Configuring Aruba Instant AP, Rev. 19.21

Course description

The lab-intensive Aruba Instant AP course is designed to provide students the knowledge, skills and practical experience required to set up and configure an IAP cluster with WLAN. Using lecture and labs, the class provides the technical understanding and hands-on experience of configuring a cluster of IAPs, with 802.1X, Captive portal WLANs, and Firewall settings. The class will also provide IAP and user troubleshooting skills. Other topics covered are advanced services such as ARM, Mesh setup, VPN to a controller, Roaming between clusters, and IDS/IPS. This IAP class can be coupled with an Airwave or Central class for management and configuration purposes.

Course ID	01125486
Course format, Typical duration	**Select one:** VILT - Virtual Instructor Led, 3 days ILT - Instructor Led, 3 days
Skill level	Foundational (FND)
Delivery languages	English
Lab required	No
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

This course is ideal for technical personnel who want to deep-dive into Aruba Instant Access Points.

Topics

- **IAP Introduction**
  - Description and features
  - IAP clusters
  - VC election
  - Country codes
  - GUI interface
  - Initial setup
  - Dynamic instalation

- **WLAN configuration**
  - Wlan wizard
  - Wlan Vlan selection
  - Wlan authentication
  - Instant SSID
  - Zones

- **Captive Portal**
  - Configuring Captive portal
  - VLAN assignment and Guest Roles
  - CP Page
  - Splash page
  - External CP

- **Firewall**
  - Access Rules
  - Unrestricted, network based Role based Rules
  - Extended actions
  - Role Derivation

- **Airgroup**
  - Airgroup features
  - Configuration of Airgroup in an IAP cluster
  - Airgroup between Clusters
  - Monitoring Airgroups

- **User Troubleshooting**
  - Client GUI page
  - Client view
  - Support commands
  - IAP logs
  - IAP GUI view
  - IAP Network View (WLAN)
  - Spectrum Analysis
  - AppRF

- **ARM**
  - Introduction
  - Scanning
  - Indices
  - Band steering
  - Airtime Fairness
  - Client match
  - RF Neighborhood
  - Support Commands

- **Mesh, Uplinks and wired access**
  - Mesh Setup
  - Outdoor mesh
  - Wired access Options and configuration
  - Uplink Options and Configuration

- **Roaming**
  - Roaming within a cluster
  - HAP table
  - Roaming between clusters
  - Roaming back home
  - Roaming load balancing

- **VPN**
  - VPN deployments
  - VPN tunneling
  - Controller IAP VPN configuration
  - DHCP L2 Options (L2 Distributed, Centralized)
  - DHCP L3 Options (L3 Distributed, Centralized)
  - VPN troubleshooting

- **IDS/IPS**
  - Classification
  - Attacks
  - Rogue Detection
  - Containment
  - IDS monitoring and commands

- **Administrative Tasks**
  - Backup and Restore
  - Configuration Reset and IAP reset
  - Converting IAP to RAP / CAP Admin User Roles
  - Certification
  - Centralized Management Options

Objectives

After you successfully complete this course, expect to be able to:
- Be familiar with IAP types
- Describe how to form an IAP cluster
- Be familiar with different installation methods

- Connect, reset and set up an IAP (including VC)
- Be familiar with types of WLAN settings
- Describe methods for assigning a VLAN to a WLAN
- Describe security options
- Describe how to set up zones
- Configure authentication & security and set up an IAP/ WLAN in a zone
- Be familiar with various captive portal options
- Know how to configure internal and external captive portal pages
- Be familiar with types or Roles and Rules that you can set up.
- Describe options for Role derivation
- Describe limitations that can be applied to IAP uplink ports
- Summarize features/ advantages IAPs provide in an AirGroup
- Configure AirGroup settings
- Use AirGroup Dashboard to monitor servers
- Be familiar with the dashboard and its monitoring capabilities
- View support commands that can be issued
- Invoke spectrum analysis to view spectrum
- Look at application used by clients on network
- Be familiar with ARM functions and features
- Describe Client Match features
- Describe RF Optimization methods for improving network performance
- Be familiar with the mesh options and mesh monitoring commands.
- Describe how to configure an IAP's wired port for connectivity
- Describe how to manage Uplink Options
- Be familiar with roaming clients in an L2/L3 environment
- Client roaming in a L2 and L3 environment
- Be familiar with IAP VPN setup
- Learn the configuration steps for the MC and IAP
- Examine the troubleshooting commands
- Be familiar with the deployment of IAPs
- Understand the option for DHCP selection
- Look at the BID process for subnet distribution
- Troubleshoot client issues IAP issues
- Be familiar with the possible attacks.
- How rogue detection is completed
- Monitoring your network for intrusion
- Be familiar firmware and update procedures
- Learn how to backup and restore your configuration
- Learn how to convert IAPs in to RAPS or CAPS
- Look into the various management options

How to register

Click on this link to register for this course: https://certification-learning.hpe.com/tr/TrainingCalendar?excludePartners=false&CourseId=01125486

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