cksum-correct

PKT MBUF: port 2, nb\_segs 1, pkt\_len 52

buf\_len 2176, data\_len 52, ol\_flags 0x0, data\_off 128, phys\_addr 0xa7428e80

packet\_type 0x0 l2\_len 0 l3\_len 0 outer\_l2\_len 0 outer\_l3\_len 0

rss 0x0 fdir.hi 0x0 fdir.lo 0x0

0x0026: fe:54:00:b1:98:3f -> 01:80:c2:00:00:00

00:28:49:625955: ethernet-input

frame: flags 0x1, hw-if-index 3, sw-if-index 3

0x0026: fe:54:00:b1:98:3f -> 01:80:c2:00:00:00

00:28:49:625964: llc-input

LLC bpdu -> bpdu

00:28:49:625967: error-drop

rx:GigabitEthernet0/b/0

00:28:49:625971: drop

llc-input: unknown llc ssap/dsap

Packet 12

00:28:49:631808: dpdk-input

GigabitEthernet0/b/0 rx queue 0

buffer 0x98aad: current data 0, length 148, buffer-pool 0, ref-count 1, totlen-nifb 0, trace handle 0x100000b

ext-hdr-valid

l4-cksum-computed l4-cksum-correct

PKT MBUF: port 2, nb\_segs 1, pkt\_len 148

buf\_len 2176, data\_len 148, ol\_flags 0x0, data\_off 128, phys\_addr 0xa742abc0

packet\_type 0x0 l2\_len 0 l3\_len 0 outer\_l2\_len 0 outer\_l3\_len 0

rss 0x0 fdir.hi 0x0 fdir.lo 0x0

IP4: 52:54:00:28:06:79 -> 52:54:00:b1:98:3f

UDP: 10.1.1.2 -> 10.1.1.1

tos 0x00, ttl 253, length 134, checksum 0xa762 dscp CS0 ecn NON\_ECN

fragment id 0x0000

UDP: 7183 -> 4789

length 114, checksum 0x0000

00:28:49:631817: ethernet-input

frame: flags 0x1, hw-if-index 3, sw-if-index 3

IP4: 52:54:00:28:06:79 -> 52:54:00:b1:98:3f

00:28:49:631823: ip4-input

UDP: 10.1.1.2 -> 10.1.1.1

tos 0x00, ttl 253, length 134, checksum 0xa762 dscp CS0 ecn NON\_ECN

fragment id 0x0000

UDP: 7183 -> 4789

length 114, checksum 0x0000

00:28:49:631828: ip4-lookup

fib 0 dpo-idx 10 flow hash: 0x00000000

UDP: 10.1.1.2 -> 10.1.1.1

tos 0x00, ttl 253, length 134, checksum 0xa762 dscp CS0 ecn NON\_ECN

fragment id 0x0000

UDP: 7183 -> 4789

length 114, checksum 0x0000

00:28:49:631835: ip4-local

UDP: 10.1.1.2 -> 10.1.1.1

tos 0x00, ttl 253, length 134, checksum 0xa762 dscp CS0 ecn NON\_ECN

fragment id 0x0000

UDP: 7183 -> 4789

length 114, checksum 0x0000

00:28:49:631840: ip4-udp-lookup

UDP: src-port 7183 dst-port 4789

00:28:49:631843: vxlan4-input

VXLAN decap from vxlan\_tunnel0 vni 100 next 1 error 0

00:28:49:631853: l2-input

l2-input: sw\_if\_index 4 dst 11:12:13:14:15:16 src 1a:2b:3c:4d:5e:6f

00:28:49:631856: l2-learn

l2-learn: sw\_if\_index 4 dst 11:12:13:14:15:16 src 1a:2b:3c:4d:5e:6f bd\_index 1

00:28:49:631859: l2-flood

l2-flood: sw\_if\_index 4 dst 11:12:13:14:15:16 src 1a:2b:3c:4d:5e:6f bd\_index 1

00:28:49:631863: ip4-input

ICMP: 16.1.1.2 -> 20.1.1.2

tos 0x00, ttl 63, length 84, checksum 0x2b78 dscp CS0 ecn NON\_ECN

fragment id 0x2a2c

ICMP echo\_reply checksum 0xbc1d

00:28:49:631867: ip4-lookup

fib 0 dpo-idx 8 flow hash: 0x00000000

ICMP: 16.1.1.2 -> 20.1.1.2

tos 0x00, ttl 63, length 84, checksum 0x2b78 dscp CS0 ecn NON\_ECN

fragment id 0x2a2c

ICMP echo\_reply checksum 0xbc1d

00:28:49:631869: ip4-rewrite

tx\_sw\_if\_index 6 dpo-idx 8 : ipv4 via 20.1.1.2 host-vpp1out: mtu:9000 next:6 c23311b193b002fe9426a9200800 flow hash: 0x00000000

00000000: c23311b193b002fe9426a9200800450000542a2c00003e012c78100101021401

00000020: 01020000bc1d22aa0001769a406000000000a0690b0000000000101112131415

00000040: 161718191a1b1c1d1e1f202122232425262728292a2b2c2d2e2f303132333435

00000060: 3637000000000000000000000000000000000000000000000000000000000000

00000080: 0000000000000000000000000000000000000000000000000000000000000000

000000a0: 0000000000000000000000000000000000000000000000000000000000000000

000000c0: 0000000000000000000000000000000000000000000000000000000000000000

000000e0: 00000000000000000000000000000000000000000000000000000000

00:28:49:631872: host-vpp1out-output

host-vpp1out

IP4: 02:fe:94:26:a9:20 -> c2:33:11:b1:93:b0

ICMP: 16.1.1.2 -> 20.1.1.2

tos 0x00, ttl 62, length 84, checksum 0x2c78 dscp CS0 ecn NON\_ECN

fragment id 0x2a2c

ICMP echo\_reply checksum 0xbc1d

Packet 13

00:28:50:522022: dpdk-input

GigabitEthernet0/9/0 rx queue 0

buffer 0x98384: current data 0, length 52, buffer-pool 0, ref-count 1, totlen-nifb 0, trace handle 0x100000c

ext-hdr-valid

l4-cksum-computed l4-cksum-correct

PKT MBUF: port 0, nb\_segs 1, pkt\_len 52

buf\_len 2176, data\_len 52, ol\_flags 0x0, data\_off 128, phys\_addr 0xa740e180

packet\_type 0x0 l2\_len 0 l3\_len 0 outer\_l2\_len 0 outer\_l3\_len 0

rss 0x0 fdir.hi 0x0 fdir.lo 0x0

0x0026: fe:54:00:b2:c8:c0 -> 01:80:c2:00:00:00

00:28:50:522046: ethernet-input

frame: flags 0x1, hw-if-index 1, sw-if-index 1

0x0026: fe:54:00:b2:c8:c0 -> 01:80:c2:00:00:00

00:28:50:522055: llc-input

LLC bpdu -> bpdu

00:28:50:522057: error-drop

rx:GigabitEthernet0/9/0

00:28:50:522060: drop

llc-input: unknown llc ssap/dsap

Packet 14

00:28:50:634722: dpdk-input

GigabitEthernet0/b/0 rx queue 0

buffer 0x9813b: current data 0, length 148, buffer-pool 0, ref-count 1, totlen-nifb 0, trace handle 0x100000d

ext-hdr-valid

l4-cksum-computed l4-cksum-correct

PKT MBUF: port 2, nb\_segs 1, pkt\_len 148

buf\_len 2176, data\_len 148, ol\_flags 0x0, data\_off 128, phys\_addr 0xa7404f40

packet\_type 0x0 l2\_len 0 l3\_len 0 outer\_l2\_len 0 outer\_l3\_len 0

rss 0x0 fdir.hi 0x0 fdir.lo 0x0

IP4: 52:54:00:28:06:79 -> 52:54:00:b1:98:3f

UDP: 10.1.1.2 -> 10.1.1.1

tos 0x00, ttl 253, length 134, checksum 0xa762 dscp CS0 ecn NON\_ECN

fragment id 0x0000

UDP: 7183 -> 4789

length 114, checksum 0x0000

00:28:50:634729: ethernet-input

frame: flags 0x1, hw-if-index 3, sw-if-index 3

IP4: 52:54:00:28:06:79 -> 52:54:00:b1:98:3f

00:28:50:634736: ip4-input

UDP: 10.1.1.2 -> 10.1.1.1

tos 0x00, ttl 253, length 134, checksum 0xa762 dscp CS0 ecn NON\_ECN

fragment id 0x0000

UDP: 7183 -> 4789

length 114, checksum 0x0000

00:28:50:634740: ip4-lookup

fib 0 dpo-idx 10 flow hash: 0x00000000

UDP: 10.1.1.2 -> 10.1.1.1

tos 0x00, ttl 253, length 134, checksum 0xa762 dscp CS0 ecn NON\_ECN

fragment id 0x0000

UDP: 7183 -> 4789

length 114, checksum 0x0000

00:28:50:634747: ip4-local

UDP: 10.1.1.2 -> 10.1.1.1

tos 0x00, ttl 253, length 134, checksum 0xa762 dscp CS0 ecn NON\_ECN

fragment id 0x0000

UDP: 7183 -> 4789

length 114, checksum 0x0000

00:28:50:634751: ip4-udp-lookup

UDP: src-port 7183 dst-port 4789

00:28:50:634753: vxlan4-input

VXLAN decap from vxlan\_tunnel0 vni 100 next 1 error 0

00:28:50:634757: l2-input

l2-input: sw\_if\_index 4 dst 11:12:13:14:15:16 src 1a:2b:3c:4d:5e:6f

00:28:50:634759: l2-learn

l2-learn: sw\_if\_index 4 dst 11:12:13:14:15:16 src 1a:2b:3c:4d:5e:6f bd\_index 1

00:28:50:634762: l2-flood

l2-flood: sw\_if\_index 4 dst 11:12:13:14:15:16 src 1a:2b:3c:4d:5e:6f bd\_index 1

00:28:50:634766: ip4-input

ICMP: 16.1.1.2 -> 20.1.1.2

tos 0x00, ttl 63, length 84, checksum 0x2ad7 dscp CS0 ecn NON\_ECN

fragment id 0x2acd

ICMP echo\_reply checksum 0xf110

00:28:50:634770: ip4-lookup

fib 0 dpo-idx 8 flow hash: 0x00000000

ICMP: 16.1.1.2 -> 20.1.1.2

tos 0x00, ttl 63, length 84, checksum 0x2ad7 dscp CS0 ecn NON\_ECN

fragment id 0x2acd

ICMP echo\_reply checksum 0xf110

00:28:50:634772: ip4-rewrite

tx\_sw\_if\_index 6 dpo-idx 8 : ipv4 via 20.1.1.2 host-vpp1out: mtu:9000 next:6 c23311b193b002fe9426a9200800 flow hash: 0x00000000

00000000: c23311b193b002fe9426a9200800450000542acd00003e012bd7100101021401

00000020: 01020000f11022aa0002779a4060000000006a750b0000000000101112131415

00000040: 161718191a1b1c1d1e1f202122232425262728292a2b2c2d2e2f303132333435

00000060: 3637000000000000000000000000000000000000000000000000000000000000

00000080: 0000000000000000000000000000000000000000000000000000000000000000

000000a0: 0000000000000000000000000000000000000000000000000000000000000000

000000c0: 0000000000000000000000000000000000000000000000000000000000000000

000000e0: 00000000000000000000000000000000000000000000000000000000

00:28:50:634775: host-vpp1out-output

host-vpp1out

IP4: 02:fe:94:26:a9:20 -> c2:33:11:b1:93:b0

ICMP: 16.1.1.2 -> 20.1.1.2

tos 0x00, ttl 62, length 84, checksum 0x2bd7 dscp CS0 ecn NON\_ECN

fragment id 0x2acd

ICMP echo\_reply checksum 0xf110

Packet 15

00:28:51:645909: dpdk-input

GigabitEthernet0/b/0 rx queue 0

buffer 0x981b0: current data 0, length 52, buffer-pool 0, ref-count 1, totlen-nifb 0, trace handle 0x100000e

ext-hdr-valid

l4-cksum-computed l4-cksum-correct

PKT MBUF: port 2, nb\_segs 1, pkt\_len 52

buf\_len 2176, data\_len 52, ol\_flags 0x0, data\_off 128, phys\_addr 0xa7406c80

packet\_type 0x0 l2\_len 0 l3\_len 0 outer\_l2\_len 0 outer\_l3\_len 0

rss 0x0 fdir.hi 0x0 fdir.lo 0x0

0x0026: fe:54:00:b1:98:3f -> 01:80:c2:00:00:00

00:28:51:645943: ethernet-input

frame: flags 0x1, hw-if-index 3, sw-if-index 3

0x0026: fe:54:00:b1:98:3f -> 01:80:c2:00:00:00

00:28:51:645957: llc-input

LLC bpdu -> bpdu

00:28:51:645961: error-drop

rx:GigabitEthernet0/b/0

00:28:51:645966: drop

llc-input: unknown llc ssap/dsap

Packet 16

00:28:52:537966: dpdk-input

GigabitEthernet0/9/0 rx queue 0

buffer 0x983d2: current data 0, length 52, buffer-pool 0, ref-count 1, totlen-nifb 0, trace handle 0x100000f

ext-hdr-valid

l4-cksum-computed l4-cksum-correct

PKT MBUF: port 0, nb\_segs 1, pkt\_len 52

buf\_len 2176, data\_len 52, ol\_flags 0x0, data\_off 128, phys\_addr 0xa740f500

packet\_type 0x0 l2\_len 0 l3\_len 0 outer\_l2\_len 0 outer\_l3\_len 0

rss 0x0 fdir.hi 0x0 fdir.lo 0x0

0x0026: fe:54:00:b2:c8:c0 -> 01:80:c2:00:00:00

00:28:52:537983: ethernet-input

frame: flags 0x1, hw-if-index 1, sw-if-index 1

0x0026: fe:54:00:b2:c8:c0 -> 01:80:c2:00:00:00

00:28:52:537994: llc-input

LLC bpdu -> bpdu

00:28:52:537996: error-drop

rx:GigabitEthernet0/9/0

00:28:52:537998: drop

llc-input: unknown llc ssap/dsap

Packet 17

00:28:53:625933: dpdk-input

GigabitEthernet0/b/0 rx queue 0

buffer 0x981d7: current data 0, length 52, buffer-pool 0, ref-count 1, totlen-nifb 0, trace handle 0x1000010

ext-hdr-valid

l4-cksum-computed l4-cksum-correct

PKT MBUF: port 2, nb\_segs 1, pkt\_len 52

buf\_len 2176, data\_len 52, ol\_flags 0x0, data\_off 128, phys\_addr 0xa7407640

packet\_type 0x0 l2\_len 0 l3\_len 0 outer\_l2\_len 0 outer\_l3\_len 0

rss 0x0 fdir.hi 0x0 fdir.lo 0x0

0x0026: fe:54:00:b1:98:3f -> 01:80:c2:00:00:00

00:28:53:625971: ethernet-input

frame: flags 0x1, hw-if-index 3, sw-if-index 3

0x0026: fe:54:00:b1:98:3f -> 01:80:c2:00:00:00

00:28:53:625984: llc-input

LLC bpdu -> bpdu

00:28:53:625987: error-drop

rx:GigabitEthernet0/b/0

00:28:53:625992: drop

llc-input: unknown llc ssap/dsap

------------------- Start of thread 2 vpp\_wk\_1 -------------------

Packet 1

00:28:40:537750: dpdk-input

GigabitEthernet0/a/0 rx queue 0

buffer 0x87f86: current data 0, length 52, buffer-pool 0, ref-count 1, totlen-nifb 0, trace handle 0x2000000

ext-hdr-valid

l4-cksum-computed l4-cksum-correct

PKT MBUF: port 1, nb\_segs 1, pkt\_len 52

buf\_len 2176, data\_len 52, ol\_flags 0x0, data\_off 128, phys\_addr 0xa7ffe200

packet\_type 0x0 l2\_len 0 l3\_len 0 outer\_l2\_len 0 outer\_l3\_len 0

rss 0x0 fdir.hi 0x0 fdir.lo 0x0

0x0026: fe:54:00:83:c4:39 -> 01:80:c2:00:00:00

00:28:40:537768: ethernet-input

frame: flags 0x1, hw-if-index 2, sw-if-index 2

0x0026: fe:54:00:83:c4:39 -> 01:80:c2:00:00:00

00:28:40:537777: llc-input

LLC bpdu -> bpdu

00:28:40:537779: error-drop

rx:GigabitEthernet0/a/0

00:28:40:537782: drop

llc-input: unknown llc ssap/dsap

Packet 2

00:28:42:521794: dpdk-input

GigabitEthernet0/a/0 rx queue 0

buffer 0x87f5f: current data 0, length 52, buffer-pool 0, ref-count 1, totlen-nifb 0, trace handle 0x2000001

ext-hdr-valid

l4-cksum-computed l4-cksum-correct

PKT MBUF: port 1, nb\_segs 1, pkt\_len 52

buf\_len 2176, data\_len 52, ol\_flags 0x0, data\_off 128, phys\_addr 0xa7ffd840

packet\_type 0x0 l2\_len 0 l3\_len 0 outer\_l2\_len 0 outer\_l3\_len 0

rss 0x0 fdir.hi 0x0 fdir.lo 0x0

0x0026: fe:54:00:83:c4:39 -> 01:80:c2:00:00:00

00:28:42:521812: ethernet-input

frame: flags 0x1, hw-if-index 2, sw-if-index 2

0x0026: fe:54:00:83:c4:39 -> 01:80:c2:00:00:00

00:28:42:521822: llc-input

LLC bpdu -> bpdu

00:28:42:521825: error-drop

rx:GigabitEthernet0/a/0

00:28:42:521829: drop

llc-input: unknown llc ssap/dsap

Packet 3

00:28:44:537890: dpdk-input

GigabitEthernet0/a/0 rx queue 0

buffer 0x87f38: current data 0, length 52, buffer-pool 0, ref-count 1, totlen-nifb 0, trace handle 0x2000002

ext-hdr-valid

l4-cksum-computed l4-cksum-correct

PKT MBUF: port 1, nb\_segs 1, pkt\_len 52

buf\_len 2176, data\_len 52, ol\_flags 0x0, data\_off 128, phys\_addr 0xa7ffce80

packet\_type 0x0 l2\_len 0 l3\_len 0 outer\_l2\_len 0 outer\_l3\_len 0

rss 0x0 fdir.hi 0x0 fdir.lo 0x0

0x0026: fe:54:00:83:c4:39 -> 01:80:c2:00:00:00

00:28:44:537903: ethernet-input

frame: flags 0x1, hw-if-index 2, sw-if-index 2

0x0026: fe:54:00:83:c4:39 -> 01:80:c2:00:00:00

00:28:44:537912: llc-input

LLC bpdu -> bpdu

00:28:44:537914: error-drop

rx:GigabitEthernet0/a/0

00:28:44:537917: drop

llc-input: unknown llc ssap/dsap

Packet 4

00:28:46:521867: dpdk-input

GigabitEthernet0/a/0 rx queue 0

buffer 0x87f11: current data 0, length 52, buffer-pool 0, ref-count 1, totlen-nifb 0, trace handle 0x2000003

ext-hdr-valid

l4-cksum-computed l4-cksum-correct

PKT MBUF: port 1, nb\_segs 1, pkt\_len 52

buf\_len 2176, data\_len 52, ol\_flags 0x0, data\_off 128, phys\_addr 0xa7ffc4c0

packet\_type 0x0 l2\_len 0 l3\_len 0 outer\_l2\_len 0 outer\_l3\_len 0

rss 0x0 fdir.hi 0x0 fdir.lo 0x0

0x0026: fe:54:00:83:c4:39 -> 01:80:c2:00:00:00

00:28:46:521890: ethernet-input

frame: flags 0x1, hw-if-index 2, sw-if-index 2

0x0026: fe:54:00:83:c4:39 -> 01:80:c2:00:00:00

00:28:46:521900: llc-input

LLC bpdu -> bpdu

00:28:46:521903: error-drop

rx:GigabitEthernet0/a/0

00:28:46:521907: drop

llc-input: unknown llc ssap/dsap

Packet 5

00:28:48:537901: dpdk-input

GigabitEthernet0/a/0 rx queue 0

buffer 0x87eea: current data 0, length 52, buffer-pool 0, ref-count 1, totlen-nifb 0, trace handle 0x2000004

ext-hdr-valid

l4-cksum-computed l4-cksum-correct

PKT MBUF: port 1, nb\_segs 1, pkt\_len 52

buf\_len 2176, data\_len 52, ol\_flags 0x0, data\_off 128, phys\_addr 0xa7ffbb00

packet\_type 0x0 l2\_len 0 l3\_len 0 outer\_l2\_len 0 outer\_l3\_len 0

rss 0x0 fdir.hi 0x0 fdir.lo 0x0

0x0026: fe:54:00:83:c4:39 -> 01:80:c2:00:00:00

00:28:48:537913: ethernet-input

frame: flags 0x1, hw-if-index 2, sw-if-index 2

0x0026: fe:54:00:83:c4:39 -> 01:80:c2:00:00:00

00:28:48:537923: llc-input

LLC bpdu -> bpdu

00:28:48:537925: error-drop

rx:GigabitEthernet0/a/0

00:28:48:537929: drop

llc-input: unknown llc ssap/dsap

Packet 6

00:28:49:631265: af-packet-input

af\_packet: hw\_if\_index 6 next-index 4

tpacket2\_hdr:

status 0x20000001 len 98 snaplen 98 mac 66 net 80

sec 0x60409a76 nsec 0x2c95bb3c vlan 0 vlan\_tpid 0

00:28:49:631276: ethernet-input

IP4: c2:33:11:b1:93:b0 -> 02:fe:94:26:a9:20

00:28:49:631284: ip4-input

ICMP: 20.1.1.2 -> 16.1.1.2

tos 0x00, ttl 64, length 84, checksum 0xe726 dscp CS0 ecn NON\_ECN

fragment id 0x2d7d, flags DONT\_FRAGMENT

ICMP echo\_request checksum 0xb41d

00:28:49:631292: ip4-lookup

fib 0 dpo-idx 32 flow hash: 0x00000000

ICMP: 20.1.1.2 -> 16.1.1.2

tos 0x00, ttl 64, length 84, checksum 0xe726 dscp CS0 ecn NON\_ECN

fragment id 0x2d7d, flags DONT\_FRAGMENT

ICMP echo\_request checksum 0xb41d

00:28:49:631301: ip4-load-balance

fib 0 dpo-idx 7 flow hash: 0x00000000

ICMP: 20.1.1.2 -> 16.1.1.2

tos 0x00, ttl 64, length 84, checksum 0xe726 dscp CS0 ecn NON\_ECN

fragment id 0x2d7d, flags DONT\_FRAGMENT

ICMP echo\_request checksum 0xb41d

00:28:49:631305: ip4-rewrite

tx\_sw\_if\_index 5 dpo-idx 7 : ipv4 via 6.1.1.2 loop0: mtu:9000 next:5 1a2b3c4d5e6f1112131415160800 flow hash: 0x00000000

00000000: 1a2b3c4d5e6f1112131415160800450000542d7d40003f01e826140101021001

00000020: 01020800b41d22aa0001769a406000000000a0690b0000000000101112131415

00000040: 161718191a1b1c1d1e1f202122232425262728292a2b2c2d2e2f303132333435

00000060: 3637000000000000000000000000000000000000000000000000000000000000

00000080: 0000000000000000000000000000000000000000000000000000000000000000

000000a0: 0000000000000000000000000000000000000000000000000000000000000000

000000c0: 0000000000000000000000000000000000000000000000000000000000000000

000000e0: 00000000000000000000000000000000000000000000000000000000

00:28:49:631310: loop0-output

loop0

IP4: 11:12:13:14:15:16 -> 1a:2b:3c:4d:5e:6f

ICMP: 20.1.1.2 -> 16.1.1.2

tos 0x00, ttl 63, length 84, checksum 0xe826 dscp CS0 ecn NON\_ECN

fragment id 0x2d7d, flags DONT\_FRAGMENT

ICMP echo\_request checksum 0xb41d

00:28:49:631318: l2-input

l2-input: sw\_if\_index 5 dst 1a:2b:3c:4d:5e:6f src 11:12:13:14:15:16

00:28:49:631322: l2-fwd

l2-fwd: sw\_if\_index 5 dst 1a:2b:3c:4d:5e:6f src 11:12:13:14:15:16 bd\_index 1 result [0x1020000000004, 4] none

00:28:49:631326: l2-output

l2-output: sw\_if\_index 4 dst 1a:2b:3c:4d:5e:6f src 11:12:13:14:15:16 data 08 00 45 00 00 54 2d 7d 40 00 3f 01

00:28:49:631330: vxlan4-encap

VXLAN encap to vxlan\_tunnel0 vni 100

00:28:49:631333: ip4-rewrite

tx\_sw\_if\_index 3 dpo-idx 4 : ipv4 via 10.1.1.2 GigabitEthernet0/b/0: mtu:9000 next:4 525400280679525400b1983f0800 flow hash: 0x472c2f58

00000000: 525400280679525400b1983f08004500008600000000fd11a7620a0101010a01

00000020: 0102582f12b50072000008000000000064001a2b3c4d5e6f1112131415160800

00000040: 450000542d7d40003f01e82614010102100101020800b41d22aa0001769a4060

00000060: 00000000a0690b0000000000101112131415161718191a1b1c1d1e1f20212223

00000080: 2425262728292a2b2c2d2e2f3031323334353637000000000000000000000000

000000a0: 0000000000000000000000000000000000000000000000000000000000000000

000000c0: 0000000000000000000000000000000000000000000000000000000000000000

000000e0: 00000000000000000000000000000000000000000000000000000000

00:28:49:631335: GigabitEthernet0/b/0-output

GigabitEthernet0/b/0

IP4: 52:54:00:b1:98:3f -> 52:54:00:28:06:79

UDP: 10.1.1.1 -> 10.1.1.2

tos 0x00, ttl 253, length 134, checksum 0xa762 dscp CS0 ecn NON\_ECN

fragment id 0x0000

UDP: 22575 -> 4789

length 114, checksum 0x0000

00:28:49:631337: GigabitEthernet0/b/0-tx

GigabitEthernet0/b/0 tx queue 2

buffer 0x89815: current data -50, length 148, buffer-pool 0, ref-count 1, totlen-nifb 0, trace handle 0x2000005

l2-hdr-offset 0 l3-hdr-offset 14

PKT MBUF: port 65535, nb\_segs 1, pkt\_len 148

buf\_len 2176, data\_len 148, ol\_flags 0x0, data\_off 78, phys\_addr 0xa78605c0

packet\_type 0x0 l2\_len 0 l3\_len 0 outer\_l2\_len 0 outer\_l3\_len 0

rss 0x0 fdir.hi 0x0 fdir.lo 0x0

IP4: 52:54:00:b1:98:3f -> 52:54:00:28:06:79

UDP: 10.1.1.1 -> 10.1.1.2

tos 0x00, ttl 253, length 134, checksum 0xa762 dscp CS0 ecn NON\_ECN

fragment id 0x0000

UDP: 22575 -> 4789

length 114, checksum 0x0000

Packet 7

00:28:50:521933: dpdk-input

GigabitEthernet0/a/0 rx queue 0

buffer 0x87ec3: current data 0, length 52, buffer-pool 0, ref-count 1, totlen-nifb 0, trace handle 0x2000006

ext-hdr-valid

l4-cksum-computed l4-cksum-correct

PKT MBUF: port 1, nb\_segs 1, pkt\_len 52

buf\_len 2176, data\_len 52, ol\_flags 0x0, data\_off 128, phys\_addr 0xa7ffb140

packet\_type 0x0 l2\_len 0 l3\_len 0 outer\_l2\_len 0 outer\_l3\_len 0

rss 0x0 fdir.hi 0x0 fdir.lo 0x0

0x0026: fe:54:00:83:c4:39 -> 01:80:c2:00:00:00

00:28:50:521952: ethernet-input

frame: flags 0x1, hw-if-index 2, sw-if-index 2

0x0026: fe:54:00:83:c4:39 -> 01:80:c2:00:00:00

00:28:50:521961: llc-input

LLC bpdu -> bpdu

00:28:50:521965: error-drop

rx:GigabitEthernet0/a/0

00:28:50:521968: drop

llc-input: unknown llc ssap/dsap

Packet 8

00:28:50:634256: af-packet-input

af\_packet: hw\_if\_index 6 next-index 4

tpacket2\_hdr:

status 0x20000001 len 98 snaplen 98 mac 66 net 80

sec 0x60409a77 nsec 0x2cc34ff3 vlan 0 vlan\_tpid 0

00:28:50:634263: ethernet-input

IP4: c2:33:11:b1:93:b0 -> 02:fe:94:26:a9:20

00:28:50:634267: ip4-input

ICMP: 20.1.1.2 -> 16.1.1.2

tos 0x00, ttl 64, length 84, checksum 0xe6b0 dscp CS0 ecn NON\_ECN

fragment id 0x2df3, flags DONT\_FRAGMENT

ICMP echo\_request checksum 0xe910

00:28:50:634273: ip4-lookup

fib 0 dpo-idx 32 flow hash: 0x00000000

ICMP: 20.1.1.2 -> 16.1.1.2

tos 0x00, ttl 64, length 84, checksum 0xe6b0 dscp CS0 ecn NON\_ECN

fragment id 0x2df3, flags DONT\_FRAGMENT

ICMP echo\_request checksum 0xe910

00:28:50:634279: ip4-load-balance

fib 0 dpo-idx 7 flow hash: 0x00000000

ICMP: 20.1.1.2 -> 16.1.1.2

tos 0x00, ttl 64, length 84, checksum 0xe6b0 dscp CS0 ecn NON\_ECN

fragment id 0x2df3, flags DONT\_FRAGMENT

ICMP echo\_request checksum 0xe910

00:28:50:634282: ip4-rewrite

tx\_sw\_if\_index 5 dpo-idx 7 : ipv4 via 6.1.1.2 loop0: mtu:9000 next:5 1a2b3c4d5e6f1112131415160800 flow hash: 0x00000000

00000000: 1a2b3c4d5e6f1112131415160800450000542df340003f01e7b0140101021001

00000020: 01020800e91022aa0002779a4060000000006a750b0000000000101112131415

00000040: 161718191a1b1c1d1e1f202122232425262728292a2b2c2d2e2f303132333435

00000060: 3637000000000000000000000000000000000000000000000000000000000000

00000080: 0000000000000000000000000000000000000000000000000000000000000000

000000a0: 0000000000000000000000000000000000000000000000000000000000000000

000000c0: 0000000000000000000000000000000000000000000000000000000000000000

000000e0: 00000000000000000000000000000000000000000000000000000000

00:28:50:634287: loop0-output

loop0

IP4: 11:12:13:14:15:16 -> 1a:2b:3c:4d:5e:6f

ICMP: 20.1.1.2 -> 16.1.1.2

tos 0x00, ttl 63, length 84, checksum 0xe7b0 dscp CS0 ecn NON\_ECN

fragment id 0x2df3, flags DONT\_FRAGMENT

ICMP echo\_request checksum 0xe910

00:28:50:634293: l2-input

l2-input: sw\_if\_index 5 dst 1a:2b:3c:4d:5e:6f src 11:12:13:14:15:16

00:28:50:634298: l2-fwd

l2-fwd: sw\_if\_index 5 dst 1a:2b:3c:4d:5e:6f src 11:12:13:14:15:16 bd\_index 1 result [0x1020000000004, 4] none

00:28:50:634300: l2-output

l2-output: sw\_if\_index 4 dst 1a:2b:3c:4d:5e:6f src 11:12:13:14:15:16 data 08 00 45 00 00 54 2d f3 40 00 3f 01

00:28:50:634303: vxlan4-encap

VXLAN encap to vxlan\_tunnel0 vni 100

00:28:50:634305: ip4-rewrite

tx\_sw\_if\_index 3 dpo-idx 4 : ipv4 via 10.1.1.2 GigabitEthernet0/b/0: mtu:9000 next:4 525400280679525400b1983f0800 flow hash: 0x472c2f58

00000000: 525400280679525400b1983f08004500008600000000fd11a7620a0101010a01

00000020: 0102582f12b50072000008000000000064001a2b3c4d5e6f1112131415160800

00000040: 450000542df340003f01e7b014010102100101020800e91022aa0002779a4060

00000060: 000000006a750b0000000000101112131415161718191a1b1c1d1e1f20212223

00000080: 2425262728292a2b2c2d2e2f3031323334353637000000000000000000000000

000000a0: 0000000000000000000000000000000000000000000000000000000000000000

000000c0: 0000000000000000000000000000000000000000000000000000000000000000

000000e0: 00000000000000000000000000000000000000000000000000000000

00:28:50:634307: GigabitEthernet0/b/0-output

GigabitEthernet0/b/0

IP4: 52:54:00:b1:98:3f -> 52:54:00:28:06:79

UDP: 10.1.1.1 -> 10.1.1.2

tos 0x00, ttl 253, length 134, checksum 0xa762 dscp CS0 ecn NON\_ECN

fragment id 0x0000

UDP: 22575 -> 4789

length 114, checksum 0x0000

00:28:50:634308: GigabitEthernet0/b/0-tx

GigabitEthernet0/b/0 tx queue 2

buffer 0x897ee: current data -50, length 148, buffer-pool 0, ref-count 1, totlen-nifb 0, trace handle 0x2000007

l2-hdr-offset 0 l3-hdr-offset 14

PKT MBUF: port 65535, nb\_segs 1, pkt\_len 148

buf\_len 2176, data\_len 148, ol\_flags 0x0, data\_off 78, phys\_addr 0xa785fc00

packet\_type 0x0 l2\_len 0 l3\_len 0 outer\_l2\_len 0 outer\_l3\_len 0

rss 0x0 fdir.hi 0x0 fdir.lo 0x0

IP4: 52:54:00:b1:98:3f -> 52:54:00:28:06:79

UDP: 10.1.1.1 -> 10.1.1.2

tos 0x00, ttl 253, length 134, checksum 0xa762 dscp CS0 ecn NON\_ECN

fragment id 0x0000

UDP: 22575 -> 4789

length 114, checksum 0x0000

Packet 9

00:28:52:537959: dpdk-input

GigabitEthernet0/a/0 rx queue 0

buffer 0x9f0bf: current data 0, length 52, buffer-pool 0, ref-count 1, totlen-nifb 0, trace handle 0x2000008

ext-hdr-valid

l4-cksum-computed l4-cksum-correct

PKT MBUF: port 1, nb\_segs 1, pkt\_len 52

buf\_len 2176, data\_len 52, ol\_flags 0x0, data\_off 128, phys\_addr 0xa75c3040

packet\_type 0x0 l2\_len 0 l3\_len 0 outer\_l2\_len 0 outer\_l3\_len 0

rss 0x0 fdir.hi 0x0 fdir.lo 0x0

0x0026: fe:54:00:83:c4:39 -> 01:80:c2:00:00:00

00:28:52:537983: ethernet-input

frame: flags 0x1, hw-if-index 2, sw-if-index 2

0x0026: fe:54:00:83:c4:39 -> 01:80:c2:00:00:00

00:28:52:537991: llc-input

LLC bpdu -> bpdu

00:28:52:537994: error-drop

rx:GigabitEthernet0/a/0

00:28:52:537997: drop

llc-input: unknown llc ssap/dsap

## Router-B Trace：

DBGvpp# show trace

------------------- Start of thread 0 vpp\_main -------------------

No packets in trace buffer

------------------- Start of thread 1 vpp\_wk\_0 -------------------

Packet 1

00:28:56:168739: dpdk-input

GigabitEthernet0/b/0 rx queue 0

buffer 0x98273: current data 0, length 52, buffer-pool 0, ref-count 1, totlen-nifb 0, trace handle 0x1000000

ext-hdr-valid

l4-cksum-computed l4-cksum-correct

PKT MBUF: port 2, nb\_segs 1, pkt\_len 52

buf\_len 2176, data\_len 52, ol\_flags 0x0, data\_off 128, phys\_addr 0xa7a09d40

packet\_type 0x0 l2\_len 0 l3\_len 0 outer\_l2\_len 0 outer\_l3\_len 0

rss 0x0 fdir.hi 0x0 fdir.lo 0x0

0x0026: fe:54:00:28:06:79 -> 01:80:c2:00:00:00

00:28:56:168754: ethernet-input

frame: flags 0x1, hw-if-index 3, sw-if-index 3

0x0026: fe:54:00:28:06:79 -> 01:80:c2:00:00:00

00:28:56:168763: llc-input

LLC bpdu -> bpdu

00:28:56:168766: error-drop

rx:GigabitEthernet0/b/0

00:28:56:168769: drop

llc-input: unknown llc ssap/dsap

Packet 2

00:28:57:064829: dpdk-input

GigabitEthernet0/9/0 rx queue 0

buffer 0x97c53: current data 0, length 52, buffer-pool 0, ref-count 1, totlen-nifb 0, trace handle 0x1000001

ext-hdr-valid

l4-cksum-computed l4-cksum-correct

PKT MBUF: port 0, nb\_segs 1, pkt\_len 52

buf\_len 2176, data\_len 52, ol\_flags 0x0, data\_off 128, phys\_addr 0xa79f1540

packet\_type 0x0 l2\_len 0 l3\_len 0 outer\_l2\_len 0 outer\_l3\_len 0

rss 0x0 fdir.hi 0x0 fdir.lo 0x0

0x0026: fe:54:00:45:b9:80 -> 01:80:c2:00:00:00

00:28:57:064860: ethernet-input

frame: flags 0x1, hw-if-index 1, sw-if-index 1

0x0026: fe:54:00:45:b9:80 -> 01:80:c2:00:00:00

00:28:57:064876: llc-input

LLC bpdu -> bpdu

00:28:57:064879: error-drop

rx:GigabitEthernet0/9/0

00:28:57:064884: drop

llc-input: unknown llc ssap/dsap

Packet 3

00:28:58:152773: dpdk-input

GigabitEthernet0/b/0 rx queue 0

buffer 0x982c1: current data 0, length 52, buffer-pool 0, ref-count 1, totlen-nifb 0, trace handle 0x1000002

ext-hdr-valid

l4-cksum-computed l4-cksum-correct

PKT MBUF: port 2, nb\_segs 1, pkt\_len 52

buf\_len 2176, data\_len 52, ol\_flags 0x0, data\_off 128, phys\_addr 0xa7a0b0c0

packet\_type 0x0 l2\_len 0 l3\_len 0 outer\_l2\_len 0 outer\_l3\_len 0

rss 0x0 fdir.hi 0x0 fdir.lo 0x0

0x0026: fe:54:00:28:06:79 -> 01:80:c2:00:00:00

00:28:58:152790: ethernet-input

frame: flags 0x1, hw-if-index 3, sw-if-index 3

0x0026: fe:54:00:28:06:79 -> 01:80:c2:00:00:00

00:28:58:152799: llc-input

LLC bpdu -> bpdu

00:28:58:152802: error-drop

rx:GigabitEthernet0/b/0

00:28:58:152806: drop

llc-input: unknown llc ssap/dsap

Packet 4

00:28:58:158306: dpdk-input

GigabitEthernet0/b/0 rx queue 0

buffer 0x982e8: current data 0, length 148, buffer-pool 0, ref-count 1, totlen-nifb 0, trace handle 0x1000003

ext-hdr-valid

l4-cksum-computed l4-cksum-correct

PKT MBUF: port 2, nb\_segs 1, pkt\_len 148

buf\_len 2176, data\_len 148, ol\_flags 0x0, data\_off 128, phys\_addr 0xa7a0ba80

packet\_type 0x0 l2\_len 0 l3\_len 0 outer\_l2\_len 0 outer\_l3\_len 0

rss 0x0 fdir.hi 0x0 fdir.lo 0x0

IP4: 52:54:00:b1:98:3f -> 52:54:00:28:06:79

UDP: 10.1.1.1 -> 10.1.1.2

tos 0x00, ttl 253, length 134, checksum 0xa762 dscp CS0 ecn NON\_ECN

fragment id 0x0000

UDP: 22575 -> 4789

length 114, checksum 0x0000

00:28:58:158313: ethernet-input

frame: flags 0x1, hw-if-index 3, sw-if-index 3

IP4: 52:54:00:b1:98:3f -> 52:54:00:28:06:79

00:28:58:158327: ip4-input

UDP: 10.1.1.1 -> 10.1.1.2

tos 0x00, ttl 253, length 134, checksum 0xa762 dscp CS0 ecn NON\_ECN

fragment id 0x0000

UDP: 22575 -> 4789

length 114, checksum 0x0000

00:28:58:158334: ip4-lookup

fib 0 dpo-idx 10 flow hash: 0x00000000

UDP: 10.1.1.1 -> 10.1.1.2

tos 0x00, ttl 253, length 134, checksum 0xa762 dscp CS0 ecn NON\_ECN

fragment id 0x0000

UDP: 22575 -> 4789

length 114, checksum 0x0000

00:28:58:158380: ip4-local

UDP: 10.1.1.1 -> 10.1.1.2

tos 0x00, ttl 253, length 134, checksum 0xa762 dscp CS0 ecn NON\_ECN

fragment id 0x0000

UDP: 22575 -> 4789

length 114, checksum 0x0000

00:28:58:158388: ip4-udp-lookup

UDP: src-port 22575 dst-port 4789

00:28:58:158392: vxlan4-input

VXLAN decap from vxlan\_tunnel0 vni 100 next 1 error 0

00:28:58:158404: l2-input

l2-input: sw\_if\_index 4 dst 1a:2b:3c:4d:5e:6f src 11:12:13:14:15:16

00:28:58:158408: l2-learn

l2-learn: sw\_if\_index 4 dst 1a:2b:3c:4d:5e:6f src 11:12:13:14:15:16 bd\_index 1

00:28:58:158411: l2-fwd

l2-fwd: sw\_if\_index 4 dst 1a:2b:3c:4d:5e:6f src 11:12:13:14:15:16 bd\_index 1 result [0x700000005, 5] static age-not bvi

00:28:58:158415: ip4-input

ICMP: 20.1.1.2 -> 16.1.1.2

tos 0x00, ttl 63, length 84, checksum 0xe826 dscp CS0 ecn NON\_ECN

fragment id 0x2d7d, flags DONT\_FRAGMENT

ICMP echo\_request checksum 0xb41d

00:28:58:158419: ip4-lookup

fib 0 dpo-idx 8 flow hash: 0x00000000

ICMP: 20.1.1.2 -> 16.1.1.2

tos 0x00, ttl 63, length 84, checksum 0xe826 dscp CS0 ecn NON\_ECN

fragment id 0x2d7d, flags DONT\_FRAGMENT

ICMP echo\_request checksum 0xb41d

00:28:58:158426: ip4-rewrite

tx\_sw\_if\_index 6 dpo-idx 8 : ipv4 via 16.1.1.2 host-vpp2out: mtu:9000 next:6 aec005d2981802feed8158b90800 flow hash: 0x00000000

00000000: aec005d2981802feed8158b90800450000542d7d40003e01e926140101021001

00000020: 01020800b41d22aa0001769a406000000000a0690b0000000000101112131415

00000040: 161718191a1b1c1d1e1f202122232425262728292a2b2c2d2e2f303132333435

00000060: 3637000000000000000000000000000000000000000000000000000000000000

00000080: 0000000000000000000000000000000000000000000000000000000000000000

000000a0: 0000000000000000000000000000000000000000000000000000000000000000

000000c0: 0000000000000000000000000000000000000000000000000000000000000000

000000e0: 00000000000000000000000000000000000000000000000000000000

00:28:58:158430: host-vpp2out-output

host-vpp2out

IP4: 02:fe:ed:81:58:b9 -> ae:c0:05:d2:98:18

ICMP: 20.1.1.2 -> 16.1.1.2

tos 0x00, ttl 62, length 84, checksum 0xe926 dscp CS0 ecn NON\_ECN

fragment id 0x2d7d, flags DONT\_FRAGMENT

ICMP echo\_request checksum 0xb41d

Packet 5

00:28:59:048795: dpdk-input

GigabitEthernet0/9/0 rx queue 0

buffer 0x97ca1: current data 0, length 52, buffer-pool 0, ref-count 1, totlen-nifb 0, trace handle 0x1000004

ext-hdr-valid

l4-cksum-computed l4-cksum-correct

PKT MBUF: port 0, nb\_segs 1, pkt\_len 52

buf\_len 2176, data\_len 52, ol\_flags 0x0, data\_off 128, phys\_addr 0xa79f28c0

packet\_type 0x0 l2\_len 0 l3\_len 0 outer\_l2\_len 0 outer\_l3\_len 0

rss 0x0 fdir.hi 0x0 fdir.lo 0x0

0x0026: fe:54:00:45:b9:80 -> 01:80:c2:00:00:00

00:28:59:048818: ethernet-input

frame: flags 0x1, hw-if-index 1, sw-if-index 1

0x0026: fe:54:00:45:b9:80 -> 01:80:c2:00:00:00

00:28:59:048831: llc-input

LLC bpdu -> bpdu

00:28:59:048835: error-drop

rx:GigabitEthernet0/9/0

00:28:59:048839: drop

llc-input: unknown llc ssap/dsap

Packet 6

00:28:59:161277: dpdk-input

GigabitEthernet0/b/0 rx queue 0

buffer 0x98336: current data 0, length 148, buffer-pool 0, ref-count 1, totlen-nifb 0, trace handle 0x1000005

ext-hdr-valid

l4-cksum-computed l4-cksum-correct

PKT MBUF: port 2, nb\_segs 1, pkt\_len 148

buf\_len 2176, data\_len 148, ol\_flags 0x0, data\_off 128, phys\_addr 0xa7a0ce00

packet\_type 0x0 l2\_len 0 l3\_len 0 outer\_l2\_len 0 outer\_l3\_len 0

rss 0x0 fdir.hi 0x0 fdir.lo 0x0

IP4: 52:54:00:b1:98:3f -> 52:54:00:28:06:79

UDP: 10.1.1.1 -> 10.1.1.2

tos 0x00, ttl 253, length 134, checksum 0xa762 dscp CS0 ecn NON\_ECN

fragment id 0x0000

UDP: 22575 -> 4789

length 114, checksum 0x0000

00:28:59:161290: ethernet-input

frame: flags 0x1, hw-if-index 3, sw-if-index 3

IP4: 52:54:00:b1:98:3f -> 52:54:00:28:06:79

00:28:59:161298: ip4-input

UDP: 10.1.1.1 -> 10.1.1.2

tos 0x00, ttl 253, length 134, checksum 0xa762 dscp CS0 ecn NON\_ECN

fragment id 0x0000

UDP: 22575 -> 4789

length 114, checksum 0x0000

00:28:59:161304: ip4-lookup

fib 0 dpo-idx 10 flow hash: 0x00000000

UDP: 10.1.1.1 -> 10.1.1.2

tos 0x00, ttl 253, length 134, checksum 0xa762 dscp CS0 ecn NON\_ECN

fragment id 0x0000

UDP: 22575 -> 4789

length 114, checksum 0x0000

00:28:59:161313: ip4-local

UDP: 10.1.1.1 -> 10.1.1.2

tos 0x00, ttl 253, length 134, checksum 0xa762 dscp CS0 ecn NON\_ECN

fragment id 0x0000

UDP: 22575 -> 4789

length 114, checksum 0x0000

00:28:59:161317: ip4-udp-lookup

UDP: src-port 22575 dst-port 4789

00:28:59:161321: vxlan4-input

VXLAN decap from vxlan\_tunnel0 vni 100 next 1 error 0

00:28:59:161325: l2-input

l2-input: sw\_if\_index 4 dst 1a:2b:3c:4d:5e:6f src 11:12:13:14:15:16

00:28:59:161328: l2-learn

l2-learn: sw\_if\_index 4 dst 1a:2b:3c:4d:5e:6f src 11:12:13:14:15:16 bd\_index 1

00:28:59:161332: l2-fwd

l2-fwd: sw\_if\_index 4 dst 1a:2b:3c:4d:5e:6f src 11:12:13:14:15:16 bd\_index 1 result [0x700000005, 5] static age-not bvi

00:28:59:161336: ip4-input

ICMP: 20.1.1.2 -> 16.1.1.2

tos 0x00, ttl 63, length 84, checksum 0xe7b0 dscp CS0 ecn NON\_ECN

fragment id 0x2df3, flags DONT\_FRAGMENT

ICMP echo\_request checksum 0xe910

00:28:59:161358: ip4-lookup

fib 0 dpo-idx 8 flow hash: 0x00000000

ICMP: 20.1.1.2 -> 16.1.1.2

tos 0x00, ttl 63, length 84, checksum 0xe7b0 dscp CS0 ecn NON\_ECN

fragment id 0x2df3, flags DONT\_FRAGMENT

ICMP echo\_request checksum 0xe910

00:28:59:161361: ip4-rewrite

tx\_sw\_if\_index 6 dpo-idx 8 : ipv4 via 16.1.1.2 host-vpp2out: mtu:9000 next:6 aec005d2981802feed8158b90800 flow hash: 0x00000000

00000000: aec005d2981802feed8158b90800450000542df340003e01e8b0140101021001

00000020: 01020800e91022aa0002779a4060000000006a750b0000000000101112131415

00000040: 161718191a1b1c1d1e1f202122232425262728292a2b2c2d2e2f303132333435

00000060: 3637000000000000000000000000000000000000000000000000000000000000

00000080: 0000000000000000000000000000000000000000000000000000000000000000

000000a0: 0000000000000000000000000000000000000000000000000000000000000000

000000c0: 0000000000000000000000000000000000000000000000000000000000000000

000000e0: 00000000000000000000000000000000000000000000000000000000

00:28:59:161365: host-vpp2out-output

host-vpp2out

IP4: 02:fe:ed:81:58:b9 -> ae:c0:05:d2:98:18

ICMP: 20.1.1.2 -> 16.1.1.2

tos 0x00, ttl 62, length 84, checksum 0xe8b0 dscp CS0 ecn NON\_ECN

fragment id 0x2df3, flags DONT\_FRAGMENT

ICMP echo\_request checksum 0xe910

Packet 7

00:29:00:172825: dpdk-input

GigabitEthernet0/b/0 rx queue 0

buffer 0x98384: current data 0, length 52, buffer-pool 0, ref-count 1, totlen-nifb 0, trace handle 0x1000006

ext-hdr-valid

l4-cksum-computed l4-cksum-correct

PKT MBUF: port 2, nb\_segs 1, pkt\_len 52

buf\_len 2176, data\_len 52, ol\_flags 0x0, data\_off 128, phys\_addr 0xa7a0e180

packet\_type 0x0 l2\_len 0 l3\_len 0 outer\_l2\_len 0 outer\_l3\_len 0

rss 0x0 fdir.hi 0x0 fdir.lo 0x0

0x0026: fe:54:00:28:06:79 -> 01:80:c2:00:00:00

00:29:00:172839: ethernet-input

frame: flags 0x1, hw-if-index 3, sw-if-index 3

0x0026: fe:54:00:28:06:79 -> 01:80:c2:00:00:00

00:29:00:172848: llc-input

LLC bpdu -> bpdu

00:29:00:172851: error-drop

rx:GigabitEthernet0/b/0

00:29:00:172854: drop

llc-input: unknown llc ssap/dsap

Packet 8

00:29:01:064796: dpdk-input

GigabitEthernet0/9/0 rx queue 0

buffer 0x98e7c: current data 0, length 52, buffer-pool 0, ref-count 1, totlen-nifb 0, trace handle 0x1000007

ext-hdr-valid

l4-cksum-computed l4-cksum-correct

PKT MBUF: port 0, nb\_segs 1, pkt\_len 52

buf\_len 2176, data\_len 52, ol\_flags 0x0, data\_off 128, phys\_addr 0xa7a39f80

packet\_type 0x0 l2\_len 0 l3\_len 0 outer\_l2\_len 0 outer\_l3\_len 0

rss 0x0 fdir.hi 0x0 fdir.lo 0x0

0x0026: fe:54:00:45:b9:80 -> 01:80:c2:00:00:00

00:29:01:064817: ethernet-input

frame: flags 0x1, hw-if-index 1, sw-if-index 1

0x0026: fe:54:00:45:b9:80 -> 01:80:c2:00:00:00

00:29:01:064835: llc-input

LLC bpdu -> bpdu

00:29:01:064838: error-drop

rx:GigabitEthernet0/9/0

00:29:01:064843: drop

llc-input: unknown llc ssap/dsap

Packet 9

00:29:02:152834: dpdk-input

GigabitEthernet0/b/0 rx queue 0

buffer 0x983d2: current data 0, length 52, buffer-pool 0, ref-count 1, totlen-nifb 0, trace handle 0x1000008

ext-hdr-valid

l4-cksum-computed l4-cksum-correct

PKT MBUF: port 2, nb\_segs 1, pkt\_len 52

buf\_len 2176, data\_len 52, ol\_flags 0x0, data\_off 128, phys\_addr 0xa7a0f500

packet\_type 0x0 l2\_len 0 l3\_len 0 outer\_l2\_len 0 outer\_l3\_len 0

rss 0x0 fdir.hi 0x0 fdir.lo 0x0

0x0026: fe:54:00:28:06:79 -> 01:80:c2:00:00:00

00:29:02:152853: ethernet-input

frame: flags 0x1, hw-if-index 3, sw-if-index 3

0x0026: fe:54:00:28:06:79 -> 01:80:c2:00:00:00

00:29:02:152863: llc-input

LLC bpdu -> bpdu

00:29:02:152867: error-drop

rx:GigabitEthernet0/b/0

00:29:02:152871: drop

llc-input: unknown llc ssap/dsap

Packet 10

00:29:03:048915: dpdk-input

GigabitEthernet0/9/0 rx queue 0

buffer 0x98ea3: current data 0, length 52, buffer-pool 0, ref-count 1, totlen-nifb 0, trace handle 0x1000009

ext-hdr-valid

l4-cksum-computed l4-cksum-correct

PKT MBUF: port 0, nb\_segs 1, pkt\_len 52

buf\_len 2176, data\_len 52, ol\_flags 0x0, data\_off 128, phys\_addr 0xa7a3a940

packet\_type 0x0 l2\_len 0 l3\_len 0 outer\_l2\_len 0 outer\_l3\_len 0

rss 0x0 fdir.hi 0x0 fdir.lo 0x0

0x0026: fe:54:00:45:b9:80 -> 01:80:c2:00:00:00

00:29:03:048938: ethernet-input

frame: flags 0x1, hw-if-index 1, sw-if-index 1

0x0026: fe:54:00:45:b9:80 -> 01:80:c2:00:00:00

00:29:03:048949: llc-input

LLC bpdu -> bpdu

00:29:03:048952: error-drop

rx:GigabitEthernet0/9/0

00:29:03:048957: drop

llc-input: unknown llc ssap/dsap

Packet 11

00:29:04:168871: dpdk-input

GigabitEthernet0/b/0 rx queue 0

buffer 0x98420: current data 0, length 52, buffer-pool 0, ref-count 1, totlen-nifb 0, trace handle 0x100000a

ext-hdr-valid

l4-cksum-computed l4-cksum-correct

PKT MBUF: port 2, nb\_segs 1, pkt\_len 52

buf\_len 2176, data\_len 52, ol\_flags 0x0, data\_off 128, phys\_addr 0xa7a10880

packet\_type 0x0 l2\_len 0 l3\_len 0 outer\_l2\_len 0 outer\_l3\_len 0

rss 0x0 fdir.hi 0x0 fdir.lo 0x0

0x0026: fe:54:00:28:06:79 -> 01:80:c2:00:00:00

00:29:04:168886: ethernet-input

frame: flags 0x1, hw-if-index 3, sw-if-index 3

0x0026: fe:54:00:28:06:79 -> 01:80:c2:00:00:00

00:29:04:168894: llc-input

LLC bpdu -> bpdu

00:29:04:168897: error-drop

rx:GigabitEthernet0/b/0

00:29:04:168901: drop

llc-input: unknown llc ssap/dsap

Packet 12

00:29:05:064934: dpdk-input

GigabitEthernet0/9/0 rx queue 0

buffer 0x98f18: current data 0, length 52, buffer-pool 0, ref-count 1, totlen-nifb 0, trace handle 0x100000b

ext-hdr-valid

l4-cksum-computed l4-cksum-correct

PKT MBUF: port 0, nb\_segs 1, pkt\_len 52

buf\_len 2176, data\_len 52, ol\_flags 0x0, data\_off 128, phys\_addr 0xa7a3c680

packet\_type 0x0 l2\_len 0 l3\_len 0 outer\_l2\_len 0 outer\_l3\_len 0

rss 0x0 fdir.hi 0x0 fdir.lo 0x0

0x0026: fe:54:00:45:b9:80 -> 01:80:c2:00:00:00

00:29:05:064954: ethernet-input

frame: flags 0x1, hw-if-index 1, sw-if-index 1

0x0026: fe:54:00:45:b9:80 -> 01:80:c2:00:00:00

00:29:05:064966: llc-input

LLC bpdu -> bpdu

00:29:05:064970: error-drop

rx:GigabitEthernet0/9/0

00:29:05:064974: drop

llc-input: unknown llc ssap/dsap

Packet 13

00:29:06:152906: dpdk-input

GigabitEthernet0/b/0 rx queue 0

buffer 0x9846e: current data 0, length 52, buffer-pool 0, ref-count 1, totlen-nifb 0, trace handle 0x100000c

ext-hdr-valid

l4-cksum-computed l4-cksum-correct

PKT MBUF: port 2, nb\_segs 1, pkt\_len 52

buf\_len 2176, data\_len 52, ol\_flags 0x0, data\_off 128, phys\_addr 0xa7a11c00

packet\_type 0x0 l2\_len 0 l3\_len 0 outer\_l2\_len 0 outer\_l3\_len 0

rss 0x0 fdir.hi 0x0 fdir.lo 0x0

0x0026: fe:54:00:28:06:79 -> 01:80:c2:00:00:00

00:29:06:152926: ethernet-input

frame: flags 0x1, hw-if-index 3, sw-if-index 3

0x0026: fe:54:00:28:06:79 -> 01:80:c2:00:00:00

00:29:06:152951: llc-input

LLC bpdu -> bpdu

00:29:06:152955: error-drop

rx:GigabitEthernet0/b/0

00:29:06:152961: drop

llc-input: unknown llc ssap/dsap

Packet 14

00:29:07:048974: dpdk-input

GigabitEthernet0/9/0 rx queue 0

buffer 0x98f3f: current data 0, length 52, buffer-pool 0, ref-count 1, totlen-nifb 0, trace handle 0x100000d

ext-hdr-valid

l4-cksum-computed l4-cksum-correct

PKT MBUF: port 0, nb\_segs 1, pkt\_len 52

buf\_len 2176, data\_len 52, ol\_flags 0x0, data\_off 128, phys\_addr 0xa7a3d040

packet\_type 0x0 l2\_len 0 l3\_len 0 outer\_l2\_len 0 outer\_l3\_len 0

rss 0x0 fdir.hi 0x0 fdir.lo 0x0

0x0026: fe:54:00:45:b9:80 -> 01:80:c2:00:00:00

00:29:07:048996: ethernet-input

frame: flags 0x1, hw-if-index 1, sw-if-index 1

0x0026: fe:54:00:45:b9:80 -> 01:80:c2:00:00:00

00:29:07:049008: llc-input

LLC bpdu -> bpdu

00:29:07:049012: error-drop

rx:GigabitEthernet0/9/0

00:29:07:049016: drop

llc-input: unknown llc ssap/dsap

Packet 15

00:29:08:168922: dpdk-input

GigabitEthernet0/b/0 rx queue 0

buffer 0x984bc: current data 0, length 52, buffer-pool 0, ref-count 1, totlen-nifb 0, trace handle 0x100000e

ext-hdr-valid

l4-cksum-computed l4-cksum-correct

PKT MBUF: port 2, nb\_segs 1, pkt\_len 52

buf\_len 2176, data\_len 52, ol\_flags 0x0, data\_off 128, phys\_addr 0xa7a12f80

packet\_type 0x0 l2\_len 0 l3\_len 0 outer\_l2\_len 0 outer\_l3\_len 0

rss 0x0 fdir.hi 0x0 fdir.lo 0x0

0x0026: fe:54:00:28:06:79 -> 01:80:c2:00:00:00

00:29:08:168935: ethernet-input

frame: flags 0x1, hw-if-index 3, sw-if-index 3

0x0026: fe:54:00:28:06:79 -> 01:80:c2:00:00:00

00:29:08:168952: llc-input

LLC bpdu -> bpdu

00:29:08:168955: error-drop

rx:GigabitEthernet0/b/0

00:29:08:168959: drop

llc-input: unknown llc ssap/dsap

Packet 16

00:29:09:064919: dpdk-input

GigabitEthernet0/9/0 rx queue 0

buffer 0x9861b: current data 0, length 52, buffer-pool 0, ref-count 1, totlen-nifb 0, trace handle 0x100000f

ext-hdr-valid

l4-cksum-computed l4-cksum-correct

PKT MBUF: port 0, nb\_segs 1, pkt\_len 52

buf\_len 2176, data\_len 52, ol\_flags 0x0, data\_off 128, phys\_addr 0xa7a18740

packet\_type 0x0 l2\_len 0 l3\_len 0 outer\_l2\_len 0 outer\_l3\_len 0

rss 0x0 fdir.hi 0x0 fdir.lo 0x0

0x0026: fe:54:00:45:b9:80 -> 01:80:c2:00:00:00

00:29:09:064938: ethernet-input

frame: flags 0x1, hw-if-index 1, sw-if-index 1

0x0026: fe:54:00:45:b9:80 -> 01:80:c2:00:00:00

00:29:09:064951: llc-input

LLC bpdu -> bpdu

00:29:09:064955: error-drop

rx:GigabitEthernet0/9/0

00:29:09:064960: drop

llc-input: unknown llc ssap/dsap

------------------- Start of thread 2 vpp\_wk\_1 -------------------

Packet 1

00:28:56:072744: dpdk-input

GigabitEthernet0/a/0 rx queue 0

buffer 0x9f0e6: current data 0, length 52, buffer-pool 0, ref-count 1, totlen-nifb 0, trace handle 0x2000000

ext-hdr-valid

l4-cksum-computed l4-cksum-correct

PKT MBUF: port 1, nb\_segs 1, pkt\_len 52

buf\_len 2176, data\_len 52, ol\_flags 0x0, data\_off 128, phys\_addr 0xa7bc3a00

packet\_type 0x0 l2\_len 0 l3\_len 0 outer\_l2\_len 0 outer\_l3\_len 0

rss 0x0 fdir.hi 0x0 fdir.lo 0x0

0x0026: fe:54:00:89:c3:8b -> 01:80:c2:00:00:00

00:28:56:072829: ethernet-input

frame: flags 0x1, hw-if-index 2, sw-if-index 2

0x0026: fe:54:00:89:c3:8b -> 01:80:c2:00:00:00

00:28:56:072857: llc-input

LLC bpdu -> bpdu

00:28:56:072875: error-drop

rx:GigabitEthernet0/a/0

00:28:56:072880: drop

llc-input: unknown llc ssap/dsap

Packet 2

00:28:58:088838: dpdk-input

GigabitEthernet0/a/0 rx queue 0

buffer 0x9f10d: current data 0, length 52, buffer-pool 0, ref-count 1, totlen-nifb 0, trace handle 0x2000001

ext-hdr-valid

l4-cksum-computed l4-cksum-correct

PKT MBUF: port 1, nb\_segs 1, pkt\_len 52

buf\_len 2176, data\_len 52, ol\_flags 0x0, data\_off 128, phys\_addr 0xa7bc43c0

packet\_type 0x0 l2\_len 0 l3\_len 0 outer\_l2\_len 0 outer\_l3\_len 0

rss 0x0 fdir.hi 0x0 fdir.lo 0x0

0x0026: fe:54:00:89:c3:8b -> 01:80:c2:00:00:00

00:28:58:088859: ethernet-input

frame: flags 0x1, hw-if-index 2, sw-if-index 2

0x0026: fe:54:00:89:c3:8b -> 01:80:c2:00:00:00

00:28:58:088879: llc-input

LLC bpdu -> bpdu

00:28:58:088882: error-drop

rx:GigabitEthernet0/a/0

00:28:58:088887: drop

llc-input: unknown llc ssap/dsap

Packet 3

00:28:58:158510: af-packet-input

af\_packet: hw\_if\_index 6 next-index 4

tpacket2\_hdr:

status 0x20000001 len 98 snaplen 98 mac 66 net 80

sec 0x60409a76 nsec 0x2dcdd1ab vlan 0 vlan\_tpid 0

00:28:58:158539: ethernet-input

IP4: ae:c0:05:d2:98:18 -> 02:fe:ed:81:58:b9

00:28:58:158544: ip4-input

ICMP: 16.1.1.2 -> 20.1.1.2

tos 0x00, ttl 64, length 84, checksum 0x2a78 dscp CS0 ecn NON\_ECN

fragment id 0x2a2c

ICMP echo\_reply checksum 0xbc1d

00:28:58:158551: ip4-lookup

fib 0 dpo-idx 32 flow hash: 0x00000000

ICMP: 16.1.1.2 -> 20.1.1.2

tos 0x00, ttl 64, length 84, checksum 0x2a78 dscp CS0 ecn NON\_ECN

fragment id 0x2a2c

ICMP echo\_reply checksum 0xbc1d

00:28:58:158557: ip4-load-balance

fib 0 dpo-idx 7 flow hash: 0x00000000

ICMP: 16.1.1.2 -> 20.1.1.2

tos 0x00, ttl 64, length 84, checksum 0x2a78 dscp CS0 ecn NON\_ECN

fragment id 0x2a2c

ICMP echo\_reply checksum 0xbc1d

00:28:58:158562: ip4-rewrite

tx\_sw\_if\_index 5 dpo-idx 7 : ipv4 via 6.1.1.1 loop0: mtu:9000 next:5 1112131415161a2b3c4d5e6f0800 flow hash: 0x00000000

00000000: 1112131415161a2b3c4d5e6f0800450000542a2c00003f012b78100101021401

00000020: 01020000bc1d22aa0001769a406000000000a0690b0000000000101112131415

00000040: 161718191a1b1c1d1e1f202122232425262728292a2b2c2d2e2f303132333435

00000060: 3637000000000000000000000000000000000000000000000000000000000000

00000080: 0000000000000000000000000000000000000000000000000000000000000000

000000a0: 0000000000000000000000000000000000000000000000000000000000000000

000000c0: 0000000000000000000000000000000000000000000000000000000000000000

000000e0: 00000000000000000000000000000000000000000000000000000000

00:28:58:158566: loop0-output

loop0

IP4: 1a:2b:3c:4d:5e:6f -> 11:12:13:14:15:16

ICMP: 16.1.1.2 -> 20.1.1.2

tos 0x00, ttl 63, length 84, checksum 0x2b78 dscp CS0 ecn NON\_ECN

fragment id 0x2a2c

ICMP echo\_reply checksum 0xbc1d

00:28:58:158573: l2-input

l2-input: sw\_if\_index 5 dst 11:12:13:14:15:16 src 1a:2b:3c:4d:5e:6f

00:28:58:158578: l2-flood

l2-flood: sw\_if\_index 5 dst 11:12:13:14:15:16 src 1a:2b:3c:4d:5e:6f bd\_index 1

00:28:58:158582: l2-output

l2-output: sw\_if\_index 4 dst 11:12:13:14:15:16 src 1a:2b:3c:4d:5e:6f data 08 00 45 00 00 54 2a 2c 00 00 3f 01

00:28:58:158590: vxlan4-encap

VXLAN encap to vxlan\_tunnel0 vni 100

00:28:58:158595: ip4-rewrite

tx\_sw\_if\_index 3 dpo-idx 4 : ipv4 via 10.1.1.1 GigabitEthernet0/b/0: mtu:9000 next:4 525400b1983f5254002806790800 flow hash: 0xa9720f1c

00000000: 525400b1983f52540028067908004500008600000000fd11a7620a0101020a01

00000020: 01011c0f12b50072000008000000000064001112131415161a2b3c4d5e6f0800

00000040: 450000542a2c00003f012b7810010102140101020000bc1d22aa0001769a4060

00000060: 00000000a0690b0000000000101112131415161718191a1b1c1d1e1f20212223

00000080: 2425262728292a2b2c2d2e2f3031323334353637000000000000000000000000

000000a0: 0000000000000000000000000000000000000000000000000000000000000000

000000c0: 0000000000000000000000000000000000000000000000000000000000000000

000000e0: 00000000000000000000000000000000000000000000000000000000

00:28:58:158596: GigabitEthernet0/b/0-output

GigabitEthernet0/b/0

IP4: 52:54:00:28:06:79 -> 52:54:00:b1:98:3f

UDP: 10.1.1.2 -> 10.1.1.1

tos 0x00, ttl 253, length 134, checksum 0xa762 dscp CS0 ecn NON\_ECN

fragment id 0x0000

UDP: 7183 -> 4789

length 114, checksum 0x0000

00:28:58:158598: GigabitEthernet0/b/0-tx

GigabitEthernet0/b/0 tx queue 2

buffer 0x8a076: current data -50, length 148, buffer-pool 0, ref-count 1, totlen-nifb 0, trace handle 0x2000002

l2-hdr-offset 0 l3-hdr-offset 14

PKT MBUF: port 65535, nb\_segs 1, pkt\_len 148

buf\_len 2176, data\_len 148, ol\_flags 0x0, data\_off 78, phys\_addr 0xa7e81e00

packet\_type 0x0 l2\_len 0 l3\_len 0 outer\_l2\_len 0 outer\_l3\_len 0

rss 0x0 fdir.hi 0x0 fdir.lo 0x0

IP4: 52:54:00:28:06:79 -> 52:54:00:b1:98:3f

UDP: 10.1.1.2 -> 10.1.1.1

tos 0x00, ttl 253, length 134, checksum 0xa762 dscp CS0 ecn NON\_ECN

fragment id 0x0000

UDP: 7183 -> 4789

length 114, checksum 0x0000

Packet 4

00:28:59:161440: af-packet-input

af\_packet: hw\_if\_index 6 next-index 4

tpacket2\_hdr:

status 0x20000001 len 98 snaplen 98 mac 66 net 80

sec 0x60409a77 nsec 0x2dfa870c vlan 0 vlan\_tpid 0

00:28:59:161463: ethernet-input

IP4: ae:c0:05:d2:98:18 -> 02:fe:ed:81:58:b9

00:28:59:161470: ip4-input

ICMP: 16.1.1.2 -> 20.1.1.2

tos 0x00, ttl 64, length 84, checksum 0x29d7 dscp CS0 ecn NON\_ECN

fragment id 0x2acd

ICMP echo\_reply checksum 0xf110

00:28:59:161476: ip4-lookup

fib 0 dpo-idx 32 flow hash: 0x00000000

ICMP: 16.1.1.2 -> 20.1.1.2

tos 0x00, ttl 64, length 84, checksum 0x29d7 dscp CS0 ecn NON\_ECN

fragment id 0x2acd

ICMP echo\_reply checksum 0xf110

00:28:59:161483: ip4-load-balance

fib 0 dpo-idx 7 flow hash: 0x00000000

ICMP: 16.1.1.2 -> 20.1.1.2

tos 0x00, ttl 64, length 84, checksum 0x29d7 dscp CS0 ecn NON\_ECN

fragment id 0x2acd

ICMP echo\_reply checksum 0xf110

00:28:59:161487: ip4-rewrite

tx\_sw\_if\_index 5 dpo-idx 7 : ipv4 via 6.1.1.1 loop0: mtu:9000 next:5 1112131415161a2b3c4d5e6f0800 flow hash: 0x00000000

00000000: 1112131415161a2b3c4d5e6f0800450000542acd00003f012ad7100101021401

00000020: 01020000f11022aa0002779a4060000000006a750b0000000000101112131415

00000040: 161718191a1b1c1d1e1f202122232425262728292a2b2c2d2e2f303132333435

00000060: 3637000000000000000000000000000000000000000000000000000000000000

00000080: 0000000000000000000000000000000000000000000000000000000000000000

000000a0: 0000000000000000000000000000000000000000000000000000000000000000

000000c0: 0000000000000000000000000000000000000000000000000000000000000000

000000e0: 00000000000000000000000000000000000000000000000000000000

00:28:59:161491: loop0-output

loop0

IP4: 1a:2b:3c:4d:5e:6f -> 11:12:13:14:15:16

ICMP: 16.1.1.2 -> 20.1.1.2

tos 0x00, ttl 63, length 84, checksum 0x2ad7 dscp CS0 ecn NON\_ECN

fragment id 0x2acd

ICMP echo\_reply checksum 0xf110

00:28:59:161498: l2-input

l2-input: sw\_if\_index 5 dst 11:12:13:14:15:16 src 1a:2b:3c:4d:5e:6f

00:28:59:161503: l2-flood

l2-flood: sw\_if\_index 5 dst 11:12:13:14:15:16 src 1a:2b:3c:4d:5e:6f bd\_index 1

00:28:59:161506: l2-output

l2-output: sw\_if\_index 4 dst 11:12:13:14:15:16 src 1a:2b:3c:4d:5e:6f data 08 00 45 00 00 54 2a cd 00 00 3f 01

00:28:59:161510: vxlan4-encap

VXLAN encap to vxlan\_tunnel0 vni 100

00:28:59:161515: ip4-rewrite

tx\_sw\_if\_index 3 dpo-idx 4 : ipv4 via 10.1.1.1 GigabitEthernet0/b/0: mtu:9000 next:4 525400b1983f5254002806790800 flow hash: 0xa9720f1c

00000000: 525400b1983f52540028067908004500008600000000fd11a7620a0101020a01

00000020: 01011c0f12b50072000008000000000064001112131415161a2b3c4d5e6f0800

00000040: 450000542acd00003f012ad710010102140101020000f11022aa0002779a4060

00000060: 000000006a750b0000000000101112131415161718191a1b1c1d1e1f20212223

00000080: 2425262728292a2b2c2d2e2f3031323334353637000000000000000000000000

000000a0: 0000000000000000000000000000000000000000000000000000000000000000

000000c0: 0000000000000000000000000000000000000000000000000000000000000000

000000e0: 00000000000000000000000000000000000000000000000000000000

00:28:59:161516: GigabitEthernet0/b/0-output

GigabitEthernet0/b/0

IP4: 52:54:00:28:06:79 -> 52:54:00:b1:98:3f

UDP: 10.1.1.2 -> 10.1.1.1

tos 0x00, ttl 253, length 134, checksum 0xa762 dscp CS0 ecn NON\_ECN

fragment id 0x0000

UDP: 7183 -> 4789

length 114, checksum 0x0000

00:28:59:161518: GigabitEthernet0/b/0-tx

GigabitEthernet0/b/0 tx queue 2

buffer 0x8a04f: current data -50, length 148, buffer-pool 0, ref-count 1, totlen-nifb 0, trace handle 0x2000003

l2-hdr-offset 0 l3-hdr-offset 14

PKT MBUF: port 65535, nb\_segs 1, pkt\_len 148

buf\_len 2176, data\_len 148, ol\_flags 0x0, data\_off 78, phys\_addr 0xa7e81440

packet\_type 0x0 l2\_len 0 l3\_len 0 outer\_l2\_len 0 outer\_l3\_len 0

rss 0x0 fdir.hi 0x0 fdir.lo 0x0

IP4: 52:54:00:28:06:79 -> 52:54:00:b1:98:3f

UDP: 10.1.1.2 -> 10.1.1.1

tos 0x00, ttl 253, length 134, checksum 0xa762 dscp CS0 ecn NON\_ECN

fragment id 0x0000

UDP: 7183 -> 4789

length 114, checksum 0x0000

Packet 5

00:29:00:072803: dpdk-input

GigabitEthernet0/a/0 rx queue 0

buffer 0x9f134: current data 0, length 52, buffer-pool 0, ref-count 1, totlen-nifb 0, trace handle 0x2000004

ext-hdr-valid

l4-cksum-computed l4-cksum-correct

PKT MBUF: port 1, nb\_segs 1, pkt\_len 52

buf\_len 2176, data\_len 52, ol\_flags 0x0, data\_off 128, phys\_addr 0xa7bc4d80

packet\_type 0x0 l2\_len 0 l3\_len 0 outer\_l2\_len 0 outer\_l3\_len 0

rss 0x0 fdir.hi 0x0 fdir.lo 0x0

0x0026: fe:54:00:89:c3:8b -> 01:80:c2:00:00:00

00:29:00:072824: ethernet-input

frame: flags 0x1, hw-if-index 2, sw-if-index 2

0x0026: fe:54:00:89:c3:8b -> 01:80:c2:00:00:00

00:29:00:072835: llc-input

LLC bpdu -> bpdu

00:29:00:072839: error-drop

rx:GigabitEthernet0/a/0

00:29:00:072843: drop

llc-input: unknown llc ssap/dsap

Packet 6

00:29:02:088854: dpdk-input

GigabitEthernet0/a/0 rx queue 0

buffer 0x9e79b: current data 0, length 52, buffer-pool 0, ref-count 1, totlen-nifb 0, trace handle 0x2000005

ext-hdr-valid

l4-cksum-computed l4-cksum-correct

PKT MBUF: port 1, nb\_segs 1, pkt\_len 52

buf\_len 2176, data\_len 52, ol\_flags 0x0, data\_off 128, phys\_addr 0xa7b9e740

packet\_type 0x0 l2\_len 0 l3\_len 0 outer\_l2\_len 0 outer\_l3\_len 0

rss 0x0 fdir.hi 0x0 fdir.lo 0x0

0x0026: fe:54:00:89:c3:8b -> 01:80:c2:00:00:00

00:29:02:088872: ethernet-input

frame: flags 0x1, hw-if-index 2, sw-if-index 2

0x0026: fe:54:00:89:c3:8b -> 01:80:c2:00:00:00

00:29:02:088884: llc-input

LLC bpdu -> bpdu

00:29:02:088887: error-drop

rx:GigabitEthernet0/a/0

00:29:02:088892: drop

llc-input: unknown llc ssap/dsap

Packet 7

00:29:04:072879: dpdk-input

GigabitEthernet0/a/0 rx queue 0

buffer 0x9e7c2: current data 0, length 52, buffer-pool 0, ref-count 1, totlen-nifb 0, trace handle 0x2000006

ext-hdr-valid

l4-cksum-computed l4-cksum-correct

PKT MBUF: port 1, nb\_segs 1, pkt\_len 52

buf\_len 2176, data\_len 52, ol\_flags 0x0, data\_off 128, phys\_addr 0xa7b9f100

packet\_type 0x0 l2\_len 0 l3\_len 0 outer\_l2\_len 0 outer\_l3\_len 0

rss 0x0 fdir.hi 0x0 fdir.lo 0x0

0x0026: fe:54:00:89:c3:8b -> 01:80:c2:00:00:00

00:29:04:072899: ethernet-input

frame: flags 0x1, hw-if-index 2, sw-if-index 2

0x0026: fe:54:00:89:c3:8b -> 01:80:c2:00:00:00

00:29:04:072918: llc-input

LLC bpdu -> bpdu

00:29:04:072921: error-drop

rx:GigabitEthernet0/a/0

00:29:04:072925: drop

llc-input: unknown llc ssap/dsap

Packet 8

00:29:06:092920: dpdk-input

GigabitEthernet0/a/0 rx queue 0

buffer 0x9e7e9: current data 0, length 52, buffer-pool 0, ref-count 1, totlen-nifb 0, trace handle 0x2000007

ext-hdr-valid

l4-cksum-computed l4-cksum-correct

PKT MBUF: port 1, nb\_segs 1, pkt\_len 52

buf\_len 2176, data\_len 52, ol\_flags 0x0, data\_off 128, phys\_addr 0xa7b9fac0

packet\_type 0x0 l2\_len 0 l3\_len 0 outer\_l2\_len 0 outer\_l3\_len 0

rss 0x0 fdir.hi 0x0 fdir.lo 0x0

0x0026: fe:54:00:89:c3:8b -> 01:80:c2:00:00:00

00:29:06:092939: ethernet-input

frame: flags 0x1, hw-if-index 2, sw-if-index 2

0x0026: fe:54:00:89:c3:8b -> 01:80:c2:00:00:00

00:29:06:092950: llc-input

LLC bpdu -> bpdu

00:29:06:092953: error-drop

rx:GigabitEthernet0/a/0

00:29:06:092957: drop

llc-input: unknown llc ssap/dsap

Packet 9

00:29:08:072898: dpdk-input

GigabitEthernet0/a/0 rx queue 0

buffer 0x9e810: current data 0, length 52, buffer-pool 0, ref-count 1, totlen-nifb 0, trace handle 0x2000008

ext-hdr-valid

l4-cksum-computed l4-cksum-correct

PKT MBUF: port 1, nb\_segs 1, pkt\_len 52

buf\_len 2176, data\_len 52, ol\_flags 0x0, data\_off 128, phys\_addr 0xa7ba0480

packet\_type 0x0 l2\_len 0 l3\_len 0 outer\_l2\_len 0 outer\_l3\_len 0

rss 0x0 fdir.hi 0x0 fdir.lo 0x0

0x0026: fe:54:00:89:c3:8b -> 01:80:c2:00:00:00

00:29:08:072917: ethernet-input

frame: flags 0x1, hw-if-index 2, sw-if-index 2

0x0026: fe:54:00:89:c3:8b -> 01:80:c2:00:00:00

00:29:08:072928: llc-input

LLC bpdu -> bpdu

00:29:08:072932: error-drop

rx:GigabitEthernet0/a/0

00:29:08:072936: drop

llc-input: unknown llc ssap/dsap

## 抓包：

