



Enterprise Computing Solutions - Education Services

TRAINING OFFERING

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Administering BIG-IP and Configuring BIG-IP LTM v.17.1: Local Traffic Manager Bundle

CODE:	LENGTH:	PRICE:
F5N_BIGIPAD_LTM_BDLE	40 Hours (5 days)	£3,495.00

Description

Attend both the F5 Administering BIG-IP and Configuring BIG-IP LTM v16.1: Local Traffic Manager courses in the same week and save ££s!

Administering BIG-IP v16.1

Begin the BIG-IP learning journey with Administering BIG-IP. Learn how to set up and operate the BIG-IP system as it is commonly deployed in an application delivery network.

Through a combination of instructor-led lecture and hands-on labs, complete initial configuration including licensing, resource provisioning, networking, high-availability (HA), and more to establish a secure system.

Gain practical experience implementing traffic processing objects: pools, virtual servers, health monitors, network address translation (NATs and SNATs), and more.

Explore modifying traffic behavior with profiles that include SSL offload and re-encryption, and with persistence, including source address affinity and cookie persistence using the configuration utility graphical user interface (GUI) and TMSH (TMOS Shell) command line interface (CLI).

Build troubleshooting skills learning various logging methods including local, high-speed, and legacy remote logging combined with practice using troubleshooting tools like TCPDUMP.

Learn typical administrative and operational activities including user roles and administrative partition creation and management.

Configuring BIG-IP LTM v16.1: Local Traffic Manager

Learn how to configure and manage BIG-IP Local Traffic Manager (LTM) as it is commonly deployed in an application delivery network to achieve operational efficiency and maintain critical business applications. Through a combination of lecture and hands-on labs, explore features and functionality to process and modify traffic behavior using profiles, persistence, caching, compression, and source network address translation (SNAT).

Monitor application health at layers 3, 4, and 7, and implement dynamic load balancing methods. Use traffic management shell (TMSH), the Configuration utility, and Linux commands to create traffic processing and monitoring objects, observe the resulting traffic statistics, and effectively operate the BIG-IP LTM system. Customize application delivery with iRules, establish application security, and harden system security using BIG-IP LTM functionality.

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.

Prerequisites

The following free Self-Directed Training (SDT) courses, although optional, are helpful for any student with limited BIG-IP administration and configuration experience:

- Getting Started with BIG-IP
- Getting Started with Local Traffic Manager (LTM)

General network technology knowledge and experience are recommended before attending any F5 Global Training Services instructor-led course, including OSI model encapsulation, routing and switching, Ethernet and ARP, TCP/IP concepts, IP addressing and subnetting, NAT and private IP addressing, NAT and private IP addressing, default gateway, network firewalls, and LAN vs. WAN.

The following course-specific knowledge and experience is suggested before attending this course:

- Web application delivery
- HTTP, HTTPS, FTP, and SSH protocols
- TLS/SSL

Programme

Administering BIG-IP v16.1

Chapter 1: Setting Up the BIG-IP System

- Introducing the BIG-IP System
- Initially Setting Up the BIG-IP System
- Configuring the Management Interface
- Activating the Software License
- Provisioning Modules and Resources
- Importing a Device Certificate
- Specifying BIG-IP Platform Properties
- Configuring the Network
- Configuring Network Time Protocol (NTP) Servers
- Configuring Domain Name System (DNS) Settings
- Configuring High Availability Options
- Archiving the BIG-IP Configuration
- Leveraging F5 Support Resources and Tools

Chapter 2: Traffic Processing Building Blocks

- Identifying BIG-IP Traffic Processing Objects
- Configuring Virtual Servers and Pools
- Load Balancing Traffic
- Viewing Module Statistics and Logs
- Using the Traffic Management Shell (TMSH)
- Understanding the TMSH Hierarchical Structure
- Navigating the TMSH Hierarchy
- Managing BIG-IP Configuration State and Files
- BIG-IP System Configuration State
- Loading and Saving the System Configuration
- Shutting Down and Restarting the BIG-IP System
- Saving and Replicating Configuration Data (UCS and SCF)

Configuring BIG-IP LTM v16.1: Local Traffic Manager

- Introducing the BIG-IP System
- Initially Setting Up the BIG-IP System
- Archiving the BIG-IP Configuration
- Leveraging F5 Support Resources and Tools
- Reviewing Nodes, Pools, and Virtual Servers
- Reviewing Address Translation
- Reviewing Routing Assumptions
- Reviewing Application Health Monitoring
- Reviewing Traffic Behavior Modification with Profiles
- Reviewing the TMOS Shell (TMSH)
- Reviewing Managing BIG-IP Configuration Data
- Exploring Load Balancing Options
- Using Priority Group Activation and Fallback Host
- Comparing Member and Node Load Balancing

Chapter 3: Using NATs and SNATs

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

Chapter 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

Chapter 5: Modifying Traffic Behavior with Profiles

- Introducing Profiles
- Understanding Profile Types and Dependencies
- Configuring and Assigning Profiles
- Introducing SSL Offload and SSL Re-Encryption

Chapter 6: Modifying Traffic Behavior with Persistence

- Understanding the Need for Persistence
- Introducing Source Address Affinity Persistence
- Managing Object State

Chapter 7: Administering the BIG-IP System

- Configuring Logging
- Legacy Remote Logging
- Introducing High Speed Logging (HSL)
- High-Speed Logging Filters
- HSL Configuration Objects
- Configuring High Speed Logging
- Using TCPDUMP on the BIG-IP System
- Leveraging the BIG-IP iHealth System
- Viewing BIG-IP System Statistics
- Defining User Roles and Administrative Partitions
- Leveraging vCMP
- Chapter 8: Configuring High Availability
- Introducing Device Service Clustering (DSC)
- Preparing to Deploy a DSC Configuration
- Configuring DSC Communication Settings
- Establishing Device Trust
- Establishing a Sync-Failover Device Group
- Synchronizing Configuration Data
- Exploring Traffic Group Behavior
- Understanding Failover Managers and Triggers

• Achieving Stateful Failover with Mirroring

Chapter 3: Load Balancing Traffic with LTM

Chapter 4: Modifying Traffic Behavior with Persistence

- Reviewing Persistence
 - Introducing Cookie Persistence
 - Specifying Default and Fallback Persistence
 - Introducing SSL Persistence
 - Introducing SIP Persistence
 - Introducing Universal Persistence
 - Introducing Destination Address Affinity Persistence
 - Using Match Across Options for Persistence
 - Differentiating Monitor Types
 - Customizing the HTTP Monitor
 - Monitoring an Alias Address and Port
 - Monitoring a Path vs. Monitoring a Device
 - Managing Multiple Monitors
 - Using Application Check Monitors
 - Using Manual Resume and Advanced Monitor Timer Settings
 - Understanding the Need for Other Virtual Server Types
 - Forwarding Traffic with a Virtual Server
 - Understanding Virtual Server Order of Precedence
 - Path Load Balancing
 - Overview of SNATs
 - Using SNAT Pools
 - SNATs as Listeners
 - SNAT Specificity
 - VIP Bounceback
 - Additional SNAT Options
 - Network Packet Processing Review
 - Profiles Overview
 - TCP Express Optimization
 - TCP Profiles Overview
 - HTTP Profile Options
 - HTTP/2 Profile Options
 - OneConnect
 - Offloading HTTP Compression to BIG-IP
 - Web Acceleration Profile and HTTP Caching
 - Stream Profiles
 - F5 Acceleration Technologies
- Chapter 5: Monitoring Application Health
- Chapter 6: Processing Traffic with Virtual Servers
- Chapter 7: Processing Traffic with SNATs
- Chapter 8: Modifying Traffic Behavior with Profiles
- Chapter 9: Selected Topics
- VLAN, VLAN Tagging, and Trunking
 - Restricting Network Access
 - SNMP Features
 - Segmenting Network Traffic with Route Domains
 - Getting Started with iRules
 - Understanding When iRules are Triggered
 - Deploying iRules
 - Constructing an iRule
 - Testing and Debugging iRules
- Chapter 10: Customizing Application Delivery with iRules
- Exploring iRules Documentation
 - Getting Started with Local Traffic Policies
- Chapter 11: Customizing Application Delivery with Local Traffic Policies
- Configuring and Managing Policy Rules
 - Understanding Today's Threat Landscape
 - Integrating LTM Into Your Security Strategy
 - Defending Your Environment Against SYN Flood Attacks
 - Defending Your Environment Against Other Volumetric Attacks
 - Addressing Application Vulnerabilities with iRules and Local Traffic Policies
- Chapter 12: Securing Application Delivery with LTM
- Detecting and Mitigating Other Common HTTP Threats
- Chapter 13: Final Lab Project
- Chapter 14: Additional Training and Certification
- Getting Started Series Web-Based Training
 - F5 Instructor Led Training Curriculum
 - F5 Professional Certification Program

Test and Certification

Administering BIG-IP v.16.1 Exam 201 – TMOS Administration

Prerequisite: Valid passing score on Exam 101 or valid F5-CTP, Sales Certification

This is the second and final exam that must be completed successfully by candidates wishing to achieve F5 Certified! Administrator, BIG-IP status.

Passing this exam shows independence in performing day-to-day operations and basic troubleshooting of TMOS-based devices in various application environments after it has been installed, configured, and implemented.

Individuals may choose to complete their certification journey here or move on to pursue the Technical Professional, Technical Specialist, Cloud or Security Solutions certification tracks.

View Exam 201 study materials on AskF5 Configuring BIG-IP LTM v16.1: Local Traffic Manager

Exam 301a - BIG-IP LTM Specialist: Architect, Set-up, Deploy Prerequisites: Valid F5-CA, BIG-IP Certification

This is the first of two exams in the F5 Certified Technology Specialist, BIG-IP LTM certification and serves as a prerequisite to exam 301b.

Candidates who pass this exam possess an understanding of underlying principles – from SSL-based VPN implementation to symmetric and asymmetric acceleration – and can draw on that insight to integrate BIG-IP LTM into existing networks as well as new implementations.

Receiving the F5-CTS, BIG-IP LTM certification is a prerequisite for both the Cloud and Security Solutions Expert certification tracks.

View Exam 301a study materials on AskF5 Exam 301b - BIG-IP LTM Specialist: Maintain and Troubleshoot

Prerequisites: Valid F5-CA, BIG-IP Certification, valid passing score on Exam 301a

This is the second exam candidates are required to pass in order to receive the F5 Certified Technology Specialist, BIG-IP LTM certification.

Passing this exam validates their ability to design, implement, maintain, and troubleshoot advanced F5 product features to enhance the effectiveness of an Application Delivery Network.

In addition, it shows that a candidate understands underlying principles – from SSL-based VPN implementation to symmetric and asymmetric acceleration – and can draw on that insight to integrate BIG-IP LTM into existing networks as well as new implementations.

Receiving the F5-CTS, BIG-IP LTM certification is a prerequisite for both the Cloud and Security Solutions Expert certification tracks. View Exam 301b study materials on AskF5

Exam vouchers can be purchased from Arrow ECS at an additional charge. Vouchers can be used at www.vue.com/f5 to schedule exams at a time and location convenient to the attendee.

Session Dates

Date	Location	Time Zone	Language	Type	Guaranteed	PRICE
01 Sep 2025	Virtual Classroom	BST	English	Instructor Led Online		£3,495.00 £3,145.50
10 Nov 2025	Virtual Classroom	GMT	English	Instructor Led Online		£3,495.00
15 Dec 2025	Virtual Classroom	GMT	English	Instructor Led Online		£3,495.00
21 Jul 2025	Virtual Classroom	BST	English	Instructor Led Online	Yes	£3,495.00 £2,796.00
11 Aug 2025	Virtual Classroom	BST	English	Instructor Led Online		£3,495.00 £2,970.75
22 Sep 2025	Virtual Classroom	BST	English	Instructor Led Online		£3,495.00 £3,145.50
01 Dec 2025	Virtual Classroom	GMT	English	Instructor Led Online		£3,495.00

Additional Information

[This training is also available as onsite training. Please contact us to find out more.](#)