



Arista Programming Essentials

APE Training

Class Description

Everyone in networking should learn to program, but they don't necessarily need to be a developer. This course is designed to get networking people up to speed on Python, with a focus on Arista's eAPI, so that they can write useful automation scripts in a short period of time.

This is an intensive course that aims to get students writing Python code in order to use eAPI to automate Arista switches. Code that they can actually use in the real world. The class is filled with hands-on labs writing scripts that the students will be able to take home with them. This is not a "go to college to learn everything about Python so I can be a developer" class. This is a "Give me a two-day cram-session so that I can write some scripts for my Arista switches" class.

Written and taught by Gary A. Donahue (author of Network Warrior and Arista Warrior as well as Lead Trainer at Arista), this class will give you just the edge you need in the modern world of network automation.

Syllabus

Python

- Python Overview
- Data Types
- User Input and Time
- Pretty Python
- Program Flow
- Functions, Modules, and Packages
- File I/O
- Exception Handling
- Miscellaneous Topics
- Example Screen Scraping

eAPI

- Understanding eAPI
- Using eAPI
- pyeapi

RPM and SWIX

EOS SDK

Who Should Take This Class?

Network engineers, network operators, and network administrators who are interested in understanding the programming behind Arista switches.

Prerequisites and Preparation

A basic knowledge of programming in any language (yes, even BASIC) is required, no matter how long ago you learned it. As a test, students must understand the following question:

Q. Given the following statement, in almost any programming language, what will be the value of the variable b? `a = b = c = 'Arista'`

A. The answer is 'Arista' because statements are evaluated from right to left, so the following is what happens:

- c is assigned the value 'Arista'
(A literal string)
- b is assigned the value contained in c ('Arista')
- a is assigned the value contained in b ('Arista')

This simple flow of logic is not covered in the class because it is a basic programming concept. If this seems confusing, you may be better served taking an introduction to programming class before attempting this class.

How to Register

- Please contact training@arista.com, or visit solutions.arista.com/ape-training

For the Start of Class:

Please bring the following:

- Please bring a pad and pen, as well as a laptop (Mac or Windows)
- Dress to be comfortable. Only registered attendees can enter the

building, so bring a valid government ID.

- Lunch is not provided; however, the class will take a break for attendees to have lunch.
- Class policy on cancellations: refunds will be given only until 15-days before the event; inside of 15-days every effort will be made to accommodate the changing needs of attendees—based on the ability to find replacements—inside of 15-days your company will be charged for not attending.