Aruba Network Security Fundamentals, Rev. 20.41

Course description

The Aruba Network Security Fundamentals course covers foundational security concepts and prepares candidates to take the exam to achieve Aruba Certified Networking Security Associate (ACNSA) certification. The course describes common security threats and vulnerabilities and provides an overview of important security technologies. It teaches how to create a trusted network infrastructure with Aruba mobility solutions and switches. In addition to discussing device hardening, the course discusses implementing security at the edge with AAA, basic roles and firewall policies, dynamic segmentation, and endpoint classification. The course will further explain basic threat detection technologies and how to collect logs and alarms and use them to initiate an investigation.

Course ID	01128122
Course format, Typical duration	**Select one:**VILT – Virtual Instructor Led, 4 days ILT – Instructor Led, 4 days WBT – Web Based, Self Paced, 4 days
Skill level	Foundational (FND)
Delivery languages	English
Lab required	Yes

Register for this course.
Find this course offering in the Training calendar. Click "Register" to take the course in The Learning Center. Login and Password required.

Ideal candidate for this course

A network or help desk engineer working in a customer or partner environment that has six months to a year of experience in networking. In both wired and wireless environments.

Topics

- **Security Threats and Aruba Security Strategy**
  - Threats Overview
  - Attack Stages
  - Aruba Security Strategy
- **Security Technologies**
  - Regulatory Compliance
  - Secure Communications: Symmetric Encryption and Hash-Based Authentication
  - Secure Communications: Asymmetric Encryption and Digital Certificates
  - Secure Communications: TLS
  - Authentication, Authorization, Accounting (AAA)
- **Harden Aruba Switches**
  - Hardening Overview
  - Set Up Out-of-Band Management
  - Authenticate Managers Securely
  - Ensure Physical Security and Other Hardening Actions
- **Harden ArubaOS Wireless Devices**
  - Lock Down Administrative Access
  - Lock Down Services
  - Use CPSec
- **Enhance LAN Security**
  - Spanning Tree Protections
  - DHCP Snooping and ARP Protection
  - Secure Routing Technologies

- **Network Authentication Technologies**
  - Network Authentication
  - WLAN Security—Encryption + Authentication

- **Enforce Edge Security with an Aruba Infrastructure**
  - Enforce WPA3-Enterprise
  - Enforce 802.1X on the Wired Network

- **Enforce Role-Based Authentication and Access Control**
  - Aruba Role-Based Firewall Policies
  - Dynamic Segmentation

- **Identify and Classify Endpoints**
  - Endpoint Classification Introduction
  - DHCP Fingerprinting with ArubaOS Mobility Devices
  - Aruba ClearPass Policy Manager Device Profiler
  - ClearPass Device Insight

- **Branch Security**
  - Introduction to Aruba SD-Branch Solutions

- **Implement Threat Detection and Forensics**
  - Understand Forensics
  - Analyze ArubaOS WIP Events

- **Troubleshoot and Monitor**
  - Introduction to Troubleshooting Authentication Issues
  - Using ClearPass Tools to Troubleshoot Some Common Issues
  - Packet Captures
  - Monitoring

Objectives

After you successfully complete this course, expect to be able to:

1. Protect and Defend
   - Define security terminology
   - Harden devices
   - Secure a WLAN
   - Secure a wired LAN
   - Secure the WAN
   - Classify endpoints

2. Analyze
   - Threat detection
   - Troubleshooting
   - Endpoint classification

3. Investigate
   - Forensics

How to register

Click on this link to register for this course: https://certification-learning.hpe.com/tr/TrainingCalendar?excludePartners=false&CourseId=01128122

Policies, fees and cancellations

Course fees may vary. Fees are established and collected by the training center that delivers the course. Cancellation fees may apply.

Contact your HPE Authorized Training Partner for their respective policies.

For more information

Contact our program

Information is as of November 2021, Revision 4