

Arista Cloud Engineer Level 1 - Cloud Novice (ACE: L1)

COURSE OVERVIEW

ACE: L1 is a 5-day course providing foundational networking knowledge and skills from a modern perspective in Arista's EOS networking environment. Candidates progress through networking fundamental topics ranging from Ethernet, TCP/IP, and Routing & Switching to network design, based on modern Leaf-Spine architecture used in today's Enterprise Data Center and Campus networks. Candidates are also introduced to network automation with Arista's CloudVision solution.

WHO WILL BENEFIT FROM THIS COURSE?

ACE: L1 is best suited for individuals entering the network engineering field and looking to acquire the essential knowledge and skills applied to modern network infrastructure. It's comprehensive coverage of general networking concepts and technologies lends itself to those new to the industry.

WHAT YOU WILL GET FROM THIS COURSE

Foundational networking knowledge and skills from a modern perspective in Arista's EOS networking environment.

COURSE OUTLINE

Module 1: Networking Engineering Fundamentals

- OSI Model
- TCP/IP Model
- Ethernet
- L2 vs L3 Switching
- Introduction to IPv6
- IPv6 Address Architecture
- IPv6 Address Types
- DHCP
- TCP & UDP
- Cabling and Connectivity

Module 2: Working with Arista EOS

- Arista Architecture Innovation
- EOS Design Principles
- Arista EOS Software Architecture
- Arista Hardware Approach
- EOS Resources
- Initial Boot-Up Operations
- Working with EOS Images
- Zero Touch Provisioning ZTP
- Command Line Interface CLI
- AAA



Module 3: Layer 2 Operations

- L2 Switching
- Layer 2 Redundancy
- Spanning-Tree Protocol (STP)
- VLANs and Trunks
- Multiple Spanning-tree (MST)
- STP Enhancements
- Link Aggregation
- MLAG
- First Hop Redundancy Protocol

Module 4: Layer 3 Operations

- Why Routing?
- Layer 3 Redundancy
- Routing Terminology
- Configuring OSPF
- VRF and VPN
- The Internet
- Wide Area Network WAN

Module 5: Data Center Leaf-Spine Architectures

- Data Center and Cloud
- Introduction to Leaf-Spine Architecture
- Virtualized Extensible LAN VXLAN
- VXLAN Data Plane Operations

Module 6: CloudVision

- Introduction to Arista CVP
- CloudVision Deployment Options
- CVP/Device Communication
- Containers & Configlets
- Tasks & Change Control
- Zero Touch Provisioning ZTP
- Initial Deployment
- EOS Image Management
- Snapshots/Rollbacks
- Telemetry

Labs

- Intro to EOS Command Line Interface CLI
- Setting up Management Connectivity to Arista Switches
- Understanding and Working with IP and ARP
- Configuring LACP & MLAG
- Routing
- Navigating CloudVision Portal
- Configlet Management
- Installing & Working with EOS & CloudVision
- Change Control

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- An enthusiastic student services team is available to answer any questions and ensure a quality training experience

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