



Enterprise Computing Solutions - Education Services

TRAINING OFFERING

Du kan nå oss her

Postboks 6562 ETTERSTAD, 0606 Oslo, Norge

Email: kurs.ecs.no@arrow.com

Phone: +47 22 02 81 00



Administering BIG-IP v17.1

CODE:	LENGTH:	PRICE:
F5N_BIG-OP-ADMIN	16 Hours (2 days)	kr22,500.00

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.

Topics covered in this course include: v17.1 Course Topics

- 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

Objectives

- Introducing the BIG-IP System
- Initially Setting Up the BIG-IP System
- Archiving the BIG-IP Configuration

v17.1 COURSE OUTLINE Chapter 1: Setting Up the BIG-IP System

- Leveraging F5 Support Resources and Tools
- Identifying BIG-IP Traffic Processing Objects
- Network Packet Flow
- 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 2: Traffic Processing Building Blocks

- Saving and Replicating Configuration Data (UCS and SCF)
- Address Translation on the BIG-IP System
- Mapping IP Addresses with NAT
- Solving Routing Issues with SNATs
- Configuring SNAT Auto Map on a Virtual Server

Chapter 3: Using NATs and SNATs

- Monitoring for and Mitigating Port Exhaustion
- 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 4: Monitoring Application Health

Chapter 5: Modifying Traffic Behavior with Profiles

- Introducing Profiles
- Understanding Profile Types and Dependencies
- Configuring and Assigning Profiles
- Understanding the Need for Persistence
- Introducing Source Address Affinity Persistence
- Introducing Cookie Persistence
- Introducing SSL Offload and SSL Re-Encryption
- Managing Object State
- 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
- Identifying iRules Components
- Triggering iRules with Events
- Leveraging the iRules Ecosystem on DevCentral

Chapter 6: Administering the BIG-IP System

Chapter 7: 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

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"

Session Dates

Date	Location	Time Zone	Language	Type	Guaranteed	PRICE
25 Aug 2025	Virtual Classroom (CET / UTC +1)	CEDT	English	Instructor Led Online		kr22,500.00
20 Oct 2025	Virtual Classroom (CET / UTC +1)	CEDT	English	Instructor Led Online		kr22,500.00
08 Dec 2025	Virtual Classroom (CET / UTC +1)	CET	English	Instructor Led Online		kr22,500.00

Tilleggsinformasjon

Denne treningen er også tilgjengelig som trening på stedet. Kontakt oss for å finne ut mer.