



Enterprise Computing Solutions - Education Services

## TRAINING OFFERING

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**Du kan nå oss her**

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# Configuring BIG-IP AFM: Advanced Firewall Manager v17.1

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

## Description

This 2-day course uses lectures and hands-on lab exercises to give participants real-time experience in setting up and configuring the BIG-IP® Advanced Firewall Manager system.

Students are introduced to the AFM user interface, stepping through various options that demonstrate how AFM is configured to build a network firewall and to detect and protect against DoS (Denial of Service) attacks. Reporting and log facilities are also explained and used in the course labs.

Further Firewall functionality and additional DoS facilities for DNS and SIP traffic are discussed. Course Topics

- Configuration and management of the BIG-IP AFM system
- AFM Network Firewall concepts
- Network firewall options and modes
- Network firewall rules, policies, address/port lists, rule lists and schedules
- IP Intelligence facilities of dynamic black and white lists, IP reputation database and dynamic IP shunning
- Detection and mitigation of DoS attacks
- Event logging of firewall rules and DoS attacks
- Reporting and notification facilities
- DoS Whitelists
- DoS Sweep/Flood
- DNS Firewall and DNS DoS
- SIP DoS
- Port Misuse
- Network Firewall iRules
- Various AFM component troubleshooting commands

## Objectives

Introducing the BIG-IP System  
Initially Setting Up the BIG-IP System  
Archiving the BIG-IP Configuration  
Leveraging F5 Support Resources and Tools  
Chapter Resources

**v17.1 Course Outline Chapter 1: Setting up the BIG-IP System** BIG-IP System Setup Labs

AFM Overview  
 AFM Release History  
 AFM Availability  
 What do you see?  
 Terminology  
 Network Firewall  
 AFM Contexts  
 AFM Modes  
 AFM Packet Processing  
 AFM Rules and Direction  
 Rules Contexts and Processing  
 Configuring Network Firewall  
 Network Firewall Rules  
 Geolocation  
 Redundant and Conflicting Rules  
 Stale Rules  
 Lists and Schedules  
 Rule Lists  
 Address Lists  
 Port Lists  
 Schedules  
 Policies  
 Policy Status and Firewall Policy Management  
 Inline Rule Editor  
 Send to Virtual

**Chapter 2: AFM Overview and Network Firewall**

Overview  
 Event Logs  
 Logging Profiles  
 Log Throttling  
 Logging and Logging Profiles  
 BIG-IP Logging Mechanisms  
 Publisher  
 Log Destination  
 Custom Search  
 Logging Global Rule Events  
 Log Configuration Changes  
 QKView and Log Files  
 SNMP MIB  
 SNMP Traps

**Packet Tester**

Overview  
 Feature 1 Dynamic Black and White Lists  
 Black List Categories  
 Feed Lists  
 IP Intelligence Policies  
 IP Intelligence Log Profile  
 IP Intelligence Reporting  
 Troubleshooting IP Intelligence Lists  
 Feature 2 IP Intelligence Database  
 Licensing  
 Installation  
 Configuration  
 Troubleshooting

**Chapter 3: Logs**

**Chapter 4: IP Intelligence**

**IP Intelligence iRule**

Reports  
 Reporting  
 General Reporting Facilities  
 Time Series Chart  
 Details  
 Report Export  
 DoS Screens  
 Dashboard  
 Analysis  
 Custom Page  
 Settings  
 Scheduled Reports  
 Troubleshooting Scheduled Reports  
 Overview  
 Summary  
 Widgets  
 Custom Widgets  
 Deleting and Restoring Widgets

**Chapter 5: Device DoS**

Denial of Service and DoS Protection Overview  
 Device DoS  
 Configuring Device DoS  
 Variant 1  
 Variant 2  
 Auto-Threshold Configuration  
 Variant 3  
 Bad Actor and Blacklist Address  
 Device DoS Profiles  
 DoS Protection Profile  
 Dynamic Signatures  
 DoS iRules

**Chapter 6: Reports**

**Firewall Manager**

White Lists  
 Configuration  
 tmsb

Sweep Flood

**Chapter 7: DoS White Lists**

**Chapter 8: DoS Sweep Flood Protection**

Source Address List

Configuration

	IP Intelligence Shun		
	Manual Configuration		
	Dynamic Configuration		DNS Firewall
	IP Intelligence Policy		Configuration
	tmsb		DNS Query
	Extending the Shun Feature		DNS Opcodes
	Remotely Triggered Black Hole		Logging
<b>Chapter 9: IP Intelligence Shun</b>	Scrubber	<b>Chapter 10: DNS Firewall</b>	Troubleshooting
			Session Initiation Protocol (SIP)
			Transactions and Dialogs
			SIP DoS Configuration
			DoS Protection Profile
			Device DoS
	DNS DoS	<b>Chapter 12: SIP DoS</b>	SIP iRules
	Configuration		
	DoS Protection Profile		
<b>Chapter 11: DNS DoS</b>	Device DoS		
			Port Misuse
			Port Misuse Policy
			Attaching a Service Policy
			Log Profile
<b>Chapter 13: Network Firewall iRules</b>	More Information	<b>Chapter 14: Port Misuse</b>	

## Audience

This course is intended for network operators, network administrators, network engineers, network architects, security administrators, and security architects responsible for installation, setup, configuration, and administration of the BIG-IP AFM system.

## Prerequisites

Students must complete one of the following F5 prerequisites before attending this course:

Administering BIG-IP instructor-led course

or

F5 Certified BIG-IP Administrator

The following free web-based 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

Getting Started with BIG-IP Advanced Firewall Manager (AFM) 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 v12 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: AFM Overview and Network Firewall**



DoS iRules  
iRule Events  
Use Cases  
More Information  
NAT and private IP addressing  
Default gateway  
Network firewalls  
LAN vs. WAN

The following course-specific knowledge and experience is suggested before attending this course: HTTP and DNS protocols

## Further Information

Course Changes since v15

Updates for the v16.1 release are minor. Course material including student guide and labs steps have been updated to reflect the version change and for any product changes to GUI appearance and screen options.

## Session Dates

Date	Location	Time Zone	Language	Type	Guaranteed	PRICE
13 Mar 2025	Virtual Classroom (CET / UTC +1)	CET	English	Instructor Led Online		kr22,500.00
29 May 2025	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.](#)