

## 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 - L3 - Specialist Data Center Operations (ACE-L3-DCOPS)

### 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

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- 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

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- Recovery procedures

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### Training Centres worldwide



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