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

Modality: Virtual Classroom

Duration: 3 Days

SATV Value:

CLC:

NATU:

SUBSCRIPTION: No

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:

Lesson 1 : Seting up the BIG-IP System

Introducing the BIG-IP System
Initially Setting Up the BIG-IP System
Archiving the BIG-IP Configurations
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 Dynamic Load Balancing Options
Using Priority Group Activation and Fallback Host
Comparing Member and Node Load Balancing

Lesson 4 : Modifying Traffic Behavior with Persistance

Reviewing 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

Lesson 6 : Processing Traffic with Virtual Servers

Virtual Servers Concepts
Path Load Balancing
Introducing Auto Last Hop

Lesson 7 : Processing Traffic with SNATs

Overview of SNATs
SNAT Auto Map
SNAT Pools
SNATs as Listeners
SNAT Specificity
VIP Bounceback
Additional SNAT Options
Network Packet Processing

Lesson 8 : Configuring High Availability

Sync-Failover Group Concepts
Synchronization, State and Failover
Traffic Group Concepts
N+1 Concepts

Lesson 9 : Configuring High Availability Part 2

Failover Triggers and Detection
Stateful Failover
Device Group Communication
Sync-Only Device Groups

Lesson 10 : Modifying Traffic with Profiles

Profiles Review
Common Protocol Profile Types and Settings
TCP Express Optimization
Performance Improvements
Configuring and Using Profiles
HTTP Profile Options
OneConnect
HTTP Compression
HTTP Caching
Stream Profiles
F5 Acceleration Technologies
Analytics

Lesson 11 : Selected Topics

VLAN, VLAN Tagging, and Trunking
Restricting Network Access
SNMP Features
Internet Protocol Version 6 (IPv6)
Route Domains

Lesson 12 : Deploying Application Services with iApps

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

Lesson 13 : Customizing Application Delivery with iRules and Local Traffic Policies

Getting Started with iRules
Triggering an iRules
Introducing iRules Constructs
Leveraging the DevCentral Ecosystem
Deploying and Testing iRules
Getting Started with Local Traffic Policies
Constructing and Managing Rules

Lesson 14 : Final Lab Project