

Configuring Mobility with AOS-8

Level 1, Rev 23.22

Course description

This course teaches the knowledge, skills and practical experience required to set up and configure a basic HPE Aruba Networking WLAN utilizing the AOS-8 architecture and features. Using lecture and labs, this course provides the technical understanding and hands-on experience of configuring a single Mobility Conductor with one controller and AP HPE Aruba Networking hardware and AOS-8 to install and build a complete, secure controller network with multiple SSIDs.

Ideal candidate for this course

Typical candidates for this course are IT Professionals who deploy small-to-medium scale enterprise network solutions based on HPE Aruba Networking products and technologies.

Topics

- **WLAN Fundamentals**
 - Describes the fundamentals of 802.11, RF frequencies and channels
 - Explain RF Patterns and coverage including SNR
 - Roaming Standards and QOS requirements
- **Mobile First Architecture**
 - An introduction to HPE Aruba Networking products, including controller types and modes
 - AOS-8 architecture and features
 - License types and distribution
- **Mobility Conductor Mobility Controller Configuration**
 - Understanding Groups and Subgroups
 - Different methods to join Mobility Controller with Mobility Conductor
 - Understanding Hierarchical Configuration
- **Secure WLAN configuration**
 - Identifying WLAN requirements such as SSID name, encryption, authentication
 - Explain AP groups structure and profiles
 - Configuration of WLAN using the Mobility Conductor GUI
- **AP Provisioning**
 - Describes the communication between AP and mobility controller
 - Explain the AP booting sequence and requirements
 - Explores the AP's controller discovery mechanisms
 - Explains how to secure AP to controller communication using CPSC
 - Describes AP provisioning and operations
- **WLAN Security**
 - Describes the 802.11 discovery, authentication and association

Course ID	0001202564
Course format, Typical duration	Select one: ILT - Instructor Led, 3 days VILT - Virtual Instructor Led, 3 days WBT - Web Based, Self Paced, 3 days
Skill level	Foundational (FND)
Delivery languages	English
Lab required	No

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- Explores the various authentication methods, 802.1x with WPA/WPA2, and MAC auth
- Describes the authentication server communication
- Explains symmetric vs asymmetric keys, and encryption methods
- WIPS is described along with rogue discovery and protection
- **Firewall Roles and Policies**
 - An introduction into Firewall Roles and policies
 - Explains HPE Aruba Networking's Identity based firewall
 - Configuration of policies and rules including aliases
 - Explains how to assign roles to users
- **Dynamic RF Management**
 - Explain how ARM calibrates the network selecting channels and power settings
 - Explores AOS-8 Airmatch to calibrate the network
 - How Client Match and Client Insight match steers clients to better APs
- **Guest Access**
 - Introduces HPE's solutions for guest access and the captive portal process
 - Configuration of secure guest access using the internal captive portal
 - The configuration of captive portal using ClearPass and its benefits
 - Creating a guest provisioning account
 - Troubleshooting guest access
- **Network Monitoring and Troubleshooting**
 - Using the Mobility Conductor dashboard to monitor and diagnose client, WLAN, and AP issues
 - Traffic analysis using APPrf with filtering capabilities
 - A view of AirWave's capabilities for monitoring and diagnosing client, WLAN and AP issues

Objectives

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

- Explain how HPE Aruba Networking's wireless networking solutions meet customers' requirements
- Explain fundamental WLAN technologies, RF concepts, and 802.11 standards
- Learn to configure the Mobility Conductor and Mobility Controller to control access to the Employee and Guest WLANs
- Control secure access to the WLAN using HPE Aruba Networking firewall policies and roles
- Recognize and explain radio frequency bands and channels, and the standards used to regulate them
- Describe the concept of radio frequency coverage and interference and successful implementation and diagnosis of WLAN systems
- Identify and differentiate antenna technology options to ensure optimal coverage in various deployment scenarios
- Describe RF power technology including, signal strength, how it is measured, and why it is critical in designing wireless networks
- Learn to configure and optimize HPE Aruba Networking ARM and Client Match and Client Insight features
- Learn how to perform network monitoring functions and troubleshooting

How to register

Click on this link to register for this course: <https://certification-learning.hpe.com/tr/TrainingCalendar?excludePartners=false&CourseId=0001202564>

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

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