

Days: 2

Description: The Cisco Prime Access Registrar (CPAR) Version 9.x two-day instructor-led course provides you with the advanced knowledge and skillsets required to successfully deploy, maintain, and troubleshoot Cisco Prime Access Registrar in a typical network environment. You will learn the fundamental concepts upon which the AAA RADIUS/Diameter servers are based solidify your understanding of how to troubleshoot and solve problems relating to installation and configuration. You will install, configure, and administer CPAR in a Linux environment. You will gain hands-on experience configuring your own Linux lab server hosted in a virtual environment.

Prerequisites:

It is recommended, but not required, to have the following skills and knowledge before attending this course:

- Experience with Linux shell commands and syntax
- Familiarities with AAA and protocols such as Radius and Diameter

Recommended Cisco course that may help you meet these prerequisites:

- Implementing and Administering Cisco Solutions (v1.0)

Audience:

- Data Center Engineers
- Data Center Architects
- Network Designers
- Network Administrators
- Network Engineers
- Virtualization Engineers
- Systems Engineers
- Consulting Systems Engineers
- Technical Solutions Architects
- Field Engineers
- Cisco Integrators and Partners

Course Objectives:

Upon completion of this course, you will be able to:

- Describe the base functions of the Cisco Prime Access Registrar RADIUS/Diameter Servers
- Install CPAR on a Red Hat Linux Server.
- Configure a CPAR server using the CLI.
- Configure a CPAR server using the WebUI.
- Configure a CPAR server using scripting and automation
- Configure a CPAR RADIUS server
- Troubleshoot the CPAR installation, application, and configuration.

CPAR – Configuring Prime Access Registrar

OUTLINE:

- Section 1: Introduction to AAA and CPAR
- Section 2: Radius Overview, General Features and capabilities including Radius Proxy
- Section 3: Installing CPAR on RHEL 7.x
- Section 4: CPAR WebUI
- Section 5: Configuring Radius, Diameter, and translation on CPAR
- Section 6: CPAR Command Line Interface
- Section 7: CPAR CLI Scripting
- Section 8: CPAR IP Address Allocation over Radius or Diameter
- Section 9: Databases and ODBC
- Section 10: LDAP Authorization Overview, General Features, and Capabilities
- Section 11: SIGTRAN/M3UA Overview, General Features and Capabilities
- Section 12: CPAR Call-Logic Scripting approach (TCL and Rex based)
- Section 13: CPAR Licensing, Tools, Scripts, and interfaces
- Section 14: CPAR Session Cache review
- Section 15: CPAR Troubleshooting and Log File Management
- Section 16: CPAR Config File Management, Database File Management, and Backup Strategy
- Lab 4: CPAR CLI – Creating Configurations using Config Files. WebUI Review
- Lab 5: Verifying and Testing using Radclient
- Lab 6: Databases and ODBC
- Lab 7: Extension Point Scripting. WebUI Review
- Lab 8: CPAR Troubleshooting
- Lab 9: CPAR System Administration / Database Backup & Restore

LAB OUTLINE

- Lab 1: Installing CPAR on Red Hat Linux 7.x
- Lab 2: CPAR WebUI & Tomcat Configuration
- Lab 3: CPAR CLI – Creating a simple server configuration. WebUI Review