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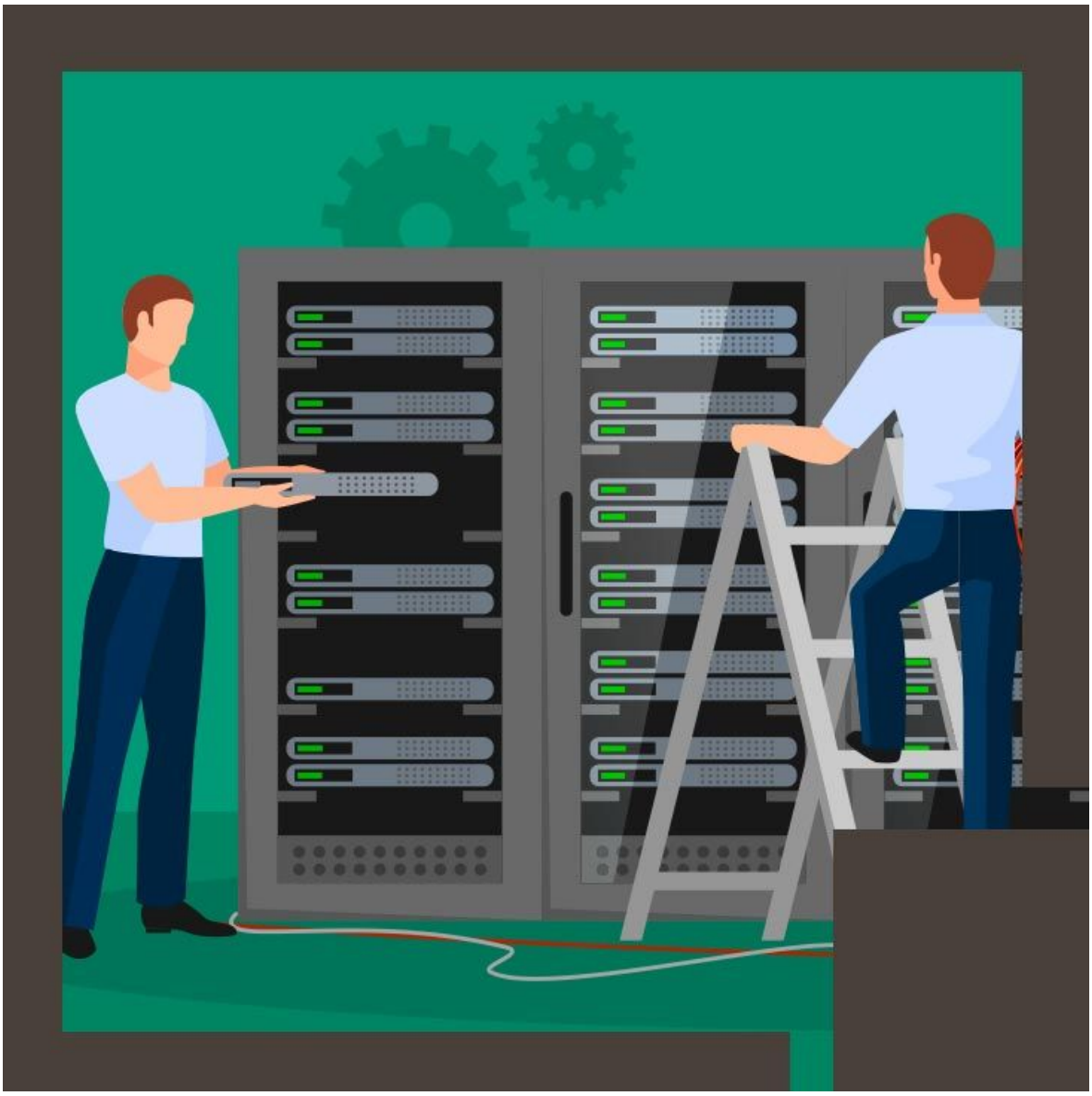
Learning Style: Virtual Classroom

Technology: F5

Difficulty: Intermediate

Course Duration: 3 Days

F5 Networks Configuring BIG-IP LTM v12: Local Traffic Manager (F5-LTMv12)



About this course:

This course is created for students wishes to get key knowledge and skills of BIG-IP LTM systems. In this course, you will learn about the BIG-IP LTM system's configuration, installation, and management. This required the following as prerequisites: WAN and LAN environments, TMOS Administration certification and OSI Model.

Moreover, the topics covered in this course are ideal for people looking to boost their career as Network Administrators.

Course Objective:

- Processing of Network, virtual servers, and traffic with virtual servers
- Initial setup of BIG-IP including configuration of network, license and provision
- SNATs, SNAT pools and SNATs listeners
- Tracking application health with transparent and external monitors
- Monitor Scripted Monitor
- Application Services with iApps
- Customization of application delivery with iRules

Audience:

This course is designed for:

Administrators of System and network

BIG-IP LTM system administrator

Prerequisites:

Anyone who has F5 BIG-IP administration certificati

Course Outline:

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Lesson 1: Setting Up the BIG-IP System

- Introducing the BIG-IP System
- Initially Setting Up the BIG-IP System
- Archiving the BIG-IP Configuration
- Leveraging F5 Support Resources and Tools

Lesson 2: Reviewing Local Traffic Configuration

- Reviewing Nodes, Pools, and Virtual Servers

- Reviewing Address Translation
- Reviewing Routing Assumptions
- Reviewing Application Health Monitoring
- Reviewing Traffic Behavior Modification with Profiles
- Reviewing the TMOS Shell (TMSH)
- Reviewing Managing BIG-IP Configuration Data

Lesson 3: Load Balancing Traffic with LTM

- Exploring Load Balancing Options
- Using Priority Group Activation and Fallback Host
- Comparing Member and Node Load Balancing

Lesson 4: Modifying Traffic Behavior with Persistence

- Reviewing Persistence
- Introducing Cookie Persistence
- Introducing SSL Persistence
- Introducing SIP Persistence
- Introducing Universal Persistence
- Introducing Destination Address Affinity Persistence
- Using Match Across Options for Persistence

Lesson 5: Monitoring Application Health

- Differentiating Monitor Types
- Customizing the HTTP Monitor
- Monitoring an Alias Address and Port
- Monitoring a Path vs. Monitoring a Device
- Managing Multiple Monitors
- Using Application Check Monitors
- Using Manual Resume and Advanced Monitor Timer Settings

Lesson 6: Processing Traffic with Virtual Servers

- Understanding the Need for Other Virtual Server Types
- Forwarding Traffic with a Virtual Server
- Understanding Virtual Server Order of Precedence
- Path Load Balancing

Lesson 7: Processing Traffic with SNATs

- Overview of SNATs
- Using SNAT Pools
- SNATs as Listeners
- SNAT Specificity
- VIP Bounceback
- Additional SNAT Options
- Network Packet Processing Review

Lesson 8: Modifying Traffic Behavior with Profiles

- Profiles Overview
- TCP Express Optimization
- TCP Profiles Overview
- HTTP Profile Options
- OneConnect
- Offloading HTTP Compression to BIG-IP
- HTTP Caching
- Stream Profiles
- F5 Acceleration Technologies

Lesson 9: Selected Topics

- VLAN, VLAN Tagging, and Trunking
- Restricting Network Access
- SNMP Features
- Segmenting Network Traffic with Route Domains

Lesson 10: Deploying Application Services with iApps

- Simplifying Application Deployment with iApps
- Using iApps Templates
- Deploying an Application Service
- Leveraging the iApps Ecosystem on DevCentral

Lesson 11: Customizing Application Delivery with iRules and Local Traffic Policies

- Getting Started with iRules
- Configuring and Managing Policy Rules

Lesson 12: Securing Application Delivery with LTM

- Understanding Today’s Threat Landscape
- Integrating LTM Into Your Security Strategy
- Defending Your Environment Against SYN Flood Attacks
- Defending Your Environment Against Other Volumetric Attacks
- Addressing Application Vulnerabilities with iRules and Local Traffic Policies
- Detecting and Mitigating Other Common HTTP Threats

Lesson 13: Final Lab Project

- About the Final Lab Project

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