

Configuring Aruba Mobility Level 2

Duration: 5 Days Course Code: H37YNS Version: Rev 23.22

Overview:

This course teaches the knowledge, skills and practical experience to set up and configure advanced features on Aruba WLAN utilizing the AOS 8.X architecture and features. This course includes lectures and labs which provide the technical understanding and hands-on experience to configure a redundant Mobility Master with two controllers and two APs. Participants learn how install a redundant Aruba WLAN network with clustering while using many features like Multizone for guest access, voice optimization, and tunneled node. This course includes the Air Wave management system and troubleshooting commands.

Target Audience:

Typical candidates for this course are IT professionals who deploy Aruba WLAN with advanced features, as well as individuals who need a basic understanding of AirWave.

Objectives:

- After successful completion of this course, you should be able to:
 - Explain the integration of Mobility Masters and Mobility Controllers
 - Describe redundancy that provides the user seamless failover
 - Setup secure guest access using Multizone
 - Explain the uses and advantages of clustering
 - Describe user mobility in the wireless spectrum
 - Integrate voice over WiFi and give QoS
 - Explain how roles are assigned to users wireless or wired
 - Know how to setup remote access using RAPs or VIA
 - Describe how to create a mesh cluster
 - Learn the advantages to AirGroup when leveraged on an Aruba network
 - Integrate wired users into the security provided to wireless users
 - Know how to use AirWave to monitor the health of the network
 - Know how to use AirWave to troubleshoot client
 - Explain AirWave's Virtual RF feature as well as alerts and triggers
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Prerequisites:

Configuring Aruba Mobility Level 1, Rev 23.22.

Content:

Introduction

- Review topics from the Aruba Mobility Fundamentals course
- AP terminology
- GUI hierarchy
- WLAN forwarding modes
- Explain the features of AOS 8

Mobility Master Redundancy

- Explain VRRP setup
- DB synchronization procedures
- Validate MM DB synchronization
- IPv6 support for the redundancy

Mobility Master and MC Operations

- Grow the network to multiple controllers
- Review the configuration hierarchy
- MC deployments methods
- Explain advanced license features

Multizone

- Describe Multizone
- Explain Multizone AP functional flow
- Describe the functions of primary and data zones
- Troubleshoot Multizone setup

Introduction to MC clusters

- Review advantages of a MC cluster
- The cluster leader election process
- Define the MC cluster roles
- AP and user mapping into a cluster
- Requirements for hitless cluster failover
- AP and user load balancing within the cluster

Mobility

- Explain standard 802.11 roaming
- Describe single and multi-controller roaming
- Define the advantages of cluster mobility

Role Derivation

- Review policies and rules
- Explain role derivation using VSAs
- Describe user rules
- Describe authentication default roles
- Explain how to troubleshoot role derivation
- Role-based ACL

Remote Access

- Review of all remote access methods RAP/VIA/IAP-VPN/ branch controller
- Explain RAP certification and setup methods
- Internal and external (CPPM) whitelisting of RAP
- Configure RAP WLAN
- Explore the options for RAP redundancy
- Explain how to troubleshoot RAP setup VIA configuration, downloading and installation
- Explain how to troubleshoot VIA setup

Mesh

- Explain mesh networks and technology
- Configure mesh clusters
- Explain tri-radio Mesh support

Administration

- Explain management accounts and password reset
- Configure guest provisioning accounts
- Authentication using RADIUS or TACACS
- Describe how to disable console access

Operations

- Explain how to upgrade new images
- Describe AP preloading
- Explain cluster in service upgrade
- Auto roll backs of configuration
- Describe loadable in service modules

AirGroup

- Explain the Aruba AirGroup solution
- Configure AirGroup with limitations
- Explore the integration with ClearPass
- Monitor AirGroup servers and users

Dynamic Segmentation

- Explain Port-Based Tunnelling (PBT)
- Explain User-Based Tunnelling (UBT)
- Describe the interaction between switches and Mobility Controllers
- Explain how to troubleshoot tunnel connections

AirWave Introduction

- Explain the different features of AirWave
- The use of groups and folders
- AirWave features description
- Configure device credentials and adding devices

AirWave Network Health

- Explain diagnostic page indications
- Describe network health graphs to identify network issues
- Performance graphs to help in network planning
- Use clarity to direct administrator to the source of the Problem

AirWave Client and Device Troubleshooting

- Explain how to find a client and troubleshoot association issues
- Diagnose associated client issues
- Investigate client SNR
- Describe AP, network and controller diagnosing
- Explains how to monitor a MC cluster within AirWave

AirWave VisualRF, Reports and Alerts

- Explain the different VirtualRF display options
- Describe the VisualRF application monitoring
- Configure triggers to create alerts
- Generate 22 types of reports as well as custom reports

Further Information:

For More information, or to book your course, please call us on 0800/84.009

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