Arista Cloud Engineer, Media & Entertainment Bootcamp

ARISTA
ACE
Specialist
Media & Entertainment

SKILLS ACQUIRED

Provides foundational networking knowledge and skills from a modern perspective in Arista's EOS networking environment for the candidates who will be designing and configuring scalable professional media networks based on modern Leaf-Spine architecture.

WHO IS IT FOR?

ACE:M&E Bootcamp is best suited for individuals who are looking to acquire the essential knowledge and skills to design and configure a modern resilient multimedia network infrastructure.

Beginner — Expert

LAB TIME

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

3 Weeks

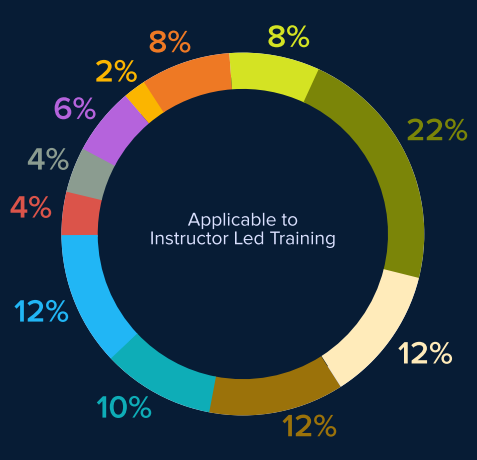
3 weeks access to Labs

1 week
Instructor Led

2 weeks
Work on labs independently to refine skills

COURSE OVERVIEW

ACE:M&E Bootcamp is a 5-day course providing foundational networking knowledge and skills from a modern perspective in Arista's EOS networking environment for the candidates who will be designing and configuring scalable professional media networks based on modern Leaf-Spine architecture. Candidates progress through networking fundamental topics ranging from Ethernet, TCP/IP, and Routing & Switching to M&E Specific Drivers, Multicast, and PTP.



- M&E Specific Drivers
- Network Engineering Fundamentals
- Working with Arista EOS
- CloudVision
- Layer 2 Operations
- Layer 3 Operations
- BGP
- Multicast
- Leaf-Spine DC Architecture
- Scalable IP Architecture
- Precision Time Protocol
- Labs

M&E Specific Drivers

- Media over IP

Network Engineering Fundamentals

- Open System Interconnect Model
- Ethernet, IPv4, TCP & UDP
- Hosts, Endpoints, Clients
- Modern Connectivity

Working with Arista EOS

- Design Principles, Software Architecture, Hardware, Resources
- Boot-up Operations
- EOS Images
- Zero Touch Provisioning (ZTP)
- Command Line Interface (CLI)
- ARP & DHCP
- Intro to IPv6
- First Hop Redundancy Protocols

CloudVision

- CloudVision
- Deployment
- Initial Arista Switch Behavior
- Configlets
- Tasks and Change Control
- Device Labels and Tags
- Real Time Telemetry for Day 2 Operations

Layer 2 Operations

- L2 Switching
- L2 Redundancy
- VLANs and PVST
- Interface Configuration
- STP Configuration & Enhancements
- Multiple Spanning Tree (MST)
- Link Aggregation
- MLAG

Layer 3 Operations

- Routing Fundamentals
- Layer 3 Redundancy
- Terminology
- Configuring OSPF
- VRF & VPN
- Internet
- Wide Area Network (WAN)

BGP

- BGP Introduction
- Enabling BGP
- BGP Peer Groups
- BGPv4 Routes
- Configuring Routes
- BGPv4 States and Messages
- BGPv4 Path Attributes
- BGP Communities
- BGP-Labeled Unicast (BGP-LU)
- L3LS Design with BGP
- L3LS BGP - Recommended Practices

Multicast

- Multicast Protocols
- IGMPv2 Snooping Configuration

Scalable IP Architecture

- Scalable IP Architecture for M&E

Leaf-Spine DC Architecture

- Data Center & Cloud
- Traditional Data Center Architecture
- Move to Leaf Spine Architecture
- Virtualized eXtensible LAN (VXLAN)
- VXLAN Data Plane Operations

Labs

- Lab Access
- OSI, MAC Addresses and IP Addresses
- Cabling & Interface Speed Configuration
- Installing and Working with EOS and CloudVision
- Intro to EOS Command Line Interface (CLI)
- CVP Introduction - Navigation
- CloudVision - Configlet Management
- Setting up Management Connectivity to Arista Switches
- Understanding and Working with IP and ARP
- Configuring Layer 2
- Configuring LACP and MLAG
- Configuring BGP
- Protocol Independent Multicast Sparse-mode

Precision Time Protocol

- Recommended Practices for Network Architecture
- Recommended Practices for PTP Configuration
- Recommended Practices for Commissioning and Operation

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.

ARISTA TRAINING PARTNER AUTHORIZED
ARISTA TRAINING PARTNER ELITE
ARISTA TRAINING PARTNER ELITEPLUS
ARISTA Training and Certification Official Curriculum