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Arrow ECS Finland Oy - Education Services

TRAINING OFFERING

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Administering BIG-IP v16.1

CODE:	LENGTH:	PRICE:
F5N_BIG-OP-ADMIN	16 Hours (2 days)	€1,995.00

Description

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

Describe the role of the BIG-IP system as a full proxy device in an application delivery network
Set up, start/restart/stop, license, and provision the BIG-IP system out-of-the-box
Create a basic network configuration on the BIG-IP system including VLANs and self IPs
Use the Configuration utility and TMSH to manage BIG-IP resources such as virtual servers, pools, pool members, nodes, profiles, and monitors
Create, restore from, and manage BIG-IP archives
View resource status, availability, and statistical information and use this information to determine how the BIG-IP system is currently processing traffic
Use profiles to manipulate the way the BIG-IP system processes traffic through a virtual server
Perform basic troubleshooting and problem determination activities including using the iHealth diagnostic tool Support, and view traffic flow using TCPDUMP
Understand and manage user roles and partitions Configure and manage a sync-failover device group with more than two members
Configure stateful failover using connection mirroring and persistence mirroring

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

There are no required F5 prerequisites for this course. 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:
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   More information - F5 Webpage under "Education"

Programme

v14.1 COURSE OUTLINE 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 Re-Encryption 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

Date	Location	Time Zone	Language	Type	Guaranteed	PRICE
13 May 2024	Virtual Classroom (CET / UTC +1)		English	Instructor Led Online		€1,995.00

Additional Information

This training is also available as onsite training. Please contact us to find out more.