

# Configuring HPE Aruba Networking Instant APs, Rev. 21.21

## Duration: Self-Paced

## Course Description:

This Aruba Networking Instant AP course is designed to provide students the knowledge, skills, and practical experience required to set up and configure an Instant AP cluster with WLAN. Using lecture and labs, the class provides the technical understanding and hands-on experience of configuring a WLAN with a cluster of Instant APs.

Candidates will also learn to configure with 802.1X and captive portal authentication, and firewall settings. The class also provides troubleshooting skills. Other topics covered are advanced services such as ARM, mesh setup, VPN to a controller, roaming between clusters, IDS/IPS and, configuring IoTs. This Instant AP class can be coupled with an AirWave or HPE Aruba Networking Central class for management and configuration purposes.

## Target Audience:

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

## Course Objectives:

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

- Be familiar with Instant AP types
- Describe how to form an Instant AP cluster
- Be familiar with different installation methods
- Connect, reset, and set up an Instant AP (including VC)
- Be familiar with types of WLAN settings
- Describe methods for assigning a VLAN to a WLAN
- Describe different security options while configuring the WLAN
- Describe how to set up zones in Instant AP
- Configure authentication and security and set up an Instant AP/ WLAN in a zone
- Be familiar with various captive portal authentication 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 different options for role derivation
- Describe limitations that can be applied to Instant AP uplink ports
- Summarize features/advantages Instant APs provide in an AirGroup
- Be familiar with the different AirGroup settings
- Use AirGroup Dashboard to monitor servers
- Be familiar with the dashboard and its monitoring capabilities
- Invoke spectrum analysis to view spectrum
- Look at applications used by clients on the network
- Be familiar with ARM functions and features
- Describe ClientMatch features
- Describe RF Optimization methods for improving network performance
- Be familiar with the mesh options and mesh monitoring commands.
- Describe how to configure an Instant AP's wired port for connectivity
- Describe how to manage different uplink options
- Be familiar with roaming clients in an L2/L3 environment
- Client roaming in an L2 and L3 environment
- Be familiar with Instant AP VPN setup
- Learn the configuration steps for configuring VPN between Instant AP and Mobility Controller
- Examine troubleshooting commands
- Be familiar with the different deployment options of Instant APs
- Understand the different options for configuring DHCP
- Look at the BID process for subnet distribution
- Troubleshoot client and Instant AP issues
- Be familiar with the possible network attacks
- Learn how rogue APs are detected and contained
- Monitor and secure your network for intrusion by using IDS/IPS
- Be familiar with managing firmware and update procedures
- Learn how to back up and restore your configuration
- Convert Instant APs into RAPS or CAPS
- Be familiar with IoT
- Configure and interface an IoT with the Instant AP
- Be familiar with IoT Device authentication and filtering
- Configure the Instant AP for the Zigbee communication

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 (+632) 8863-2123  
 www.trendssacademy.com.ph

## COURSE OUTLINE

### Course Outlines:

#### Instant AP introduction

- Description and features
- Instant AP clusters
- VC election
- Country codes
- GUI interface
- Initial setup
- Dynamic installation

#### WLAN

- 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 Instant AP cluster
- AirGroup between clusters
- Monitoring AirGroups

#### Monitoring and troubleshooting

- Client GUI page
- Client view
- Support commands
- Instant AP logs
- Instant AP GUI view
- Instant AP network view (WLAN)
- Spectrum analysis
- AppRF

#### ARM

- Introduction
- Scanning
- Indices
- Band steering
- Airtime fairness
- Client match
- RF neighborhood
- Support commands

#### Mesh, wired access and uplink

- 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 Instant AP VPN configuration
- DHCP L2 options ( L2 distributed, centralized)
- DHCP L3 options ( L3 distributed, centralized)
- VPN troubleshooting

#### DHCP

- DG, DHCP options
- Local
- Centralized
- WLAN and infrastructure
- Troubleshooting

#### IDS/IPS

- Classification
- Attacks
- Rogue detection
- Containment
- IDS monitoring and commands

#### Administrative tasks

- Backup and restore
- Configuration reset and Instant AP reset
- Converting Instant AP to RAP / CAP admin user roles
- Certification
- Centralized management options

#### Configuring IoT

- Enabling Instant AP for IoT communications
- Supported vendors
- IoT radio types, radio, and modes

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