

F5 LTM Course Outline

PART 1: F5 LTM (Basics)

- Basics of Networking
- Introduction to LTM
- Base of Configuration of LTM
- Deploying a Web Application
- Understanding Load-balancing Methods
- Understanding SNAT
- Fundamentals of Profiles
- Introduction to persistence
- One Armed Mode

PART 2: F5 LTM (Advanced)

- iRule
- High Availability
- Troubleshooting LTM

PART 3: Bonus Topics

- CLI Configuration
- Software Upgrade
- Miscellaneous Topics

PART 4: Conclusion

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F5 LTM Course Outline

PART 1: F5 LTM (Basics)

Basics of Networking

- TCP/IP Model
- Operation of L2 Device (Switch)
- Operation of L3 Device (Router)
- TCP Session Establishment and Termination
- End to End Communication

Introduction to LTM

- Introduction to Load balancing
- Concepts of Node, Pool-member, Pool and Virtual-servers
- Introduction to Health Monitors

Base of Configuration of LTM

- VLANs, Interface Tagging
- Adding Static/Default Route
- Configuring Date and Time
- Self IPs and Floating IPs
- Creating a user account

Deploying a Web Application

- Configuring node, pool and virtual-server

Understanding Load-balancing Methods

- Static Load balancing Methods
 - Round-robin
 - Ratio
- Dynamic Load-balancing Methods
 - Dynamic Ratio
 - Fastest
 - Least Connection
 - Observed
 - Predictive
- Priority Based Group Activation

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Understanding SNAT

- SNAT Automap
- SNAT Pool
- Preserving source-port

Fundamentals of Profiles

- SSL Profile
- HTTP Profile
- One-Connect Profile
- Persistence Profiles

Introduction to persistence

- Source IP based persistence
- Cookie based persistence

One Armed Mode

PART 2: F5 LTM (Advanced)

iRule

- What is an iRule?
- Some Basic iRules for understanding
 - HTTP to HTTPS Redirection
 - Alias Creation
 - Pool Selection Manipulation

High Availability

- Introduction to High Availability
- Configuring HA pair
- Testing Redundancy
- Configuration Synchronization
- Connection Mirroring and Persistence Table Mirroring
- VLAN Safe

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Troubleshooting LTM

- Understanding Traffic Statistics
- Status Indicators
- Connection Table
- Packet Capturing Using TCPDUMP
- CURL Utility
- LTM Logs
- QKview File
- F5 Support
- Taking configuration Backup and Restoring Config From Backup

PART 3: Bonus Topics

CLI Configuration

- Creating Node, Pool and Virtual-server
- Deleting Node, Pool and Virtual-server
- Creating Health Monitor
- Creating SSL profile
- MD5 Verification of "SSL key" and "SSL Cert"
- Taking Configuration Backup
- Restoring Configuration from Backup
- Configuration Synchronization
- Creating VLANs
- Creating Trunk (Port-Channel)

Software Upgrade

- Licensing F5
- F5 Software upgrade (Standalone Device)
- F5 Software Upgrade (HA Pair)

Miscellaneous Topics

- Packet Filtering on F5
- Partitions
- Introduction to BIG IP Modules
- File Systems
- Types of Virtual-server
- Virtual-server Order of Operation

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PART 4: Conclusion

- Quick Summary of all chapters
- Assistance in Setting up LAB
- Interview Question Discussion
- Certification Guidance

