

Aruba ClearPass Fundamentals, Rev. 20.11

Course Description

The Aruba ClearPass Fundamentals course prepares participants with foundational skills in Network Access Control using the ClearPass product portfolio. This 3-day course includes both instructional modules and hands-on labs to lead participants through the implementation and configuration of a ClearPass Network Access Control solution. This course is the first of two sections in the complete ClearPass Essential course and is designed to build the learner's foundational knowledge in authentication and access control using ClearPass. The complete ClearPass Essentials course is available in a 5-day course. This course is primarily focused on ClearPass fundamentals but provides the basics on the device configuration required when considering the interaction between the Network Access Control Device and ClearPass.

Objectives

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

- Set up ClearPass as a AAA server.
- Configure authentication sources including integrating with Microsoft Active Directory.
- Build effective access enforcement policies
- Understand and troubleshoot 802.1X access services
- Configure custom informational webpages
- Configure a personalized guest access solution including, simple web logins as well as self-service guest access.
- Understand how to configure a simple wired access solution using ClearPass.

Topics

Introduction to ClearPass

- Basic Concepts of Network Access Control
- ClearPass Use Cases

Authentication, Authorization, Accounting

- Authentication Basics
- Multi-Level Client Authorization
- Radius Accounting
- Configuration of Authentication Sources Including LDAP and Active Directory

External Connectivity

- Configuring Network Access Devices
- Configuring Email Messaging Servers
- Aruba Security Exchange Integration
- Integration with Enterprise Mobile Managers

Endpoint Profiling

- Device Type Identification
- Profiling Collectors

Roles and Enforcement.

- Introduction to Services
- Implementation of Enforcement Logic.
- ClearPass Role Assignment

Configuring Services

- Service Selection Logic.
- Implementation of Effective Services in ClearPass

Configuring Web Services

- Custom Web Content
- ClearPass Skins Web Templates
- Custom Informational Webpages

Introduction to Guest

- Guest Access with Captive Portal.
- Web-Based Authentication
- Guest Access with MAC Caching.
- Guest Account Management

Guest Access with Self Registration.

- The Self-Service Guest Access Experience.
- Configuring a Self-Registration Portal.
- Configuring Self-Registration with Internal Sponsorship