

# Connecting Remote Sites Using Cisco DMVPN with EIGRP

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# Agenda



Why DMVPN?

WAN preparation

DMVPN phases 1, 2, and 3



# DMVPN at a High Level

K	V

Next-hop Resolution  
Protocol (NHRP)

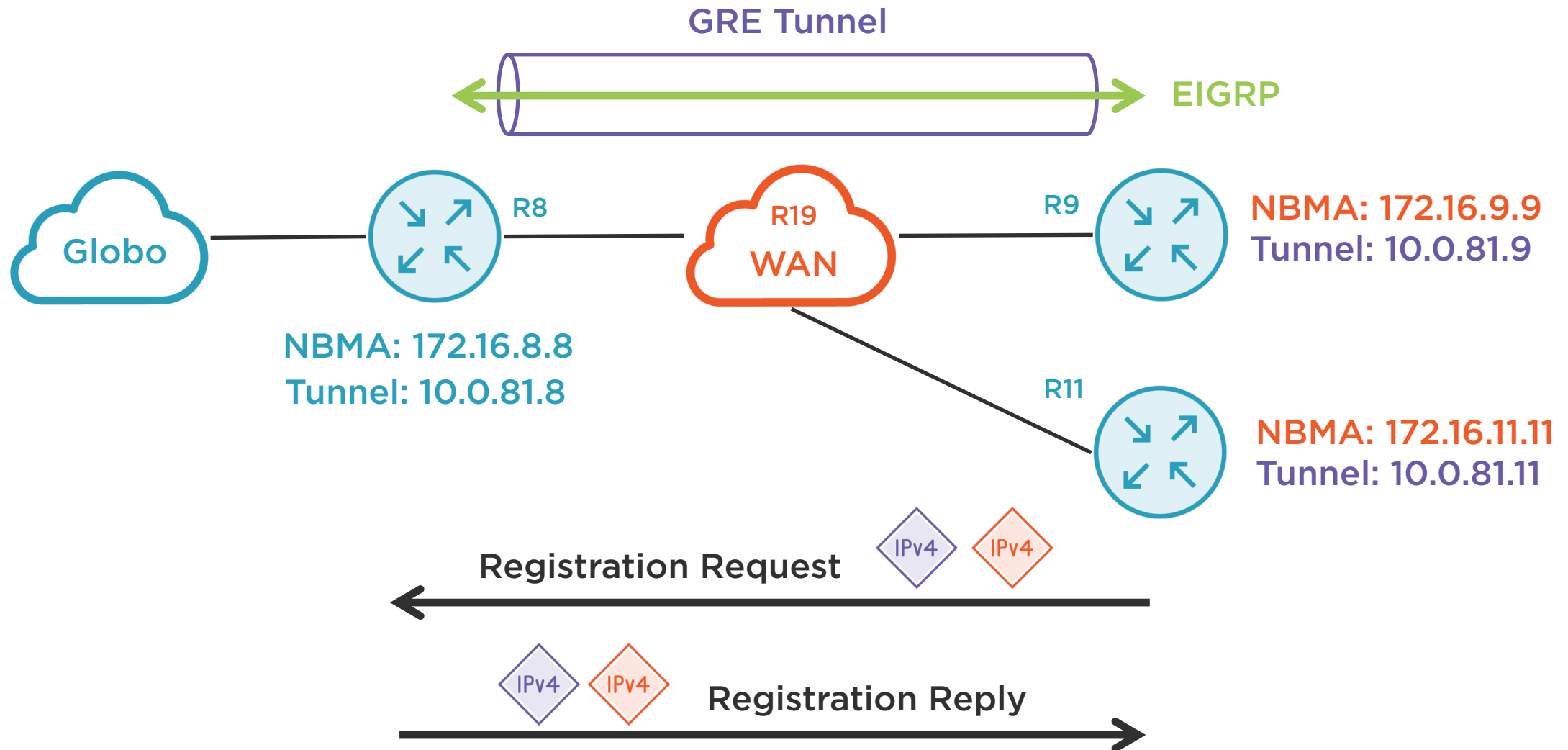


Generic Routing  
Encapsulation (GRE)



Dynamic spoke-to-hub  
registration

# DMVPN Phase 1 – A Good Start



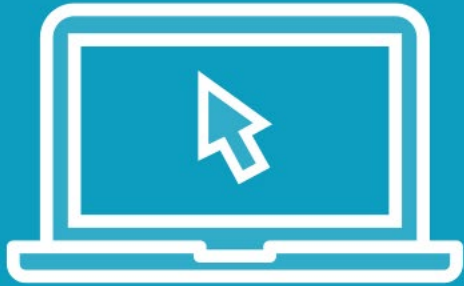
# Demo



## WAN preparation with VRF-lite and ACLs



# Demo



## DMVPN phase 1



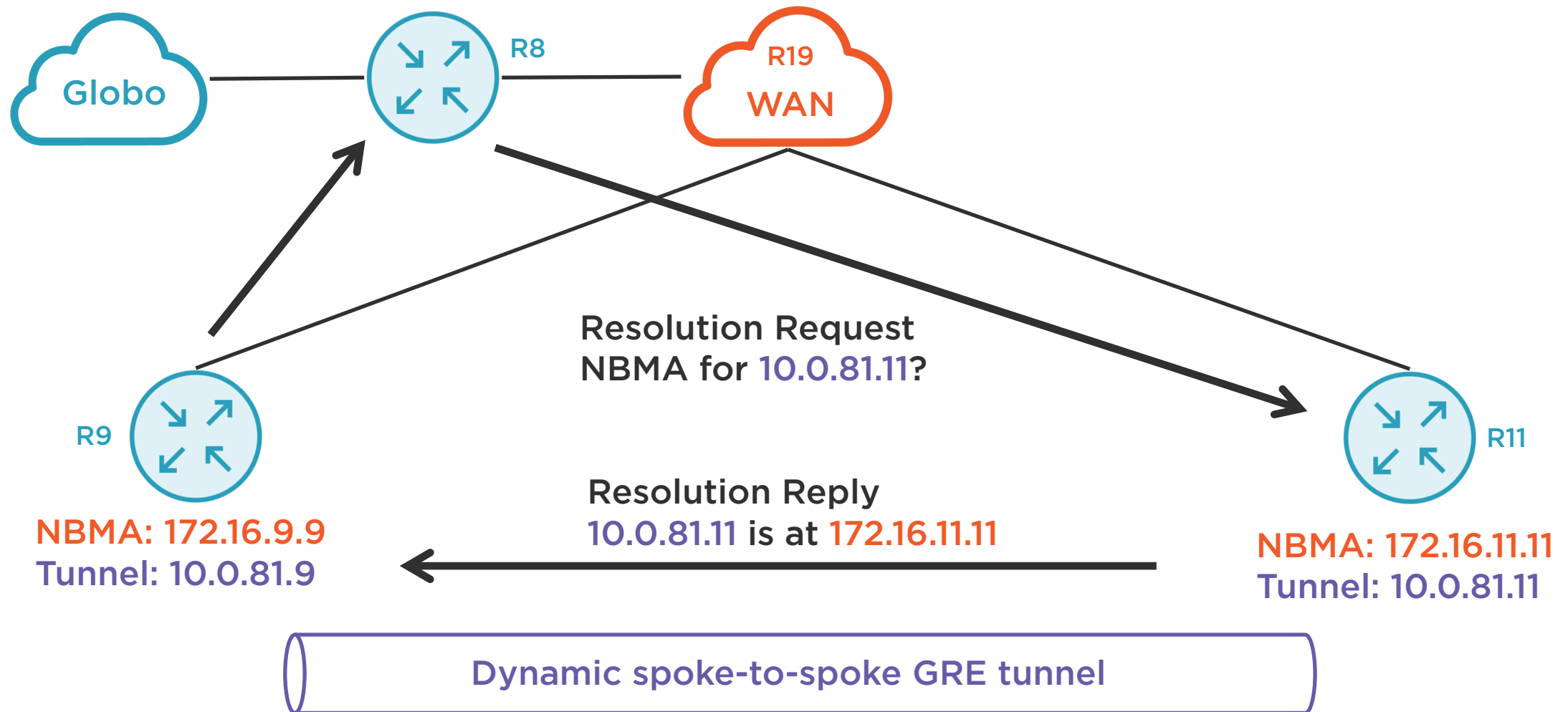
# Demo



## EIGRP route filtering use case



# DMVPN Phase 2 - Better Traffic Flow





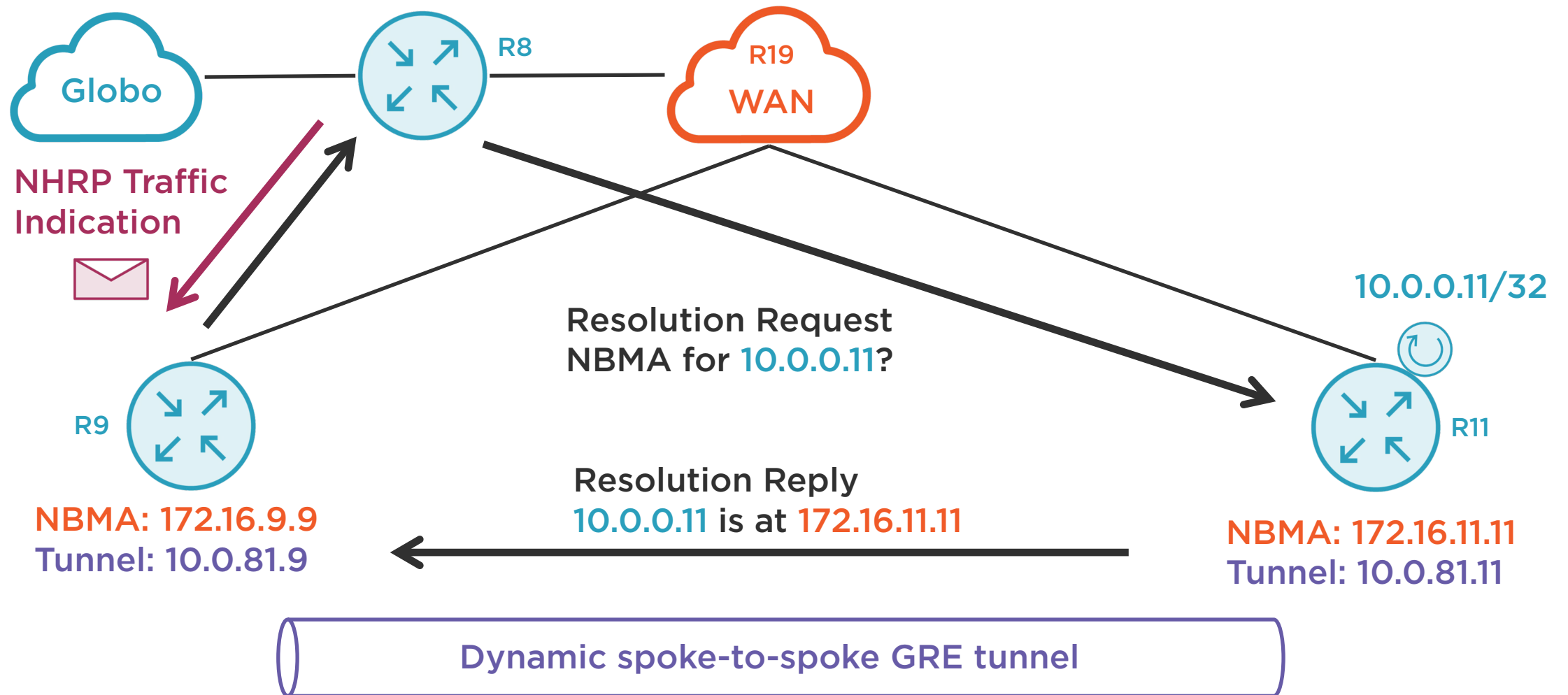
# Demo



## DMVPN phase 2



# DMVPN Phase 3 – Hub Redirection



# Demo



## DMVPN phase 3



# Summary



**VRF-lite + ACL = smart for most WANs**

## **DMVPN phases:**

- Phase 1: Dynamic reg. + hub/spoke
- Phase 2: Spoke/spoke, full view
- Phase 3: Spoke/spoke, summarizable

