

F5 BIG-IP LTM: System Maintenance & Traffic Management

Learn to install, configure and maintain F5 BIG-IP LTM for load balancing, SSL processing and high availability.

3 Days

24 HOURS

11

MODULES

36

TOPICS

18

HANDS-ON LABS

COURSE OVERVIEW

The F5 BIG IP LTM course offers comprehensive training on the F5 BIG IP Local Traffic Manager (LTM), providing learners with the skills and knowledge to manage, optimize, and secure network traffic. This course is ideal for network engineers, system administrators, and IT professionals who seek to understand the intricacies of the F5 LTM platform. Starting with Module-1, participants will gain hands-on experience with Installation and Initial Access, covering essential steps from an overview of the Big-IP LTM, through Licensing, Provisioning, and setup labs, to understanding different hardware platforms. This foundational knowledge paves the way to more advanced topics such as Load Balancing, Monitors, Profiles, and Persistence in subsequent modules. Learners will also delve into Processing SSL Traffic, managing NATs and SNATs, and leveraging iRules for customized traffic management. High availability and redundancy are crucial topics covered, ensuring systems are robust and resilient. By the end of the course, participants will be adept at Maintaining BIG-IP LTM systems and prepared to optimize their network's performance effectively. This F5 LTM course equips learners with the practical abilities required to excel in managing F5 BIG IP local traffic manager solutions.

WHO THIS COURSE IS FOR

The F5 BIG-IP LTM course equips IT professionals with skills to manage high-availability networks efficiently.

Network Engineers

System Administrators

Network Administrators

Infrastructure Architects

Security Engineers

IT Operations Professionals

Cloud Engineers

DevOps Engineers

Technical Support Specialists

Network Operations Center (NOC) Staff

IT Professionals looking to specialize in network traffic management

Professionals seeking F5 Certification

What You Will Learn

- Describe Big-IP LTM licensing, provisioning and hardware platforms
- Configure virtual servers, pools and load balancing modes
- Apply monitors to nodes, pools and members
- Configure profiles including protocol profile types and settings
- Implement persistence methods such as source address and cookie
- Configure SSL termination and SSL profile settings
- Configure NATs and SNATs for traffic translation
- Plan redundant pair setup and high-availability failover

COURSE SYLLABUS

11 Modules, 36 Topics

01

5 Labs

Installation and Initial Access

TOPICS

Big-IP LTM overview · Licensing and Setup utility · Provisioning · Installation and setup labs · Big-IP hardware platforms

02

2 Labs

Load Balancing

TOPICS

Virtual Servers and pools · Network MAP · Load Balancing Modes

03

2 Labs

Monitors

TOPICS

Monitor Concepts · Monitor Configurations · Monitor Assignments · Monitor Status Reporting

04

Lab

Profiles

TOPICS

Profiles · Profiles Types and Dependencies · Protocol profile Types and settings

05

3 Labs

Persistence

TOPICS

Concept of Persistence · Source Address persistence · Cookie Persistence · Object Management

06

2 Labs

Processing SSL Traffic

TOPICS

SSL termination / Initiation · SSL profile Configuration

07

2 Labs

NATs and SNATs

TOPICS

NATs · SNATs

08

Lab

iRules

TOPICS

iRules Concept · iRules Events

09

Redundant Pair Installation

TOPICS

Redundant Pair Concept · Synchronization state and Failover · Redundant Pair Communication · Upgradation

10

High Availability

TOPICS

Failover triggers · Failover triggers configurations · Failover detection · Stateful failover · MAC Masquerading

11

Maintaining BIG-IP LTM

TOPICS

Additional Tools and Resources · Documentation for F5 Supports

HANDS-ON LABS

Practise What You Learn

#	MODULE	ACTIVITY
01	Installation and Initial Access	- Lab-1 Changing Initial IP address - Lab-2 Licensing the system - Lab-3 Setup Utility - Lab-4 Configuration Utility - Lab-5 Configuration backup
02	Load Balancing	- Lab-1 Virtual servers and pools - Lab-2 Load Balancing
03	Monitors	- Lab-1 Monitors for Nodes - Lab-2 Monitors for Pools and members
04	Profiles	Lab-1 Configuring Profile
05	Persistence	- Lab-1 Source Address persistence - Lab-2 Cookie Persistence - Lab-3 Disabled Members

#	MODULE	ACTIVITY
06	Processing SSL Traffic	■ Lab-1 Client SSL termination ■ Lab-2 Client and Server SSL (Optional)
07	NATs and SNATs	■ Lab-1 Configuring NAT ■ Lab-2 Configuring SNAT
08	iRules	Lab-iRules

WHAT IS INCLUDED

Everything You Need to Succeed

- Koenig course material for every module
- Delivery by certified instructors and subject matter experts
- Hands-on exercises throughout the course
- Course completion certificate from Koenig

ABOUT KOENIG

Who We Are

Established in 1993, Koenig Solutions is a globally recognised training provider with 35+ technology partnerships, 5,000+ training programmes and a network of certified instructors and subject matter experts, supporting individuals and enterprise teams worldwide.

FLEXIBLE DELIVERY

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Flexi (Self-Paced)

1-on-1 Training

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