



SNEAK PEEK

Cisco Support Community Expert Series Webcast

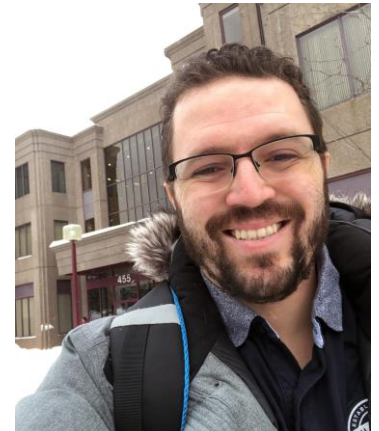
Evolution of Data Center: From Classic Ethernet to VXLAN

May 15th, 2018

with Tiago Silva

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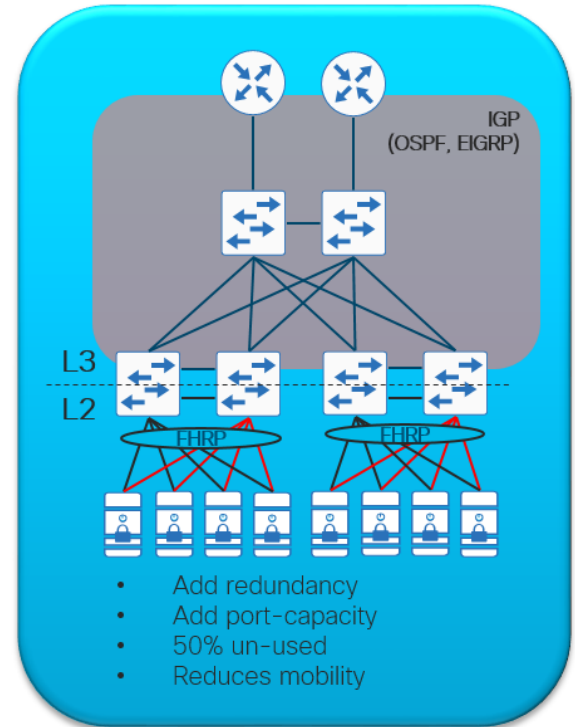
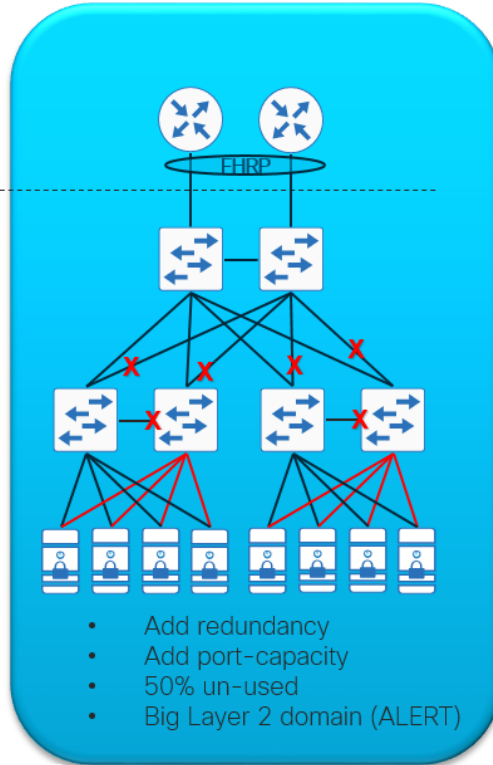
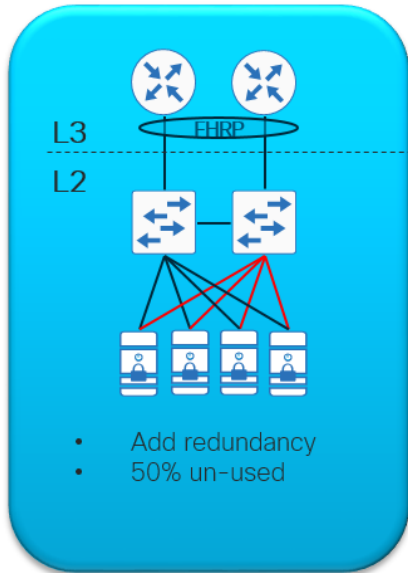
<http://bit.ly/Wecast-DCevolution>



Agenda

- Introduction
- Evolution of Data Center Topologies
- Nexus Design and Best Practices
- Troubleshooting Tips for Nexus
- Live Demonstration

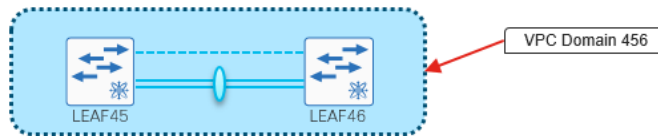
Topologies Evolution



VPC – Configuration steps

Step 1: Create VPC Domain

- VPC Domain must match between VPC Peers
- Must be unique in a contiguous Layer 2
- Global configuration
- Automatically creates a unique VPC System MAC address



Configuration

```
LEAF45(config)#feature vpc
LEAF45(config)#vpc domain 456
LEAF45(config-vpc-domain)#
```

```
LEAF46(config)#feature vpc
LEAF46(config)#vpc domain 456
LEAF46(config-vpc-domain)#
```

Verification

```
LEAF45# show vpc role
```

```
vPC Role status
```

```
-----
vPC role                : primary
vPC system-mac          : 00:23:04:ee:bf:c8
vPC local system-mac    : a0:e0:af:67:51:6d
vPC peer system-mac     : a0:e0:af:67:50:cd
```

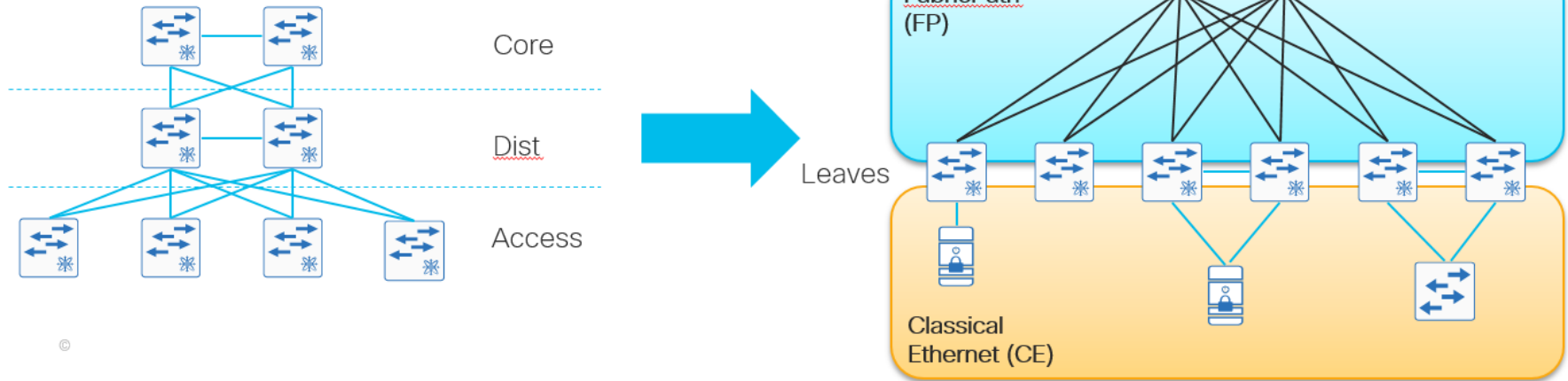
```
LEAF46# show vpc role
```

```
vPC Role status
```

```
-----
vPC role                : secondary
vPC system-mac          : 00:23:04:ee:bf:c8
vPC local system-mac    : a0:e0:af:67:50:cd
vPC peer system-mac     : a0:e0:af:67:51:6d
```

FabricPath

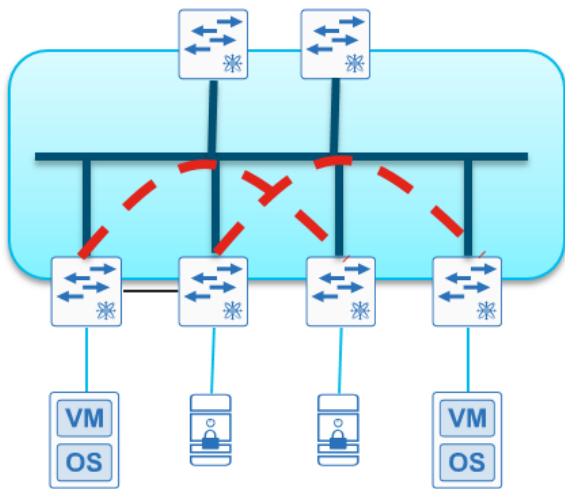
- Migration of topologies from Layers to CLOS (Leaf-Spine-Leaf)
- ISIS running on the background
- No Spanning-Tree within the Fabric
- Traffic is encapsulated within the Fabric
- MAC Scaling



VXLAN

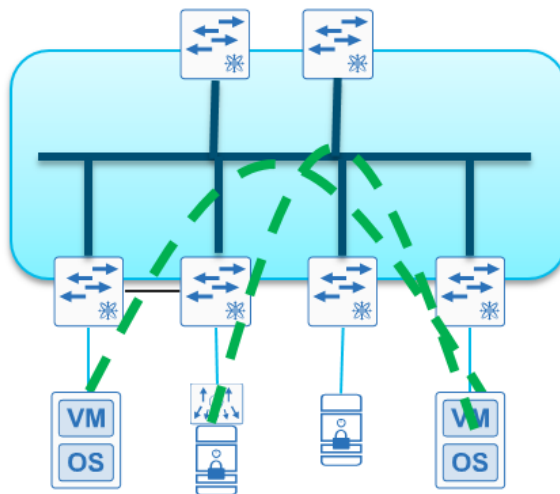
Edge devices

Network Overlays



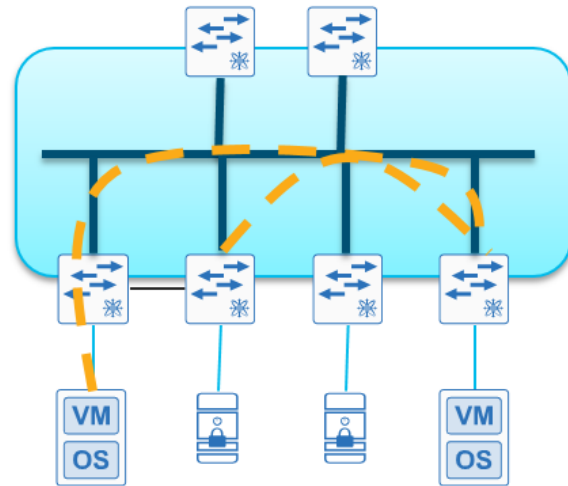
- End-points are physical devices
- Traditional VPNs
- OTV, VPLS, LISP, FP, VXLAN

Host Overlays



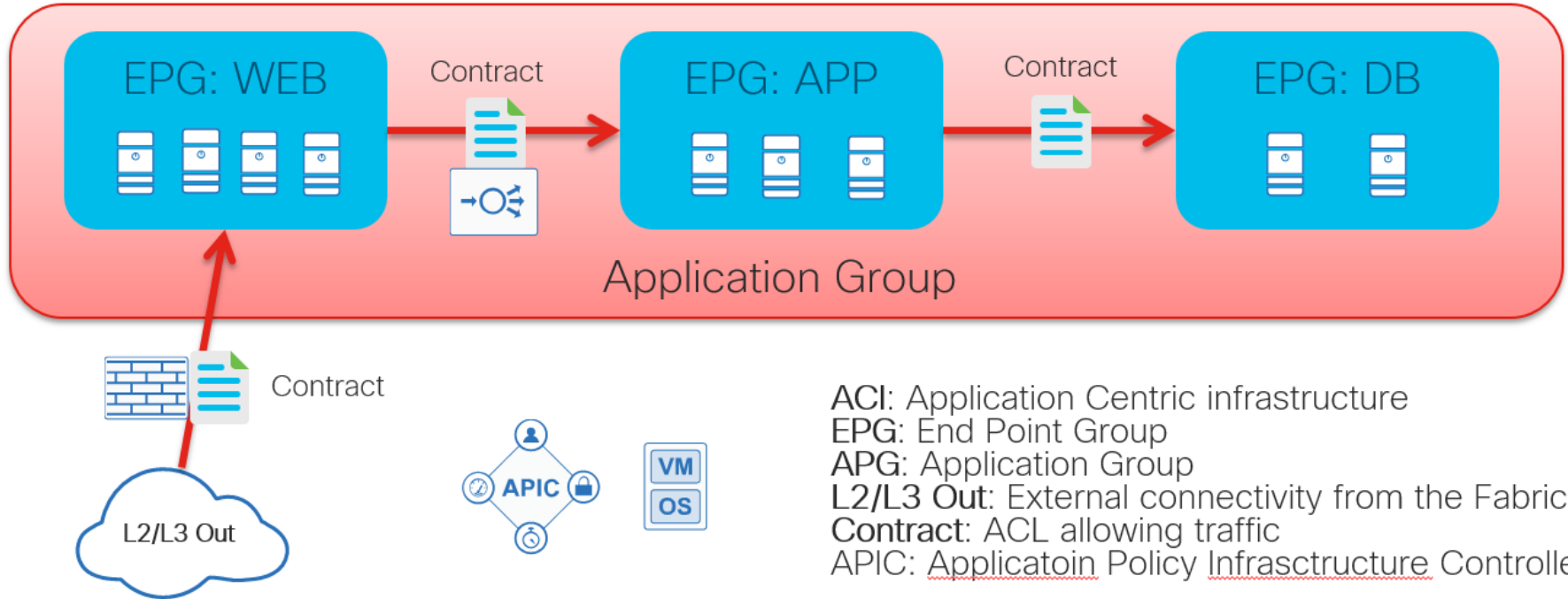
- Virtual End-Points only
- Single admin domain
- VXLAN, NVGRE

Hybrid Overlays



- Physical and Virtual
- Resilient + Scalable
- Open Standard
- X-Organizations / Federations

ACI - Overview



Check out some additional information on Data Center Technologies on the Cisco Support Community or Cisco.com

ACI Upgrade Preparation Best Practice and Troubleshooting

<https://supportforums.cisco.com/t5/data-center-documents/aci-upgrade-preparation-best-practice-and-troubleshooting/ta-p/3211109>

Chalk Talk: FabricPath, TRILL & VXLAN

<https://supportforums.cisco.com/t5/data-center-blogs/chalk-talk-fabricpath-trill-vxlan/ba-p/3099807>

If you are not yet a registered user on the community, [Click here](#) to register and become an active participant on the community.



Hope you enjoyed this little peek into the webcast.
Remember it was just a peek. May 15th you get a chance to see the whole thing.



Register Now: <http://bit.ly/Wecast-DCevolution>

At the webcast you will be able to learn so much more and get a chance to submit questions for the expert to answer during the broadcast.
We'll see you there!