F5 Networks Configuring
BIG-IP APM: Access Policy Manager

Days: 3

Course 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.

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

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.

Course Objectives:

- 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

OUTLINE:

LESSON 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

LESSON 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

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LESSON 3: EXPLORING THE ACCESS POLICY

- Navigating the Access Policy

LESSON 4: MANAGING BIG-IP APM

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

LESSON 5: USING AUTHENTICATION

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

LESSON 6: UNDERSTANDING ASSIGNMENT AGENTS

- List of Assignment Agents

LESSON 7: CONFIGURING PORTAL ACCESS

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

LESSON 8: CONFIGURING NETWORK ACCESS

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

LESSON 9: DEPLOYING MACROS

- Access Policy Macros

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

LESSON 10: EXPLORING CLIENT-SIDE CHECKS

- Client-Side Endpoint Security

LESSON 11: EXPLORING SERVER-SIDE CHECKS

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

LESSON 12: USING AUTHORIZATION

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

LESSON 13: CONFIGURING APP TUNNELS

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

LESSON 14: DEPLOYING ACCESS CONTROL LISTS

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

LESSON 15: SIGNING ON WITH SSO

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

LESSON 16: USING IRULES

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

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LESSON 17: CUSTOMIZING BIG-IP APM

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

LESSON 18: DEPLOYING SAML

- SAML Conceptual Overview
- SAML Configuration Overview

LESSON 19: EXPLORING WEBTOPS AND WIZARDS

- Webtops
- Wizards

LESSON 20: USING BIG-IP EDGE CLIENT

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

LESSON 21: CONFIGURATION PROJECT