



Arista Cloud Engineer Level 2 – Cloud Associate (ACE: L2)

COURSE OVERVIEW

ACE: L2 is a 5-day course that expands on ACE: L1, focusing on features and skills used daily within the Arista customer network. Candidates will be exposed to the Arista Universal Cloud Network (UCN) model for Layer 2 Leaf-Spine topologies, leveraging Multi-chassis Link Aggregation (MLAG) and Virtual-ARP (VARP). This architecture is then presented in the context of the Arista Campus Network and will introduce Arista's WiFi and campus-specific features such as Power over Ethernet (PoE). All topics taught in this course are skills utilized in running an Arista network.

WHO WILL BENEFIT FROM THIS COURSE?

ACE: L2 is suitable for those with varied levels of experience: Candidates wanting to gain a solid foundation in Arista networking as well as experienced professional looking to enhance their expertise. This course covers a wide range of topics from basic configuration to advanced troubleshooting and security, making it valuable for a broad range of IT professionals working with Arista equipment and solutions.

WHAT WILL YOU LEARN IN THIS COURSE?

Preparing candidates to work with Arista networking equipment, design and manage network infrastructures, troubleshoot network issues, and enhance network security. These skills are valuable for network engineers, administrators, and other IT professionals working with Arista networking technologies.

COURSE OUTLINE

Module 1: EOS CLI Troubleshooting & Maintenance Tools

- Arista Architecture Innovation
- EOS Design Principles
- Arista EOS Software Architecture Approach
- Arista Hardware Approach
- EOS Resources
- The Command Line Interface
- Using CLI to Configure Basic Tasks
- Interface Configuration
- Simple Network Management Protocol (SNMP)
- sFlow
- Show tech-support
- Watch and Diff Command
- Advanced Event Management (AEM) – CLI Scheduler
- Advanced Event Management (AEM) – Event Monitor
- Advanced Event Management (AEM) – Event Manager
- Recovery Procedures
- Upgrading EOS



Module 2: CloudVision

- Introduction to CloudVision
- Automation Overview
- Deployment Options
- Introduction to Clusters
- Device Communication
- Configlets & Containers
- Tasks and Change Control
- Introduction to Change Control Templates
- Zero Touch Provisioning ZTP
- Image Management
- Snapshots/Rollbacks
- Labels/Tags
- Basic Telemetry

Module 3: Universal Cloud Networking – L2LS

- Introduction to Leaf-Spine Architecture
- Layer 2 Redundancy
- Link Aggregation
- MLAG
- MLAG Troubleshooting
- Monitoring Tools
- First Hop Redundancy Protocol
- The Move to L2LS Architecture

Module 4: Universal Cloud Networking – L3LS

- L2LS Review and Config Walkthrough
- Underlay and Overlay Design Options
- Comparison of L2LS to L3LS
- Layer 3 Redundancy
- OSPF
- Troubleshooting OSPF
- ISIS
- Troubleshooting ISIS
- BGP Introduction
- Troubleshooting BGP
- L3LS Design with BGP

Module 5: Troubleshooting and Analysis

- SPF and Physical Link Errors / Issues
- Hardware Troubleshooting
- System and Software Troubleshooting
- Memory & Flash Errors
- Arista EOS Health Check: CLI
- Arista EOS Health Check: CVP



- Memory and Flash Errors
- Debugging Layer2: CLI
- Debugging Layer2: CVP
- Troubleshooting Layer 3 Issues: CLI
- Troubleshooting Layer 3 Issues: CVP
- Adding Extensions as Troubleshooting Tools
- Monitoring Connectivity Tool
- LANZ Operation
- Port Mirroring
- Advanced Mirroring
- Packet Truncation and Timestamping
- Tap Aggregation (TapAgg)
- Tcpdump and Iperf Overview
- DANZ Monitoring Fabric

Module 6: Security

- ACLs Overview
- Creating and Modifying ACL List
- Route-maps
- Prefix-lists
- Service / Protocol ACLs
- MACsec
- Arista Multi-domain Segmentation
- NDR- Network Detection and Response

Module 7: Cognitive Campus

- Campus Architecture
- Arista Wi-Fi
- Wi-Fi Fundamentals
- Campus Wi-Fi Security (WIPS)
- Wi-Fi Configuration
- Cognitive Wi-Fi
- Troubleshooting- Connectivity
- Troubleshooting- Performance
- Proactive Troubleshooting

Labs

- CVP Navigation
- CVP Configlet Management
- CVP Configlet Builder
- CVP Snapshots
- Change Control
- CVP Dashboard Labs
- STP
- Troubleshooting STP

- MLAG Bowtie
- Troubleshooting MLAG
- Routing BGP
- Troubleshooting BGP
- Routing OSPF
- Routing Multiarea OSPF

ACL

- Troubleshooting ACL

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