

Dissemination of Flow Specification Rules for NVO3

draft-hao-idr-flowspec-nvo3-00

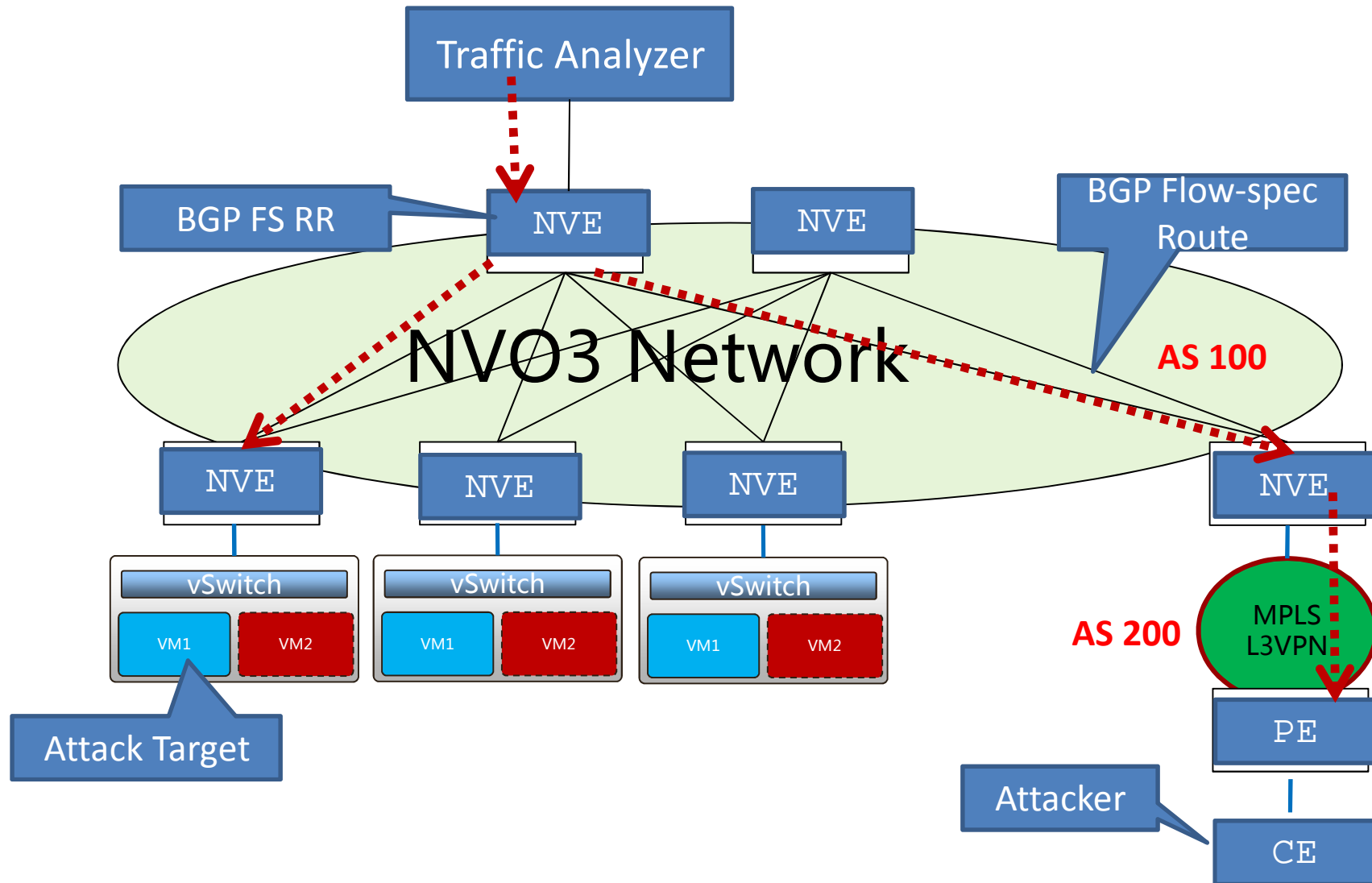
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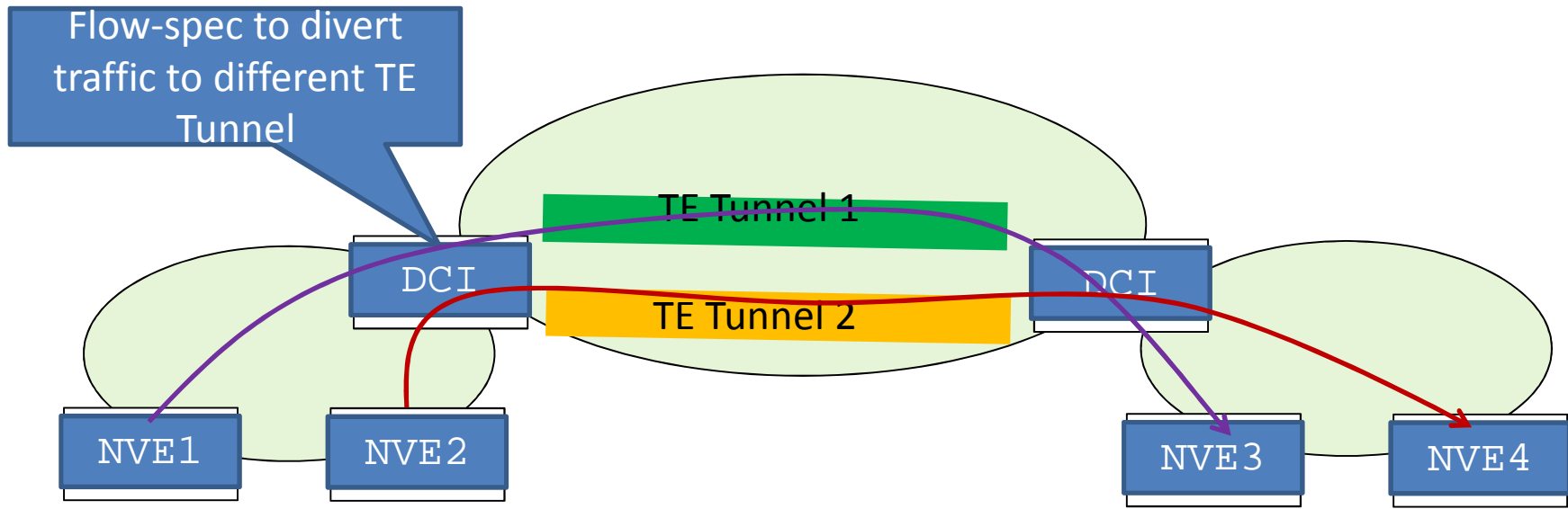
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Scenario 1: DDOS mitigation



Scenario 2: Traffic steering



Divert traffic to different Tunnel relying on BGP flow-spec on DCI device.

BGP Flow-spec for NVO3 Requirements Summary

- ① The match part should include inner L2/L3 header information and NVO3 header.
- ② The Traffic Filtering Actions supports redirect to TE tunnel or NVO3 tunnel.

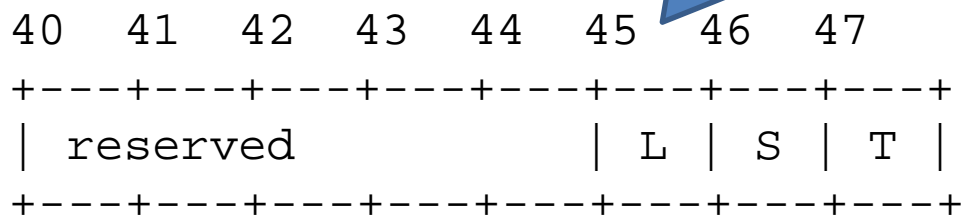
Flow-spec extension

Add new Component Types for NVO3 header:

Type TBD1 – VN ID

Type TBD2 – NVO3 Proto Type

Layer Flag in traffic action



Layer Flag(Bit 45): When this bit is set, the corresponding filtering rules will be applied on the NVO3 inner layer. If not set, the corresponding filtering rules will be applied on the NVO3 outer layer.

Next Step

- Seek some comments and feedbacks

Flow-spec traffic action

type	extended community	RFC or Draft
0x8006	traffic-rate	RFC5575
0x8007	traffic-action	RFC5575
0x8008	redirect	RFC5575
0x8009	traffic-marking	RFC5575
TBD	redirect to Tunnel	This draft

- Besides 'redirect to IP' and 'redirect to VRF', 'redirect to Tunnel' is proposed.
- The set of tunnels can be specified in the BGP Path Attribute.