



Arrow ECS Finland Oy - Education Services

TRAINING OFFERING

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

CODE:	LENGTH:	PRICE:
F5N_BIG-AFM	16 Hours (2 days)	€1,995.00

Description

This course uses lectures and hands-on exercises to give participants real-time experience in setting up and configuring the BIG-IP Advanced Firewall Manager (AFM) 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.

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

- Installation and setup 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
- Network Firewall iRules
- Port Misuse
- 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 Packet Tester

Chapter 3: Logs

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

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 4: IP Intelligence IP Intelligence iRule

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

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 6: Reports Firewall Manager

White Lists
 Configuration
 tmsh

Sweep Flood

Chapter 7: DoS White Lists Source Address List Chapter 8: DoS Sweep Flood Protection Configuration

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

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**

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		Event Logs
Rules Contexts and Processing		Logging Profiles
Configuring Network Firewall		Log Throttling
Network Firewall Rules		Traffic Flow Statistics
Geolocation		Logging and Logging Profiles
Redundant and Conflicting Rules		BIG-IP Logging Mechanisms
Stale Rules		Publisher
Lists and Schedules		Log Destination
Rule Lists		Custom Search
Address Lists		Logging Global Rule Events
Port Lists		Log Configuration Changes
Schedules		QKView
Policies		Other Log Files
Policy Status and Firewall Policy Management		SNMP MIB
Inline Rule Editor	Chapter 3: Logs	SNMP Traps
Overview		Chapter 4: IP Intelligence
Feature 1 Dynamic Black and White Lists		
Black List Categories		
Feed Lists		
IP Intelligence Policies		Denial of Service and DoS Protection Overview
IP Intelligence Log Profile		Configuring Device DoS
IP Intelligence Reporting		Configuring Device DoS Vectors
Troubleshooting IP Intelligence Lists		Variant 1
Feature 2 IP Intelligence Database		Rate and Leak Limit
Licensing		Variant 2
Installation		Auto-Threshold Configuration
Configuration		Variant 3
Troubleshooting		Bad Actor and Blacklist Attacking Address
IP Intelligence iRule	Chapter 5: Device DoS	Device DoS Profiles
		DoS Protection Profile
	Reports	
	Reporting	
	General Reporting Facilities	
	Charts	
	Details	
	Report Export	
	Network Screens	
	DoS Screens	
	Settings	
	Overview	
	Summary	White Lists
	Widgets	Configuration
	Time Periods, Settings, Export, and Delete Options	tmsh
Chapter 6: Reports	Firewall Manager	Chapter 7: DoS White Lists
		Source Address List
		IP Intelligence Shun
		Manual
		Dynamic
		IP Intelligence Policy
		tmsh
	Sweep Flood	
Chapter 8: DoS Sweep Flood Protection	Configuration	Chapter 9: IP Intelligence Shun
		Troubleshooting
	DNS Firewall	
	DNS Query	DNS DoS
	DNS Opcodes	DoS Protection Profile
Chapter 10: DNS Firewall	Troubleshooting	Device DoS
		Chapter 12: SIP DoS
Session Initiation Protocol (SIP)		
Transactions and Dialogs		
SIP DoS		Network Firewall iRules
DoS Protection Profile		iRule Events
Device DoS		Use Cases
SIP iRules	Chapter 13: Network Firewall iRules	Recommended Practice
		More Information
		Chapter 14: DoS iRules

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

Session Dates

Date	Location	Time Zone	Language	Type	Guaranteed	PRICE
25 Sep 2025	Virtual Classroom (CET / UTC +1)		English	Instructor Led Online		€1,995.00
25 Sep 2025	Espoo Arrow Classroom (CET / UTC +1)		English	Classroom		€1,995.00
27 Nov 2025	Virtual Classroom (CET / UTC +1)		English	Instructor Led Online		€1,995.00
27 Nov 2025	Espoo Arrow Classroom (CET / UTC +1)		English	Classroom		€1,995.00

Additional Information

[This training is also available as onsite training. Please contact us to find out more.](#)