F5 BIG IP LTM

Duration: 24 Hours (3 Days)

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.

Audience Profile

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

Course Syllabus

F5-LTM Level 300

Table of Content

Module-1 Installation and Initial Access

- Big-IP LTM overview
- Licensing and Setup utility
- Provisioning

- Installation and setup labs
- Big-IP hardware platforms
- Lab-1 Changing Initial IP address
- Lab-2 Licensing the system
- Lab-3 Setup Utility
- Lab-4 Configuration Utility
- Lab-5 Configuration backup

Module-2 Load Balancing

- Virtual Servers and pools
- Network MAP
- Load Balancing Modes
- Lab-1 Vertual servers and pools
- Lab-2 Load Balancing

Module-3 Monitors

- Monitor Concepts
- Monitor Configurations
- Monitor Assignments
- Monitor Status Reporting
- Lab-1 Monitors for Nodes
- Lab-2 Monitors for Pools and members

Module-4 Profiles

- Profiles
- Profiles Types and Dependencies
- Protocol profile Types and settings
- Lab-1 Configuring Profile

Module-5 Persistence

- Concept of Persistence
- Source Address persistence
- Cookie Persistence
- Object Management
- Lab-1 Source Address persistence
- Lab-2 Cookie Persistence
- Lab-3 Disabled Members

Module-6 Processing SSL Traffic

- SSL termination / Initiation
- SSL profile Configuration
- Lab-1 Client SSL termination
- Lab-2 Client and Server SSL (Optional)

Module-7 NATs and SNATs

- NATs

- SNATs
- Lab-1 Configuring NAT
- Lab-2 Configuring SNAT

Module-8 iRules

- iRules Concept
- iRules Events
- Lab-iRules

Modlule-9 Redundant Pair Installation

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

Module-10 High Availability

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

Module-11 Maintainig BIG-IP LTM

- Additional Tools and Resources
- Documentation for F5 Supports