Arista Networking - Campus Operations (CAMPOPS)

ID CAMPOPS **Prix** CHF 4 995,– (Hors Taxe) **Durée** 5 jours

A qui s'adresse cette formation

Network engineers and administrators managing campus network infrastructure and responsible for troubleshooting and maintaining campus networks.

Cette formation prépare à la/aux certifications

ACE - Specialist Campus Operations Wired (AN-CA-OP)
ACE - Professional Campus (AN-CA-PR)

Pré-requis

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

Objectifs

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

- Explain the role and architecture of Arista CloudVision, including its automation approaches, deployment models, and operational benefits for campus networks.
- Install, configure, and maintain CloudVision Platform (CVP/CVaaS), including clustering, upgrades, backups, licensing, and day-to-day navigation.
- Provision and manage network devices using CloudVision, leveraging manual onboarding, containers, configlets, change control, snapshots, and rollback mechanisms.
- Deploy and operate Zero Touch Provisioning (ZTP and ZTR) to automate device onboarding, replacement, and lifecycle management.
- Use CloudVision Campus Studios to design and operate L2LS and L3LS campus networks, including VXLAN-EVPN environments, through structured workflows and workspaces.
- Perform Day 1 and Day 2 campus operations with CloudVision, such as onboarding, provisioning, diagnostics, configuration changes, and network expansion.
- Monitor, upgrade, and troubleshoot Arista EOS-based campus networks, using CloudVision dashboards, events, topology views, EOS upgrade mechanisms, and advanced troubleshooting tools.

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CAMPUS OPERATIONS WITH CLOUDVISION

CloudVision overview

- Why CloudVision
- Approaches to network automation
- Introduction to CloudVision
- CVP implementation options

CloudVision setup

- CVP clustering
- CVP Multi-node OVA installation
- CVaaS initial onboarding
- Upgrading CVP
- CVP backup and restore
- Getting familiar with CVP interface
- CVP profiles
- CVP help center
- License key management using CVP
- Lab – Navigating CVP

CLOUDVISION PROVISIONING

Device registration

- Connecting devices to CloudVision
- 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
- Image repository

Zero touch provisioning

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

CLOUDVISION CAMPUS 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 configuring Studio
- Management connectivity Studio
- Software management Studio
- Authentication Studio
- Mirroring Studio
- Provisioning new devices with ZTP and Studios
- Lab – Static configuration Studio

Operating L2LS Campus network with CVP Studios

- Onboarding devices to Studios
- Configure L2LS network using Studios
- Configure access interfaces
- Submit workspace and execute change control
- Managing L2LS campus gateway connectivity with Studios
- Add a new VLAN to L2LS campus
- Modifying VLAN settings in L2LS campus
- Connecting new host to L2LS campus
- Lab – Deploying L2 Campus with Studios

Campus Zero Touch operations

- CloudVision Campus dashboard overview
- CloudVision Campus Day 1 – Onboarding
- CloudVision Campus Day 2 – Provisioning and Diagnostics
- CloudVision endpoint analyzer
- Lab – Day 2 operations with L2 Campus Studios

Operating L3LS Campus network with CVP Studios

- Configuring L3LS Campus with CVP Studios
- Configuring L2LS Campus with VXLAN and eVPN using Studios
- Adding new access pods to L3LS Campus
- Adding new spines to L3LS Campus
- Adding new VRFs to L3LS Campus
- Add new VLANs to L3LS Campus
- Modifying VRF and VLAN settings for L3LS Campus
- Changing underlay protocol in L3LS Campus
- Connecting new hosts to L3LS Campus
- Lab – Deploying L3LS Campus with VXLAN and eVPN using Studios
- Lab – Day 2 operations with L3 Campus Studios

MONITORING CAMPUS WITH CVP

Monitoring devices with CVP

- Network hierarchy
- Compliance overview
- Device input power
- 802.1x details in endpoint search
- Lab – Monitoring Campus with network hierarchy

Dashboards

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

Events

- Events overview
- Event groups
- Compliance events
- Config sanity check events
- Lab – Dashboards and Events

Topology

- Introduction to topology
- Topology icons and settings
- Custom topology hierarchies
- User defined topology filters
- Lab - Topology

EOS OPERATIONS UPGRADES

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

Advanced Event Management (AEM)

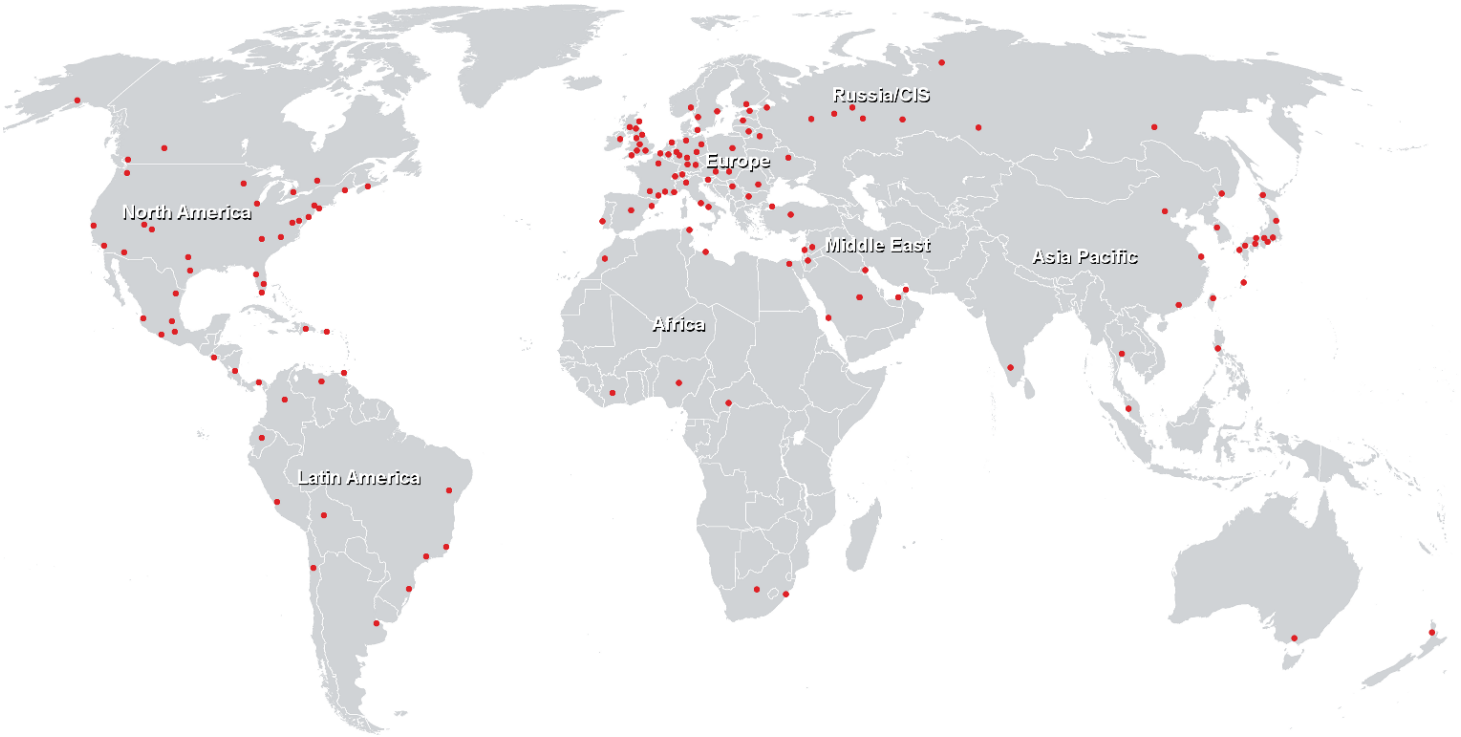
- AEM – CLI scheduler
- AEM – Event monitor
- AEM – Event manager
- Lab - AEM

Troubleshooting EOS hardware and software

- System and software troubleshooting
- SFP and physical errors
- Arista EOS health checks – CLI and CVP
- Hardware troubleshooting
- Memory and flash errors
- Tcpdump and Iperf
- Installing extensions
- Recovery procedures

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Centres de formation dans le monde entier





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