

Arista Networking - Data Center Operations (DCOPS)

ID DCOPS Prix sur demande Durée 5 jours

A qui s'adresse cette formation

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

Cette formation prépare à la/aux certifications

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

Pré-requis

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

Objectifs

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

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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)

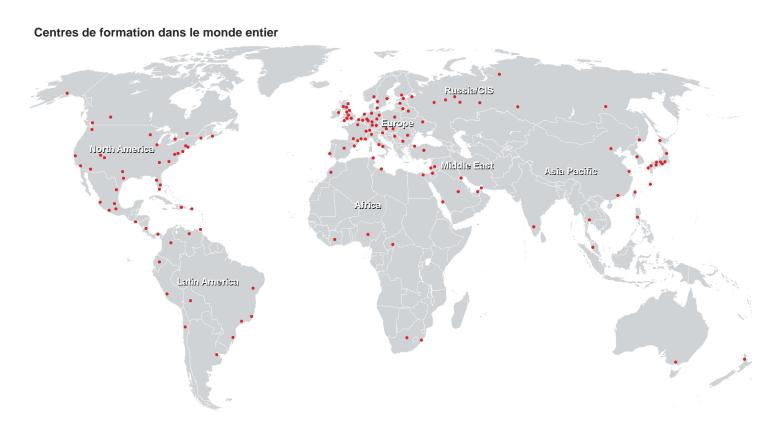
- AEM CLI scheduler
- AEM Event monitor
- AEM Event manager
- LAB AEM

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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