



Training: F5 Administering BIG-IP



TRAINING GOALS:

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.

Audience:

This course is intended for network administrators, operators, and engineers responsible for managing the normal day-to-day operation and administration of a BIG-IP application delivery network. This course presents the prerequisite knowledge for many other of F5's BIG-IP instructor-led training courses.

CONSPECT:

- Setting Up the 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
- 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
- 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
- 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
- Modifying Traffic Behavior with Profiles
 - Introducing Profiles
 - Understanding Profile Types and Dependencies
 - Configuring and Assigning Profiles
- 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
- 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
- Administering the BIG-IP System
 - Always-On Management (AOM)
 - Expanding Availability with Device Service Clustering
 - User Roles and Administrative Partitions
 - vCMP
 - iApps Overview
- Customizing Application Delivery with iRules
 - iRules Concepts





- iRules Events
- iRules Resources
- Additional Training and Certification
 - Getting Started Series Web-Based Training
 - F5 Instructor Led Training Curriculum
 - F5 Professional Certification Program

REQUIREMENTS:

The following general network technology knowledge and experience are required before attending any F5 Global Training Services instructor-led course:

- OSI model encapsulation
- Routing and switching
- Ethernet and ARP
- TCP/IP concepts
- IP addressing and subnetting
- NAT and private IP addressing
- Default gateway
- Network firewalls
- LAN vs. WAN

Difficulty level



CERTIFICATE:

The participants will obtain certificates signed by F5 Networks (course completion). This course also will help to prepare you for the F5 Networks Administrator certification (F5-CA) exams Exam 101 - Application Delivery Fundamentals and Exam 201 - TMOS Administration, which is available through the [Pearson VUE test centers](#).

TRAINER:

Certified F5 Networks Trainer.

