



Enterprise Computing Solutions - Education Services

TRAINING OFFERING

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F5 Administering BIG-IP and Configuring BIG-IP LTM v.16.1: Local Traffic Manager Bundle

CODE:	LENGTH:	PRICE:
F5N_BIGIPAD_LTM_BDLE	40 Hours (5 days)	kr39,800.00

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)

Administering BIG-IP v14.1

This course gives network administrators, network operators, and network engineers a functional understanding of the BIG-IP system as it is commonly deployed in an application delivery network. The course introduces students to the BIG-IP system, its configuration objects, how it processes traffic, and how typical administrative and operational activities are performed. The course includes lecture, hands-on labs, interactive demonstrations, and discussions.

Configuring BIG-IP LTM v14.1: Local Traffic Manager

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 BIGIP LTM systems as part of a flexible and high-performance application delivery network.

*Please note that this offer is not to be used in conjunction with any other discount structure or promotion. Please quote F5N_BIGIPAD_LTM_BDLE when booking.

Objectives

Administering BIG-IP v14.1 • Getting started with the BIG-IP system • Traffic processing with BIG-IP Local Traffic Manager (LTM)

- Using the TMSH (TMOS Shell) command line interface • Using NATs and SNATs
- Monitoring application health and managing object status
- Modifying traffic behavior with profiles, including SSL offload and re-encryption
- Modifying traffic behavior with persistence, including source address affinity and cookie persistence
- Troubleshooting the BIG-IP system, including logging (local, high-speed, and legacy remote logging), and using tcpdump
- User roles and administrative partitions • vCMP concepts • Customizing application delivery with iRules

Configuring BIG-IP LTM v14.1: Local Traffic Manager • 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)
- Modifying traffic behavior with profiles (including TCP profiles, advanced HTTP profile options, caching, compression, and OneConnect profiles)
- Advanced BIG-IP LTM configuration options (including VLAN tagging and trunking, SNMP features, packet filters, and route domains)
- Deploying application services with iApps • Customizing application delivery with iRules and local traffic policies
- Securing application delivery using BIG-IP LTM

Audience

This course is intended for system and network administrators, operators, and engineers responsible for managing the normal day-to-day operation and administration of a BIG-IP application delivery network, and installation, setup, configuration, and administration of the BIG-IP LTM system.

Prerequisites

The following free web-based training 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 (<http://university.f5.com>):

- Getting Started with BIG-IP

- 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

Administering BIG-IP v14.1 Chapter 1: Setting Up the BIG-IP System ▪ Introducing the BIG-IP System

- Initially Setting Up the BIG-IP System ▪ Configuring the Management Interface ▪ Activating the Software License
- Provisioning Modules and Resources ▪ Importing a Device Certificate ▪ Specifying BIG-IP Platform Properties
- Configuring the Network ▪ Configuring Network Time Protocol (NTP) Servers ▪ Configuring Domain Name System (DNS) Settings
- Configuring High Availability Options ▪ Archiving the BIG-IP Configuration ▪ Leveraging F5 Support Resources and Tools

Chapter 2: Traffic Processing Building Blocks ▪ Identifying BIG-IP Traffic Processing Objects

- Configuring Virtual Servers and Pools ▪ Load Balancing Traffic ▪ Viewing Module Statistics and Logs
- Using the Traffic Management Shell (TMSH) ▪ Understanding the TMSH Hierarchical Structure ▪ Navigating the TMSH Hierarchy
- Managing BIG-IP Configuration State and Files ▪ BIG-IP System Configuration State
- Loading and Saving the System Configuration ▪ Shutting Down and Restarting the BIG-IP System

Chapter 3: Using NATs and SNATs

- Address Translation on the BIG-IP System ▪ Mapping IP Addresses with NATs ▪ Solving Routing Issues with SNATs
- Configuring SNAT Auto Map on a Virtual Server ▪ Monitoring for and Mitigating Port Exhaustion

Chapter 4: Monitoring Application Health ▪ Introducing Monitors ▪ Types of Monitors ▪ Monitor Interval and Timeout Settings

- Configuring Monitors ▪ Assigning Monitors to Resources ▪ Managing Pool, Pool Member, and Node Status

Chapter 5: Modifying Traffic Behavior with Profiles ▪ Introducing Profiles

- Understanding Profile Types and Dependencies ▪ Configuring and Assigning Profiles

Chapter 6: Modifying Traffic Behavior with Persistence

- Understanding the Need for Persistence ▪ Introducing Source Address Affinity Persistence ▪ Managing Object State

Chapter 7: Administering the BIG-IP System ▪ Configuring Logging ▪ Legacy Remote Logging

- Introducing High Speed Logging (HSL) ▪ High-Speed Logging Filters ▪ HSL Configuration Objects

Chapter 8: Monitoring Application Health ▪ Using TCPDUMP on the BIG-IP System ▪ Leveraging the BIG-IP iHealth System

- Viewing BIG-IP System Statistics ▪ Defining User Roles and Administrative Partitions ▪ Leveraging vCMP

Chapter 9: 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

Chapter 10: Configuring BIG-IP LTM v14.1: Local Traffic Manager

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 TMSH Shell (TMSH)

Chapter 3: Load Balancing Traffic with LTM

- Exploring Load Balancing Options ▪ Using Priority Group Activation and Fallback Host

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

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

Chapter 9: Selected Topics ▪ VLAN, VLAN Tagging, and Trunking ▪ Restricting Network Access

- SNMP Features ▪ Segmenting Network Traffic with Route Domains

Chapter 10: Deploying Application Services with iApps

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

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

- Getting Started with iRules

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

- Triggering an iRule ▪ Introducing iRule Constructs ▪ Leveraging the DevCentral Ecosystem ▪ Deploying and Testing iRules

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

- Getting Started with Local Traffic Policies ▪ What Can You Do with a Local Traffic Policy? ▪ How Does a Local Traffic Policy Work?

Chapter 14: Customizing Application Delivery with iRules and Local Traffic Policies

- Understanding Local Traffic Policy Workflow ▪ Introducing the Elements of a Local Traffic Policy ▪ Specifying the Matching Strategy

Chapter 15: Customizing Application Delivery with iRules and Local Traffic Policies

- What Are Rules? ▪ Understanding Requires and Controls ▪ Configuring and Managing Policy Rules ▪ Configuring a New Rule

- Including Tcl in Certain Rule Settings 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 Chapter 13: Final Lab Project
- About the Final Lab Project ▪ Possible Solution to La

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
13 May 2024	Virtual Classroom (Timezone Stockholm)	CEDT	English	Instructor Led Online		kr39,800.00
22 Apr 2024	Virtual Classroom (GMT)	BST	English	Instructor Led Online		kr39,800.00

Ytterligare information

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