F5 Networks

F5APM12: F5 Networks Configuring BIG-IP APM v12: Access Policy Manager

Lean how to deploy and administer Access Policy Manager in this 3-day course.

$3,630.00

- 3 Days

Upcoming Dates

Course Description

This course gives network administrators, network operators, and network engineers a functional understanding of BIG-IP Access Policy Manager as it is commonly deployed in both application delivery network and remote access settings. The course introduces students to BIG-IP Access Policy Manager, its configuration objects, how it commonly deployed, and how typical administrative and operational activities are performed. The course includes lecture, hands-on labs, interactive demonstrations, and discussions.

Course Outline

Chapter 1: Setting Up the BIG-IP System

- Introducing the BIG-IP System
- Initially Setting Up the BIG-IP System
- Archiving the BIG-IP Configuration
- Leveraging F5 Support Resources and Tools

Chapter 2: Web Application Access

- Review of BIG-IP LTM
- Introduction to the Access Policy
- Web Access Application Configuration Overview
- Web Application Access Configuration in Detail

Chapter 3: Access Policy

- Navigating the Access Policy

Chapter 4: Managing BIG-IP APM

- BIG-IP APM Sessions and Access Licenses
- Session Variables and sessiondump
- Session Cookies
- Access Policy General Purpose Agents Lists

Chapter 5: Authentication

- Introduction to Access Policy Authentication
- Active Directory AAA Server

- RADIUS
- One-Time Password Local User Database

Chapter 6: Assignment Agents

- List of Assignment Agents

Chapter 7: Portal Access

- Introduction to Portal Access
- Portal Access Configuration Overview
- Portal Access Configuration
- Portal Access in Action

Chapter 8: Network Access

- Concurrent User Licensing
- VPN Concepts
- Network Access Configuration Overview
- Network Access Configuration
- Network Access in Action

Chapter 9: Macros and Logon

- Access Policy Macros
- Configuring Macros
- An Access Policy is a Flowchart
- Access Policy Logon Agents
- Configuring Logon Agents

Chapter 10: Client-Side Checks

- Client-Side Endpoint Security

Chapter 11: Server-Side Checks

- Server-Side Endpoint Security Agents List
- Server-Side and Client-Side Checks Differences

Chapter 12: Authorization

- Active Directory Query
- Active Directory Nested Groups
- Configuration in Detail

Chapter 13: Application Access

- Application Access
- Remote Desktop
- Network Access Optimized Tunnels
- Landing Page Bookmarks
- Remote Desktop
- Network Access Optimized Tunnels
- Landing Page Bookmarks

Chapter 14: Access Control Lists

- Introduction to Access Control Lists
- Configuration Overview
- Dynamic ACLs
- Portal Access ACLs

Chapter 15: Single Sign-On

- Remote Desktop Single Sign-On
- Portal Access Single Sign-On

Chapter 16: iRules and Advanced Access Policy Rules

- iRules Introduction
- Basic TCL Syntax
- iRules and Advanced Access Policy Rules

Chapter 17: Customization

- Customization Overview
- BIG-IP Edge Client
- Advanced Edit Mode Customization
- Landing Page Sections

Chapter 18: SAML

- SAML Conceptual Overview
- SAML Configuration Overview

Chapter 19: Webtop and Wizards

- Webtops
- Wizards

Chapter 20: BIG-IP Edge Client and Components

- BIG-IP Edge Client for Windows Installation
- BIG-IP Edge Client in Action

Chapter 21: Configuration Project

Chapter 22: Additional Training and Certification

- Getting Started Series Web-Based Training
- F5 Instructor Led Training Curriculum
- F5 Professional Certification Program

Audience

This course is intended for network administrators, operators, and engineers responsible for managing the normal day-to-day operation and administration of BIG-IP Access Policy Manager.

Prerequisites

Students must complete one of the following F5 prerequisites before attending this course:

- Administering BIG-IP instructor-led course
- F5 Certified BIG-IP Administrator

The following general network technology knowledge and experience are recommended before attending any F5 Global Training Services instructor-led course:

- OSI model encapsulation
- Routing and switching
- Ethernet and ARP
- TCP/IP concepts
- IP addressing and subnetting
- NAT and private IP addressing
- Default gateway
- Network firewalls
- LAN vs. WAN

The following *course-specific* knowledge and experience is suggested before attending this course:

- Hands-on experience with BIG-IP
- Basic web application delivery (BIG-IP LTM)
- HTML, HTTP, HTTPS as well as some CSS and JavaScript
- Telnet, SSH and TLS/SSL
- VPN or tunnel encapsulation, Layer 4 NAT and Access Control Lists

What You Will Learn

After completing this course, students will learn:

- Getting Started with the BIG-IP System
- APM Traffic Processing and APM Configuration Wizards
- APM Access Policies, Access Profiles
- Visual Policy Editor, Branches and Endings
- APM Portal Access and Rewrite Profiles
- Single Sign-On and Credential Caching
- APM Network Access and BIG-IP Edge Client
- Layer 4 and Layer 7 Access Control Lists
- APM Application Access and Webtop Types
- Remote Desktop, Optimized Tunnels and Webtop Links
- LTM Concepts including Virtual Servers, Pools, Monitors and SNAT'ing
- APM + LTM Use Case for Web Applications
- Visual Policy Editor Macros
- AAA Servers and Authentication and Authorization with Active Directory and RADIUS
- Endpoint Security with Windows Process Checking, Protected Workspace and Firewalls
- iRules, Customization and SAML