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Sign up

Aruba Networking Solutions (GEAIANS) Training

3 days (21 hours)

This training course offers a straightforward introduction to the world of computer networks. It is designed for students new to technology and/or higher education students. This introductory course covers various aspects of campus network access, including both wireless and wired solutions. Upon completion of this training, participants will be prepared to take the Aruba Certified Network Technician (ACNT) certification exam.

This training program provides a comprehensive introduction to the fundamentals of computer networking, with a particular focus on Aruba enterprise solutions. It is designed to transform a beginner into a technician capable of understanding, configuring, and troubleshooting modern network infrastructures.

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

Objectives

- Perform digital conversions
- Analyze packets
- Perform initial switch configuration
- Configure VLANs and the 802.1Q protocol
- Configure IPv4 routing
- Deploy a wireless local area network (WLAN)
- Monitor a WLAN and a wireless client

Target Audience

- Anyone interested in learning more about computer networks

Prerequisites

- No prerequisites.

TRAINING CURRICULUM Aruba Products and Solutions (WSALES)

[Day 1 - Morning] Network

Fundamentals

- Basic network concepts
- What is a computer network?
- Network classifications
- What is a protocol?
- OSI Reference Model
- Encapsulation / Layer headers / PDU
- Physical media, cables
- Binary number system
- Hexadecimal number system

[Day 1 - Afternoon]

TCP-IP

- Overview, including how a collaboration tool (Zoom, Teams) works from a network perspective.
- TCP/IP stack
- Ethernet, Ethernet frame
- IPv4 header
- TCP header – connection establishment (three-way handshake), sequence numbers, port numbers
- UDP header
- Network equipment – Switches, routers, layer-switches, access points (APs), firewalls, and servers
- Network services – DHCP, DNS, HTTP, Telnet and SSH, FTP

[Day 2 - Morning]

Basic Networking with Aruba Solutions

- Network design
- Hierarchical Models
- Aruba Switch Portfolio
- Modern Switching Requirements
- AOS-CX Features and Commands

[Day 2 - Afternoon]

VLANs

- Collision Domain
- Broadcast Domain
- Virtual LAN (VLAN)
- Access Ports
- 802.1Q and Trunk Ports
- Forwarding tables (MAC and ARP)
- Frame forwarding

IPv4 routing

- IPv4 addressing
- Subnet mask
- Introduction to Routing
- Default gateway
- Inter-VLAN Routing
- IP routing table
- Packet Delivery

[Day 3 - Morning]

Introduction to WLAN

- Network Comparison: Wired vs. Wireless
- WLAN Organizations
- Radio Frequency Communications (Antenna Types, 802.11 Standards, and Sources of Interference)
- Data Rates

[Day 3 - Afternoon]

WLAN Theory

- Terminology
- Roaming
- WLAN architecture
- Coverage
- WLAN Security

Target Audience

This training is designed for both individuals and companies, large or small,

wishing to train their teams in new advanced IT technology or to acquire specific professional knowledge or modern methods.

Assessment at the start of the training

The assessment conducted at the start of the training program complies with Qualiopi quality standards. Upon final registration, the learner receives a self-assessment questionnaire that allows us to evaluate their estimated proficiency with various types of technology, as well as their expectations and personal goals for 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.