

## **Enterprise Computing Solutions - Education Services**

# **TRAINING OFFERING**

Du kan nå oss her

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## Configuring BIG-IP LTM: Local Traffic Manager v17.1

CODE: LENGTH: PRICE:

F5N BIG-LTM-CFG-3 24 Hours (3 days) kr30,500.00

## **Description**

This course gives network professionals a functional understanding of BIG-IP Local Traffic Manager, introducing students to both commonly used and advanced BIG-IP LTM features and functionality. Incorporating lecture, extensive hands-on labs, and classroom discussion, the course helps students build the well-rounded skill set needed to manage BIG-IP LTM systems as part of a flexible and high performance application delivery network.

Topics covered in this course include:

v17.1 Course Topics

BIG-IP initial setup (licensing, provisioning, and network configuration)

A review of BIG-IP local traffic configuration objects

Using dynamic load balancing methods

Modifying traffic behavior with persistence (including SSL, SIP, universal, and destination address affinity persistence)

Monitoring application health with Layer 3, Layer 4, and Layer 7 monitors (including transparent, scripted, and external monitors)

Processing traffic with virtual servers (including network, forwarding, and reject virtual servers)

Processing traffic with SNATs (including SNAT pools and SNATs as listeners)

Configuring high availability (including active/standby and N+1 sync failover device groups, connection and persistence mirroring, and sync-only device groups)

Modifying traffic behavior with profiles (including advanced HTTP profile options, caching, compression, and OneConnect profiles)

Advanced BIG-IP LTM configuration options (including VLAN tagging and trunking, SNMP features, and packet filters)

Deploying application services with iApps

Customizing application delivery with iRules and local traffic policies

By the end of this course, the student should be able to use both the Configuration utility, TMSH, and Linux commands to configure and manage BIG-IP LTM systems in an application delivery network. In addition, students should be able to monitor the BIG-IP system to achieve operational efficiency, and establish and maintain high availability infrastructure for critical business applications.

## **Objectives**

#### v17.1 COURSE OUTLINE

### Chapter 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

#### **Chapter 2: Reviewing Local Traffic Configuration**

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

#### **Chapter 3: Load Balancing Traffic with LTM**

**Exploring Load Balancing Options** 

Using Priority Group Activation and Fallback Host

Comparing Member and Node Load Balancing

**Chapter 4: Modifying Traffic Behavior with Persistence** 

Reviewing Persistence

Introducing SSL Persistence

Introducing SIP Persistence Introducing Universal Persistence Introducing Destination Address Affinity Persistence Using Match Across Options for Persistence

#### **Chapter 5: Monitoring Application Health**

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

#### **Chapter 6: Processing Traffic with Virtual Servers**

Understanding the Need for Other Virtual Server Types Forwarding Traffic with a Virtual Server Understanding Virtual Server Order of Precedence Path Load Balancing

#### **Chapter 7: Processing Traffic with SNATs**

Overview of SNATs
Using SNAT Pools
SNATs as Listeners
SNAT Specificity
VIP Bounceback
Additional SNAT Options
Network Packet Processing

#### **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 9: Modifying Traffic Behavior with Profiles**

Profiles Overview
TCP Profile Settings
TCP Express Optimization
Performance Improvements
Configuring and Using Profiles
HTTP Profile Options
OneConnect
Offloading HTTP Compression to BIG-IP
HTTP Caching
Stream Profiles
F5 Acceleration Technologies

#### **Chapter 10: Selected Topics**

VLAN, VLAN Tagging, and Trunking Restricting Network Access SNMP Features

## Chapter 11: Deploying Application Services with iApps

Simplifying Application Deployment with iApps Using iApps Templates Deploying an Application Service Reconfiguring an Application Service Leveraging the iApps Ecosystem on DevCentral

#### Chapter 12: Customizing Application Delivery with iRules and Local Traffic Policies

Getting Started with iRules Triggering an iRule Introducing iRule Constructs
Leveraging the DevCentral Ecosystem
Deploying and Testing iRules
Getting Started with Local Traffic Policies
What Can You Do with a Local Traffic Policy?
How Does a Local Traffic Policy Work?
Understanding Local Traffic Policy Workflow
Introducing the Elements of a Local Traffic Policy
Specifying the Matching Strategy
What Are Rules?
Understanding Requires and Controls
Configuring and Managing Policy Rules
Configuring a New Rule
Including Tcl in Certain Rule Settings

#### **Chapter 13: Final Lab Project**

About the Final Lab Project Possible Solution to Lab 13.1

#### **Audience**

This course is intended for system and network administrators responsible for installation, setup, configuration, and administration of the BIG-IP LTM system.

## **Prerequisites**

Students must complete one of the following F5 prerequisites before attending this course:

Administering BIG-IP instructor-led course

F5 Certified BIG-IP Administrator

The following free web-based courses, although optional, will be very helpful for any student with limited BIG-IP administration and configuration experience. These courses are available at F5 University:

Getting Started with BIG-IP web-based training

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

The following general network technology knowledge and experience are recommended 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

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

Web application delivery

HTTP, HTTPS, FTP and SSH protocols

TLS/SSL

#### **Session Dates**

Date	Location	Time Zone	Language	Туре	Guaranteed	PRICE
10 Dec 2025	Virtual Classroom (CET / UTC +1)	CET	English	Instructor Led Online	Yes	kr30,500.00

## **Tilleggsinformasjon**

Denne treningen er også tilgjengelig som trening på stedet. Kontakt oss for å finne ut mer.