

Arista Networking

ACE-L3: Arista Cloud Engineer Level 3 – Cloud Journeyman (ACE: L3)

\$4,995.00

- 5 Days

Upcoming Dates

Course Description

ACE: L3 is a 5-day course that is designed around Arista's data-driven Cloud network architectures. Candidates will master core technologies found in most modern corporate networks today such as MultiProtocol Border Gateway Protocol (MP-BGP), Exterior BGP (eBGP) underlays, Ethernet Virtual Private Networks (EVPN), and Virtual Extensible LAN protocol (VXLAN). Additional topics include security, QoS, multicast, and Cognitive Campus.

Course Outline

CloudVision

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

Universal Cloud Networking – L3LS

- L2LS Review and Config
- Traditional DC Architecture
- Leaf-Spine Architectures
- Underlay & Overlay Design Options
- L2LS vs. L3LS
- Layer 3 Redundancy
- OSPF Review and Configuration
- IS-IS Overview, Areas & Addressing, and Routing
- BGP, BGPv4

- L3LS Design with BGP

VXLAN

- Recommended Practices
- First Hop Redundancy Protocols (FHRP)
- VXLAN Control Plane, Routing, Broadcasts, Multicast, Head End Replication (HER)

EVPN

- Underlay Design Options
- EVPN Overview
- MP-BGP Overview
- VRF & VPN
- MP-BGP Multi-Tenant Control Plane
- EVPN Control Plane
- RT-2 and RT-3 Advertisements
- L3 VPNs and Type 5 Route Advertisements
- EVPN Data Plane
- IRB
- EVPN-VXLAN Config Walkthrough of Asymmetric & Symmetric IRB
- IP-VRFs and Multi-Tenancy with Asymmetric & Symmetric IRB
- RT-4, RT-1, and Multi-Homing
- Failure Scenarios
- EVPN Deployments

Multicast

- Overview and Protocols
- IGMPv2 Snooping Configuration
- MSDP Configuration
- Multicast with EVPN Control Plane
- EVPN Layer 2 Multicast
- EVPN Multicast Underlay
- EVPN Multicast – External Connectivity

QoS

- Modes and Setting
- Traffic Classes
- QoS Policies, QoS Prioritization
- Policing
- Shaping
- Explicit Congestion Notification
- Priority Flow Control

Security

- Route Maps and Prefix Lists
- MSS

- Arista DANZ Monitoring Fabric (DMF) Overview
- Arista's Network Detection and Response Overview
- Campus Security

Advanced Campus

- Arista WiFi
- Campus Architecture
- WiFi Fundamentals
- WiFi 6
- Campus WiFi Security (WIPS)
- WiFi Design, WiFi Configuration
- Cognitive WiFi
- Troubleshooting Connectivity and Performance
- Proactive Troubleshooting

Audience

ACE: L3 is best suited for individuals with mid-to-senior level experience in the networking field with advanced Layer 2 and 3 technologies and configurations. Engineers and operations staff will find the skills covered in this course to often be sought after by modern-day, technology-oriented corporations.

Prerequisites

What You Will Learn

Designed around Arista's data-driven Cloud network architectures.