



F5 BIG-IP Global Traffic Manager™ (GTM) - V11.2

Code: ACBE–F5-GTM

Days: 2

Course Description:

This two-day course gives networking professionals a functional understanding of the BIG-IP® GTM system as it is commonly used. The course covers installation, configuration, and management of the BIG-IP GTM system. This hands-on course includes lectures, labs, and discussions.

Course Summarize:

Module 1: Installation and Initial Access

BIG-IP Global Traffic Manager Overview
Licensing, Provisioning, and the Setup Utility
GTM Backups
Installation and Setup Labs
 Lab – Changing the Initial IP Address
 Lab – Licensing the System and Provisioning
 Lab - Setup Utility
 Lab - Configuration Utility
 Lab – Configuration Backup
BIG-IP Hardware Platforms
Switch Card Control Processor (SCCP) and Always On Management (AOM)
 Lab – SCCP and AOM Configuration

Module 2: DNS Overview

The Domain Name System (DNS)
The Name Resolution Process
DNS and GTM System Options
Resolution Diagnostic Tools

Module 3: Accelerated DNS Resolutions

GTM and DNS Resolutions
Hierarchy of Options Flow Chart
GTM Listeners
 • **Lab** - Configuring Listeners
Load Balancing DNS Queries

- **Lab** – Configuring DNS Load Balancing
- DNS Cache
- Lab – Caching DNS Queries
- DNS Express
- **Lab** – Configuring DNS Express
- Introduction to Wide-IPs
- **Lab** – Configuring Simple Wide-IP
- Other DNS Queries
- **Lab** – Standard DNS Server
- DNS Integration

Module 4: Intelligent DNS Resolutions

- GTM Intelligent DNS Resolutions
- Metric Collection
- Intelligent Name Resolution
- Data Centers
- **Lab** – Adding Data Centers
- GTM Systems
- **Lab** – Adding GTM Systems
- Adding LTM Systems
- **Lab** – Adding LTM Systems
- GTM/LTM System Communications: iQuery
- **Lab** – Lab-bigip_add
- Adding Non-F5 Servers
- **Lab** – Adding Non-F5 Servers
- Links
- Wide IPs
- **Lab** – Configuring Wide IPs
- Command Line using tmsh

Module 5: LDNS Probes and Metrics

- Metric Overview
- LDNS Probe Configuration
- **Lab** – LDNS Probe Lab

Module 6: Load Balancing

- Load Balancing Overview
- Static Load Balancing Modes
- Dynamic Load Balancing Modes
- Quality of Service Load Balancing
- Persistence
- **Lab** – Dynamic Persistence
 - **Lab** – Static Persistence
 - **Lab** – Ratio Load Balancing
 - **Lab** – Global Availability Load Balancing
- Manual Resume
- **Lab** – Manual Resume
- Topology Load Balancing
- Lab – Topology Load Balancing

Module 7: Monitors

- Monitors Overview
- Monitor Types
- Monitor Configuration
- Monitor Assignments
- Monitor Status Reporting
- Monitor Results and Best Practices
 - **Lab** – Monitors

Module 8: Logs and Notification

- System Log Configuration
- Log Files
- Remote Syslog Notification
 - **Lab** – Remote System Log Server
- The Alerte Process
- LCD Notification
- SNMP Notification
 - **Lab** – SNMP Trap
- E-Mail Notification

Module 9: Advanced Topics

- DNSSEC
 - **Lab** – DNSSEC
- Limits and Thresholds
- GTM iRules
 - **Lab** – iRules Lab 1
 - **Lab** – iRules Lab 2
- Synchronization Groups
 - **Lab** – Synchronization
- BIG-IP Configuration Files
- BIG-IP iHealth
- DNS 6 to 4
 - **Lab** – Configure IPv6 Client Load Balancing (Optional)

Module 10: Configuration Project

- Review Topics
- Review Questions
 - Configuration Lab Project

Appendix A – Installation

- Pre-Installation Information
- Pre-Installing Hardware Checklist
- Installing BIG-IP GTM Software
 - **Optional Lab:** v11 Provisioning
 - **Optional Lab:** v11 Reload Steps
- F5 Knowledge Base References

Appendix B – Additional Topics

tcpdump

Recovering Passwords

Content Delivery Networks

Distributed Applications

SNMP Monitor

Appendix C – Bind and ZoneRunner

BIND and ZoneRunner

Configuring BIND Files with ZoneRunner

ZoneRunner and Bind Labs