RIPE

World IPv6 Tour

Meta (Facebook) IPv6 Updates

RIPE

David Miles, 25 October 2022
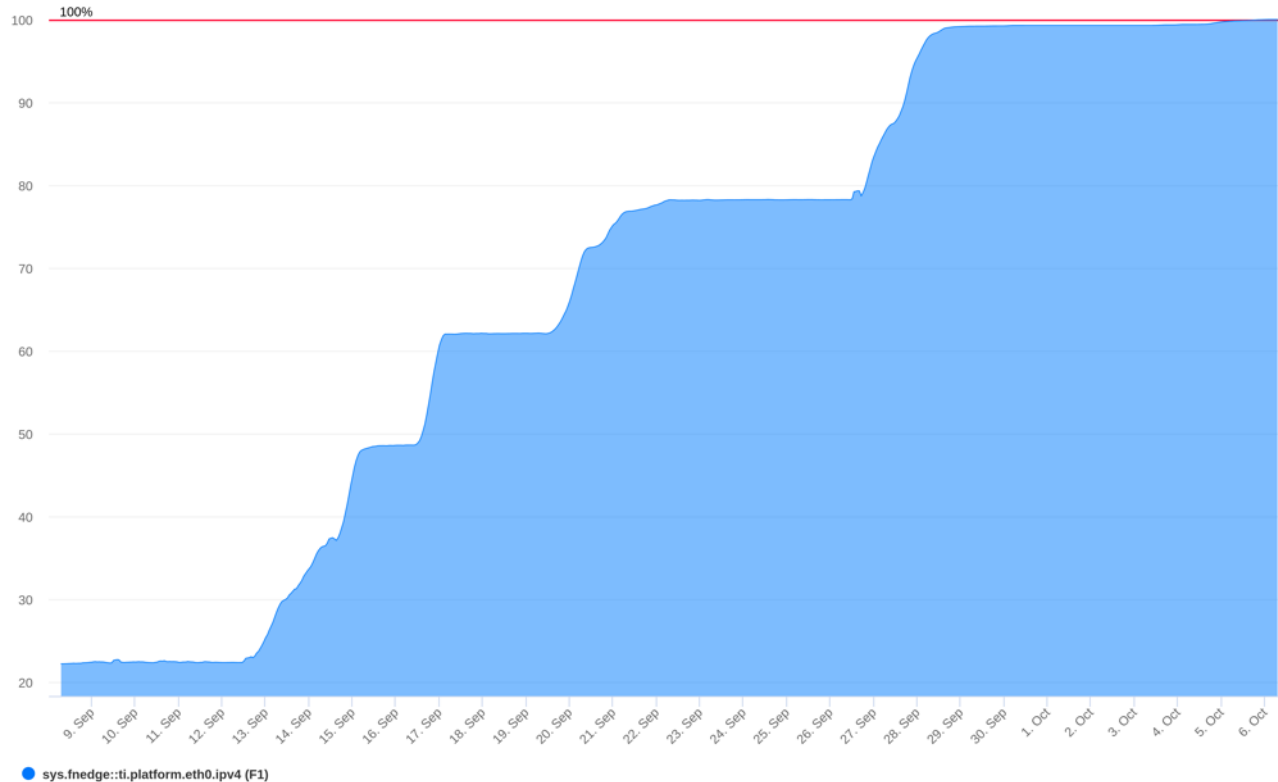
IPv6 by Default

100% of
Edge hosts

IPv6-only

● sys.fnedge::ti.platform.eth0.ipv4 (F1)

IPv6 by Default in Edge POPs


```
B E    123.1.1.1/32 [200/0]
        via 2404:db99:1234:1234:face:0:1:0, Vlan1
```

# SIIT-DC RFC 7755

```
    IPv6-capable user         IPv4-only user
    <2001:db8::ab:cd>         <203.0.113.50>
          |                         |
    (the IPv6 Internet)      (the IPv4 Internet)
          |                         |
          |    +-[BR]---------<192.0.2.0/24>--------------+
          |    |                                          |
          |    |  EAM #1:         192.0.2.1,2001:db8:12:34::1  |
          |    |  EAM #2..#n:  [...]                       |
          |    |  XLAT Prefix: 2001:db8:46::/96            |
          |    |                                          |
          |    +------------<2001:db8:46::/96>------------+
          |                         |
       (the IPv6-only data center network)
                    |
    +--<2001:db8:12:34::1>--[v6-only server]-+
    |       |                                |
    |  +-[2001:db8:12:34::1]--[v6-only app]-+ |
    |  |     AF_INET6 socket               | |
    |  +-----------------------------------+ |
    +----------------------------------------+
```

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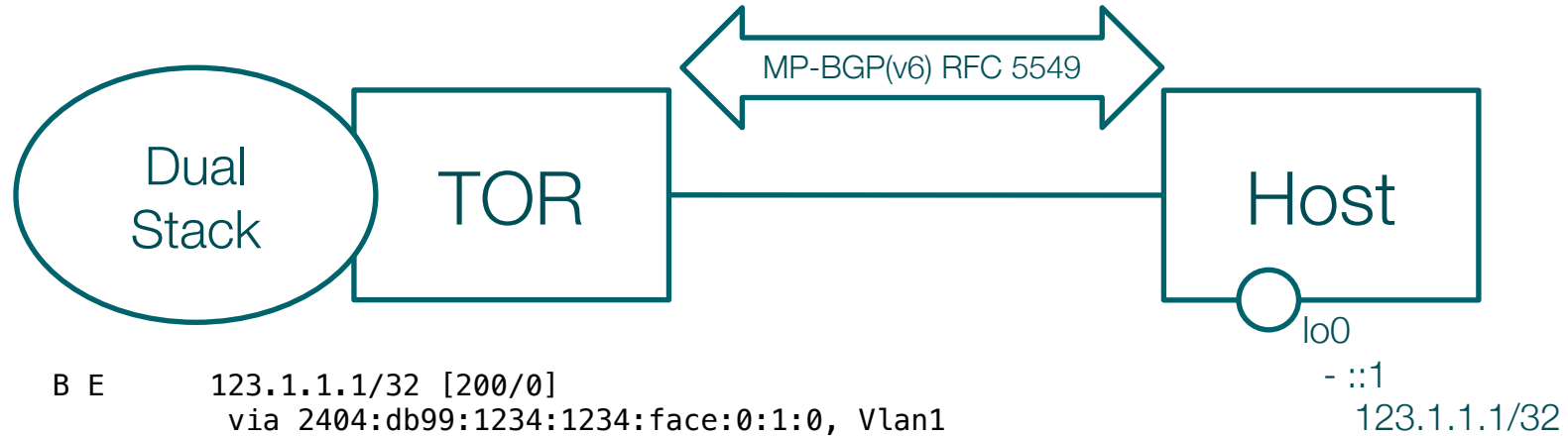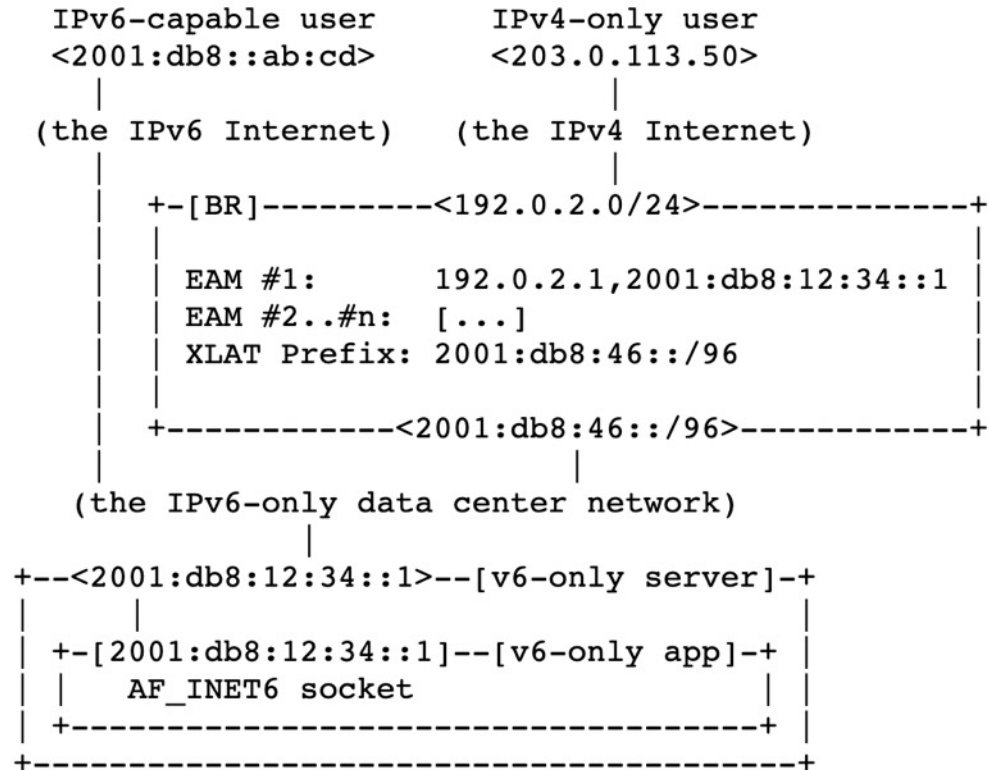
Other IPv6 Milestones

- Meta's container networking – built on IPv6 per task/container

- IPv6-by-default for the management plane

- Development & network engineering workstations IPv6-only by default

- New network-attached equipment vendors required to support v6-only deployments

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