



**Enterprise Computing Solutions - Education Services**

## **TRAINING OFFERING**

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

CODE:	LENGTH:	PRICE:
F5N_BIG-LTM-CFG-3	24 Hours (3 days)	kr27,500.00

## 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: v13 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

Introducing the BIG-IP System

Initially Setting Up the BIG-IP System

Archiving the BIG-IP Configuration

### v13 COURSE OUTLINE Chapter 1: Setting Up the BIG-IP System 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)

### Chapter 2: Reviewing Local Traffic Configuration Reviewing Managing BIG-IP Configuration Data

Exploring Load Balancing Options

Using Priority Group Activation and Fallback Host

### Chapter 3: Load Balancing Traffic with LTM Comparing Member and Node Load Balancing

Reviewing Persistence

Introducing SSL Persistence

Introducing SIP Persistence

Introducing Universal Persistence

Introducing Destination Address Affinity Persistence

### Chapter 4: Modifying Traffic Behavior with 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

**Chapter 5: Monitoring Application Health** 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

**Chapter 6: Processing Traffic with Virtual Servers** Path Load Balancing  
Overview of SNATs  
Using SNAT Pools  
SNATs as Listeners  
SNAT Specificity  
VIP Bounceback  
Additional SNAT Options

**Chapter 7: Processing Traffic with SNATs** 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

VLAN, VLAN Tagging, and Trunking  
Restricting Network Access

**Chapter 10: Selected Topics** SNMP Features

Simplifying Application Deployment with iApps  
Using iApps Templates  
Deploying an Application Service  
Reconfiguring an Application Service

**Chapter 11: Deploying Application Services with iApps** 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

About the Final Lab Project

**Chapter 13: 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	Type	Guaranteed	PRICE
15 May 2024	Virtual Classroom (CET / UTC +1)	CEDT	English	Instructor Led Online		kr27,500.00

## Tilleggsinformasjon

Denne treningen er også tilgjengelig som trening på stedet. [Kontakt oss for å finne ut mer.](#)