# Configuring BIG-IP APM: Access Policy Manager

3 Day duration

## Description

This course covers three typical deployment scenarios for BIG-IP Access Policy Manager (APM) and is broken into three individual lessons. In lesson one, you learn how to configure BIG-IP APM to provide Active Directory-based authentication for a load-balanced pool of web servers.

Building on that, in lesson two, you learn how to create a policy that provides an SSL VPN (Network Access) resource to users, but only when they log into BIG-IP APM using a corporate-issued PC.

Finally, lesson three builds on the first two lessons to create a policy that provides a dynamic landing page with both SSL VPN as well as an OWA (Portal Access) resource, but only to users with special authorization.

## Participants

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

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

## Objectives

- 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

## Programme

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 AppTunnels
- 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

Chapter 22: Additional Training and Certification
- Getting Started Series Web-Based Training
- F5 Instructor Led Training Curriculum
- F5 Professional Certification Program
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- F5 Professional Certification Program