

F5 Access Policy Manager

This Four-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.

Pre requisites

- 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

Duration: 4 Days

Topics

- 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 Authorizations with Active Directory and RADIUS
- Endpoint Security with Windows Process Checking, Protected Workspace and Firewalls
- iRules, Customizations and SAML

Day wise breakup

Day 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
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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
- Exploring the Access Policy
- Navigating the Access Policy

Managing BIG-IP APM

- BIG-IP APM Sessions and Access Licenses
- Session Variables and session dump
- Session Cookies
- Access Policy General Purpose Agents List

Day 2

Using Authentication

- Introduction to Access Policy Authentication
- Active Directory AAA Server
- RADIUS
- One-Time Password
- Local User Database
- Understanding Assignment Agents

Configuring Portal Access

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

Configuring Network Access

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

Deploying Macros

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

Day 3

Exploring Client-Side Checks

- Client-Side Endpoint Security

Exploring Server-Side Checks

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

Using Authorization

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

Configuring AppTunnels

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

Deploying Access Control Lists

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

- Signing On with SSO
- Remote Desktop Single Sign-On
- Portal Access Single Sign-On

Day 4

Using iRules

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

Customizing BIG-IP APM

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

Deploying SAML

- SAML Conceptual Overview
- SAML Configuration Overview

Exploring Webtops and Wizards

- Webtops
- Wizards

Using BIG-IP Edge Client

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