



Enterprise Computing Solutions - Education Services

TRAINING OFFERING

You can reach us at:

Arrow ECS B.V., Kromme Schaft 5, 3991 AR Houten, The Netherlands

Email: education.ecs.nl@arrow.com

Phone: +31 20 582 6109

F5 Administering BIG-IP v.15.1

CODE:	LENGTH:	PRICE:
F5N_BIG-OP-ADMIN	16 Hours (2 days)	€1,595.00

Description

Administering BIG-IP v.14.1

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.

Objectives

- 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

Audience

This course is intended for network administrators, operators, and engineers responsible for managing the normal day-to-day operation and administration of a BIG-IP application delivery network. This course presents the prerequisite knowledge for many other of F5's BIG-IP instructor-led training courses.

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

Programme

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

- ? Saving and Replicating Configuration Data (UCS and SCF)

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
? Using the Network Map **Chapter 5: Modifying Traffic Behavior with Profiles?** Introducing Profiles
? Understanding Profile Types and Dependencies? Configuring and Assigning Profiles
? Introducing SSL Offload and SSL ReEncryption? Managing Object State
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? Configuring High Speed Logging? 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 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

Session Dates

On request. Please [contact us](#)

Additional Information

[This training is also available as onsite training. Please contact us to find out more.](#)