



Arrow ECS Finland Oy - Education Services

## TRAINING OFFERING

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**You can reach us at:**

Arrow ECS Finland Oy, Lars Sonckin kaari 16, 02600 Espoo, Finland

Email: [education.ecs.fi@arrow.com](mailto:education.ecs.fi@arrow.com)

Phone: 0870 251 1000



# Administering BIG-IP v16.1

<b>CODE:</b>	<b>LENGTH:</b>	<b>PRICE:</b>
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
26 Aug 2024	Virtual Classroom (CET / UTC +1)		English	Instructor Led Online		€1,995.00
21 Oct 2024	Virtual Classroom (CET / UTC +1)		English	Instructor Led Online		€1,995.00
09 Dec 2024	Virtual Classroom (CET / UTC +1)		English	Instructor Led Online		€1,995.00
26 Aug 2024	Espoo Arrow Classroom (CET / UTC +1)		English	Instructor Led Online		€1,995.00
21 Oct 2024	Espoo Arrow Classroom (CET / UTC +1)		English	Instructor Led Online		€1,995.00
09 Dec 2024	Espoo Arrow 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.](#)