

## VPRN

Essentials: (1) MP-BGP on PE's; (2) VRPN service; (3) Proto for PE-CE routing

### Agenda

- Notice: SBA: 2.5 hrs, **Sat Apr 14<sup>th</sup>**; times/sections posted on BB
  - study guide & preview posted on course site
- **News:** SDN/Cloud course possibly being offered free Oct 22-26, 2018
  - See lecture summary notes from Week12, Day 1
- Check in: anyone noticed any latency to Nokia labs in the past 5 days?
- Notice: Cisco DreamTeam applications due Apr 15<sup>th</sup>; you'll need a ref letter
- Review of VRPN basics:
  - **new** families: VPN-IPv4, VPN-IPv6 = RD + IP prefix
  - Route Distinguisher: 64 bits = [1] type (0) [2] ASN [3] assigned number pre-pended onto IP prefix
  - Route Target: identifies to whom the VPN-IpvX prefix is of interest
  - Both appear in MP-BGP updates; RT is a separate attribute field
- Continue VPRN basics – SA Mod 5, slides 54 onwards
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### References / Lab Prep

There's a few key slides in SA Mod 5 that show exactly how to configure a VPRN:

- MP-BGP on PE's: slide 60
- VPRN service on PE: slide 67, 69
- PE-CE peering: slide 73 (protocol), 72 & 74 (export policies)
- Overall for VPRN + PE --> CE peering: slide 78