

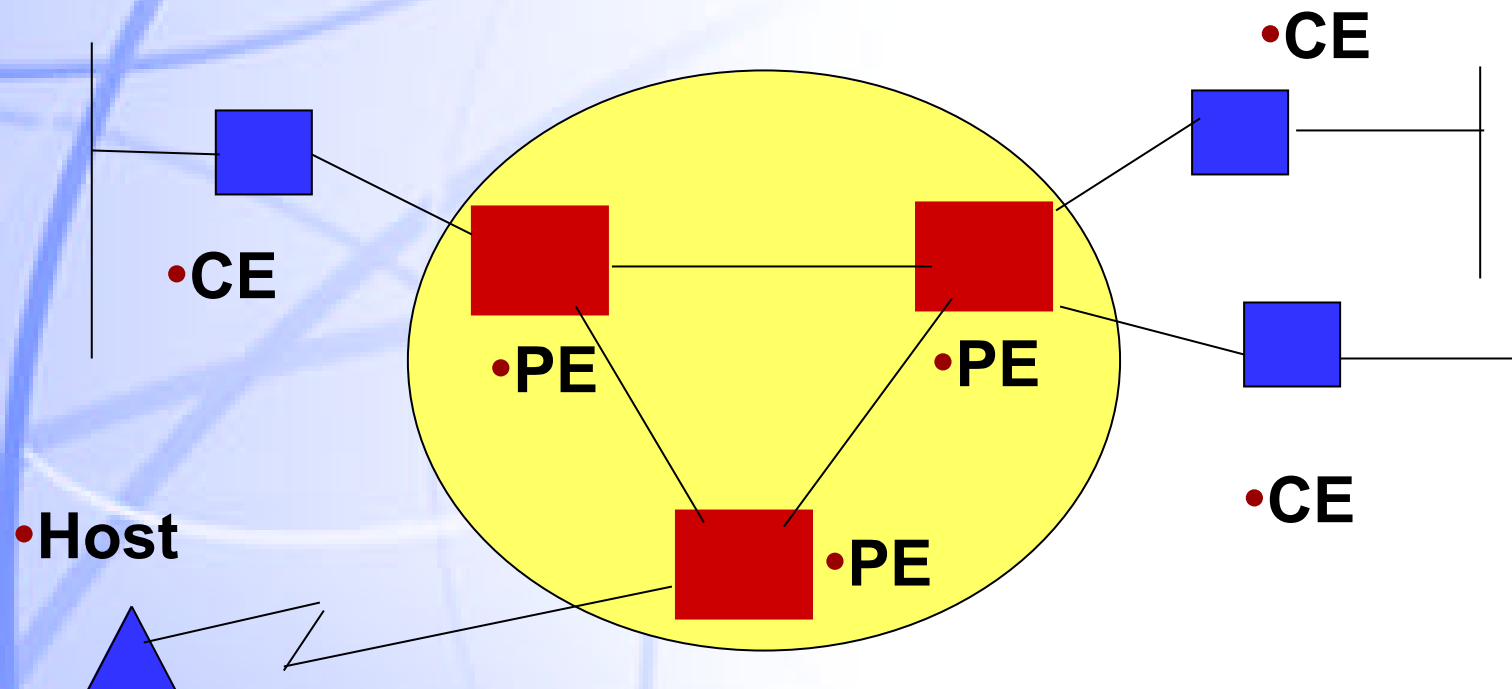


Uses of IPSEC with VPNs

Purpose

- Outline some scenarios where IPSEC can be used with VPNs
- Identify areas where extensions to IPSEC could be useful

VPN Reference Model



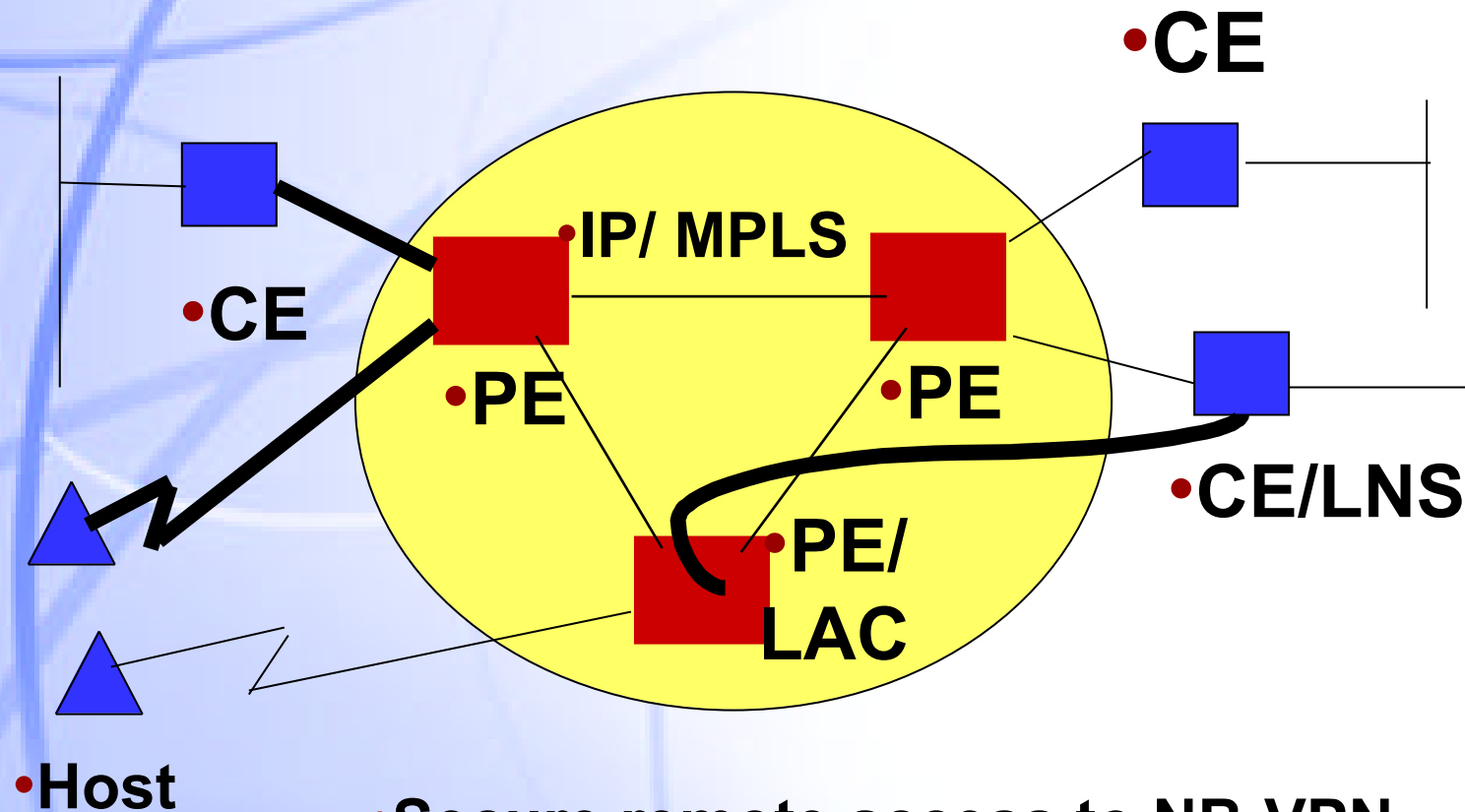
•IPSEC can be used for :

•CE to PE

•PE to PE

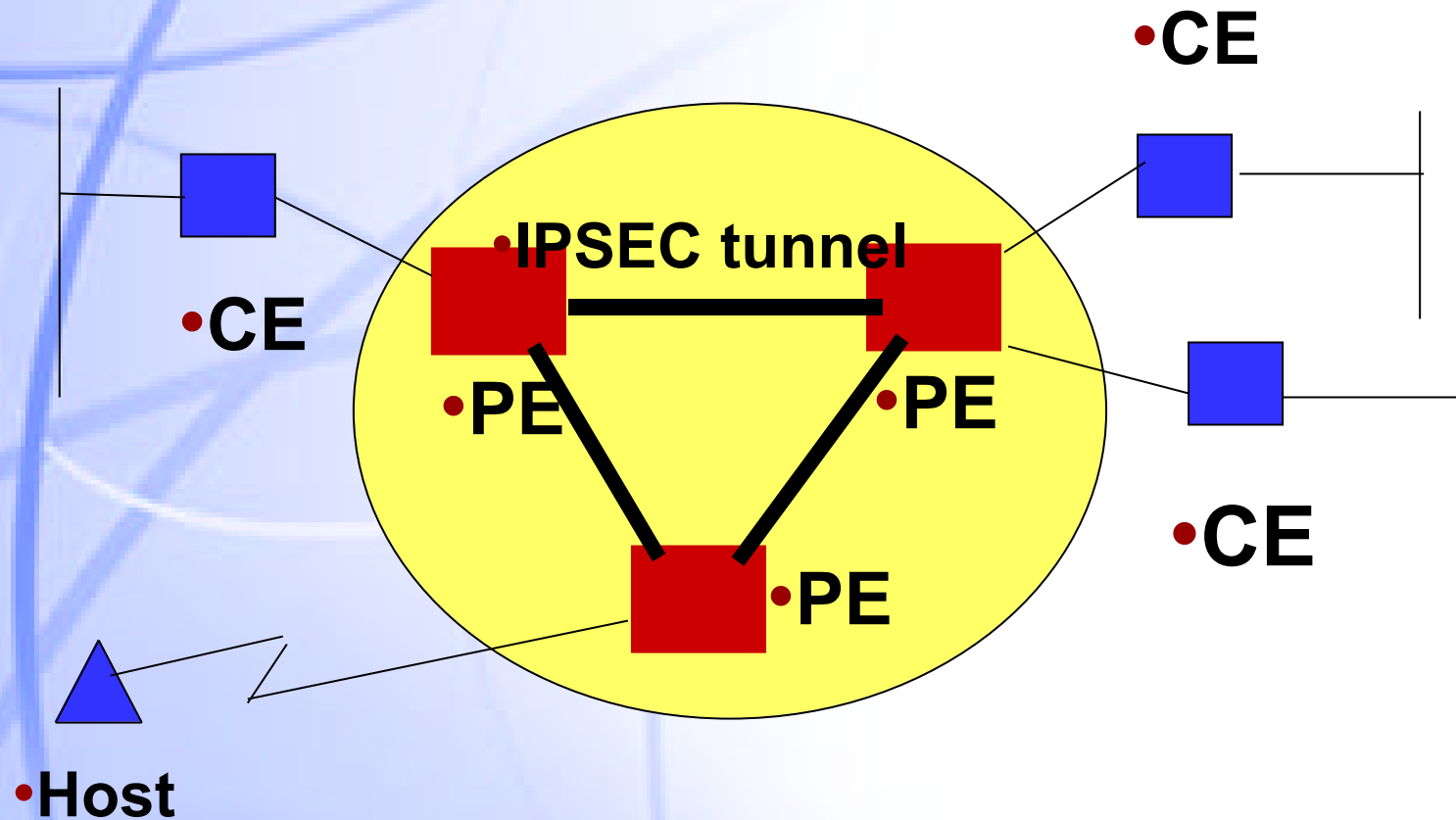
•CE to CE

CE to PE IPSEC tunnels



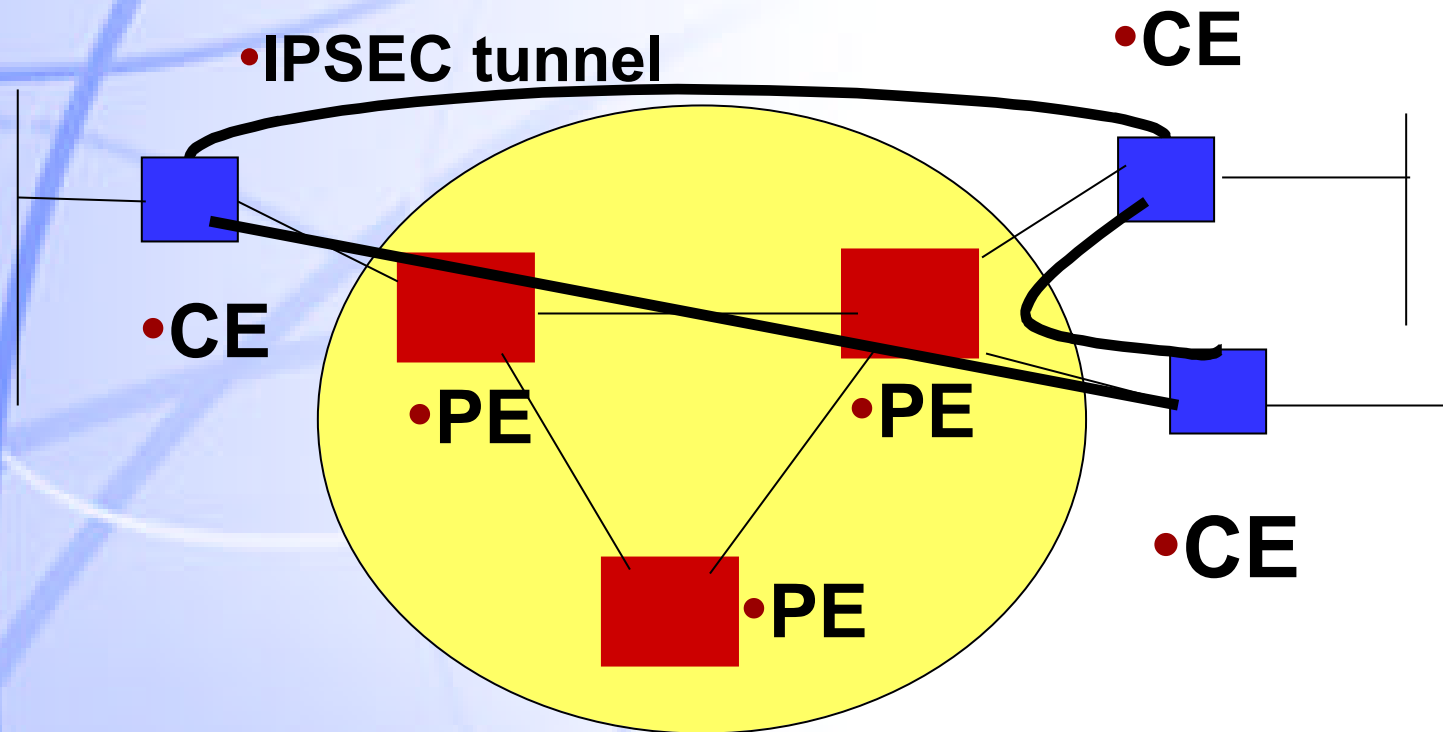
- Secure remote access to NB-VPN
- Compulsory L2TP/IPSEC tunneling

PE to PE IPSEC tunnels



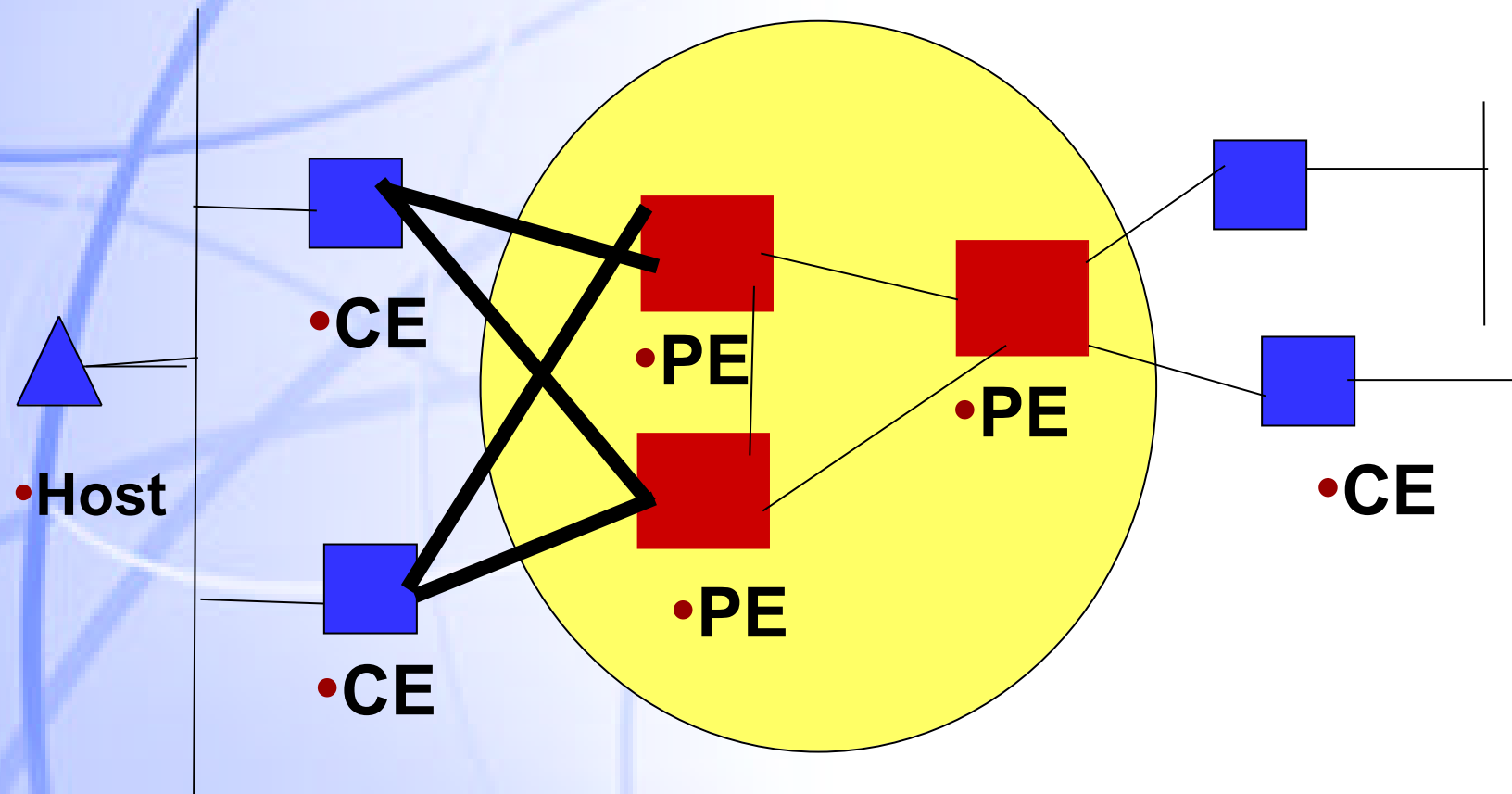
• Can be used for both Layer 3 + Layer 2 NB VPNs

CE to CE IPSEC tunnels



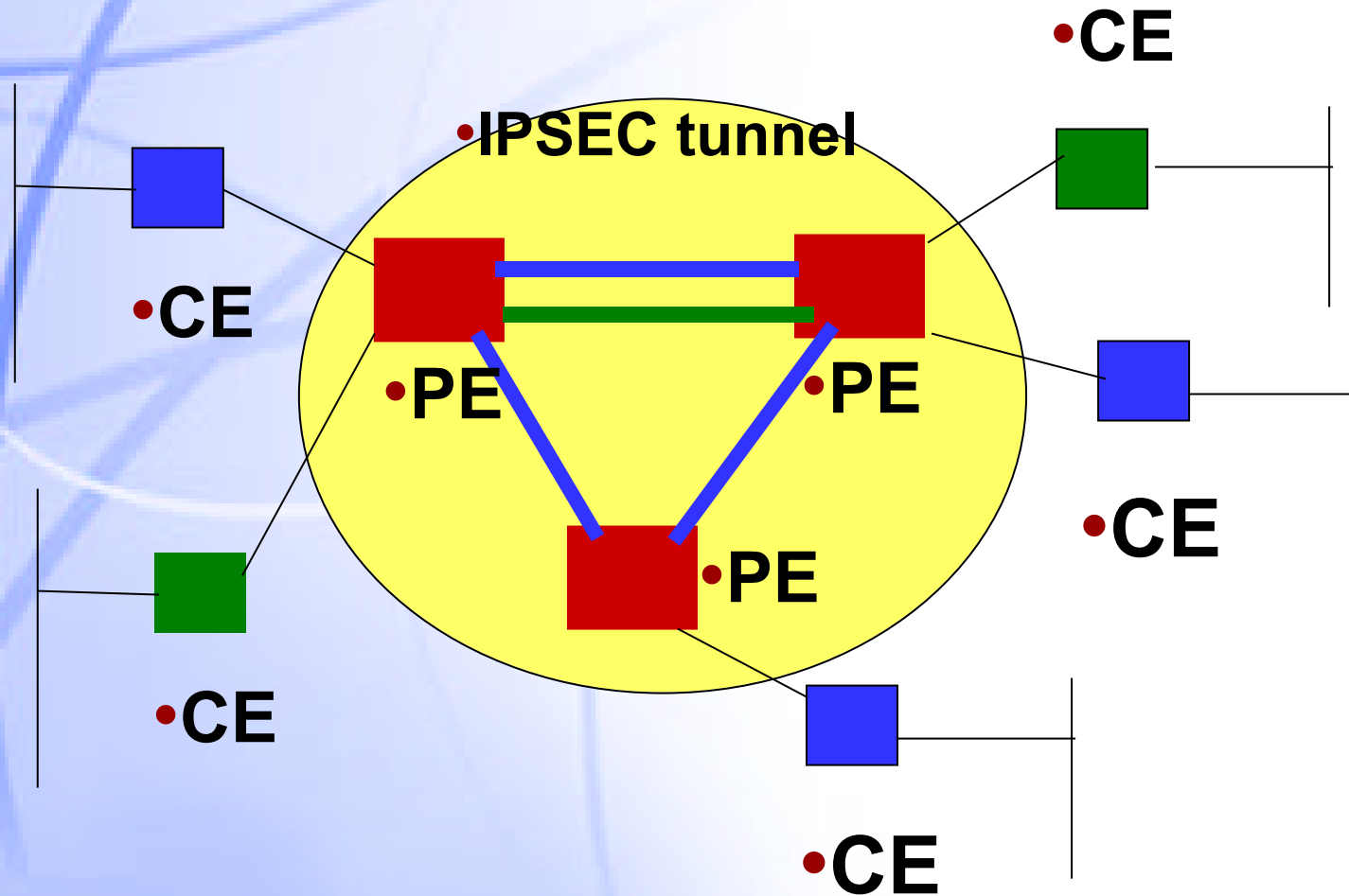
- Backbone could be
- Non vpn aware; Layer-2 VPN; Layer-3 VPN

Routing over IPSEC tunnels



Sample scenario: Redundant CE to PE connectivity

Associating IPSEC tunnel with VPN



Thank You!