

Aruba ClearPass Essentials

COURSE DETAILS

Course Code:	AR-CPE
Current Version:	20.11
Delivery Type:	Instructor-Led
Duration:	5 days

PREREQUISITES

The suggested prerequisites for this course are to attend the ClearPass Essentials course or pass the Aruba Certified ClearPass Professional (ACCP) certification exam.

COURSE CONTENT

This course provides participants the foundational skills in Network Access Control using the ClearPass product portfolio. This 5-day course includes both instructional modules and labs to teach participants about the major features in the ClearPass portfolio. Participants will learn how to setup ClearPass as an AAA server, and configure the Policy Manager, Guest, OnGuard and Onboard feature sets. In addition, this course covers integration with external Active Directory servers, Monitoring and Reporting, as well as deployment best practices. The student will gain insight into configuring authentication with ClearPass on both wired and wireless networks.

COURSE OBJECTIVES

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

- Ability to setup ClearPass as a AAA server
 - Demonstrate the configuration of Guest, OnGuard, Onboard and Profiling features
 - Integrate with External AD Server
 - Understand Monitoring and Reporting
 - Demonstrate Scaling and deployment of best practices
 - Configure AAA services for both wired and wireless networks
 - Demonstrate the configuration of Aruba Downloadable User Roles.
 - Demonstrate the configuration of Dynamic Segmentation with Aruba switches.
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COURSE OUTLINE

Introduction to ClearPass

- BYOD
- High Level Overview
- Posture and Profiling
- Guest and Onboard

ClearPass for AAA

- Policy Service Rules
- Authentication Authorization and Roles
- Enforcement Policy and Profiles

Authentication and Security Concepts

- Authentication Types
 - Servers
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Aruba ClearPass Essentials

- Radius COA
- Active Directory
- Certificates

Intro to NAD

- NAD Devices
- Adding NAD to ClearPass
- Network Device Groups
- Network Device Attributes
- Aruba Controller as NAD
- Aruba Switch
- Aruba Instant

Monitoring and Troubleshooting

- Monitoring
- Troubleshooting
- Logging
- Policy Simulation

ClearPass Insight

- Insight Dashboard
- Insight Reports
- Insight Alerts
- Insight Search
- Insight Administration
- Insight Replication

Active Directory

- Adding AD as Auth Source
- Joining AD domain
- Using AD services

External Authentication

- Multiple AD domains
- LDAP
- Static Host Lists
- SQL Database
- External Radius Server

Guest

- Guest Account creation
- Web Login pages
- Guest Service configuration
- Self-registration pages
- Configuring NADS for Guest
- Guest Manager Deep Dive
- Web Login Deep Dive
- Sponsor Approval
- MAC Caching

Onboard

- Intro to Onboard
- Basic Onboard Setup
- Onboard Deepdive
- Single SSID Onboarding
- Dual SSID Onboarding

Profiling

- Intro to Profiling
- Endpoint Analysis Deep Dive

Aruba ClearPass Essentials

Posture

- Intro to Posture
- Posture Deployment Options
- OnGuard Agent Health Collection
- OnGuard workflow
- 802.1x with Posture using Persistent/dissolvable agent
- OnGuard web Login
- Monitoring and Updates

Operation and Admin Users

- Operations
- Admin Users

Clustering and Redundancy

- Clustering
- Redundancy
- LAB

Licensing

- ClearPass Licensing
- Base License
- Applications

ClearPass Exchange

- Intro
- Examples
- General HTTP Palo Alto Firewall
- Configuration

Case Study

- Objectives
- Discussion
- Advanced Labs Overview

Wired Port Authentication

- 802.1X for access layer switch ports
- Profiling on Wired Network
- Configuration of Dynamic Segmentation

Aruba Downloadable User Roles

- Downloadable User Role Enforcement in ClearPass
- Aruba Controller/Gateway configuration
- Aruba Switch configuration
- Troubleshooting

WHO SHOULD ATTEND

Ideal candidates include network professionals who are looking to build their foundational knowledge of the ClearPass product portfolio.