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 best suited for individuals with, at a minimum, mid-level experience in the networking field and who are looking to acquire core skills required to operate Arista networks. It is beneficial to individuals with goals aimed at increasing relevance with modern network architectures.

WHAT WILL YOU LEARN IN THIS COURSE?

Features and skills used daily within the Arista customer network.

COURSE OUTLINE

Universal Cloud Networking – L2LS

- Data Center & Cloud
- Traditional Data Center Architectures
- Leaf-Spine Architecture
- L2 Switching
- Command Line Interface (CLI)
- Layer 2 Redundancy
- Spanning Tree Protocol (STP)
- VLAN and PVST
- STP Enhancements
- Multiple Spanning Tree (MST)
- Link Aggregation, MLAG
- First Hop Redundancy Protocols (FHRP)

EOS CLI Troubleshooting Tools

- Tcpdump and Iperf
- Simple Networking Management Protocol (SNMP)
- sFlow
- Advanced Event Management (AEM) – scheduler, monitor, manager

Security
- ACL Overview
- ACL Rules Parameters
- ACL Configuration
- ACL Implementation
- ACL Troubleshooting
- Service/Protocol ACL's
- LANZ Operation
- LANZ Configuration
- LANZ Reporting
- Port Mirroring
- Advanced Mirroring
- Packet Truncation and Timestamping
- Tap Aggregation
- Intro to DANZ Monitoring Fabric
- Intro to Arista's Network Detection and Response with Awake Security

CloudVision
- Automation Landscape
- CloudVIsion Deployment Options
- CloudVision Portal Communication
- Zero Touch Provisioning
- Deployment
- BugAlerts EOL Lifecycle
- Configlets
- Tasks and Change Control
- Snapshots
- Rollback
- Image Management
- Devices, Labels, and Tags
- CloudVision Telemetry

Cognitive Campus
- Arista WiFi
- Campus Architecture
- WiFi Fundamentals
- WiFi 6
- Campus WiFi Security (WIPS)
- WiFi Design
- WiFi Configuration
- Cognitive WiFi
- Troubleshooting – connectivity & performance
- Proactive Troubleshooting

Universal Cloud Networking – L3LS

- L2LS Review and Config Walkthrough
- Traditional Data Center Architecture
- Move to Leaf-Spine Architectures
- Underlay & Overlay Design Options
- L2LS v L3LS
- Layer 3 Redundancy
- OSPF Review
- Configuring OSPF
- IS-IS Overview
- IS-IS Areas and Addressing
- IS-IS Routing
- Intro to BGP
- Enabling BGP
- BGP Peer Groups
- BGPv4 Routes
- Configuring Routes
- BGPv4 States and Messages
- BGPv4 Attributes
- BGP Communities
- BGP-Labeled Unicast
- L3LS Design with BGP
- L3LS BGP Recommended Practices

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