Forcepoint Next Generation Fire Wall (NGFW) Administrator e-Learning

Datasheet

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Forcepoint Next Generation Firewall (NGFW) Administrator
NGFWADME

In this eLearning training course, you will learn how to install, configure, administer, and support Forcepoint NGFW. Through instructional content, demonstrations, and hands-on lab practice exercises, you will learn the requirements and recommendations to successfully deploy Forcepoint NGFW in a variety of network environments. You will develop expertise in creating security rules and policies, managing users and authentication, understanding multi-link technology, configuring VPNs, traffic deep inspection, performing common administration tasks including status monitoring and reporting.

**Audience**
- New and existing customers of Forcepoint NGFW
- Forcepoint Channel Partners
- Forcepoint NGFW end users

**Course Objectives**
- Understand the fundamentals of NGFW
- Articulate the NGFW System Architecture
- Differentiate the various NGFW operating modes
- Administer the SMC components and use them to manage and monitor NGFW
- Perform common administration tasks
- Configure security policies and access control
- Manage users and authentication
- Understand monitoring capabilities
- Create and edit reporting of the traffic processed by NGFW
- Integrate NGFW with other Forcepoint solutions
- Perform basic troubleshooting of NGFW

**Prerequisites for attendance**
- General understanding of system administration and Internet services.
- Basic knowledge of networking and computer security concepts.
- A computer that meets the requirements noted at the end of this document.

**Certification Exam**
This course prepares you to take and pass the Certified Forcepoint NGFW Administrator Exam. The exam can be purchased separately at a rate of $100. If you would like to take the certification exam following completion of the eLearning course, please contact learn@forcepoint.com for purchase details.

“I feel much better prepared to configure our firewall than I was by just reading the manual.”
Course Outline

MODULE 1: INTRODUCTION
- Overview of what will be covered in this course and the objectives
- Review lab environment and the commonly used interfaces
- How to use the student guide

MODULE 2: SMC OVERVIEW
- Articulate the NGFW System Architecture
- Describe the components of the SMC and its supported platforms
- Identify the properties of the Management & Log server
- Identify the properties of the Web Portal Server
- Articulate the SMC Deployment options
- Understand communication between SMC components and NGFW
- Understand locations and contact addresses

MODULE 3: NGFW OVERVIEW
- Articulate NGFW key benefits and differentiators from other firewall products
- Differentiate the various NGFW operating modes
- Describe the NGFW Hardware Platform and Virtualization options
- Describe different installation methods
- Understand different NGFW deployment options

MODULE 4: GETTING STARTED WITH SMC
- Describe a high-level overview of the functionality of the management client
- Prepare to perform system backups
- Describe SMC High Availability solutions
- Understand different SMC Administrator roles and access limitation
- Define and administer best practices for policy change control
- Articulate SMC logging approach and how to utilize Logs view

MODULE 5: NGFW POLICIES AND ACCESS CONTROL
- Describe the types of NGFW Policies
- Understand firewall templates and policy hierarchy
- Describe different policy components
- Utilize the policy editor to customize NGFW policies
- Perform firewall traffic inspection
- Integrate NGFW with other Forcepoint solutions

MODULE 6: FIREWALL POLICY AND NETWORK ADDRESS TRANSLATION (NAT)
- Describe the supported types of NAT
- Describe proxy ARP and it relevance to the NAT
- Configure the Network Address Translation
MODULE 7: INSPECTION AND FILE FILTERING POLICIES
- Describe the Inspection Policies and Inspection Policy hierarchy
- Configure the system policies and utilize the template for deep packet inspection
- Articulate the different inspection policy components and options.
- Modify Inspection rules to react with various traffic
- Describe integration with external solutions

MODULE 8: ALERTING AND NOTIFICATIONS
- Explain the alert escalation process in the NGFW system
- Create an alert policy and alert chain to escalate an alert
- Configure alert notifications channels

MODULE 9: USERS AND AUTHENTICATION
- Identify supported directory servers and authentication methods
- Configure browser based authentication
- Explain how Active Directory and the Logon Collector interact

MODULE 10: SSL VPN PORTAL
- Understand client based and clientless remote access
- Describe the mapping of SSL VPN Portal Services
- Perform the SSL VPN Portal configuration

MODULE 11: SITE-TO-SITE VPN
- Understand NGFW VPN Terminology
- Differentiate between policy-based VPN and route-based VPN
- Understand different site-to-site VPN topologies
- Configure a policy-based VPN

MODULE 12: USING LOGS
- Describe the log entry types available in the NGFW
- Analyze how pruning filters affect log data
- Create permanent filters
- Illustrate the analysis and visualization tools for logs
- Configure log data management tasks

MODULE 13: MONITORING, STATISTICS, AND REPORTING
- Understand status monitoring views
- Understand Overviews and alert thresholds
- Create customizable reports from log data
- Comprehend the different third party probing methods
MODULE 14: POLICY TOOLS
- Understand policy snapshots within the Management Server
- Run the Rule Search tool available for Access rules, NAT rules, and Inspection Policies
- Utilize the Policy Validation tool
- Understand the Rule Counter Analysis tool based on information within the Log Server
- Comprehend the Policy Activation process in NGFW

MODULE 15: TROUBLESHOOTING
- Understand the full troubleshooting process
- Recognize the different kinds of logs that SMC provides to perform troubleshooting
- Utilize various logs for troubleshooting and understand their meaning
- Capture traffic and run diagnostics
- Learn what to provide support when troubleshooting
- Apply knowledge through three common problem scenarios

MODULE 16: SUMMARY
- Recap of key points learned during the course
- Course assessment to gauge understanding of the course. 80% or higher required for completion of the course.

*To attend this e-learning course, you must have a computer with:
- A high-speed internet connection (minimum of 1MB connection required)
- An up to date web browser (Google Chrome recommended)
- Adobe Flash web browser plug in (v13 or higher)
- PDF Viewer
- Speakers and microphone or headset (headset recommended)

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