



Arista Academy Automation Advanced Track

COURSE OVERVIEW

Arista Automation increases proficiency both conceptually and operationally for the deployment, operation, and management of various Arista EOS based networks using several tools such as CloudVision, Python with EOS API's and the open-source Arista AVD (Architect, Validate, Deploy). Arista AVD uses Arista best practices to generate configurations for various types of environments and 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 Arista CloudVision, and perform post-deployment validations using the AVD validation tools.

WHO WILL BENEFIT FROM THIS COURSE?

Individuals with mid-to-high level experience as network engineers with prior exposure to Python and Ansible Basics.

PREREQUISITES

- Knowledge and/or experience with Ansible, Python and Jinja would be beneficial
- Understanding of Arista Layer 2 and L3 network designs
- Experience with Arista CloudVision is beneficial

COURSE OBJECTIVES

- Learn basics of automation using CloudVision, Ansible and Python
- Automating EOS and CloudVision with Ansible
- Automate through various methods such as Python & EOS API's, AVD with GitHub, and PyAVD (AVD with Python)
- Integrate Arista's CloudVision to automate and orchestrate network operations

COURSE OUTLINE

Network automation with Python

- EOS automation with Python
 - Introduction to eAPI
 - Enabling eAPI on Arista devices
 - Command API overview – eAPI explorer
 - On-box automation
 - Off-box automation with Python
 - Getting information from EOS with Python requests
 - Pushing config to EOS with Python requests
 - Saving running config with Python requests
 - Replacing running config with Python requests



- Using JSONRPC LIB with Arista EOS
- Introducing PyeRPI
- Getting information with PyeAPI
- Automating VLAN configuration with PyeAPI
- Backup configuration with PyeAPI
- LAB – Working with command API
- LAB – Automating EOS with Python
- CloudVision automation with Python
 - CloudVision APIs overview
 - CloudVision REST API overview
 - Automating CloudVision with CVPRAC
 - gRPC overview
 - Why CloudVision uses resource APIs
 - Resource API explorer
 - Using grpcurl with CloudVision
 - Automating CloudVision with gRPC
 - Querying events with gRPC
 - Subscribe to events with gRPC
 - LAB – Explore and use CloudVision APIs
 - LAB – Automating CloudVision with Python

WHY TRAIN WITH SUNSET LEARNING INSTITUTE?

Sunset Learning Institute (SLI) has been an innovative leader in developing and delivering authorized technical training since 1996. Our goal is to help our customers optimize their technology Investments by providing convenient, high quality technical training that our customers can rely on. We empower students to master their desired technologies for their unique environments.

What sets SLI apart is not only our immense selection of trainings options, but our convenient and consistent delivery system. No matter how complex your environment is or where you are located, SLI is sure to have a training solution that you can count on!

Premiere World Class Instruction Team

- All SLI instructors have a four-year technical degree, instructor level certifications and field consulting work experience
- Sunset Learning has won numerous Instructor Excellence and Instructor Quality Distinction awards since 2012

Enhanced Learning Experience

- The goal of our instructors during class is ensure students understand the material, guide them through our labs and encourage questions and interactive discussions.

Convenient and Reliable Training Experience

- You have the option to attend classes live with the instructor, at any of our established training facilities, or from the convenience of your home or office
- All Sunset Learning Institute classes are guaranteed to run – you can count on us to deliver the training you need when you need it!

Outstanding Customer Service

- You will work with a dedicated account manager to suggest the optimal learning path for you and/or your team
- An enthusiastic student services team is available to answer any questions and ensure a quality training experience

Interested in Private Group Training?

[Contact Us](#)