

# BIG-IP® LTM™ ADVANCED TOPICS V9.X

This two-day course gives networking professionals an in-depth understanding of the [BIG-IP LTM v9](#) system. The Advanced Topics course builds on the foundation of the BIG-IP LTM Essentials v9.x course and also covers less commonly used but more powerful ways of using the many features of the BIG-IP LTM system. In addition, significant time is spent using the command line tools to configure the BIG-IP LTM system. This hands-on course includes lectures, labs and discussions. Students will learn about command line functions, advanced configurations, and advanced troubleshooting.

## COURSE DESCRIPTION

Topics covered in-depth in this class include:

- bigpipe commands
- Advanced Monitors
- Advanced [iRules](#)
- Advanced Persistence
- Advanced SNATs
- Advanced Virtual Server Concepts
- Logs and Notification
- HTTP Profiles
- Virtual Server Bounceback
- [Rate Shaping](#)
- Firewall Sandwiches

By the end of this course, the student should be able to perform many advanced configurations of BIG-IP LTM systems using either the Graphical User Interface (browser based) or command line interface. In addition, the student should be able to monitor and manage most tasks concerning traffic processed through the BIG-IP LTM system.

### Audience

This course is intended for experienced users of the BIG-IP LTM system including system and network administrators responsible for its advanced functionality.

### Prerequisites

Students must have either successfully completed the [BIG-IP LTM Essentials v9.x course](#), or passed the BIG-IP LTM v9.x Certification Exam (511). For more details on certification exams, see the [F5 Certification](#) page.

Students should understand:

- TCP/IP Addressing and Routing including:
  - The Address Resolution Protocol
  - Direct and Indirect Routing
  - TCP Handshakes
- Command Line Configuration including:
  - Commands and Parameters
- Command Line Access (DOS or UNIX)

- Common elements of and differences between WAN and LAN components
- Fundamental programming concepts such as variable assignments and logical operations

In addition, it helps if students are familiar with:

- The Linux File System
- Pico editor or VI editor,
- The tcpdump program, and
- Shell scripting
- TCL (Tool Control Language)