



Arista Data Center Engineering Track

COURSE OVERVIEW

This course is designed to provide in-depth knowledge and hands-on experience in designing, configuring, and troubleshooting Data Center networks using Arista technologies. Participants will gain expertise in Layer 2 and Layer 3 Leaf-Spine architectures, VXLAN and EVPN overlays, and CloudVision provisioning and monitoring. Certification- Level3 Specialist Data Center Engineering.

PREREQUISITES

Participants should have a foundational understanding of networking concepts, including Ethernet, IP addressing, and routing protocols. Familiarity with Arista EOS and basic CLI operations is recommended.

COURSE OBJECTIVES

By the end of this course, you will be able to:

- Design and implement Layer 2 and Layer 3 Leaf-Spine architectures
- Configure and troubleshoot VXLAN and EVPN overlays
- Use CloudVision for provisioning, monitoring, and automation
- Perform upgrades and monitor EOS operations
- Understand best practices for Data Center network design

COURSE OUTLINE

Layer 2 Leaf-Spine (L2LS) Design Overview

- Drivers for Layer 2 Leaf Spine Topologies
- L2LS Design Overview
- L2LS Architecture: Plan for Performance, Redundancy, and Growth

Layer 2 Technologies

- VLANs
- STP
- LACP
- MLAG
- Default Gateway Redundancy (FHRP)

Building L2LS Fabric

- Build L2LS DC Network Using CLI
- Build L2LS DC Network Using CVP Configlets

Layer 3 Leaf-Spine Design

- L2LS Review
- L3LS Design



Underlay Routing Options

- OSPF
- IS-IS
- Introduction to BGP
- eBGP Underlay Configuration
- BGP Underlay Deployment Options

VXLAN Design

- VXLAN Overview
- VXLAN Control Plane Options
- VXLAN With MLAG
- VXLAN Best Practices
- Troubleshooting VXLAN

EVPN Overlay

- eVPN Fundamentals
- eVPN Advanced Concepts
- eVPN Multihoming
- eVPN Design Best Practices
- Configuring L3LS DC Network with CVP Studios

CloudVision Overview & Setup

- Cloudvision Overview
- Cloudvision Setup

CloudVision Provisioning

- Device Registration
- Network Provisioning
- Zero Touch Provisioning

CloudVision Studios

- Studios Overview
- Configuring L3LS DC Network with CVP Studio

Monitoring with CVP

- Monitoring Devices with CVP
- Dashboards
- Events
- Topology

EOS Ops Upgrade, Monitor, Troubleshoot

- EOS Reloads and Upgrades
- EOS Monitoring Tools
- Advanced Event Management (AEM)
- Troubleshooting EOS Hardware & Software

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