MPLS L3VPN Components (cont.)

» MPLS Core (P & PE) devices

» IGP + LDP
- Goal is to establish LSP between PE /32 Loopbacks
- Traceroute between loopbacks for verification

» Other labeling methods supported
- E.g. BGP + Label, RSVP-TE, etc.
- More info on this later…

MPLS L3VPN Components (cont.)

» **MPLS Edge (PE) devices**
» **VRF**
  - VRF Aware PE-CE Routing
  - Used to locally separate customer routes & traffic
» **VPNv4 BGP**
  - iBGP peering to remove PE /32 Loopbacks
  - Separates customer control & data plane over MPLS core
  - Other designs supported outside this scope
    - E.g. VPNv4 RR, Multihop EBGP VPNv4, etc.
» **Redistribution**
  - VRF to BGP import and export policy

MPLS L3VPN Components

» **Customer (CE) devices**

» **PE-CE Routing**

- No MPLS required
- Normal IPv4 and IPv6 routing
- All IPv4 protocols supported
- Some IPv6 protocols supported

Q&A