



# Arista Cloud Engineer, Level 3

ARISTA

ACE

Cloud Journeyman

L3



## SKILLS ACQUIRED

Equipping candidates with a range of skills essential for designing, managing, troubleshooting, and maintaining data center infrastructures. This includes common networking concepts such as QoS, BGP, and Multicast. Additionally, there is a focus on some of the newer data center centric technologies such as CVP, Universal Cloud Networking, MP-BGP, VXLAN and EVPN.

## WHO IS IT FOR?

ACEiL3 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 map to the needs of modern-day, technology-oriented corporations.



Beginner

Expert



## LAB TIME

This course includes hands-on virtual labs built on current versions of EOS and CloudVision.



3 weeks access to Labs



1 week  
Instructor Led



2 weeks  
Work on labs independently to refine skills

## COURSE OVERVIEW

ACEiL3 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), underlay/overlay networks, Ethernet Virtual Private Networks (EVPN), and Virtual Extensible LAN protocol (VXLAN). Additional topics include security, QoS, multicast, and Campus Architectures.

CloudVision

Ethernet VPN (EVPN)

Multicast

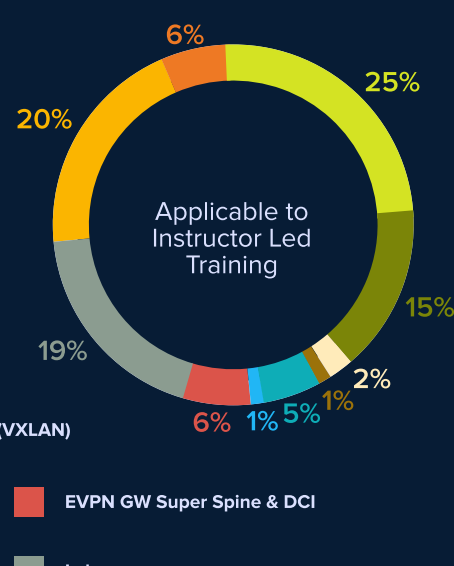
Security

Universal Cloud Networking - L3LS

Virtualized Extensible LAN (VXLAN)

Quality of Service (QoS)

Campus Architecture



### CloudVision

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

### Ethernet VPN (EVPN)

- Underlay Design Options
- EVPN Overview
- MP-BGP Overview
- VRF & VPN
- MP-BGP Multi-Tenant Control Plane
- EVPN Control Plane
- Route Type-2 and Route Type-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
- Route Type-4, Route Type-1 and Multi-Homing
- EVPN ESI Active/Active Multi-homing
- Failure Scenarios
- EVPN Deployments
- Troubleshooting EVPN

### 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

### 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

### Universal Cloud Networking - L3LS

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

### 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

### Quality of Service (QoS)

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

### Security

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

### Campus Architecture

- Pod Designs
- Spine Designs
- Arista WiFi
- WiFi Fundamentals
- WiFi 6
- Campus WiFi Security (WIPS)
- WiFi Design, WiFi Configuration
- Cognitive WiFi

### EVPN GW Super Spine & DCI

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

## MODALITIES

Our aim is to provide high quality training that is flexible and accessible for modern needs.



Instructor-led Training



Arista Academy  
PRO

## ADDITIONAL INFORMATION

Verification from an official Arista training partner is required to register and take an exam. Instructor-led and self-study options are available. Look for these badges prior to purchasing your training.

