Arista Cloud Engineer, Level 4

ARISTA
ACE
Cloud Professional
L4

SKILLS ACQUIRED

Focus on the Enterprise edge, Service Provider WAN and Large Enterprise Transport networks.

WHO IS IT FOR?

ACE:L4 is best suited for individuals with at least a mid-level network engineering background, and are comfortable with layer 2 and 3 architectures and concepts such as EVPN and MP-BGP. This course is suitable for candidates who are in, or would like to find, mid-to-senior level network engineer or operation positions related to enterprise edge networking.

Beginner — **Expert**

LAB TIME

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

3 Weeks

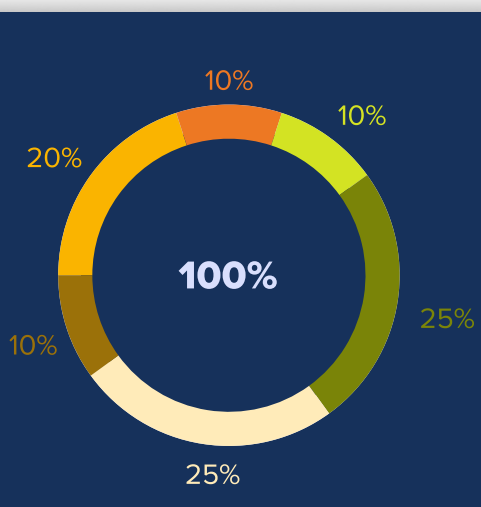
3 weeks access to Labs

1 week
Instructor Led

2 weeks
Work on labs independently to refine skills

COURSE OVERVIEW

ACE:L4 is a 5-day course that is focused on the Enterprise edge, Service Provider WAN and Large Enterprise Transport networks. Candidates will explore the advanced routing capabilities available within Arista hardware and EOS. Topics such as EVPN, MPLS and Segment Routing will be discussed in depth. All topics are taught from both command line and CloudVision perspectives, including provisioning, managing, troubleshooting, and optimizing.



- CloudVision
- MPLS Concepts
- Architecture and Services
- Transport Models
- Services Deep Dive
- Transport & Services Optimization

CloudVision

- What is CloudVision Portal (CVP)
- Automation Landscape
- CloudVision Deployment
- CVP Communication
- Zero Touch Provisioning
- Bug Alerts EOL Lifecycle
- Configlets
- Tasks and Change Control
- Snapshots
- Rollback
- Image Management
- Devices, Labels and Tags
- CloudVision Telemetry
- Using Studios

MPLS Concepts

- MPLS Today
- Migration Considerations
- Label Actions and Distribution Protocol
- Signaling
- Segment Routing
- MPLS Services
- MPLS Deployment Scenarios

Architecture and Services

- MPLS Transport
- Layer 2 and 3 VPN Services
- Point to Point Layer 2 Services
- Multipoint Layer 2 VPN Services

Transport Models

- MPLS Transport with Label Distribution Protocol (LDP)
- MPLS Transport with Segment Routing (SR)
- MPLS Transport SR Options: ISIS-SR, BGP-SR
- Traffic Engineering, RSVP Traffic Engineering (RSVP-TE), and Segment Routing Traffic Engineering (SR-TE)
- Segment Routing: IS-IS TE Configuration
- Segment Routing: TE Policy and Steering Traffic
- Using BGP to Bind MPLS Labels
- MPLS Feature Support Matrix

Services Deep Dive

- MP-BGP
- Virtual Routing & Forwarding (VRF)
- MP-BGP Label Advertisement
- L3VPN Control Plane Processing
- L3VPN Data Plane Processing
- E-Line with LDP Pseudowire
- E-Line with EVPN Virtual Private Wire Service (VPWS)
- E-Line with EVPN Type-2
- L3 EVPN

Transport & Services Optimization

- Nexthop Group
- User-defined Tunnel RIBs
- BGP Next-Hop Resolution RIBs
- Static Flow Aware Transport (FAT) Support on EVPN VPWS
- Traffic Steering and Service Mapping

MODALITIES

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

Instructor-led Training

Arista Academy
BASIC

Arista Academy
PRO