



Enterprise Computing Solutions - Education Services

TRAINING OFFERING

Du kan nå oss här

Kronborgsgränd 7, 164 46 Kista

Email: edu.ecs.se@arrow.com

Phone: +46 8 555 188 00



Configuring BIG-IP LTM: Local Traffic Manager v16.1

CODE:	LENGTH:	PRICE:
F5N_BIG-LTM-CFG-3	3 days	kr27,500.00

Description

Delta på Administering BIG-IP och Configuring BIG-IP LTM: Local Traffic Manager under samma vecka och spara pengar på kurspriset!

Paketpris: 39.800SEK (ord pris båda kurserna: 46.000SEK)

Attend both Administering BIG-IP and Configuring BIG-IP LTM: Local Traffic Manager in the same week and save money!

Bundle: 39.800SEK both courses (list price both courses: 46.000SEK)

This course gives network professionals a functional understanding of BIG-IP Local Traffic Manager, introducing students to both commonly used and advanced BIG-IP LTM features and functionality. Incorporating lecture, extensive hands-on labs, and classroom discussion, the course helps students build the well-rounded skill set needed to manage BIG-IP LTM systems as part of a flexible and high performance application delivery network.

Topics covered in this course include: v14.1 Course Topics

BIG-IP initial setup (licensing, provisioning, and network configuration)

A review of BIG-IP local traffic configuration objects

Using dynamic load balancing methods

Modifying traffic behavior with persistence (including SSL, SIP, universal, and destination address affinity persistence)

Monitoring application health with Layer 3, Layer 4, and Layer 7 monitors (including transparent, scripted, and external monitors)

Processing traffic with virtual servers (including network, forwarding, and reject virtual servers)

Processing traffic with SNATs (including SNAT pools and SNATs as listeners)

Configuring high availability (including active/standby and N+1 sync failover device groups, connection and persistence mirroring, and sync-only device groups)

Modifying traffic behavior with profiles (including advanced HTTP profile options, caching, compression, and OneConnect profiles)

Advanced BIG-IP LTM configuration options (including VLAN tagging and trunking, SNMP features, and packet filters)

Deploying application services with iApps

Customizing application delivery with iRules and local traffic policies

By the end of this course, the student should be able to use both the Configuration utility, TMSH, and Linux commands to configure and manage BIG-IP LTM systems in an application delivery network. In addition, students should be able to monitor the BIG-IP system to achieve operational efficiency, and establish and maintain high availability infrastructure for critical business applications.

Objectives

Introducing the BIG-IP System

Initially Setting Up the BIG-IP System

Archiving the BIG-IP Configuration

v14.1 COURSE OUTLINE Chapter 1: Setting Up the BIG-IP System Leveraging F5 Support Resources and Tools

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)

Chapter 2: Reviewing Local Traffic Configuration Reviewing Managing BIG-IP Configuration Data

Exploring Load Balancing Options

Using Priority Group Activation and Fallback Host

Chapter 3: Load Balancing Traffic with LTM Comparing Member and Node Load Balancing

- Reviewing Persistence
- Introducing SSL Persistence
- Introducing SIP Persistence
- Introducing Universal Persistence
- Introducing Destination Address Affinity Persistence

Chapter 4: Modifying Traffic Behavior with Persistence Using Match Across Options for Persistence

- 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

Chapter 5: Monitoring Application Health Using Manual Resume and Advanced Monitor Timer Settings

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

Chapter 6: Processing Traffic with Virtual Servers Path Load Balancing

- Overview of SNATs
- Using SNAT Pools
- SNATs as Listeners
- SNAT Specificity
- VIP Bounceback
- Additional SNAT Options

Chapter 7: Processing Traffic with SNATs Network Packet Processing **Chapter 8: Configuring High Availability**

- Introducing Device Service Clustering (DSC)
- Preparing to Deploy a DSC Configuration
- Configuring DSC Communication Settings
- Establishing Device Trust
- Establishing a Sync-Failover Device Group
- Synchronizing Configuration Data
- Exploring Traffic Group Behavior
- Understanding Failover Managers and Triggers
- Achieving Stateful Failover with Mirroring

Chapter 9: Modifying Traffic Behavior with Profiles

- Profiles Overview
- TCP Profile Settings
- TCP Express Optimization
- Performance Improvements
- Configuring and Using Profiles
- HTTP Profile Options
- OneConnect
- Offloading HTTP Compression to BIG-IP
- HTTP Caching
- Stream Profiles
- F5 Acceleration Technologies

- VLAN, VLAN Tagging, and Trunking
- Restricting Network Access

Chapter 10: Selected Topics SNMP Features

- Simplifying Application Deployment with iApps
- Using iApps Templates
- Deploying an Application Service
- Reconfiguring an Application Service

Chapter 11: Deploying Application Services with iApps Leveraging the iApps Ecosystem on DevCentral

Chapter 12: Customizing Application Delivery with iRules and Local Traffic Policies

- Getting Started with iRules
- Triggering an iRule
- Introducing iRule Constructs
- Leveraging the DevCentral Ecosystem
- Deploying and Testing iRules
- Getting Started with Local Traffic Policies
- What Can You Do with a Local Traffic Policy?
- How Does a Local Traffic Policy Work?
- Understanding Local Traffic Policy Workflow
- Introducing the Elements of a Local Traffic Policy
- Specifying the Matching Strategy
- What Are Rules?
- Understanding Requires and Controls
- Configuring and Managing Policy Rules
- Configuring a New Rule
- Including Tcl in Certain Rule Settings

About the Final Lab Project

Chapter 13: Final Lab Project Possible Solution to Lab 13.1

Audience

This course is intended for system and network administrators responsible for installation, setup, configuration, and administration of the BIG-IP LTM system.

Prerequisites

Students must complete one of the following F5 prerequisites before attending this course:

Administering BIG-IP instructor-led course

F5 Certified BIG-IP Administrator

The following free web-based courses, although optional, will be very helpful for any student with limited BIG-IP administration and configuration experience. These courses are available at F5 University:

Getting Started with BIG-IP web-based training

Getting Started with BIG-IP Local Traffic Manager (LTM) web-based training

The following general network technology knowledge and experience are recommended before attending any F5 Global Training Services instructor-led course:

OSI model encapsulation

Routing and switching

Ethernet and ARP

TCP/IP concepts

IP addressing and subnetting

NAT and private IP addressing

Default gateway

Network firewalls

LAN vs. WAN

The following course-specific knowledge and experience is suggested before attending this course:

Web application delivery

HTTP, HTTPS, FTP and SSH protocols

TLS/SSL

Programme

- Chapter 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
- Chapter 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)
- Chapter 3: Load Balancing Traffic with LTM
 - Exploring Load Balancing Options
 - Using Priority Group Activation and Fallback Host
 - Comparing Member and Node Load Balancing
- Chapter 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
- Chapter 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
- Chapter 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
- Chapter 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
- Chapter 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

Chapter 9: Selected Topics

- VLAN, VLAN Tagging, and Trunking
- Restricting Network Access
- SNMP Features

•Segmenting Network Traffic with Route Domains

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

Getting Started with iRules

- Triggering an iRule
- Introducing iRule Constructs
- Leveraging the DevCentral Ecosystem
- Deploying and Testing iRules
- Getting Started with Local Traffic Policies
- What Can You Do with a Local Traffic Policy?
- How Does a Local Traffic Policy Work?
- Understanding Local Traffic Policy Workflow
- Introducing the Elements of a Local Traffic Policy
- Specifying the Matching Strategy
- What Are Rules?
- Understanding Requires and Controls
- Configuring and Managing Policy Rules
- Configuring a New Rule
- Including Tcl in Certain Rule Settings

Chapter 13: Final Lab Project

- About the Final Lab Project
- Possible Solution to Lab 13.1

Chapter 10: Deploying Application Services with iApps

- Simplifying Application Deployment with iApps
- Using iApps Templates
- Deploying an Application Service

•Leveraging the iApps Ecosystem on DevCentral

Chapter 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

Further Information

“*Vänligen notera att detta erbjudande inte kan kombineras med andra rabatter eller prissänkningar”

”*Please not that this offer can not be combined with any other discount structures or promotions”

Session Dates

Date	Location	Time Zone	Language	Type	Guaranteed	PRICE
15 Dec 2021	Virtual Classroom (Timezone Stockholm)	CET	English	Instructor Led Online	Yes	kr27,500.00
26 Jan 2022	Virtual Classroom (Timezone Stockholm)	CET	English	Instructor Led Online		kr27,500.00
09 Mar 2022	Virtual Classroom (Timezone Stockholm)	CET	English	Instructor Led Online		kr27,500.00
04 May 2022	Virtual Classroom (Timezone Stockholm)	CEDT	English	Instructor Led Online		kr27,500.00

Ytterligare information

[Denna utbildning finns också som utbildning på plats. Kontakta oss för mer information.](#)