

# **F5 LTM (Local Traffic Manager)**

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- Initially Setting Up the BIG-IP System
- Backing Up and Restoring BIG-IP Configurations
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# *F5 GTM (Global Traffic Manager)*

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- Initially Setting Up the BIG-IP System
- Creating an Archive of the BIG-IP System
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### **DNS and GTM Systems**

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### **Monitors**

- Monitors and Metric Collection
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- Monitor Results and Best Practices

### **Configuration Files, Logs, and Notifications**

- BIG-IP Configuration Files

- Logging and Notification
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- High-Speed Logging
- Monitoring the BIG-IP System Remotely with SNMP

### **Advanced Topics**

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- Limits and Thresholds
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- BIG-IP iHealth and QKView Diagnostic Files
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- Using tcpdump on the BIG-IP System

# *F5 ASM (Application Security Manager)*

## *Course Contents*

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- Initially Setting Up the BIG-IP System
- Creating an Archive of the BIG-IP System
- Leveraging F5 Support Resources and Tools

### **Traffic Processing with BIG-IP**

- Understanding Traffic Processing with LTM
- Overview of Local Traffic Policies and ASM

### **Web Application Concepts**

- Anatomy of a Web Application
- An Overview of Common Security Methods
- Examining HTTP & Web Application Components
- Examining HTTP Headers
- Examining HTTP Responses
- Examining HTML Components
- How ASM parses File Types, URLs, & Parameters
- Using the Fiddler HTTP proxy tool

### **Web Application Vulnerabilities**

- Examining the OWASP Top 10 vulnerabilities
- Summary of risk mitigation using ASM

### **Security Policy Deployment**

- About Positive and Negative Security Models
- Deployment Wizard: Local Traffic Deployment
- Deployment Wizard: Configuration settings
- Violations and Security Policy Building
- Reviewing Violations

### **Attack Signatures**

- Defining Attack Signatures
- Attack Signature Features
- Defining Attack Signature Sets
- About User-defined Attack Signatures

Updating Attack Signatures  
Understanding Attack Signatures and staging

### **Positive Security Policy Building**

Defining Security Policy Components  
Security Through Entity Learning  
Reviewing Staging and Enforcement  
Understanding the Selective mode  
Learning Differentiation: Real threats vs. false positives

### **Cookies and other Headers**

Purposes of ASM Cookies  
Understanding Allowed and Enforced Cookies  
Configuring security processing on HTTP headers

### **Reporting and Logging**

Reporting capabilities in ASM  
Generating a PCI Compliance Report  
Generating an ASM Security Events Report

### **User Roles, policy modification, and other deployments**

Understanding User Roles & Partitions  
Editing and Exporting Security Policies

### **Advanced parameter handling**

Defining Parameters  
Defining Static Parameters  
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### **Real Traffic Policy Builder & Rules**

Overview of the Real Traffic Policy Builder  
Defining Policy Types  
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Configuring session and user tracking  
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### **Anomaly Detection**

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