



F5 Administering BIG-IP – v11

Code: ACBE–F5N-BIG-OP-ADMIN

Days: 2

Course Description:

This two-day course gives network operators a functional understanding of the BIG-IP® v11.2 system as it is commonly operated in the network environment. The course covers day-to-day operational activities on a BIG-IP system, and includes lectures, hands-on labs, interactive demonstrations, and discussions.

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F5 Product Overview

- The BIG-IP Product Family
- ARX Series
- F5 Hardware
- F5 Services and Resources

Chapter 1: Getting Started with BIG-IP

- The BIG-IP System
- Licensing, Provisioning and the Setup Utility
- VLAN Network Configuration
- Backing Up and Restoring the BIG-IP Configuration
- Understanding Lab Instruction Notation
- Installation and Setup Labs
 - Lab 1.1 – Configure Management IP
 - Lab 1.2 – Licensing, Provisioning, and Network Setup

Chapter 2: Navigating the GUI and F5 Support Tools

- Using the Configuration Utility
- Always On Management (AOM)
- F5 Support Resources and Tools
- More on Licensing
- Chapter Labs

- Lab 2.1 – Configuration Utility Preferences Lab
- Lab 2.2 – AskF5 Resources Lab (optional)
- Lab 2.3 – AOM IP Address Configuration Lab (optional)

Chapter 3: Traffic Processing with LTM

- Overview of LTM Traffic Processing
- Configuring Virtual Servers and Pools
- Load Balancing Concepts
- Traffic Statistics and Logs
 - Lab – Virtual Servers and Pools Lab

Chapter 4: Secure Network Address Translation (SNAT)

- SNAT Functionality
 - Lab – SNAT Automap Lab

Chapter 5: Traffic Management Shell (tmsh)

- Configuring BIG-IP Using tmsh
- BIG-IP Configuration State and Files
- Introducing Archives
 - Lab – tmsh Configuration Labs

Chapter 6: Monitors and the Network Map

- Monitor Concepts
- Monitor Configuration
- Monitor Assignment
- Monitor Status Reporting
- The Network Map
 - Lab – Configure Monitors Lab

Chapter 7: Profiles and Analytics

- Introduction to Profiles
- Profile Types and Dependencies
- Configuring and Using Profiles
- SSL Termination and Initiation
- SSL Profile Configuration
- Application Visibility and Reporting (AVR)

Chapter 8: Session Persistence

- Persistence Concepts
- Source Address Affinity Persistence
- Configuration Object Management
 - Lab 8.1 – Analytics Profile
 - Lab 8.2 – Client SSL Profile
 - Lab 8.3 – Source Address Affinity Profile
 - Lab 8.4 – Object State and Persistence

Chapter 9: Troubleshooting BIG-IP

- F5 Support Services and AskF5
- Big-IP iHealth and QKView Diagnostic Files
- Using tcpdump in a BIG-IP Environment
- Logging and Notification
- SNMP Features
 - Remote Syslog Lab
 - SNMP Trap Lab
 - iHealth Lab
 - Troubleshooting Lab

Chapter 10: BIG-IP Administration

- Restricting Network Access
- User Roles and Administrative Partitions
 - Lab 10.1 – Admin Partitions and Users Lab
 - Lab 10.2 – Packet Filters Lab (optional)

Chapter 11: BIG-IP Product Family

- Overview of the BIG-IP Product Family
- DNS and GTM System Options
- ASM as a Web Application Firewall
- APM and Secure Access
- BIG-IP Product Traffic Processing

Chapter 12: Enterprise Manager

- Introduction to Enterprise Manager
- Managing Devices
- Custom Lists

- Enterprise Manager Tasks
- Enterprise Manager and iHealth
- Managing Archives from Enterprise Manager
 - Lab – Enterprise Manager Lab

Chapter 13: High Availability

- Sync-Failover Device Group Concepts
- Synchronization, State, and Failover
- Device Group Communication
- Failover Triggers and Detection
 - Lab – High Availability and Device Group Lab

Chapter 14: iApps

- Introduction to iAppls
- Application Services
- Templates
- iApps Ecosystem on DevCentral
 - Lab – Application Service Lab

Chapter 15: iRules

- iRules Concepts
- iRules Events
 - Lab – iRules Lab