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Sign up

Arista Networking Training: Foundations

5 days (35 hours)

Overview

The Arista Technology Foundations training provides the essential knowledge and skills to configure, operate, and troubleshoot basic Arista network deployments. Participants will learn the fundamentals of Layer 2 and Layer 3 switching and routing, the basics of network security, and essential IPv6 concepts.

The course also introduces network automation with CloudVision. Arista virtual labs reinforce key concepts through hands-on practice in a simulated environment.

Like all our training courses, this one will introduce you to **the latest stable version** of the technology and its new features.

Objectives

- Understand fundamental network technologies and protocols
- Access Arista EOS and CloudVision
- Navigate and configure the environment via the command-line interface (CLI)
- Implement Layer 2 and Layer 3 switching and routing techniques

Target Audience

- Entry-level or new network engineers in network administration and/or support roles.

Prerequisites

- Knowledge of TCP/IP networking and an understanding of the basic concepts of Layers 2 and 3 of the network model are helpful but not required.

Technical Prerequisites

- 16 GB recommended (8 GB minimum for lightweight topologies)

OUR TRAINING PROGRAM Arista Networking: Foundations

[Day 1 - Morning]

Introduction to Networking

- Discover the basic principles of networking
- Identify network models
- Understand the OSI model in practice
- Using Wireshark and TCP/IP

[Day 1 - Afternoon]

Physical Layer

- Understand how copper and PoE work
- Identify fiber optic and wireless technologies

Data Link Layer

- Explain Ethernet and MAC addresses
- Describe learning and forwarding on Layer 2 equipment

[Day 2 -

Morning]

Network Layer

- Understand the basics of IPv4
- Identify the role of the subnet mask
- Distinguish between IPv4 classes
- Determine default gateways
- Create a subnet addressing plan

[Day 2 - Afternoon]

Network Protocols

- Explore DHCP, ICMP, DNS, ARP, and NTP protocols

Transport and application layers

- Describe the responsibilities of the transport layer
- Distinguish between TCP and UDP

[Day 3 - Morning]

Introduction to EOS

- Understanding network consistency with EOS
- Discover Arista EOS
- Define SysDB
- Understanding NetDB
- Exploring the EOS Network Data Lake (NetDL)
- Identifying Arista cEOS
- Ensuring Quality with Arista EOS

[Day 3 - Afternoon] Getting

Started with EOS

- Connecting to Network Devices
- Understanding the EOS Boot Process
- Navigating CLI Configuration Modes
- Performing basic configurations via the CLI
- Configuring interfaces and ports
- Managing configuration checkpoints
- Managing configuration sessions
- LAB – Introduction to the EOS CLI
- LAB – Configuring management connectivity

Neighbor Discovery

- Understanding the principle of neighbor discovery
- Creating a Network Map with LLDP
- LAB – Creating a Network Diagram with LLDP

[Day 4 - Morning]

Virtual Local Area Networks (VLANs)

- Understanding how VLANs work
- Exploring 802.1q trunking protocols
- Configuring VLANs on a single switch
- Configuring VLANs across multiple switches
- Implementing inter-VLAN routing
- Configuring a “router-on-a-stick”
- Configuring inter-VLAN routing with SVIs
- LAB – Configuring VLANs
- LAB – Configuring inter-VLAN routing

[Day 4 - Afternoon]

Spanning Tree Protocol (STP)

- Understanding the principle of Spanning Tree
- Understand how STP works
- Distinguish between STP port states
- Identify the different STP modes
- LAB – Configure STP

Link aggregation protocols

- Understand link aggregation
- Configuring link aggregation
- Discover the MLAG protocol
- LAB – Configuring LACP and MLAG

[Day 5 - Morning]

Introduction to Routers

- Designing a network with routers
- LAB – Configuring L3 addresses

[Day 5 - Afternoon] Routing

- Understanding the Role of Routing
- Implementing static routing
- LAB – Configuring static routing

- Discover dynamic routing
- Distinguish between classful and classless routing protocols
- Understanding metrics and administrative distance
- Implement distance-vector protocols (RIP)
- Compare RIPv1 and RIPv2
- Understand link-state routing
- LAB – Configure routing protocols

Internet and Wide Area Network (WAN)

- Understand how WANs work
- Implementing Network Address Translation (NAT)

Target Audience

This training is intended for both individuals and companies, large or small, seeking to train their teams in new advanced IT technologies or to acquire specific professional knowledge or modern methods.

Assessment upon enrollment

The pre-training assessment complies with Qualiopi quality standards. Upon final registration, the learner receives a self-assessment questionnaire that allows us to evaluate their estimated proficiency in various types of technologies, as well as their expectations and personal goals regarding the upcoming training, within the limits imposed by the selected format. This questionnaire also allows us to anticipate certain connection or internal security issues within the company (intra-company or virtual classroom) that could pose challenges for monitoring and ensuring the smooth running of the training session.

Teaching Methods

Practical Course: 60% Practical, 40% Theory. Training materials distributed in digital format to all participants.

Organization

The course alternates between theoretical input from the trainer, supported by examples and reflection sessions, and group work.

Assessment

At the end of the session, a multiple-choice questionnaire is used to verify that the skills have been properly acquired.

Certification

A certificate will be issued to each trainee who has completed the entire training program.