Probing IP Interfaces By Virtual Function Index

Draft-nayak-intarea-probe-by-vfi
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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