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Cisco Support Community Presents
Tech-Talk Series

Introduction to EVN / VNET

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August 2014







EVN at a Glance

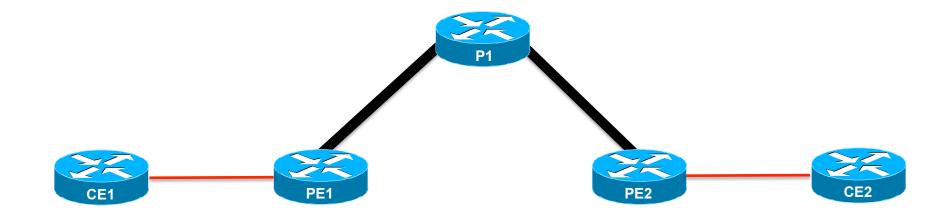


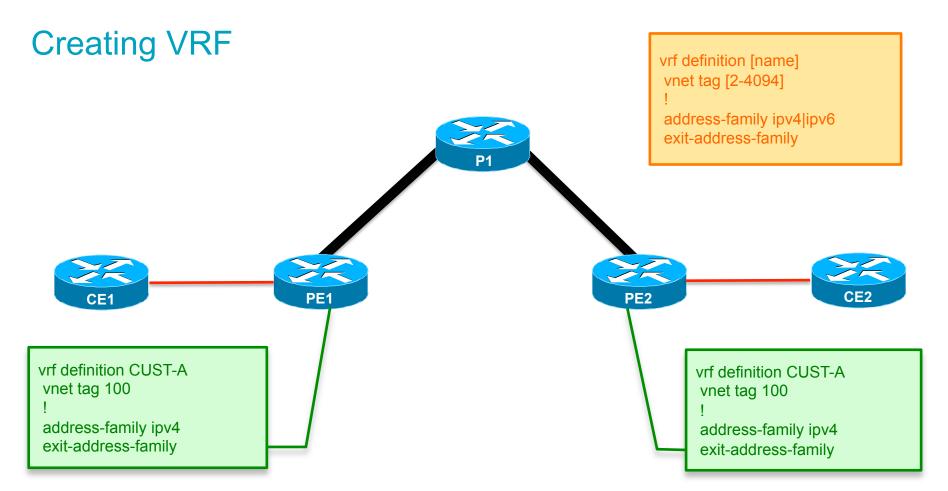
EVN Components

- VRF Lite
- VNET Trunks (equivalent to dot1q tag)
- Automatic creation of hidden dot1q sub-interfaces
- Configuration inheritance of main interface
- Separate Routing Sub-interfaces
- Support for Route Leaking
- IPv4 and IPv6

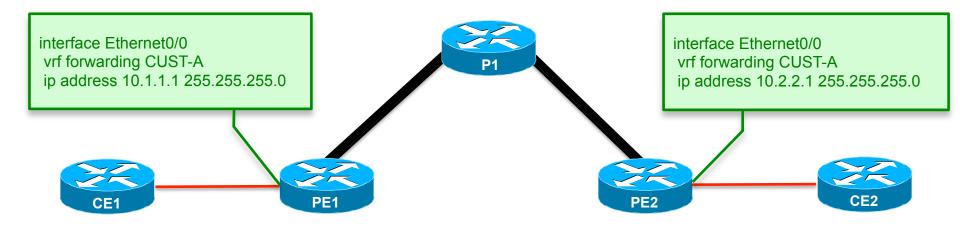


Sample Topology



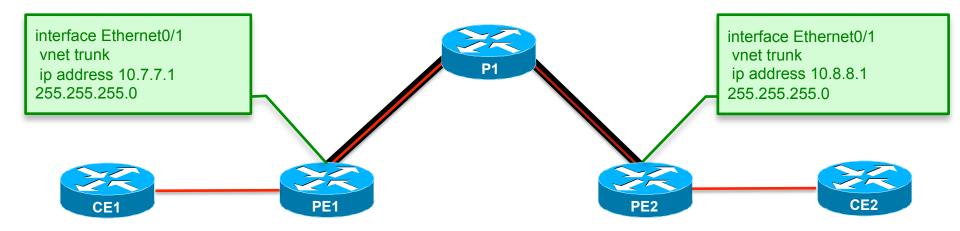


Assigning edge interfaces to VRF



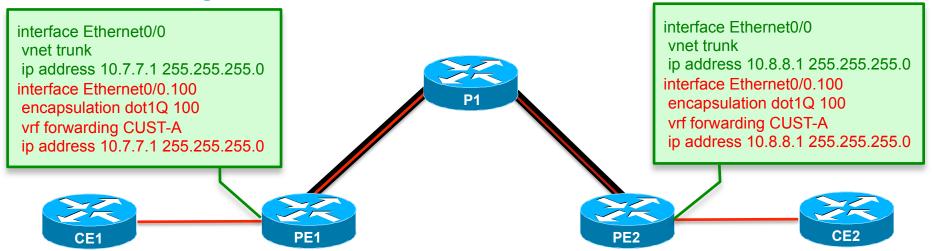
interface GigabitEthernet x/x.y vrf forwarding [name] ip address x.x.x.x y.y.y.y ...

Defining VNET Trunks



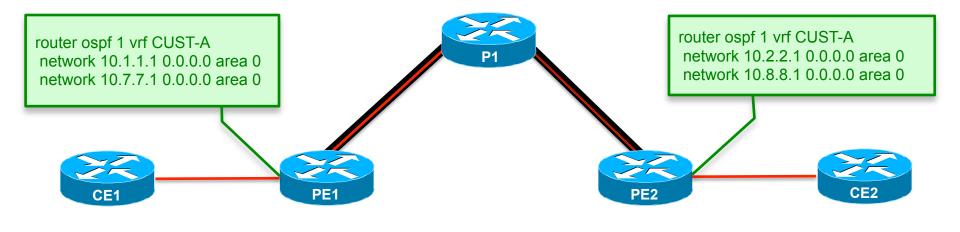
interface GigabitEthernetx/x vnet trunk ip address x.x.x.x y.y.y.y ...

Actual Configuration of VNET Trunks

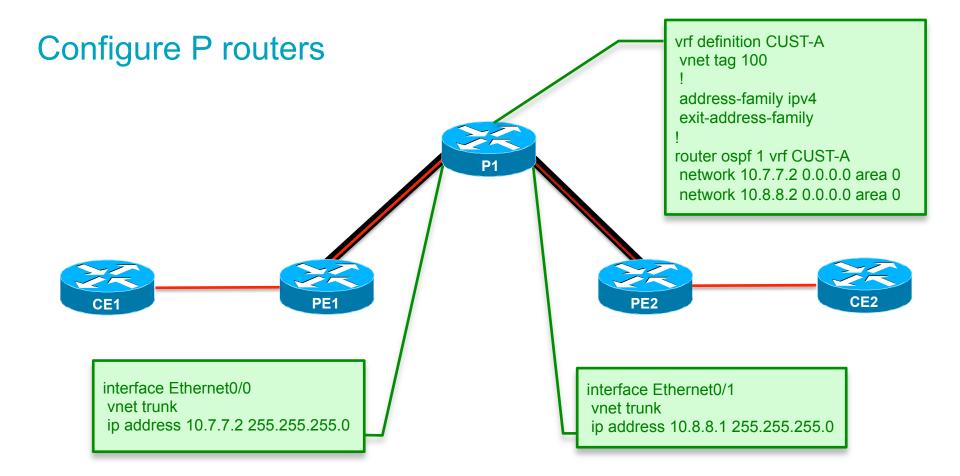


- New sub-interface is created per VRF
- "show derived-config" displays this configuration
- Sub interface inherits ip address from main interface
- Dot1q tag is derived from VRF configuration
- Allowed on both Physical and Port-channel
- Co-existence with manually created sub-interface is not supported

Configure Routing Protocol



router ospf x vrf [name]
network x.x.x.x y.y.y.y area x
...



Advanced Features

- Route Replication
- Limiting VNET's on Trunk
- Per VRF Trunk Attributes

Different VNET Tags for Trunks



References

Cisco.com

http://www.cisco.com/c/en/us/products/ios-nx-os-software/easy-virtual-network-evn/index.html

Ask the Expert

https://supportforums.cisco.com/discussion/11564071/ask-expertnew-campus-segmentation-technology-using-cisco-easy-virtual-network

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http://iwe.cisco.com/web/communications-resourcecenter/messaging-central Thank you.

