



**Enterprise Computing Solutions - Education Services**

## **TRAINING OFFERING**

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**Du kan nå oss her**

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# Administering BIG-IP v17.1

**CODE:**

F5N\_BIG-OP-ADMIN

**LENGTH:**

16 Hours (2 days)

**PRICE:**

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.