

F5-TRG-BIG-EGW-APM

Configuring BIG-IP APM: Access Policy Manager v15.1

Overview

This three-day 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 Length

3 days

Topics covered in this course Include

- 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



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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

or

- F5 Certified BIG-IP Administrator

The following free web-based courses, although optional, will be very helpful for any student with limited BIG-IP administration and configuration experience. These courses are available at LearnF5:

- Getting Started with BIG-IP web-based training
- Getting Started with BIG-IP Access Policy Manager (APM) web-based training

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



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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: Configuring 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: Exploring the 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 List

- Chapter 5: Using Authentication
 - Introduction to Access Policy Authentication
 - Active Directory AAA Server
 - RADIUS
 - One-Time Password
 - Local User Database

- Chapter 6: Understanding Assignment Agents
 - List of Assignment Agents



- Chapter 7: Configuring Portal Access
 - Introduction to Portal Access
 - Portal Access Configuration Overview
 - Portal Access Configuration
 - Portal Access in Action

- Chapter 8: Configuring Network Access
 - Concurrent User Licensing
 - VPN Concepts
 - Network Access Configuration Overview
 - Network Access Configuration
 - Network Access in Action

- Chapter 9: Deploying Macros
 - Access Policy Macros
 - Configuring Macros
 - An Access Policy is a Flowchart
 - Access Policy Logon Agents
 - Configuring Logon Agents

- Chapter 10: Exploring Client-Side Checks
 - Client-Side Endpoint Security

- Chapter 11: Exploring Server-Side Checks
 - Server-Side Endpoint Security Agents List
 - Server-Side and Client-Side Checks Differences

- Chapter 12: Using Authorization
 - Active Directory Query
 - Active Directory Nested Groups
 - Configuration in Detail

- Chapter 13: Configuring App Tunnels



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

- Chapter 14: Deploying Access Control Lists
 - Introduction to Access Control Lists
 - Configuration Overview
 - Dynamic ACLs
 - Portal Access ACLs

- Chapter 15: Signing On with SSO
 - Remote Desktop Single Sign-On
 - Portal Access Single Sign-On

- Chapter 16: Using iRules
 - iRules Introduction
 - Basic TCL Syntax
 - iRules and Advanced Access Policy Rules

- Chapter 17: Customizing BIG-IP APM
 - Customization Overview
 - BIG-IP Edge Client
 - Advanced Edit Mode Customization
 - Landing Page Sections

- Chapter 18: Deploying SAML
 - SAML Conceptual Overview
 - SAML Configuration Overview

- Chapter 19: Exploring Webtops and Wizards
 - Webtops
 - Wizards



- Chapter 20: Using BIG-IP Edge Client
 - BIG-IP Edge Client for Windows Installation
 - BIG-IP Edge Client in Action
- Chapter 21: Configuration Project



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