



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

COURSE OVERVIEW

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.

WHO WILL BENEFIT FROM THIS COURSE?

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.

WHAT WILL YOU LEARN IN THIS COURSE?

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

COURSE OUTLINE

Module 1: CloudVision

- Automation Concept Overview
- CloudVision Deployment Options
- Clusters
- Backup
- BugAlerts
- Device Communications
- Configlets
- Containers
- Tasks and Change Control
- Change Control Templates
- Zero Touch Provisioning ZTP
- Image Management
- Snapshots
- Rollback
- Labels & Tags
- CloudVision Telemetry
- Automation Implementation Overview



Module 2: Universal Cloud Networking -L3LS

- L2LS Review & Configuration
- Traditional DC Architecture
- Leaf-Spine Architectures
- Underlay and Overlay Design Options
- L2LS link & switch failure scenarios
- L2LS v L3LS
- Layer 3 Redundancy
- OSPF Review & Configuration
- IS-IS Overview, Areas & Addressing, & Routing
- BGP Introduction, Enabling & Peer Groups
- BGPv4

Module 3: Ethernet VPN

- Underlay Design Options
- EVPN Overview
- MP-BGP multitenant Control Plane
- EVPN Control Plane
- RT-2 & RT-3 Advertisements
- L3 VPNs and Type 5 Route Advertisements
- EVPN Data Plane
- IRB
- EVPN VXLAN Config Walkthrough of Asymmetric & Symmetric IRB
- Symmetric IRB – Indirect Routing
- IP-VRFs and Multi-Tenancy with Asymmetric & Symmetric IRB
- RT-4, RT-1 and Multi-Homing
- EVPN ESI Active/Active Multi-Homing
- Failure Scenarios
- EVPN Deployments
- Troubleshooting EVPN

Module 4: Virtualized Extensible VXLAN

- Recommended Practices
- First Hop Redundancy Protocols FHRP
- VXLAN Control Plane, Routing, Broadcasts, Multicast, Head End Replication HER, Operations, Configuration HER
- Troubleshooting VXLAN

Module 5: Multicast

- Overview and Protocols
- IGMPv2 Snooping Configuration
- MSDP Configuration
- Multicast with EVPN Control Plane
- EVPN Layer 2 Multicast
- EVPN Multicast OISM

- EVPN Multicast Underlay
- Redundancy Models
- PIM Edge Gateway

Module 6: QoS

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

Module 7: Security

- Macro Segmentation Security MSS-FW Overview
- Arista DANZ Monitoring Fabric DMF Overview
- Arista's Network Detection and Response NDR Overview

Module 8: Campus Architecture

- Pod Designs
- Spline Designs
- Arista WiFi
- WiFi Fundamentals
- WiFi 6
- Campus WiFi Security WIPS
- WiFi Design, WiFi Configuration
- Cognitive WiFi

Module 9: ECPN GW Super Spine & DCI

- GW L3 Model
- GW L2 Model
- L2/L3 over VXLAN Connectivity over VXLAN IP WAN

Labs

- CVP Navigation
- CVP Configlet Management
- CVP Configlet Builder
- CVP Snapshots
- Change Control
- CVP Dashboard Labs
- L2EVPN
- L3EVPN
- Multicast
- CVP Using Studios
- CVP Creating Studios

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