

Configuring Aruba Mobility Level 2 (CAM2), Rev 23.22

Duration: 40 Hours (5 Days)

Overview

The Configuring Aruba Mobility Level 2 (CAM2) course, Rev 23.22, is an advanced training aimed at deepening the knowledge and skills of network professionals in managing and operating Aruba WLAN with Aruba's Mobility Master and controller features. This course builds upon the foundation laid by the IAW V8 course, focusing on more complex network scenarios, advanced features, and troubleshooting techniques. Learners will explore topics such as Mobility Master Redundancy, Multizone configurations, and MC Clusters, gaining insights on how to ensure network resiliency and efficiency. They'll delve into Mobility to understand roaming better and get hands-on with Role Derivation to fine-tune network access. The course also covers Remote Access solutions like RAP and VIA, Voice Optimization for quality communication, and the setup and maintenance of Mesh Networks. Administrative functions are also addressed, including account management and secure access, while the operational aspect involves Upgrading, Preloading, and Cluster Upgrades. AirWave management software is featured prominently, with lessons on leveraging its capabilities for Network Health, Client and Device Troubleshooting, and VisualRF, Reports, and Alerts, ensuring comprehensive network oversight. This course is designed to equip learners with the expertise to efficiently manage Aruba environments, enhancing network reliability and performance.

Audience Profile

The Configuring Aruba Mobility Level 2 course is advanced training for IT professionals managing Aruba WLAN with AOS 8.

- Network Engineers
- Systems Administrators
- Wireless Infrastructure Managers
- Network Architects
- IT Professionals with a focus on Aruba Networks
- Network Administrators
- Network Operations Specialists
- Mobility Solution Consultants
- IT Support Staff with intermediate knowledge of Aruba solutions
- Professionals seeking Aruba certification advancement

Course Syllabus

Objectives

- After you successfully complete this course, expect to be able to:
- Explain the integration Mobility Masters and Mobility controllers
- Describe redundancy giving 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

- Learn to setup remote access using RAPs or VIA
- Describe how to create a mesh cluster
- Learn the advantages given to AirGroup when leveraged on an Aruba network
- Integrating wire users into the security given to wireless users
- Learn how to use AirWave to monitor the health of the network
- Learn how to use AirWave to troubleshoot client
- Explain AirWave's Virtual RF feature as well as alerts and triggers

Topics

Introduction

- Review topics from the IAW V8 course
- AP terminology
- GUI Hierarchy
- WLAN forwarding modes
- Explain the features of AOS 8

Mobility Master Redundancy

- Explain VRRP setup
- DB synchronization procedures
- Validating MM DB synchronization

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
- Troubleshooting Multizone setup

Introduction to MC clusters

- Reviews advantages of a MC cluster
- The cluster leader election process
- Defines 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
- Describes single and multi-controller roaming
- Defines the advantages of cluster mobility

Role Derivation

- Review of policies and rules
- Explains role derivation using VSAs
- Description of user rules
- Description of authentication default roles
- Explains how to troubleshoot role derivation

Remote Access

- Review of all remote access methods RAP/ VIA / IAP-VPN / branch controller
- Explains RAP certification and setup methods
- Configuration of RAP WLAN
- Explores the options for RAP redundancy
- Explains how to troubleshoot RAP setup
- VIA configuration, downloading and installation
- Explains how to troubleshoot VIA setup

Voice Optimization

- Review of voice QOS
- Explanation of WMM
- Description of UCC Heuristic and SDN API mode
- Monitoring and troubleshooting voice connections

Mesh

- Explains mesh networks and technology
- Configuration of mesh clusters

Administration

- Explains management accounts and password reset
- Configuration of guest provisioning accounts
- The use of authentication using RADIUS or TACACS
- Describes how to disable console access

Operations

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

AirGroup

- Explains the Aruba AirGroup solution
- Configuration of AirGroup with limitations
- Explores the integration with ClearPass
- Monitoring AirGroup servers and users

Tunneled Node

- Explains port based tunneled node
- Explains user based tunneled node
- Describes the interaction between switches and Mobility controllers
- Explains how to troubleshoot tunnel connections

AirWave Introduction

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

AirWave Network Health

- Explains diagnostic page indications
- Describe network health graphs to identify network issues
- Performance graphs to help in network planning
- The use of clarity to direct administrator to the source of the problem

AirWave Client and Device Troubleshooting

- Explains how to find a client and troubleshoot association issues
- Diagnosing associated client issues
- Investigating client SNR
- Describes AP, network and controller diagnosing
- Explains how to monitor a MC cluster within AirWave

AirWave VisualRF, Reports and Alerts

- Explains the different VirtualRF display options
- Describes the VisualRF application monitoring
- Configuration of triggers to create alerts
- Generation of 22 type of reports as well as custom report