

F5 Networks Configuring BIG-IP APM v14: Access Policy Manager

Course Summary

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.

Objectives

After taking this course, students will be able to:

- Configure remote access methods Network Access, Portal Access and Application Access and understand the differences and use cases for each
- Configure APM and LTM to work together for advanced application delivery as well as understand the APM + LTM use case versus the remote access use case
- Configure advanced policies using the Visual Policy Editor with all of its features such as macros, branches and multiple endings
- Understand the role of iRules and how they work together with BIG-IP in general and APM in specific
- Understand the role of Federated Single Sign-On using SAML and deploy a basic configuration
- Configure multiple authentication methods and understand how they can work together in a single access policy
- Set up, license, and provision the BIG-IP system out-of-the-box
- Create, restore from, and manage BIG-IP archives
- Use profiles to manipulate the way the BIG-IP system processes traffic through a virtual server

Topics

- Setting Up the BIG-IP System
- Configuring Web Application Access
- Exploring the Access Policy
- Managing BIG-IP APM
- Using Authentication
- Understanding Assignment Agents
- Configuring Portal Access
- Configuring Network Access
- Deploying Macros
- Exploring Client-Side Checks
- Exploring Server-Side Checks
- Using Authorization
- Configuring App Tunnels
- Deploying Access Control Lists
- Signing On with SSO
- Using iRules
- Customizing BIG-IP APM
- Deploying SAML
- Exploring Webtops and Wizards
- Using BIG-IP Edge Client
- Configuration Project

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.

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Course Summary (cont.)

Prerequisite

Administering BIG-IP; basic familiarity with authentication mechanisms (e.g. LDAP, Active Directory) and webserver technologies (e.g. HTTP, HTML)

Duration

Three Days

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Course Outline

- I. **Setting Up the BIG-IP System**
 - A. Introducing the BIG-IP System
 - B. Initially Setting Up the BIG-IP System
 - C. Archiving the BIG-IP Configuration
 - D. Leveraging F5 Support Resources and Tools
- II. **Configuring Web Application Access**
 - A. Review of BIG-IP LTM
 - B. Introduction to the Access Policy
 - C. Web Access Application Configuration Overview
 - D. Web Application Access Configuration in Detail
- III. **Exploring the Access Policy**
 - A. Navigating the Access Policy
- IV. **Managing BIG-IP APM**
 - A. BIG-IP APM Sessions and Access Licenses
 - B. Session Variables and session dump
 - C. Session Cookies
 - D. Access Policy General Purpose Agents List
- V. **Using Authentication**
 - A. Introduction to Access Policy Authentication
 - B. Active Directory AAA Server
 - C. RADIUS
 - D. One-Time Password
 - E. Local User Database
- VI. **Understanding Assignment Agents**
 - A. List of Assignment Agents
- VII. **Configuring Portal Access**
 - A. Introduction to Portal Access
 - B. Portal Access Configuration Overview
 - C. Portal Access Configuration
 - D. Portal Access in Action
- VIII. **Configuring Network Access**
 - A. Concurrent User Licensing
 - B. VPN Concepts
 - C. Network Access Configuration Overview
 - D. Network Access Configuration
 - E. Network Access in Action
- IX. **Deploying Macros**
 - A. Access Policy Macros
 - B. Configuring Macros
 - C. An Access Policy is a Flowchart
 - D. Access Policy Logon Agents
 - E. Configuring Logon Agents
- X. **Exploring Client-Side Checks**
 - A. Client-Side Endpoint Security
- XI. **Exploring Server-Side Checks**
 - A. Server-Side Endpoint Security Agents List
 - B. Server-Side and Client-Side Checks Differences
- XII. **Using Authorization**
 - A. Active Directory Query
 - B. Active Directory Nested Groups
 - C. Configuration in Detail
- XIII. **Configuring App Tunnels**
 - A. Application Access
 - B. Remote Desktop
 - C. Network Access Optimized Tunnels
 - D. Landing Page Bookmarks
- XIV. **Deploying Access Control Lists**
 - A. Introduction to Access Control Lists
 - B. Configuration Overview
 - C. Dynamic ACLs
 - D. Portal Access ACLs
- XV. **Signing On with SSO**
 - A. Remote Desktop Single Sign-On
 - B. Portal Access Single Sign-On
- XVI. **Using iRules**
 - A. iRules Introduction
 - B. Basic TCL Syntax
 - C. iRules and Advanced Access Policy Rules

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Course Outline (cont.)

XVII. Customizing BIG-IP APM

- A. Customization Overview
- B. BIG-IP Edge Client
- C. Advanced Edit Mode Customization
- D. Landing Page Sections

XVIII. Deploying SAML

- A. SAML Conceptual Overview
- B. SAML Configuration Overview

XIX. Exploring Webtops and Wizards

- A. Webtops
- B. Wizards

XX. Using BIG-IP Edge Client

- A. BIG-IP Edge Client for Windows Installation
- B. BIG-IP Edge Client in Action

XXI. Configuration Project