Enterprise Computing Solutions - Education Services

NABÍDKA ŠKOLENÍ

Prosím kontaktujte nás zde

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Configuring BIG-IP LTM: Local Traffic Manager v.16.1

Kód:	DÉLKA:	CENA:
F5N_BIG-LTM-CFG-3	24 Hours (3 DENNÍ)	Kč bez DPH 52,000.00

Description

Tento kurz seznámí síťové specialisty s fungováním systému BIG-IP ® Local Traffic Manager. Naučíte se od běžných po pokročilé funkce BIG-IP LTM. Získáte dovednosti potřebné pro správu systémů BIG-IP LTM, flexibilní a vysoce výkonné sítě pro poskytování aplikací. Součástí školení s lektorem jsou rozsáhlé praktické laby a diskuse k tématům.

Cíle

• 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

Určeno pro

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

Vstupní znalosti

Students are required to 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(http://university.f5.com):
▪ 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

Program

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)
- Reviewing Managing BIG-IP Configuration Data

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 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 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 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 Lab 13.1

Termíny školení

Datum	Místo konání	Časové pásmo	Jazyk	Typ	Garance termínu	CENA
15 May 2024	Praha	CEDT	English	Classroom		Kč bez DPH 52,000.00
15 May 2024	Virtual Classroom	BST	English	Instructor Led Online		Kč bez DPH 52,000.00

Dodatečné informace

Školení je možné zajistit na míru. Kontaktujte nás pro bližší informace.