Arista Networking - Data Center Operations (DCOPS)

ID DCOPS **Price** CHF 4,995.—(excl. VAT) **Duration** 5 days

Who should attend

Senior network engineers & architects, network operations & advanced-level network administrators

This course is part of the following Certifications

ACE - Professional Data Center (AN-DC-PR)
ACE - Specialist Data Center Operations (AN-DC-OP)

Prerequisites

- Solid understanding of Layer 2 and 3 core network technologies and protocols
- Understanding of Spine/Leaf designs is a benefit

Course Objectives

At the end of the course, you should be able to:

- Understand the core features and architecture of Arista CloudVision and its role in network automation
- Navigate the CloudVision Portal (CVP) interface and manage profiles, configlets, and snapshots
- Provision network devices using containers, ZTP/ZTR workflows, and configuration templates
- Create and manage data center networks using CloudVision Studios, including L3LS and eVPN setups
- Monitor network performance, compliance, and events through dashboards and integrated tools
- Perform EOS upgrades, system troubleshooting, and leverage advanced monitoring features
- Use Advanced Event Management (AEM) to automate tasks and respond to network events

Course Content

CLOUDVISION OVERVIEW AND SETUP

CloudVision overview

- Why CloudVision
- Approaches to network automation
- Introduction to CloudVision
- Positioning CVP

CloudVision setup

- CVP Clustering
- CVP multi-node OVA installation
- CVaaS initial onboarding
- Upgrading
- Backup and restore
- Getting familiar with CVP interface
- Profiles
- Help center
- License key management
- LAB – Navigating CVP

CLOUDVISION PROVISIONING

Device registration

- Connecting devices
- Manual onboarding

Network provisioning

- Containers
- Configuration sources
- Designed and running config
- Configlets
- Tasks and change control
- Applying configlets to containers
- Reconcile
- LAB – Configlets
- Snapshots and staging
- Redesigned change control UI
- Rollback
- LAB – Snapshots
- LAB – Change Control
- Configlet builder
- LAB – Configlet builder
- Image repository

Zero touch provisioning

- Zero touch provisioning (ZTP)

- Deploying and onboarding vEOS to CVP using ZTP
- Zero touch replacement (ZTR)
- Replacing a device using ZTR

CLOUDVISION STUDIOS

Studios Overview

- Introduction to Studios and tags
- Workspaces
- Studio deployment and execution
- LAB – Using Studios
- LAB – Clean up Studios

Studios in action

- New Studios UI
- Static configuration Studio
- Management connectivity Studio
- Software management Studio
- Authentication Studio
- Mirroring Studio
- End to End provisioning with Studios
- Provision new devices with ZTP and Studios
- LAB – Static configuration Studio

Configuring L3LS DC Network with CVP Studios

- Configuring L3LS using Studios
- Configuring eVPN services, host interfaces and external networks using Studios
- LAB – Building L3LS, eVPN and MLAG with Studios
- LAB – Day 2 operations with Studios

MONITORING WITH CVP

Monitoring devices with CVP

- Compliance overview
- Device input power
- CloudVision and DMF integration
- 802.1x details in endpoint search

Dashboards

- Dashboards Enhancements
- Device connectivity health panel dashboard
- Compliance counts dashboard
- Syslog filters dashboard
- Dashboard tabs layout
- Exporting and importing dashboards

Events

- Events & Event groups
- Compliance events
- Config sanity check events
- PTP events
- LAB – Dashboards and events

TOPOLOGY

- Introduction to topology
- Topology icons and settings
- Custom topology hierarchies
- User defined topology filters
- PTP overlay in CVP topology
- LAB – Topology

EOS OPERATIONS, UPGRADES, MONITORING AND TROUBLESHOOTING

EOS reloads and upgrades

- Understanding EOS upgrades
- Standard upgrade vs. smart system upgrade
- Upgrading EOS with CLI
- Upgrading EOS with CVP
- MLAG ISSU upgrade and reload with CLI
- Chassis upgrade and reload
- MLAG upgrade and reload with CVP

EOS monitoring tools

- SNMP
- sFLOW
- Watch and Diff commands
- Latency Analyzer (LANZ)
- Port mirroring
- TapAgg

Advanced Event Management (AEM)

- AEM – CLI scheduler
- AEM – Event monitor
- AEM – Event manager
- LAB – AEM

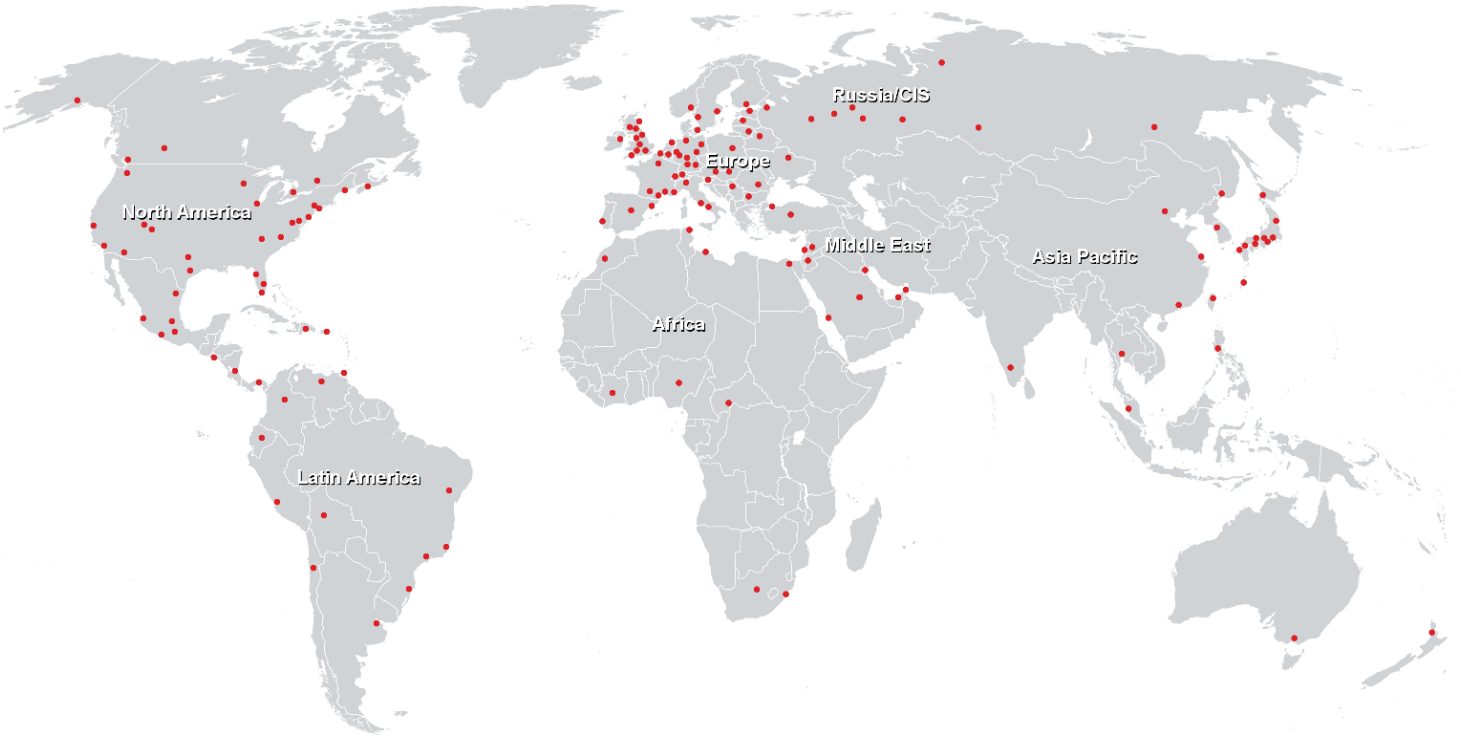
Troubleshooting EOS hardware and software

- System and software troubleshooting
- SFP and physical errors
- EOS health checks – CLI and CVP
- Hardware troubleshooting

- Memory and flash errors
- Tcpdump and Iperf
- Installing extensions
- Recovery procedures

Arista Networking - Data Center Operations (DCOPS)

Training Centres worldwide





Fast Lane Institute for Knowledge Transfer (Switzerland) AG

Husacherstrasse 3
CH-8304 Wallisellen
Tel. +41 44 832 50 80

info@flane.ch, https://www.flane.ch