



Enterprise Computing Solutions - Education Services

## TRAINING OFFERING

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**Du kan nå oss her**

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# Administering BIG-IP v16.1

CODE:	LENGTH:	PRICE:
F5N_BIG-OP-ADMIN	16 Hours (2 days)	kr19,500.00

## 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: v13 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

### v13 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 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

## Chapter 7: Customizing Application Delivery with iRules

Leveraging vCMP  
 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
21 Oct 2024	Virtual Classroom (CET / UTC +1)	CEDT	English	Instructor Led Online		kr19,500.00
09 Dec 2024	Virtual Classroom (CET / UTC +1)	CET	English	Instructor Led Online		kr19,500.00

### Tilleggsinformasjon

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