BFD for VXLAN

draft-ietf-bfd-vxlan

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Status

• The document describes use of Bidirectional Forwarding Detection (BFD) protocol in Asynchronous mode over VXLAN tunnel to enable continuity monitoring between Network Virtualization Edges (NVEs) and/or availability of a replicator service node using BFD.

• While we have been working on this draft two, including OpenSource, independent implementations of BFD over VXLAN have been developed and deployed.
VXLAN encapsulation of BFD control packet using IPvX/UDP headers

- Inner Ethernet header:
  - DMAC – dedicated (IANA assigned) or of destination VTEP
  - SMAC – of originating VTEP

- Inner IP header:
  - Source IP – IP address of the originating VTEP
  - Destination IP – IP address of the destination VTEP

- Ed.Note: Need more discussion on selection/use of IP addresses?
- TTL set to 1
- UDP port – 3784 per RFC 5881
Next steps

• Welcome comments from the WG
• Asking WG to consider WG LC of the draft
• Thank you