

```

R1
R2 <
R3
R1 and R3 are 2-way ECMP'd with R2 each sending same 500k routes.
Keep P2P as default (1000)
At 0sec, shut R1 interface
At 8sec, unshut R1 interface
At 16sec, shut R2 interface
At 24sec, unshut R2 interface
At 32sec, shut both interfaces and set P2P as 2000
At 40sec, unshut both interfaces
At 48sec, shut R1 interface
At 54sec, unshut R1 interface
At 60sec, shut R1 interface
At 68sec, unshut R2 interface
At 72sec, shut both interfaces and set P2P as 500
At 80sec, unshut both interfaces
At 88sec, shut R1 interface
At 96sec, unshut R1 interface
At 104sec, shut R1 interface
At 112sec, unshut R2 interface
At 120sec, shut both the interfaces and unconfigure P2P
At 128sec, unshut both the interfaces

```

Enabled FPM as well to keep zebra do twice the amount of work (kernel and FPM)

Observation:

- In baseline, with 500K routes from R1 and R3 initially, we see 393K streams taking 42MB in zebra which after the above trigger shoots upto 656K streams with 51MB
- With the fix, with 500K routes from R1 and R3 initially, we see 1263 streams taking 2.2MB in zebra which after the above trigger it becomes 2510 streams with 2.2MB.

BASELINE

Initial state with 500K routes (2way ECMP):

```

root@r2:~# ip route show | wc -l
1500004

```

```

root@r2:~# vtysh -c "sh ip bgp sum"
IPv4 Unicast Summary:
BGP router identifier 192.168.7.2, local AS number 65002 VRF default vrf-id 0
BGP table version 2000006
RIB entries 1000003, using 92 MiB of memory
Peers 2, using 40 KiB of memory

```

Neighbor	V	AS	MsgRcvd	MsgSent	TblVer	InQ	OutQ	Up/Down
State/PfxRcd	PfxSnt	Desc						
192.168.1.1	4	65001	321	314	2000006	0	0	00:05:23
500000	500002	N/A						
192.168.2.3	4	65003	242	217	2000006	0	0	00:00:31
500002	500002	N/A						

Total number of neighbors 2

```

root@r2:~# vtysh -c "sh memory zebra"

```

System allocator statistics:

Total heap allocated: 382 MiB
 Holding block headers: 9224 KiB
 Used small blocks: 0 bytes
 Used ordinary blocks: 253 MiB
 Free small blocks: 42 MiB
 Free ordinary blocks: 129 MiB
 Ordinary blocks: 508030
 Small blocks: 393399
 Holding blocks: 2

(see system documentation for 'mallinfo' for meaning)

--- qmem libfrr ---

Type	Current#	Size	Total	Max#	MaxBytes
Buffer	9	24	216	9	232
Buffer data	1	4120	4120	3	12360
Host config	6	variable	400	6	400
Command Tokens	3536	72	254608	3539	254824
Command Token Text	2443	variable	77144	2445	77216
Command Token Help	2443	variable	58680	2445	58728
Command Argument	2	variable	48	5	120
Command Argument Name	702	variable	16848	704	16896
Lexer token (temporary)	0	variable	0	2	64
RCU thread	8	136	1088	8	1088
RCU sequence barrier	1	32	40	2	80
FRR POSIX Thread	16	variable	1408	16	1408
POSIX sync primitives	16	48	944	16	944
Graph	29	8	712	30	752
Graph Node	4115	32	164888	4119	165048
Hash	124	variable	6336	124	6336
Hash Bucket	775	24	18680	779	18776
Hash Index	62	variable	23184	63	23256
Interface	4	280	1120	4	1120
Connected	6	64	432	6	432
Link List	52	40	2160	55	2280
Link Node	111	24	2760	325850	7820896
Temporary memory	4	variable	96	12	24832
Bitfield memory	1	2052	2056	1	2056
backend client	1	480	488	1	488
backend client name	1	6	24	1	24
backend transaction batch data:	0	332832	0	1	335856
backend transaction data	0	104	0	1	104
Module loading name	1	14	24	1	24
Module loading error	0	170	0	1	184
Nexthop	13	152	1992	376794	57272800
NetNS Context	2	variable	128	2	128
NetNS Name	1	18	24	1	24
Nexthop Group	0	32	0	1	56
Northbound Node	781	1208	943448	781	943448
Northbound Configuration	2	16	48	2	48
Northbound Configuration Entry:	6	1032	6192	6	6192
Prefix	6	56	336	6	336
Privilege information	4	variable	160	4	160
Stream	13	variable	1522544	393340	42428504
Stream FIFO	11	72	792	13	936
Route table	15	56	888	15	888
Route node	1000036	variable	120004944	1000036	120004944
Thread	42	168	7056	42	7056
Thread master	36	variable	2363040	36	2363040
Thread Poll Info	18	131072	2359440	18	2359440

```

Thread stats          :      53   112      6392      53   6392
Typed-hash bucket    :      21 variable 8393984      21 8393984
Typed-heap array     :      0    576      0      2    1168
Vector               :     8291    24    199448    8298 199616
Vector index         :     8291 variable 266504    8298 266768
VRF                  :      1    216     216      1    216
VRF bit-map          :      4     8     96      4     96
VTY                  :      4 variable 61216      4   61216
VTY server           :      3    32     120      3    120
Work queue           :      3 variable 408        3    408
Work queue item      :      0    24      0      1    24
Work queue name string :      2 variable 48         2    48
YANG module          :      8    48     464      8    464
YANG data structure  :      0  1032      0      1   1032
log thread-local buffer :      9 25120   226152    9 226152
--- qmem Native message allocations ---
Type                  : Current#   Size      Total      Max#   MaxBytes
--- qmem logging subsystem ---
Type                  : Current#   Size      Total      Max#   MaxBytes
log file target      :      1     88      88        2    176
log file name        :      2     85     176        2    176
--- qmem Label Manager ---
Type                  : Current#   Size      Total      Max#   MaxBytes
--- qmem Table Manager ---
Type                  : Current#   Size      Total      Max#   MaxBytes
Table Manager Context :      1     16      40        1     40
--- qmem SRv6 Manager ---
Type                  : Current#   Size      Total      Max#   MaxBytes
--- qmem zebra ---
Type                  : Current#   Size      Total      Max#   MaxBytes
Zebra Interface Information :      4    608    2464      4    2464
Zebra Netlink buffers   :      6 variable 305200    6 305200
Zebra DPlane Ctx       :      0   1128      0 188390 212503920
Zebra DPlane Provider  :      2    256     528      2    528
DPlane NSes            :      1     48     56      1     56
Nexthop Group Entry    :     12    144    1856   46464 7062560
Nexthop Group Connected :     12     40     496     16    656
Zebra Name Space       :      1   584     584      1    584
PTM BFD process reg table :      1     32     40      1     40
Route Entry            :     500022 152 76003472 719994 109439296
RIB destination        :     500019 88 44002568 500019 44002568
WQ wrapper             :      0    120      0   46454 5574480
RIB table info         :      4     24     96      4     96
Zebra VRF table        :      4     56    224      4    224
Nexthop tracking object :      2    256     528      2    528
ZEBRA VRF              :      1  5328   5336      1   5336
MH global info         :      1    128    136      1    136
Zebra neigh table      :      1     8     24      1     24
Zebra neigh entry      :      2     80    176      2    176
ZClients               :      5  3808  19080      5  19080

```

After Trigger:

```

root@r2:~# ip route show | wc -l
1500004

```

```
root@r2:~# vtysh -c "sh ip bgp sum"
```

```
IPv4 Unicast Summary:
```

```
BGP router identifier 192.168.7.2, local AS number 65002 VRF default vrf-id 0
```

```
BGP table version 12126190
```

```
RIB entries 1000003, using 92 MiB of memory
```

```
Peers 2, using 40 KiB of memory
```

Neighbor	V	AS	MsgRcvd	MsgSent	TblVer	InQ	OutQ	Up/Down
State/PfxRcd	PfxSnt	Desc						
192.168.1.1	4	65001	660	796	12126190	0	0	00:00:43
500000	500002	N/A						
192.168.2.3	4	65003	581	642	12126190	0	0	00:00:43
500002	500002	N/A						

```
Total number of neighbors 2
```

```
root@r2:~# vtysh -c "sh memory zebra"
```

```
System allocator statistics:
```

```
Total heap allocated: 934 MiB
```

```
Holding block headers: 9224 KiB
```

```
Used small blocks: 0 bytes
```

```
Used ordinary blocks: 254 MiB
```

```
Free small blocks: 41 MiB
```

```
Free ordinary blocks: 681 MiB
```

```
Ordinary blocks: 766976
```

```
Small blocks: 385126
```

```
Holding blocks: 2
```

```
(see system documentation for 'mallinfo' for meaning)
```

```
--- qmem libfrr ---
```

Type	:	Current#	Size	Total	Max#	MaxBytes
Buffer	:	9	24	216	9	232
Buffer data	:	1	4120	4120	3	12360
Host config	:	6	variable	400	6	400
Command Tokens	:	3536	72	254608	3539	254824
Command Token Text	:	2443	variable	77144	2445	77216
Command Token Help	:	2443	variable	58680	2445	58728
Command Argument	:	2	variable	48	5	120
Command Argument Name	:	702	variable	16848	704	16896
Lexer token (temporary)	:	0	variable	0	2	64
RCU thread	:	8	136	1088	8	1088
RCU sequence barrier	:	1	32	40	2	80
FRR POSIX Thread	:	16	variable	1408	16	1408
POSIX sync primitives	:	16	48	944	16	944
Graph	:	29	8	712	30	752
Graph Node	:	4115	32	164888	4119	165048
Hash	:	124	variable	6336	124	6336
Hash Bucket	:	775	24	18680	779	18776
Hash Index	:	62	variable	23184	63	23256
Interface	:	4	280	1120	4	1120
Connected	:	6	64	432	6	432
Link List	:	52	40	2160	56	2320
Link Node	:	111	24	2760	559189	13431080
Temporary memory	:	4	variable	96	12	24832
Bitfield memory	:	1	2052	2056	1	2056
backend client	:	1	480	488	1	488
backend client name	:	1	6	24	1	24
backend transaction batch data:	:	0	332832	0	1	335856
backend transaction data	:	0	104	0	1	104

Module loading name	:	1	14	24	1	24
Module loading error	:	0	170	0	1	184
Nexthop	:	13	152	1992	1106920	168339744
NetNS Context	:	2	variable	128	2	128
NetNS Name	:	1	18	24	1	24
Nexthop Group	:	0	32	0	1	56
Northbound Node	:	781	1208	943448	781	943448
Northbound Configuration	:	2	16	48	2	48
Northbound Configuration Entry:	:	6	1032	6192	6	6192
Prefix	:	6	56	336	6	336
Privilege information	:	4	variable	160	4	160
Stream	:	13	variable	1522544	656049	51283616
Stream FIFO	:	11	72	792	13	936
Route table	:	15	56	888	15	888
Route node	:	1000036	variable	120245840	1000036	120245840
Thread	:	42	168	7056	42	7056
Thread master	:	36	variable	2363040	36	2363040
Thread Poll Info	:	18	131072	2359440	18	2359440
Thread stats	:	53	112	6392	53	6392
Typed-hash bucket	:	21	variable	8393984	21	8393984
Typed-heap array	:	0	576	0	2	1168
Vector	:	8291	24	199448	8298	199616
Vector index	:	8291	variable	266504	8298	266768
VRF	:	1	216	216	1	216
VRF bit-map	:	4	8	96	4	96
VTY	:	4	variable	61216	4	61216
VTY server	:	3	32	120	3	120
Work queue	:	3	variable	408	3	408
Work queue item	:	0	24	0	1	24
Work queue name string	:	2	variable	48	2	48
YANG module	:	8	48	464	8	464
YANG data structure	:	0	1032	0	1	1032
log thread-local buffer	:	9	25120	226152	9	226152
--- qmem Native message allocations ---						
Type	:	Current#	Size	Total	Max#	MaxBytes
--- qmem logging subsystem ---						
Type	:	Current#	Size	Total	Max#	MaxBytes
log file target	:	1	88	88	2	176
log file name	:	2	85	176	2	176
--- qmem Label Manager ---						
Type	:	Current#	Size	Total	Max#	MaxBytes
--- qmem Table Manager ---						
Type	:	Current#	Size	Total	Max#	MaxBytes
Table Manager Context	:	1	16	40	1	40
--- qmem SRv6 Manager ---						
Type	:	Current#	Size	Total	Max#	MaxBytes
--- qmem zebra ---						
Type	:	Current#	Size	Total	Max#	MaxBytes
Zebra Interface Information	:	4	608	2464	4	2464
Zebra Netlink buffers	:	6	variable	305200	6	305200
Zebra DPlane Ctx	:	0	1128	0	606904	684654784
Zebra DPlane Provider	:	2	256	528	2	528
DPlane NSes	:	1	48	56	1	56
Nexthop Group Entry	:	12	144	1856	260295	39570024
Nexthop Group Connected	:	12	40	496	16	656
Zebra Name Space	:	1	584	584	1	584
PTM BFD process reg table	:	1	32	40	1	40
Route Entry	:	500022	152	76053104	986661	150019736
RIB destination	:	500019	88	44340632	500019	44483000

```

WQ wrapper           :           0    120           0    260283    31296264
RIB table info       :           4     24           96         4         96
Zebra VRF table      :           4     56          224         4         224
Nexthop tracking object :         2    256          528         2         528
ZEBRA VRF            :           1   5328         5336         1         5336
MH global info       :           1    128          136         1         136
Zebra neigh table    :           1         8           24         1         24
Zebra neigh entry    :           2        80          176         2         176
ZClients             :           5   3808        19080         5        19080

```

With code changes

Initial State with 500K routes(2-way ECMP):

```

root@r2:~# ip route show | wc -l
1500004

```

```

root@r2:~# vtysh -c "sh ip bgp sum"
IPv4 Unicast Summary:
BGP router identifier 192.168.7.2, local AS number 65002 VRF default vrf-id 0
BGP table version 2000006
RIB entries 1000003, using 92 MiB of memory
Peers 2, using 40 KiB of memory

```

Neighbor	V	AS	MsgRcvd	MsgSent	TblVer	InQ	OutQ	Up/Down
State/PfxRcd	PfxSnt	Desc						
192.168.1.1	4	65001	278	276	2000006	0	0	00:03:33
500000	500002	N/A						
192.168.2.3	4	65003	211	183	2000006	0	0	00:00:20
500002	500002	N/A						

Total number of neighbors 2

```

root@r2:~# vtysh -c "sh mem zebra"
System allocator statistics:
  Total heap allocated: 419 MiB
  Holding block headers: 9224 KiB
  Used small blocks: 0 bytes
  Used ordinary blocks: 253 MiB
  Free small blocks: 132 KiB
  Free ordinary blocks: 166 MiB
  Ordinary blocks: 556308
  Small blocks: 1259
  Holding blocks: 2
(see system documentation for 'mallinfo' for meaning)

```

--- qmem libfrr ---

Type	Current#	Size	Total	Max#	MaxBytes
Buffer	9	24	216	9	216
Buffer data	1	4120	4120	2	8240
Host config	6	variable	400	6	400
Command Tokens	3536	72	254608	3539	254824
Command Token Text	2443	variable	77144	2445	77216
Command Token Help	2443	variable	58680	2445	58728
Command Argument	2	variable	48	5	120
Command Argument Name	702	variable	16848	704	16896
Lexer token (temporary)	0	variable	0	2	64

RCU thread	:	8	136	1104	8	1104
RCU sequence barrier	:	1	32	40	2	80
FRR POSIX Thread	:	16	variable	1408	16	1408
POSIX sync primitives	:	16	48	976	16	976
Graph	:	29	8	712	30	752
Graph Node	:	4115	32	164888	4119	165048
Hash	:	124	variable	6336	124	6336
Hash Bucket	:	775	24	18648	779	18744
Hash Index	:	62	variable	23216	63	23288
Interface	:	4	280	1120	4	1120
Connected	:	6	64	432	6	432
Link List	:	52	40	2112	55	2232
Link Node	:	111	24	2776	247173	5939240
Temporary memory	:	4	variable	96	12	24832
Bitfield memory	:	1	2052	2056	1	2056
backend client	:	1	480	488	1	488
backend client name	:	1	6	24	1	24
backend transaction batch data:	:	0	332832	0	1	335856
backend transaction data	:	0	104	0	1	104
Module loading name	:	1	14	24	1	24
Module loading error	:	0	170	0	1	184
Nexthop	:	13	152	1992	378575	57543512
NetNS Context	:	2	variable	128	2	128
NetNS Name	:	1	18	24	1	24
Nexthop Group	:	0	32	0	1	40
Northbound Node	:	781	1208	943448	781	943448
Northbound Configuration	:	2	16	48	2	48
Northbound Configuration Entry:	:	6	1032	6192	6	6192
Prefix	:	6	56	336	6	336
Privilege information	:	4	variable	160	4	160
Stream	:	13	variable	1522544	1263	2215016
Stream FIFO	:	11	72	792	13	936
Route table	:	15	56	856	15	856
Route node	:	1000036	variable	120005120	1000036	120005184
Thread	:	43	168	7240	43	7240
Thread master	:	36	variable	2363040	36	2363040
Thread Poll Info	:	18	131072	2359440	18	2359440
Thread stats	:	53	112	6408	53	6408
Typed-hash bucket	:	21	variable	8393968	21	8393968
Typed-heap array	:	0	576	0	2	1168
Vector	:	8291	24	199448	8298	199616
Vector index	:	8291	variable	266504	8298	266768
VRF	:	1	216	216	1	216
VRF bit-map	:	4	8	96	4	96
VTY	:	4	variable	61216	4	61216
VTY server	:	3	32	120	3	120
Work queue	:	3	variable	408	3	408
Work queue item	:	0	24	0	1	24
Work queue name string	:	2	variable	48	2	48
YANG module	:	8	48	464	8	464
YANG data structure	:	0	1032	0	1	1032
log thread-local buffer	:	9	25120	226152	9	226152
--- qmem Native message allocations ---						
Type	:	Current#	Size	Total	Max#	MaxBytes
--- qmem logging subsystem ---						
Type	:	Current#	Size	Total	Max#	MaxBytes
log file target	:	1	88	88	2	176
log file name	:	2	85	176	2	176
--- qmem Label Manager ---						

Type	Current#	Size	Total	Max#	MaxBytes
--- qmem Table Manager ---					
Type	Current#	Size	Total	Max#	MaxBytes
Table Manager Context	1	16	40	1	40
--- qmem SRv6 Manager ---					
Type	Current#	Size	Total	Max#	MaxBytes
--- qmem zebra ---					
Type	Current#	Size	Total	Max#	MaxBytes
Zebra Interface Information	4	608	2464	4	2464
Zebra Netlink buffers	6	variable	305200	6	305200
Zebra DPlane Ctx	0	1128	0	189281	213508968
Zebra DPlane Provider	2	256	528	2	528
DPlane NSes	1	48	56	1	56
Nexthop Group Entry	12	144	1856	35638	5417008
Nexthop Group Connected	12	40	512	16	672
Zebra Name Space	1	584	584	1	584
PTM BFD process reg table	1	32	40	1	40
Route Entry	500022	152	76003424	633028	96220400
RIB destination	500019	88	44002584	500019	44002712
WQ wrapper	0	120	0	35628	4275360
RIB table info	4	24	96	4	96
Zebra VRF table	4	56	224	4	224
Nexthop tracking object	2	256	528	2	528
ZEBRA VRF	1	5328	5336	1	5336
MH global info	1	128	136	1	136
Zebra neigh table	1	8	24	1	24
Zebra neigh entry	2	80	208	2	208
ZClients	5	3808	19080	5	19080

After Trigger:

```
root@r2:~# ip route show | wc -l
1500004
```

```
root@r2:~# vtysh -c "sh ip bgp sum"
IPv4 Unicast Summary:
BGP router identifier 192.168.7.2, local AS number 65002 VRF default vrf-id 0
BGP table version 12626190
RIB entries 1000003, using 92 MiB of memory
Peers 2, using 40 KiB of memory
```

Neighbor	V	AS	MsgRcvd	MsgSent	TblVer	InQ	OutQ	Up/Down
State/PfxRcd	PfxSnt	Desc						
192.168.1.1	4	65001	781	925	12626190	0	0	00:01:06
500000	500002	N/A						
192.168.2.3	4	65003	716	838	12626190	0	0	00:01:05
500002	500002	N/A						

Total number of neighbors 2

```
root@r2:~# vtysh -c "sh mem zebra"
System allocator statistics:
  Total heap allocated: 828 MiB
  Holding block headers: 9224 KiB
```



```

Used small blocks:    0 bytes
Used ordinary blocks: 253 MiB
Free small blocks:    232 KiB
Free ordinary blocks: 575 MiB
Ordinary blocks:     687570
Small blocks:        2313
Holding blocks:      2

```

(see system documentation for 'mallinfo' for meaning)

--- qmem libfrr ---

Type	Current#	Size	Total	Max#	MaxBytes
Buffer	9	24	216	9	216
Buffer data	1	4120	4120	2	8240
Host config	6	variable	400	6	400
Command Tokens	3536	72	254608	3539	254824
Command Token Text	2443	variable	77144	2445	77216
Command Token Help	2443	variable	58680	2445	58728
Command Argument	2	variable	48	5	120
Command Argument Name	702	variable	16848	704	16896
Lexer token (temporary)	0	variable	0	2	64
RCU thread	8	136	1104	8	1104
RCU sequence barrier	1	32	40	2	80
FRR POSIX Thread	16	variable	1408	16	1408
POSIX sync primitives	16	48	976	16	976
Graph	29	8	712	30	752
Graph Node	4115	32	164888	4119	165048
Hash	124	variable	6336	124	6336
Hash Bucket	775	24	18648	779	18808
Hash Index	62	variable	23216	63	23288
Interface	4	280	1120	4	1120
Connected	6	64	432	6	432
Link List	52	40	2112	57	2312
Link Node	111	24	2776	518077	12502712
Temporary memory	4	variable	96	12	24832
Bitfield memory	1	2052	2056	1	2056
backend client	1	480	488	1	488
backend client name	1	6	24	1	24
backend transaction batch data:	0	332832	0	1	335856
backend transaction data	0	104	0	1	104
Module loading name	1	14	24	1	24
Module loading error	0	170	0	1	184
Nexthop	13	152	1992	1045072	158878768
NetNS Context	2	variable	128	2	128
NetNS Name	1	18	24	1	24
Nexthop Group	0	32	0	1	56
Northbound Node	781	1208	943448	781	943448
Northbound Configuration	2	16	48	2	48
Northbound Configuration Entry:	6	1032	6192	6	6192
Prefix	6	56	336	6	336
Privilege information	4	variable	160	4	160
Stream	13	variable	1522544	2510	2215016
Stream FIFO	11	72	792	13	936
Route table	15	56	856	15	856
Route node	1000036	variable	120109824	1000036	120125072
Thread	43	168	7240	43	7240
Thread master	36	variable	2363040	36	2363040
Thread Poll Info	18	131072	2359440	18	2359440
Thread stats	53	112	6408	53	6408
Typed-hash bucket	21	variable	8393968	21	8393968
Typed-heap array	0	576	0	2	1168

Vector	:	8291	24	199448	8298	199616
Vector index	:	8291	variable	266504	8298	266768
VRF	:	1	216	216	1	216
VRF bit-map	:	4	8	96	4	96
VTY	:	4	variable	61216	4	61216
VTY server	:	3	32	120	3	120
Work queue	:	3	variable	408	3	408
Work queue item	:	0	24	0	1	24
Work queue name string	:	2	variable	48	2	48
YANG module	:	8	48	464	8	464
YANG data structure	:	0	1032	0	1	1032
log thread-local buffer	:	9	25120	226152	9	226152
--- qmem Native message allocations ---						
Type	:	Current#	Size	Total	Max#	MaxBytes
--- qmem logging subsystem ---						
Type	:	Current#	Size	Total	Max#	MaxBytes
log file target	:	1	88	88	2	176
log file name	:	2	85	176	2	176
--- qmem Label Manager ---						
Type	:	Current#	Size	Total	Max#	MaxBytes
--- qmem Table Manager ---						
Type	:	Current#	Size	Total	Max#	MaxBytes
Table Manager Context	:	1	16	40	1	40
--- qmem SRv6 Manager ---						
Type	:	Current#	Size	Total	Max#	MaxBytes
--- qmem zebra ---						
Type	:	Current#	Size	Total	Max#	MaxBytes
Zebra Interface Information	:	4	608	2464	4	2464
Zebra Netlink buffers	:	6	variable	305200	6	305200
Zebra DPlane Ctx	:	0	1128	0	545057	614832232
Zebra DPlane Provider	:	2	256	528	2	528
DPlane NSes	:	1	48	56	1	56
Nexthop Group Entry	:	12	144	1856	142173	21612744
Nexthop Group Connected	:	12	40	512	16	672
Zebra Name Space	:	1	584	584	1	584
PTM BFD process reg table	:	1	32	40	1	40
Route Entry	:	500022	152	76029440	878829	133621592
RIB destination	:	500019	88	44192936	500019	44210776
WQ wrapper	:	0	120	0	269249	32372872
RIB table info	:	4	24	96	4	96
Zebra VRF table	:	4	56	224	4	224
Nexthop tracking object	:	2	256	528	2	528
ZEBRA VRF	:	1	5328	5336	1	5336
MH global info	:	1	128	136	1	136
Zebra neigh table	:	1	8	24	1	24
Zebra neigh entry	:	2	80	208	2	208
ZClients	:	5	3808	19080	5	19080

Debugs:

```

lected/r2$ sudo grep "Setting the" zebra.log
2024/03/06 07:11:25.726724 ZEBRA: [XY049-YZD1T] Setting the Zapi packet to process
to 2000
2024/03/06 07:12:31.109049 ZEBRA: [XY049-YZD1T] Setting the Zapi packet to process
to 500
2024/03/06 07:13:33.851374 ZEBRA: [VGQA4-9R5EZ] Setting the Zapi packet to process
to default value of 1000

```

2024/03/06 08:41:31.377950 ZEBRA: [JPQM1-M5JP3] Read 350 packets from client: bgp.
Current ibuf fifo count: 700. Conf P2p 700
2024/03/06 08:41:31.380330 ZEBRA: [JPQM1-M5JP3] Read 350 packets from client: bgp.
Current ibuf fifo count: 700. Conf P2p 700
2024/03/06 08:41:31.382570 ZEBRA: [JPQM1-M5JP3] Read 350 packets from client: bgp.
Current ibuf fifo count: 700. Conf P2p 700
2024/03/06 08:41:31.385654 ZEBRA: [JPQM1-M5JP3] Read 175 packets from client: bgp.
Current ibuf fifo count: 700. Conf P2p 700
2024/03/06 08:41:31.394102 ZEBRA: [M7Q4P-46WDR] vty[59]@(config)# zebra zapi-
packets 1200
2024/03/06 08:41:31.394170 ZEBRA: [XY049-YZD1T] Setting the Zapi packet to process
to 1200
2024/03/06 08:41:31.394927 ZEBRA: [JPQM1-M5JP3] Read 500 packets from client: bgp.
Current ibuf fifo count: 900. Conf P2p 1200
2024/03/06 08:41:31.395345 ZEBRA: [JPQM1-M5JP3] Read 300 packets from client: bgp.
Current ibuf fifo count: 1200. Conf P2p 1200
2024/03/06 08:41:31.401510 ZEBRA: [JPQM1-M5JP3] Read 600 packets from client: bgp.
Current ibuf fifo count: 1200. Conf P2p 1200