

English Delivery Only: Configuring BIG-IP Advanced Firewall Manager (AFM)

Cursusduur: 2 Dagen Cursuscode: F5N_BIG-AFM

Beschrijving:

Learn how to deploy and operate BIG-IP Advanced Firewall Manager to protect a data center against incoming threats that enter the network at layers 3 and 4 on common protocols including HTTP, SIP, SSH, SSL, and others. Using a mix of lectures and hands-on lab exploration, gain experience implementing comprehensive protection against attacks from rapidly changing IP addresses by applying the latest threat intelligence, and by anticipating, detecting, and responding to attacks before they hit data center targets. Practice using hardware-based DDoS mitigation that scales to prevent high-volume, targeted, network flood attacks—while allowing legitimate traffic to flow without compromising performance or degrading the user experience. Observe malicious network activity in real time as you assume the role of an attacker. F5 recognizes the importance of visibility, analytics, and reporting regarding attack evolution, attack mitigation, and overall firewall health. Plenty of time is dedicated to analyzing reports. Learn how to retrieve clear, concise, and actionable information highlighting attacks and trends with detailed drill-down and page-view capabilities.

Doelgroep:

This course is intended for system and network administrators responsible for the configuration and ongoing administration of a BIG-IP Advanced Firewall Manager (AFM) system.

Vereiste kennis en vaardigheden:

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

- Administering BIG-IP (ILT)
- F5 Certified BIG-IP Administrator

Suggested Prework

The following free Self-Directed Training (SDT) courses, although optional, are helpful for any student with limited BIG-IP administration and configuration experience:

- Getting Started with BIG-IP
- Getting Started with Local Traffic Manager (LTM)
- Getting Started with BIG-IP Advanced Firewall Manager (AFM)

General network technology knowledge and experience are recommended before attending any F5 Global Training Services instructor-led course, including OSI model encapsulation, routing and switching, Ethernet and ARP, TCP/IP concepts, IP addressing and subnetting, NAT and private IP addressing, NAT and private IP addressing, default gateway, network firewalls, and LAN vs. WAN.

Examens en certificering

https://www.f5.com/learn/certification Exam vouchers are available at an additional cost - please ask for details.

Cursusinhoud:

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| Chapter 1: Setting Up the BIG-IP System | Overview | Chapter 10: IP Intelligence Shun |
| Introducing the BIG-IP System | IP Intelligence Policy | Overview |
| Initially Setting Up the BIG-IP System | Feature 1: Dynamic White and Blacklists | Manual Configuration |
| Archiving the BIG-IP Configuration | Blacklist Categories | Dynamic Configuration |
| Leveraging F5 Support Resources and Tools | Feed Lists | IP Intelligence Policy |
| Chapter 2: AFM Overview | Applying an IP Intelligence Policy | tmsh options |
| AFM Overview | IP Intelligence Log Profile | Troubleshooting |
| AFM Availability | IP Intelligence Reporting | Extending the Shun Feature |
| AFM and the BIG-IP Security Menu | Troubleshooting IP Intelligence Lists | Route this Traffic to Nowhere - Remotely Triggered Black Hole |
| Chapter 3: Network Firewall | Feature 2: IP Intelligence Database | Route this Traffic for Further Processing Scrubber |
| AFM Firewalls | • Licensing | Chapter 11: DNS Firewall |
| • Contexts | • Installation | Filtering DNS Traffic with DNS Firewall |
| • Fashions | Linking the Database to the IP Intelligence Policy | Configuring DNS Firewall |
| Packet Processing | Troubleshooting | DNS Query Types |
| Rules and Direction | IP Intelligence iRules | DNS Opcode Types |
| Rules, Contexts, and Processing | Chapter 6: DoS Protection | Logging DNS Firewall Events |
| Inline Rule Editor | Denial of Service and DoS Protection Overview | Troubleshooting |
| Configuring Network Firewall | Device DoS Protection | Chapter 12: DNS DoS |
| Network Firewall Rules and Policies | Configuring Device DoS Protection | Overview |
| Network Firewall Rule Creation | Variant 1 DoS Vectors | DNS DoS |
| • Identifying Traffic by Region with Geolocation | variant i Doo voolois | Configuring DNS DoS |

| | Variant 2 DoS Vectors | |
|---|---|---|
| Identifying Redundant and Conflicting Rules | Automatic Configuration or Automatic Thresholds | DoS Protection ProfileDevice DoS and DNS |
| Identifying Stale Rules | Variant 3 DoS Vectors | |
| Prebuilding Firewall Rules with Lists and Schedules | Device DoS Profiles | Chapter 13: SIP DoS Session Initiation Protocol (SIP) |
| Rule Lists | DoS Protection Profile | Transactions and Dialogs |
| Address Lists | Dynamic Signatures | SIP DoS Configuration |
| Port Lists | Dynamic Signatures Configuration | DoS Protection Profile |
| • Schedules | DoS iRules | Device DoS and SIP |
| Network Firewall Policies | Chapter 7: Reports | Chapter 14: Port Misuse |
| Policy Status and Management | AFM Reporting Facilities Overview | Overview |
| Other Rule Actions | Examining the Status of Particular AFM Features | Port Misuse and Service Policies |
| Redirecting Traffic with Send to Virtual | Exporting the Data | Building a Port Misuse Policy |
| Checking Rule Processing with Packet Tester | Managing the Reporting Settings | Attaching a Service Policy |
| Examining Connections with Flow Inspector | Scheduling Reports | Creating a Log Profile |
| Chapter 4: Logs | Troubleshooting Scheduled Reports | Chapter 15: Network Firewall iRules |
| Event Logs | Examining AFM Status at High Level | Overview |
| Logging Profiles | Mini Reporting Windows (Widgets) | iRule Events |
| Limiting Log Messages with Log Threatling | Building Custom Widgets | Configuration |
| Throttling | Deleting and Restoring Widgets | When to use iRules |
| Enabling Logging in Firewall Rules | Dashboards | More Information |
| BIG-IP Logging Mechanisms | Chapter 8: DoS White Lists | Chapter 16: Recap |
| • LogPublisher | | |

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| • | Log Destination | Configuring DoS White Lists | AFM Packet Processing Overview |
| • | Logging Global Rule Events | tmsh options | Chapter 17: Additional Training and Certification |
| • | Log Configuration Changes | Per Profile Whitelist Address List | Getting Started Series Web-Based |
| • | QKView and Log Files | Chapter 9: DoS Sweep Flood Protection | Training |
| • | SNMP MIB | Isolating Bad Clients with Sweep Flood | F5 Instructor LED Training Curriculum |
| • | SNMP Traps | Configuring Sweep Flood | F5 Professional Certification Program |
| Cha | pter 5: IP Intelligence | | |

Bypassing DoS Checks with White Lists •

BIG-IP Architecture and Traffic Flow

Extra informatie:

Please note that courseware is provided in e-kit format for training courses. Each delegate will be provided with an official set of e-kit courseware and there will be an option to purchase hard copy courseware (via F5) at an additional cost.

Nadere informatie:

Neem voor nadere informatie of boekingen contact op met onze Customer Service Desk 030 - 60 89 444

info@globalknowledge.nl

www.globalknowledge.com/nl-nl/

lepenhoeve 5, 3438 MR Nieuwegein