

Table Of Contents

- Module 1: Installation 1-1**
 - 1.1 BIG-IP Global Traffic Manager Overview 1-1
 - 1.2 Licensing and the Setup Utility 1-7
 - 1.3 NTP Servers 1-13
 - 1.4 Installation and Setup Labs 1-14
 - Lab – Changing the Initial IP Address 1-14**
 - Lab – Licensing the System 1-15**
 - Lab - Setup Utility..... 1-17**
 - Lab - Configuration Utility and Backup..... 1-19**

- Module 2: DNS Overview..... 2-1**
 - 2.1 The Domain Name System (DNS) 2-1
 - 2.2 The Name Resolution Process 2-3
 - 2.3 DNS Server Options 2-5
 - 2.4 The GTM Perspective 2-6
 - 2.5 Resolution Options 2-10

- Module 3: Configuration..... 3-1**
 - 3.1 Configuring GTM Objects 3-1
 - 3.2 GTM Listeners 3-3
 - Lab - Configuring Listeners 3-5**
 - 3.3 Data Centers 3-6
 - Lab – Adding Data Centers 3-7**
 - 3.4 GTM Systems 3-8
 - Lab - Defining GTM Systems 3-9**
 - 3.5 Adding LTM Systems 3-10
 - Lab - Adding LTM Systems 3-12**
 - 3.6 GTM/LTM System Communications 3-13
 - 3.7 big3d Agent and iQuery..... 3-15
 - Lab - bigip_add 3-18**
 - 3.8 Adding Non-F5 Servers 3-19
 - Lab - Adding Non-F5 Servers 3-21**
 - 3.9 Links 3-22
 - 3.10 Pools 3-24
 - Lab - Configuring Pools 3-26**
 - 3.11 Wide IP 3-27
 - Lab - Configuring Wide IPs 3-29**

<p>Course Outline – Day 1</p> <ul style="list-style-type: none">1. Installation2. DNS Overview3. Configuration4. Monitors and Probes5. Load Balancing

Table of Contents

3.12	GTM System Backup and Restore	3-30
3.13	Changing Objects Status	3-32
	Lab - Objects Status	3-34
Module 4: Monitors and Probes.....		4-1
4.1	Metric Gathering Overview	4-1
4.2	Monitor Types	4-2
4.3	Monitor Configuration	4-6
4.4	Monitor Assignment	4-9
4.5	Monitor Status Reporting	4-12
	Lab – Monitors	4-13
4.6	LDNS Probe Configuration	4-15
	Lab – LDNS Probe.....	4-18
Module 5: Load Balancing.....		5-1
5.1	Load Balancing Overview	5-1
5.2	Static Load Balancing Modes	5-2
5.3	Dynamic Load Balancing Modes.....	5-6
5.4	Configuring Load Balancing.....	5-9
5.5	Load Balancing Labs	5-11
	Lab - Dynamic Persistence.....	5-11
	Lab - Static Persistence	5-12
	Lab - Ratio Load Balancing	5-13
	Lab - Global Availability Load Balancing	5-15
5.6	Manual Resume	5-16
	Lab – Manual Resume.....	5-17
Module 6: ZoneRunner		6-1
6.1	BIND and ZoneRunner	6-1
6.2	BIND Database File Format	6-5
6.3	Configuring BIND Files with ZoneRunner	6-7
6.4	ZoneRunner and Bind Labs	6-11
	Lab – Primary Zone Configuration	6-11
	Lab – “NS” Records Configuration	6-12
	Lab – “A” Records Configuration	6-12
	Lab – MX Records Configuration	6-13
	Lab – CNAME Records Configuration	6-13
	Lab – Secondary Zone Configuration	6-14
6.5	DNS Migration	6-15
	Lab – Delegation Lab (Optional)	6-18

Course Outline – Day 2
6. BIND and Zonerunner
7. Logs and Notification
8. Advanced Topics
9. Configuration Project

Table of Contents

Module 7: Logs and Notification	7-1
7.1 System Log Configuration	7-1
7.2 Log Files	7-5
7.3 Remote Syslog Notification	7-7
7.4 The Alertd Process	7-9
7.5 LCD Notification	7-12
Lab – Custom LCD Message (Optional)	7-13
7.6 SNMP Notification	7-14
Lab – SNMP Trap	7-17
7.7 E-Mail Notification	7-19
Module 8: Advanced Topics	8-1
8.1 Dynamic Ratio	8-1
8.2 Limits and Thresholds	8-2
8.3 Content Delivery Networks	8-4
8.4 Additional Pool Variables	8-8
8.5 Distributed Applications	8-9
8.6 Quality of Service Load Balancing	8-11
8.7 Topology Load Balancing	8-12
Lab – Topology Load Balancing	8-15
8.6 GTM iRules	8-16
Lab – iRules	8-23
8.9 Synchronization	8-25
Lab – Synchronization	8-27
Module 9: Configuration Project	9-1
9.1 Review Topics	9-1
9.2 Configuration Project Lab	9-2
Appendix A – Installation	A-1
A.1 Pre-Installation Information	A-1
A.2 Re-Installing BIG-IP v9.x Software	A-5
Appendix B – New Features in GTM v9.2.2	B-1
Appendix C – Additional Topics	C-1
C.1 tcpdump	C-1
C.2 Recovering Corrupted Passwords	C-6
Appendix D – Powerpoint slide printout	D-1