Training: F5

Configuring BIG-IP AFM Advanced Firewall Manager

TRAINING GOALS:

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 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.

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 Advanced Firewall Manager (AFM) system**.

CONSPECT:

- Setting Up the BIG-IP System
  - Introducing the BIG-IP System
  - Initially Setting Up the BIG-IP System
  - Backing Up and Restoring BIG-IP configuration
  - Leveraging F5 Support Resources and Tools
- AFM Overview and Network Firewall
  - The F5 Solution - Application Delivery Firewall
  - Advanced Firewall Manager
  - AFM Release History
  - AFM Availability
  - What do you see?
  - AFM Firewalls
  - Firewall Rule Containers
  - 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
- Logs
    - Event Logs
    - Logging Profiles
    - Log Throttling
    - Traffic Flow Statistics
    - Logging and Logging Profiles
    - BIG-IP Logging Mechanisms
    - Publisher
    - Log Destination
    - Custom Search
    - Logging Global Rule Events
    - QKView
    - Other Log Files
    - SNMP MIB
    - SNMP Traps
- IP Intelligence
    - Overview
    - Architecture
    - Feature 1 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
    - IP Intelligence iRule
- Device DoS
    - DoS Protection
    - Configuring Device DoS
    - Profiles
- Reports
    - Reports
    - Reporting
    - General Reporting Facilities
    - Charts
    - Details
    - Report Export
    - Network Screens
    - DoS Screens
    - Settings
    - Overview
    - Summary
    - Widgets
    - Time Periods, Settings, Export, and Delete Options
    - Firewall Manager
- DoS White Lists
    - White Lists
    - Configuration
    - tmsh
- DoS Sweep Flood Protection
    - Sweep Flood • Configuration
- DNS Firewall
    - DNS Firewall
    - Configuration

- DNS DoS
    - DNS DoS
    - Configuration
- SIP DoS
    - Session Initiation Protocol (SIP)
    - Transactions and Dialogs
    - SIP DoS
    - Configuration
    - SIP iRules
- Device DoS Additional
    - DNS and SIP DoS
- Network Firewall iRules
    - Network Firewall iRules
    - iRule Event
    - Use Cases
    - Best Practice

REQUIREMENTS:

Before attending the Troubleshooting, ASM, DNS, APM, AAM, AFM, VIPRION or iRules courses is mandatory:

- to take part in the BIG-IP Admin or LTM course
- or possession of F5-CA or F5-CTS LTM certification
- or pass special assessment test with sore 70% or greater.

To take assessment test:
Step 1: get an account on F5 University https://university.f5.com
Step 2: goto My Training and find Administering BIG-IP Course Equivalency Assessment
Take the test. Pass mark is 70%
Step 3: take a screen shot as proof of results
If this prerequisite is not met, F5 Networks have the right to refuse entry to the class.

Difficulty level

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CERTIFICATE:

The participants will obtain certificates signed by F5 Networks (course completion).

TRAINER:

Certified F5 Networks Trainer.