

Probing IP Interfaces By Virtual Function Index

Draft-nayak-intarea-probe-by-vfi

Manoj Nayak, Rafik Puttur, Ron Bonica

Juniper Networks

IETF 104

An Extension To Probe (RFC 8335)

- Probe sends an ICMP Extended Echo Request to a proxy interface that resides on a proxy node
 - The ICMP message identifies a probed interface
 - The probed interface can reside on the proxy node or on a node that is directly connected to the proxy node
- The proxy node returns an ICMP Extended Echo Response
 - The ICMP Extended Echo response reflects the status of the probed interface
- Probe is useful when the probed interface is unnumbered or otherwise unreachable

ICMP Extended Echo Request

- Currently identifies probed interface by:
 - Name
 - Address
 - IfIndex
- This draft adds capability to identify the probed interface by Virtual Function Index
 - This is just a different kind of index
 - Single Root I/O Virtualization and Sharing environments

Next Steps

- Not much to see here
- Draft is only 5 pages long
- Please issue call for adoption to stimulate review