# Configuring BIG-IP LTM: Local Traffic Manager v.17.5 Training

Duration: **3 Day**

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## Overview

This 3 day 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. This course is intended for system and network administrators responsible for installation, setup, configuration, and administration of the BIG-IP LTM system.

## Prerequisites

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

- Administering BIG-IP instructor-led course
- F5 Certified BIG-IP Administrator

F5 have advised that with the introduction of v13 there is no longer any overlap between the BIG-IP Admin course and the Configuring LTM course. This has started to present many issues for delegates attending the LTM course without having sufficient BIG-IP Admin skills. To help solve this F5 US has brought out a BIG-IP Admin exam which can be taken before attending the LTM course. Indeed, this test should be taken by anyone wanting to attend any of the F5 specialist classes (DNS, APM, ASM, AFM etc.) if they have not attended the BIG-IP Admin or LTM class. Although this is not mandatory, F5 would like to stress the importance of anyone attending F5 specialist classes if they have not attended an Admin class or passed the test below with 70% or greater. Obviously, a 201 BIG-IP Administrator exam certification is an instant prerequisite.

- Step 1: get an account on F5 University (https://university.f5.com)
- Step 2: goto: https://wbt.training.f5.com/wbt/go?id=2110 Take the test. Pass mark is 70%.
- Step 3: take a screen shot as proof of your results. Please note that if this prerequisite is not met, the supplier reserves the right to refuse entry to the class without refund.

The following free web-based courses, although optional, will be very helpful for any student with limited BIG-IP administration and configuration experience:

- 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

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- 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

## What You Will Learn

- 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.