

Implementing Aruba ClearPass, Rev. 20.11

Course Description

The Implementing Aruba ClearPass instructor-led course takes a deeper look at the ClearPass product portfolio. This 3-day classroom session 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 designed to advance the learner's knowledge ClearPass features and administration. This is the second of two sections in the ClearPass Essentials course and is designed to advance the learner's knowledge of a complete ClearPass solution. This course starts out with wired authentication and Dynamic Segmentation then changes focus to ClearPass functionality and administration. Participants will learn how to set up a ClearPass Cluster with High Availability and configure OnGuard endpoint compliance and Onboard BYOD features. In addition, this course Monitoring and Reporting, as well as deployment best practices.

Objectives

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

- Monitor and troubleshoot ClearPass services
- Configure Authentication for Wired Access
- Configure Dynamic Segmentation for Aruba switches
- Deploy Aruba Downloadable User Roles
- Deploy a scalable ClearPass cluster
- Select and install security certificates within the cluster
- Manage licenses, upgrades, and backups of ClearPass servers
- Configure posture and health checks to ensure the security of your network clients
- Build enforcement based on effective health check results
- Set up and manage an effective self-service BYOD solution using ClearPass Onboard
- Configure Administrative Access to ClearPass Modules and Network Infrastructure Devices
- Configure custom reports and alerts in the Insight module

Topics

Intro to ClearPass Services

- Review of ClearPass Fundamentals
- Review of Authentication Services

OnGuard

- Introduction to Posture and Health Checks.
- Configuring And Monitoring OnGuard
- Managing the OnGuard Agent

OnGuard Enforcement

- OnGuard Enforcement Workflow.
- Incorporating System Health Validation Into Services

Onboard Provisioning

- Introduction to BYOD
- Configuring Internal Certificate Authorities
- Building an Onboard Portal

Onboard Administration

- Managing Client Certificates.
- Managing BYOD Users and Devices
- Certificate Revocation and OCSP

ClearPass Cluster

- Database Configuration and Sync
- Configuring Policy Manager Zones
- Configuring Server High availability

Administrative Access

- TACACS Authentication
- Administrative Profiles for ClearPass Policy Manager
- ClearPass Guest Operator Profiles

Administrative Operations

- Licensing
- Understanding Certificates in ClearPass
- Updates and Upgrades.
- Server Backups
- Technical Support and Logs

Insight Reports

- The Insight Dashboard.
- Searching Insight Data
- Alert Configuration and Watchlist.
- Configuring Custom Reports.
- Insight Administration

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