

Table of Contents

Module 1: Installation and Initial Access	1-1
BIG-IP LTM Overview.....	1-1
Licensing and the Setup Utility.....	1-2
Provisioning.....	1-7
Installation and Setup Labs.....	1-9
Lab – Changing Initial IP Address.....	1-10
Lab – Licensing the System.....	1-12
Lab – Setup Utility.....	1-14
Lab – Configuration Utility.....	1-17
Lab – Configuration Backup.....	1-19
Lab – Provisioning.....	1-20
BIG-IP Hardware Platforms.....	1-21
Lab – SCCP / AOM IP Address Configuration	1-25
Module 2: Load Balancing	2-1
Virtual Servers and Pools	2-1
Configuring Virtual Servers and Pools	2-3
Lab – Virtual Servers - Pools.....	2-7
Network Map	2-12
Load Balancing Modes	2-14
Configuring Load Balancing.....	2-19
Labs – Load Balancing	2-21
Module 3: Monitors	3-1
Monitor Concepts.....	3-1
Monitor Configuration	3-3
Monitor Assignment.....	3-6
Monitor Status Reporting.....	3-9
Lab – Monitors for Nodes.....	3-11
Labs – Monitors for Pools and Members	3-13
Module 4: Profiles	4-1
Profiles	4-1
Profile Types and Dependencies	4-2
Protocol Profile Types and Settings.....	4-5
Configuring Profiles.....	4-9

Table of Contents

Module 5: Persistence	5-1
Persistence Concepts	5-1
Source Address Persistence.....	5-2
Lab – Source Address Persistence	5-5
Cookie Persistence	5-8
Lab – Cookie Persistence	5-15
Object Management	5-18
Lab – Disabled Members	5-21
Module 6 Processing SSL Traffic	6-1
SSL Termination/Initiation.....	6-1
SSL Profile Configuration.....	6-4
Lab – Client SSL Termination	6-7
Lab – Client and Server SSL (Optional)	6-9
Module 7: Configuration Project	7-1
Configuration Project	7-1
Lab –Configuration Project.....	7-2
Review Questions – Modules 1 to 6	7-6
Module 8: NATs and SNATs	8-1
NATs	8-1
Lab – NAT Lab	8-4
SNATs.....	8-6
Labs – SNAT Labs.....	8-9
Module 9: iRules	9-1
iRules Concepts.....	9-1
iRules Events.....	9-4
Configuring iRules	9-6
Labs – iRules Lab #1.....	9-7
Labs – iRules Lab #2.....	9-10
Module 10: Installation of a Redundant Pair	10-1
Redundant Pair Concepts	10-1
Synchronization State and Failover.....	10-3
Lab –Redundant Pair Setup.....	10-5
Lab – Synchronization	10-7
Redundant Pair Communication.....	10-9
Upgrading the BIG-IP LTM Software	10-10

Table of Contents

Module 11: High Availability	11-1
Fail-over Triggers.....	11-1
Fail-over Trigger Configuration.....	11-3
Lab – Failover Triggers.....	11-5
Failover Detection.....	11-6
Lab – Network Failover.....	11-7
Stateful Fail-over.....	11-9
Lab – Connection Mirroring.....	11-11
Lab – Persistence Mirroring.....	11-12
MAC Masquerading.....	11-14
Optional Lab – MAC Masquerading.....	11-15
Module 12: Maintaining BIG-IP LTM	12-1
Additional Tools and Resources.....	12-1
Documentation for F5 Support.....	12-3
Optional Labs – F5 Resources.....	12-13
Appendix A - Installation	A-1
Pre-Installation Information.....	A-1
Installation Worksheet.....	A-4
V10.x Installation options.....	A-5
V10.x Optional re-install lab.....	A-9
V9.x Installation options.....	A-10
Appendix B – New Features	B-1
New Feature summary for Version 10.0.0.....	B-1
New Features for Version 9.4.X.....	B-5
New Features for Version 9.2.X.....	B-11
Appendix C – Additional Topics	C-1
tcpdump.....	C-1
Recovering Corrupted Passwords.....	C-7
Appendix D – HTTP Basics	D-1
Web Page Components.....	D-1
Requests and Responses.....	D-3
HTTP Headers.....	D-6
Printout of Powerpoints	