



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

v17.1 COURSE OUTLINE

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: Traffic Processing Building Blocks

- 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
- 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 NAT
- 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

Understanding the Need for Persistence

Introducing Source Address Affinity Persistence

Introducing Cookie Persistence

Introducing SSL Offload and SSL Re-Encryption

Managing Object State

Chapter 6: 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 7: Customizing Application Delivery with iRules

Identifying iRules Components

Triggering iRules with Events

Leveraging the iRules Ecosystem on DevCentral

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
08 Jun 2026	Virtual Classroom (CET / UTC +1)	CEDT	English	Instructor Led Online		kr22,500.00

Tilleggsinformasjon

[Denne treningen er også tilgjengelig som trening på stedet. Kontakt oss for å finne ut mer.](#)