BFD draft-adubey-bfd-service-redundancy-00
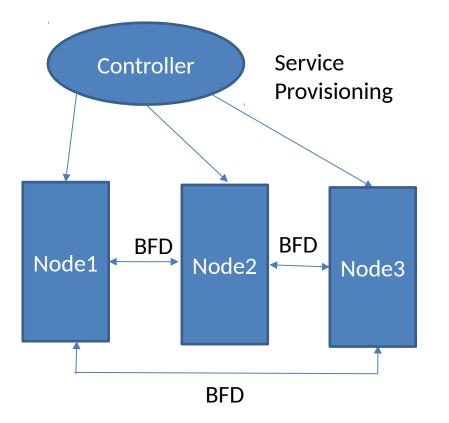
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Multiple Service Redundancy Use Case

Controller

Service Provisioning

Node1 — BFD — Node2 — BFD — Node3

BFD

- Multiple L2/L3 and/or L4/L7 services providing single Active redundancy
- Some services shared between Node1 and Node2, some between Node2 and Node 3, some between Node1 and Node 3
- Every service has unique ID provisioned by Network Controller
- Some services in revertive failover mode, some in non-revertive mode
- In failover scenario, revertive services revert to the primary node when it recovers. The node taking over as Active for non-revertive services needs to indicate the same that to the peer Node

Proposed Solution

- A new diag code to indicate the peer node that it was up when the peer node failed.

- The bitmap created by network controller will be used in the payload of the BFD packets to indicate which non-revertive service(s) the node maintains an Active status for.

Next steps

- Seeking comments?

Thank you