

Arista Cloud Engineer, AVD Specialist

ARISTA

ACE Specialist

AVD



SKILLS ACQUIRED

Candidates will learn how to design, build, deploy, and validate various types of network architectures utilizing Arista Validated Design with Ansible.

WHO IS IT FOR?

ACE:AVD Specialist course is best suited for senior network engineers, architects, and operators looking to learn the Arista AVD open source automation tool. Candidates should have a good foundation in networking and basic understanding of automation concepts.



Beginner Expert



LAB TIME

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



3 Weeks access to Labs



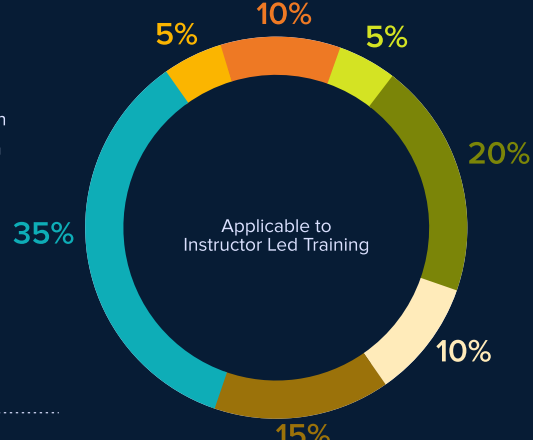
2 Days Instructor Led



2.5 Weeks Work on labs independently to refine skills

COURSE OVERVIEW

ACE:AVD Specialist is a 2-day course to increase proficiency both conceptually and operationally for the deployment, operation, and management of various Arista EOS based networks using the open source tool, Arista Validated Designs (AVD). Arista AVD uses Arista best practices to generate configurations for various types of topologies, including Layer 2 Leaf/Spine, Layer 3 Leaf/Spine with EVPN/VXLAN, and MPLS. Candidates will learn how to build data models, deploy configurations through CVP, and perform post-deployment validations using the AVD validation tools.



- Introduction to Arista Validated Design
- Automation Concepts
- Automation Tools
- Introduction to Ansible
- Building L3LS+EVPN/VXLAN Topology
- Labs
- Using Ansible with CVP
- Using Arista AVD

<h4>Introduction to Arista Validated Design</h4> <ul style="list-style-type: none"> • What is AVD? • AVD in Operation • Automation Landscape 	<h4>Automation Concepts</h4> <ul style="list-style-type: none"> • Single Source of Truth • Data Models • CI/CD
<h4>Automation Tools</h4> <ul style="list-style-type: none"> • IDE • YAML 	<h4>Introduction to Ansible</h4> <ul style="list-style-type: none"> • Components of Ansible • Control nodes, controlled nodes, access • Ansible Inventory • Playbooks, plays, tasks • Ansible Collections • Arista Collections (arista.eos, arista.cvp, arista.avd)
<h4>Using Ansible with CVP</h4> <ul style="list-style-type: none"> • Ansible arista.cvp collection • Uploading Configlets • Creating Container Topology • Assigning configlets to devices 	<h4>Using Arista AVD</h4> <ul style="list-style-type: none"> • AVD Components (inventory, data models, Ansible roles) • AVD Workflow • AVD Playbooks
<h4>Building L3LS+EVPN/VXLAN Topology</h4> <ul style="list-style-type: none"> • Topology Types (L2LS, L3LS+EVPN, MPLS) • Topology Roles (spine, L3leaf, L2leaf, super-spine) • EVPN Services (Logical Configuration) • Endpoint Connectivity • Data Models for Topology • Data Models for EVPN services • Data Models for Endpoint Connectivity • Building Single DC, Single Pod • Building Multi DC • Building Multi Pod • Connecting EVPN Tenants to the outside world • Building Custom Configuration 	<h4>Labs</h4> <ul style="list-style-type: none"> • Exploring IDE • Reset Lab Environment • Setting Up Arista AVD • Adding a Second Network and Host • Validate Configuration • Connect to Outside Network • Adding Spine4

MODALITIES

Our aim is to provide high quality training that is flexible and accessible for modern needs.

Instructor-led Training



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.

