

# McAfee Product Education

## McAfee® Next Generation Firewall Administration Course



### Highlights

- Configure and view McAfee Multi-Link technology.
- Customize McAfee Next Generation Firewall auditing functions.
- Correlate and analyze events found in traffic.
- Implement McAfee Next Generation Firewall clustering technology.

The McAfee Next Generation Firewall Administration course from McAfee Education Services provides attendees with hands-on training on the design, setup, configuration, and management of these appliances. In addition, students will understand how to effectively implement the appliances in a complex enterprise.

### What You Will Learn

At the end of this course, attendees should know the benefits of McAfee Next Generation Firewall; understand the skills needed to successfully plan, design, and implement McAfee Next Generation Firewall following McAfee Professional Services methodology; and be capable of installing and configuring the appliance within their own environment.

### Exercises

All topics are supported by hands-on exercises specifically designed to increase knowledge retention and provide the experience needed to install, configure, and manage McAfee Next Generation Firewall.

### Who Should Take This Class

System and network administrators, security personnel, auditors, and/or consultants concerned with network and system security should take this course. It is recommended that students have a working knowledge of Microsoft Windows administration, system administration concepts, a basic understanding of computer security concepts, and a general understanding of Internet services.

### Duration

Four days.



## Course Outline

### Module 1: McAfee Next Generation Firewall Engine

- McAfee Next Generation Firewall Key Benefits and Differentiators
- Operating Modes
- Hardware Platforms and Virtualization
- Installation
- Licensing
- Type of Engines

### Module 2: McAfee Next Generation Firewall System Administration

- McAfee Next Generation Firewall Architecture
- Centralized Management
- Status View
- Configuration View
- Management Client Tools

### Module 3: Log Management

- Why Do We Need Logs?
- Log Entry Types
- Logging Generation
- Log Data Pruning
- Logs View
- Visualization Logs
- Filters

### Module 4: Working with Policies

- Policy Types
- Access Control Rules
- Inspection Rules
- Template Policies
- Hierarchical Policy Structure
- Sub-Policies
- Filters

### Module 5: Monitoring, Statistics, and Reporting

- Status Monitoring
- Overviews
- Reports
- Report Designs, Sections, and Items
- Geo-location Maps
- Session Monitoring
- Third-Party Monitoring

### Module 6: Administration Tasks

- Role-Based Access Control
- Alert Process
- Log Management Tasks
- Log Forwarding
- System Upgrades and Backups
- McAfee Security Management Center High Availability
- Location and Contact Addresses
- Troubleshooting Support

### Module 7: MSSP Tools

- Web Portal
- Domains

### Module 8: McAfee Next Generation Firewall Firewall and Clustering Technology

- McAfee Next Generation Firewall firewall/VPN Role
- McAfee Next Generation Firewall Requirements
- Multilayer Inspection
- Single Firewall
- Clustering Technology
- Firewall Cluster
- Additional Firewall Features

### Module 9: Routing and Anti-Spoofing

- Routing Configuration
- Special Routing Conditions
- Antispoofing

### Module 10: Security Policies and NAT

- Policy Types
- Firewall Templates
- Access Rules
- Rule Options
- NAT Definitions
- Address Translation Options
- Proxy ARP and NAT
- Packet Processing

### Module 11: McAfee Multi-Link Technology

- Outbound Traffic Management
- Link Selection Methods
- Outbound McAfee Multi-Link Configuration
- Server Pools
- McAfee Multi-Link for Inbound Traffic
- Configuring Server Pools and Inbound McAfee Multi-Link

**Module 12: Multi-Link IPsec VPN**

- Overviews to VPNs
- VPN Topologies
- VPN High Availability
- Policy-Based VPN Configuration
- VPN Tools
- Route-Based VPN

**Module 13: Users and Authentication**

- Managing Users
- Directory Servers
- Supported Authentication Methods
- User Authentication Process
- Browser-Based Authentication

**Module 14: McAfee Next Generation Firewall Client-to-Gateway VPN**

- Client-to-Gateway VPN Connections
- VPN Client Configuration: Gateway Side
- VPN Client Configuration: Client Side
- Troubleshooting Tools

**Module 15: Traffic Inspection**

- Traffic Inspection
- Protocol Agents
- Applications
- Access Control by Users
- Domain Names
- Zones
- Antivirus
- Antispam
- Deep Inspection
- TLS Inspection

**Module 16: Introduction to Intrusion Prevention**

- Deep Inspection
- Attacker Types
- Attacker's Workflow
- Attack Example
- McAfee Next Generation Firewall Deep Inspection Features
- IPS and L2FW Deployment Examples

**Module 17: IPS Role and Layer 2 Firewall Role**

- IPS and Layer 2 Firewall Key Features
- FW and IPS Differences
- Architecture
- Configuration
- High-Availability Deployment

**Module 18: Inspection Policies**

- Deep Inspection
- McAfee Next Generation Firewall Policy Templates
- Predefined Inspection Policies
- Situation Concepts
- Inspection Rules Tree
- Fine-Tuning Inspection
- Inspection Exception Rules
- Rule Options
- Blacklist
- IPS and L2 FW Packet Inspection Procedure

**Module 19: Inspection Techniques**

- McAfee Next Generation Firewall Inspection Techniques
- Advanced Evasion Techniques
- Traffic Inspection Process
- Misuse Detection: Fingerprints
- Regular Expression Syntax
- Fingerprint Example

**Module 20: Event Correlation**

- Scan Detection
- DoS/DDoS Protection
- Correlation Situations
- Event Sequence and Group
- Event Compress and Count
- Custom Correlation Situation: Count

**Module 21: Incident Handling**

- Default Alert System
- Using Overviews for Surveillance
- Visualize Log Data
- Reporting
- Incident-Handling Tool

### Suggested Next Course(s)

McAfee Firewall Enterprise System Administration

### Contact Information

To order, or for further information, please contact McAfee Education at: 1-866-210-2715.

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