

F5 Networks

F5LTMA12: F5 Networks Administering BIG-IP v12

Obtain a functional understanding of the BIG-IP v12 Product Family for managing the normal day-to-day operation. The course will provide the prerequisite knowledge for many other of F5's BIG-IP instructor-led training courses, such as LTM, GTM, ASM and EM.

\$2,420.00

- 2 Days

Upcoming Dates

Course Description

This course gives network administrators, network operators, and network engineers a functional understanding of the BIG-IP system as it is commonly deployed in an application delivery network. The course introduces students to the BIG-IP system, its configuration objects, how it processes traffic, and how typical administrative and operational activities are performed.

The course includes lecture, hands-on labs, interactive demonstrations, and discussions.

Course Outline

Lesson 1. Setting up BIG-IP System

- Introducing the BIG-IP System
- Initially Setting Up the BIG-IP System
- Archiving the BIG-IP Configuration
- F5 Support Resources and Tools

Lesson 2. Traffic Processing Building Blocks

- Identifying BIG-IP Traffic Processing Objects
- Network Packet Flow
- Configuring Virtual Servers and Pools
- Load Balancing Concepts
- Viewing Statistics and Logs
- Using the Traffic Management Shell (tmsh)
- BIG-IP Configuration State and Files
- Saving and Replicating Configuration Data (UCS and SCF)
- Viewing the BIG-IP Connection Table

Lesson 3. Using NATs and SNATs

- Address Translation on the BIG-IP System
- NAT Concepts
- Solving Routing Issues with SNATs
- Configuring SNAT Auto Map on a Virtual Server
- Monitoring for and Mitigating Port Exhaustion

Lesson 4. Monitoring Application Health

- Introducing Monitors
- Types of Monitors
- Monitor Interval and Timeout Settings
- Configuring Monitors
- Assigning Monitors to Resources
- Managing Pool, Pool Member, and Node Status
- Using the Network Map

Lesson 5. Modifying Traffic Behavior with Profiles

- Introducing Profiles
- Understanding Profile Types and Dependencies
- Configuring and Assigning Profiles

Lesson 6. Modifying Traffic Behavior with Persistence

- Understanding the Need for Persistence
- Introducing Source Address Affinity Persistence
- Introducing Cookie Persistence
- Introducing SSL Offload and SSL Re-Encryption
- Managing Object State

Lesson 7. Troubleshooting the BIG-IP System

- Configuring Logging
- Using tcpdump on the BIG-IP System
- Leveraging the BIG-IP iHealth System
- Working with F5 Technical Support

Lesson 8. Administering the BIG-IP System

- Always On Management (AOM)
- Expanding Availability with Device Service Clustering
- User Roles and Administrative Partitions
- vCMP
- iApps Overview

Lesson 9. Customizing Application Delivery with iRules

- iRules Concepts
- iRules Events
- iRules Resources

Lesson 10. Additional Training and Certification

- Getting Started Series Web-Based Training
- F5 Instructor Led Training Curriculum
- F5 Professional Certification Program

Audience

This course is intended for network operators responsible for managing the normal day-to-day operation of a BIG-IP environment. This

course presents the prerequisite knowledge for many other of F5's BIG-IP instructor-led training courses.

Prerequisites

OSI model, TCP/IP addressing and routing, WAN, LAN environments, and server redundancy concept

What You Will Learn

After completing this course, students will learn:

- Getting started with the BIG-IP system
- Traffic processing with BIG-IP Local Traffic Manager (LTM)
- Using the TMSH (TMOS Shell) command line interface
- Using NATs and SNATs
- Monitoring application health and managing object status
- Modifying traffic behavior with profiles, including SSL offload and re-encryption
- Modifying traffic behavior with persistence, including source address affinity and cookie persistence
- Troubleshooting the BIG-IP system, including logging (local, high-speed, and legacy remote logging), and using tcpdump
- Always-On Management (AOM)
- User roles and administrative partitions
- vCMP concepts
- Customizing application delivery with iRules