



Fortigate Firewall Configuration Guide

K Payea



Fortigate Firewall Configuration Guide:

Basic Configuration of FortiGate Firewall Dr. Hidaia Mahmood Alassouli ,2024-04-17 Fortinet offers the most comprehensive solutions to help industries accelerate security maximize productivity preserve user experience and lower total cost of ownership A FortiGate firewall is a comprehensive network security solution that provides firewall protection intrusion prevention antivirus and antimalware scanning VPN connectivity and other security features FortiGate firewall is also a router It offers real time threat intelligence to help you stay one step ahead of cyber attackers When a firewall executes packet filtering it examines the packets of data comparing it against filters which consist of information used to identify malicious data If a data packet meets the parameters of a threat as defined by a filter then it is discarded and your network is protected This book consists from the following parts 1 Firewall Evaluation 2 Firewall Sizing 3 FortiGate Series 4 FortiGate Access 5 FortiGate GUI Overview 6 FortiGate Administrator 7 FortiGate Password Policy 8 FortiGate Global Settings 9 FortiGate Modes 10 FortiGate Feature Visibility 11 FortiGuard 12 Interfaces 13 FortiGate Policy 14 FortiGate Firewall NAT 15 FortiGate Authentication 16 FortiGate Firewall Digital Certificates 17 FortiGate Firewall Security Profiles Inspection Mode 18 FortiGate Intrusion and Prevention System IPS 19 FortiGate Web Filtering 20 FortiGate Firewall File Filtering 21 FortiGate Firewall Application Control 22 FortiGate Firewall Antivirus Security Profile 23 FortiGate High Availability 24 Other Details about FortiGate High Availability 25 FortiGate Firewall VPN 26 FortiGate Firewall IPsec 27 FortiGate Firewall SSL VPN 28 FortiGate Firewall SD WAN 29 Labs and Tutorials UTM Security with Fortinet Kenneth Tam,Ken McAlpine,Martín H. Hoz Salvador,Josh More,Rick Basile,Bruce Matsugu,2012-12-31 Traditionally network security firewalls to block unauthorized users Intrusion Prevention Systems IPS to keep attackers out Web filters to avoid misuse of Internet browsing and antivirus software to block malicious programs required separate boxes with increased cost and complexity Unified Threat Management UTM makes network security less complex cheaper and more effective by consolidating all these components This book explains the advantages of using UTM and how it works presents best practices on deployment and is a hands on step by step guide to deploying Fortinet s FortiGate in the enterprise Provides tips tricks and proven suggestions and guidelines to set up FortiGate implementations Presents topics that are not covered or are not covered in detail by Fortinet s documentation Discusses hands on troubleshooting techniques at both the project deployment level and technical implementation area **Certified Ethical Hacker (CEH) Study Guide** Matt Walker,2025-07-08 The CEH exam is not an enjoyable undertaking This grueling exhaustive challenging and taxing exam will either leave you better prepared to be the best cyber security professional you can be But preparing for the exam itself needn t be that way In this book IT security and education professional Matt Walker will not only guide you through everything you need to pass the exam but do so in a way that is actually enjoyable The subject matter need not be dry and exhausting and we won t make it that way You should finish this book looking forward to your exam and your future To help you successfully complete the

CEH certification this book will bring penetration testers cybersecurity engineers and cybersecurity analysts up to speed on Information security and ethical hacking fundamentals Reconnaissance techniques System hacking phases and attack techniques Network and perimeter hacking Web application hacking Wireless network hacking Mobile platform IoT and OT hacking Cloud computing Cryptography Penetration testing techniques Matt Walker is an IT security and education professional with more than 20 years of experience He s served in a variety of cyber security education and leadership roles throughout his career

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scenarios with exhibits configuration extracts and troubleshooting situations all designed to evaluate your expertise in security networking and Fortinet solutions Remember that reference materials are not allowed in the exam room Key details about the NSE 8 Network Security Expert 8 Written Exam NSE8_812 include Number of questions 60 Time allowed 120 minutes Scoring Answers must be 100% correct for credit there s no partial credit or deduction for incorrect answers You ll receive a document indicating pass or fail along with your performance in each exam section Question types Multiple choice and multiple select Time required between exam retakes 15 days Retesting You cannot retake an exam version you ve already passed Recertification If you re seeking to renew your NSE 8 certification schedule the written exam no more than six months before your current certification s expiration date Keep in mind that passing both the written and practical exams is necessary to obtain NSE 8 certification Welcome aboard and let s work together to help you succeed in the Fortinet NSE 8 Network Security Expert Written Exam **Fortinet Certified Expert (FCX) in Cybersecurity New Written Exam**

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that can be employed in the data analysis process Starting with an introduction to the different Splunk components such as indexers search heads and forwarders this Splunk book takes you through the step by step installation and configuration instructions for basic Splunk components using Amazon Web Services AWS instances You ll import the BOTS v1 dataset into a search head and begin exploring data using the Splunk Search Processing Language SPL covering various types of Splunk commands lookups and macros After that you ll create tables charts and dashboards using Splunk s new Dashboard Studio and then advance to work with clustering container management data models federated search bucket merging and more By the end of the book you ll not only have learned everything about the latest features of Splunk 9 but also have a solid understanding of the performance tuning techniques in the latest version What you will learn Install and configure the Splunk 9 environment Create advanced dashboards using the flexible layout options in Dashboard Studio Understand the Splunk licensing models Create tables and make use of the various types of charts available in Splunk 9 x Explore the new configuration management features Implement the performance improvements introduced in Splunk 9 x Integrate Splunk with Kubernetes for optimizing CI CD management Who this book is for The book is for data analysts Splunk users and administrators who want to become well versed in the data analytics services offered by Splunk 9 You need to have a basic understanding of Splunk fundamentals to get the most out of this book Cyber Security on Azure Marshall

Copeland,2017-07-17 Prevent destructive attacks to your Azure public cloud infrastructure remove vulnerabilities and instantly report cloud security readiness This book provides comprehensive guidance from a security insider s perspective Cyber Security on Azure explains how this security as a service SECaaS business solution can help you better manage security risk and enable data security control using encryption options such as Advanced Encryption Standard AES cryptography Discover best practices to support network security groups web application firewalls and database auditing for threat protection Configure custom security notifications of potential cyberattack vectors to prevent unauthorized access by hackers hacktivists and industrial spies What You ll Learn This book provides step by step guidance on how to Support enterprise security policies Improve cloud security Configure intrusion detection Identify potential vulnerabilities Prevent enterprise security failures Who This Book Is For IT cloud and security administrators CEOs CIOs and other business professionals **Computerworld** ,2005-08-01 For more than 40 years Computerworld has been the leading source of technology news and information for IT influencers worldwide Computerworld s award winning Web site Computerworld com twice monthly publication focused conference series and custom research form the hub of the world s largest global IT media network *Basic Configuration of FortiGate Firewall* Dr. Hidaia Mahmood Mohamed Alassouli,2024-04-21 Fortinet offers the most comprehensive solutions to help industries accelerate security maximize productivity preserve user experience and lower total cost of ownership A FortiGate firewall is a comprehensive network security solution that provides firewall protection intrusion prevention antivirus and antimalware scanning VPN connectivity and other security features FortiGate

firewall is also a router It offers real time threat intelligence to help you stay one step ahead of cyber attackers When a firewall executes packet filtering it examines the packets of data comparing it against filters which consist of information used to identify malicious data If a data packet meets the parameters of a threat as defined by a filter then it is discarded and your network is protected This book consists from the following parts 1 Firewall Evaluation 2 Firewall Sizing 3 FortiGate Series 4 FortiGate Access 5 FortiGate GUI Overview 6 FortiGate Administrator 7 FortiGate Password Policy 8 FortiGate Global Settings 9 FortiGate Modes 10 FortiGate Feature Visibility 11 FortiGuard 12 Interfaces 13 FortiGate Policy 14 FortiGate Firewall NAT 15 FortiGate Authentication 16 FortiGate Firewall Digital Certificates 17 FortiGate Firewall Security Profiles Inspection Mode 18 FortiGate Intrusion and Prevention System IPS 19 FortiGate Web Filtering 20 FortiGate Firewall File Filtering 21 FortiGate Firewall Application Control 22 FortiGate Firewall Antivirus Security Profile 23 FortiGate High Availability 24 Other Details about FortiGate High Availability 25 FortiGate Firewall VPN 26 FortiGate Firewall IPsec 27 FortiGate Firewall SSL VPN 28 FortiGate Firewall SD WAN 29 Labs and Tutorials

Introduction to FortiGate Part-1 Infrastructure Daniel Howard,2020-06-24 Looking to step into the Network Security field with the Fortigate firewall Or are you required to manage a FortiGate NGFW for your organization Then this is the right book for you The FortiGate is an amazing device with many cybersecurity features to protect your network If you are new to FortiGate s then this is the perfect book for you This book will cover general overview of working with Fortinet Also you will gain a solid understanding on day to day administrative tasks Next you will learn how FortiGate interacts with various layer 2 protocol Also you will get a chance how to filter network traffic and apply security policies which is very exciting Lastly you will learn about the session table and how Fortigate handles traffic Below is a full list of what this book covers Chapter One Introduction to FortiGate Identify platform features of FortiGate Describe Security Processor Unit SPU Identify factory defaults Understand the different operational modes Understand FortiGate and FortiGuard Relationship Manage administrator profiles Manage administrative profiles Manage network interfaces Manage basic services backup and restore config file upgrade and downgrade firmware Understand CLI structure Understand GUI navigation Initial Configuration Chapter 2 Layer two technologies Configuration of layer 2 VLANs Describe VLANs and VLAN tagging process Describe FortiOS Transparent Mode Configure FortiOS Transparent Mode settings Describe Transparent Mode Bridge Table Describe MAC forwarding Describe how to find MAC address on FortiOS Describe Forwarding Domains Describe and configure Virtual Switches Describe Spanning Tree Protocol Describe and Configure various NAT Mode layer 2 protocols Describe and configure Layer 3 VLAN interface Describe Virtual Wire Pairing Describe and Configure VXLAN Chapter 3 Layer Three Technologies Configuration of Static Routes implementation of Policy Based Routes Control traffic for well known Internet Services Interpret the FortiOS Routing Table Understand FortiOS anti spoofing mechanism Implement route failover and floating route Understand ECMP Recognize active route vs standby route vs inactive routes Use built in sniffer and diagnose flow debug tools Understand

Session Table Entry Chapter 4 Firewall Policy and NAT Identify components in Firewall Policy Describe how traffic matches Firewall Policy Entries Configure Firewall Policy Logging Describe Policy GUI list views Describe Policy ID s vs Policy Sequence numbers Described where objects are referenced Explain Name restrictions on Firewall Policies Perform Firewall Policy re ordering Describe NAT and PAT Explain different configuration modes for NAT Configure and Describe SNAT and DNAT VIPs Troubleshoot NAT issues **Introduction to FortiGate Part-1 Infrastructure** Daniel Howard,2020-06-21

Looking to step into the Network Security field with the Fortigate firewall Or are you required to manage a FortiGate NGFW for your organization Then this is the right book for you The FortiGate is an amazing device with many cybersecurity features to protect your network If you are new to FortiGate s then this is the perfect book for you This book will cover general overview of working with Fortinet Also you will gain a solid understanding on day to day administrative tasks Next you will learn how FortiGate interacts with various layer 2 protocol Also you will get a chance how to filter network traffic and apply security policies which is very exciting Lastly you will learn about the session table and how Fortigate handles traffic Below is a full list of what this book covers Chapter One Introduction to FortiGate Identify platform features of FortiGate Describe Security Processor Unit SPU Identify factory defaults Understand the different operational modes Understand FortiGate and FortiGuard Relationship Manage administrator profiles Manage administrative profiles Manage network interfaces Manage basic services backup and restore config file upgrade and downgrade firmware Understand CLI structure Understand GUI navigation Initial ConfigurationChapter 2 Layer two technologies Configuration of layer 2 VLANs Describe VLANs and VLAN tagging process Describe FortiOS Transparent Mode Configure FortiOS Transparent Mode settings Describe Transparent Mode Bridge Table Describe MAC forwarding Describe how to find MAC address on FortiOS Describe Forwarding Domains Describe and configure Virtual Switches Describe Spanning Tree Protocol Describe and Configure various NAT Mode layer 2 protocols Describe and configure Layer 3 VLAN interface Describe Virtual Wire Pairing Describe and Configure VXLANChapter 3 Layer Three Technologies Configuration of Static Routes implementation of Policy Based Routes Control traffic for well known Internet Services Interpret the FortiOS Routing Table Understand FortiOS anti spoofing mechanism Implement route failover and floating route Understand ECMP Recognize active route vs standby route vs inactive routes Use built in sniffer and diagnose flow debug tools Understand Session Table Entry Chapter 4 Firewall Policy and NAT Identify components in Firewall Policy Describe how traffic matches Firewall Policy Entries Configure Firewall Policy Logging Describe Policy GUI list views Describe Policy ID s vs Policy Sequence numbers Described where objects are referenced Explain Name restrictions on Firewall Policies Perform Firewall Policy re ordering Describe NAT and PAT Explain different configuration modes for NAT Configure and Describe SNAT and DNAT VIPs Troubleshoot NAT issues Introduction to FortiGate Part-II Infrastructure Daniel Howard,2020-12-10 Network Security Expert 4 Study Guide Part II Fortinet Network Security Introduction Introduction to FortiGate Part II Infrastructure picks up where Part I left off The book begins by going

on FortiOS VDOM technology and Session Helpers You will gain a solid understanding on how VDOM s work and why they are needed You will also learn why Session Helpers exist Also you will have an opportunity to gain insight into how FortiGate High Availability technology works as well You will feel confident in your HA deployment after reading this book I promise you Next we dig into FortiOS logging technology which is essential for any SOC Next we review some popular VPN technologies like IPsec and SSL This book shows you how to configure and use both technologies on FortiGate After VPNs we step into FortiOS SDWAN technology which is hot right now you will learn what SDWAN is and how to deploy it lastly we finish up Part II Infrastructure with a full chapter on troubleshooting all the technology covered in Part I and Part II VDOMs and Session Helpers Chapter 5 Configure Define and Describe Session Helpers Understand and Configure ALG Define and describe VDOMs Understand Management VDOM Understand VDOM Administrators Configure multiple VDOMs understand and configure Inter vdom link limit resource allocated to VDOMs Inter VDOM Link Hardware Acceleration VDOM Diagnostics High Availability Chapter 6 Identify Different Operation HA Modes Config HA Understand HA Election Process Identify primary secondary units Debug HA sync Configure Session sync HA failover types Identify how HA modes pass traffic Configure and understand Virtual Clustering Verify HA operations Upgrade HA firmware FortiGate Clustering Protocol HA Clustering Requirements HA Diagnostics Logging and Monitoring Chapter 7 Log basics Describe performance and logging Identify local log storage configure logging Understand disk allocation Identify External log storage Configure log backups configure alert email and threat weight configure remote logging understand log transmission configure reliable logging and OFTPS understand miglogd Understand FortiView IPsec VPN Chapter 8 Understand IPsec and IKE fundamentals Understand VPN topology Understand route based VPN Configure Site to site VPN Understand ASIC offload with VPN Configure redundant VPNs VPN best practices Verify IPsec VPN Understand Dial up VPN SSL VPN Chapter 9 Understand SSL VPN concepts Describe the differences between SSL an IPsec Configure SSL VPN Modes Configure SSL Realms Configure SSL Authentcation Monitor SSL VPN users and logs Troubleshoot SSLVPN SDWAN Chapter 10 Understand SDWAN concepts Understand SDWAN design Understand SDWAN requirements Configure SDWAN virtual link and load balance Configure SDWAN routing and policies Configure SDWAN health check understand SLA link quality measurements Understand SDWAN rules configure dynamic link selection Monitor SDWAN Verify SDWAN traffic Diagnostics and Troubleshooting Chapter 11 Troubleshoot Layer 2 Troubleshoot Routing Troubleshoot Firewall Policy Troubleshoot High Availability Troubleshoot Logging Troubleshoot IPsec Troubleshoot SSL VPN Troubleshoot SDWAN

[FortiGate - Troubleshooting Guide Quick Reference](#) Hubert Wiśniewski, 2020-04-21 FortiGate Troubleshooting Guide Quick Reference presents easy to understand techniques of troubleshooting on FortiGate platform There are many debug command examples which explain how to read and understand the command output The intention of the book is not to teach you how presented technologies work I do not explain configuration examples If you do not feel confident to perform troubleshooting effectively the book is

for you *Fortigate Security Pocket Guide* Ofer Shmueli, 2021-01-30 This book is a follow up to Fortigate Admin Pocket Guide Following The basic administration and the creation of interfaces policies routes and logs we will now start to think as security warriors and inspect our traffic for viruses malware anomalies as Denial of service attacks and exploits Fortigate Security pocket guide will walk you through the different techniques and capabilities of your firewall protecting against different attack vectors Every chapter includes hands on practices It is written for beginners and intermediate user

Fortigate Firewall Diagnostics Pocket Guide Ofer Shmueli, 2021-02-22 Knowing how to diagnose your FortiGate is probably one of the most important tools that you can acquire as a FortiGate professional It will make you aware of what is happening on your network on your FortiGate kernel services and much more this skill set is unique and the mindset that you will acquire will serve you not only on your firewall We will start with a low level view of our FortiGate traffic moving on to General network issues system performance and from there to sessions and packet flow view **NSE4 Study Guide Part-II Infrastructure** Daniel Howard, 2020-12-10 Network Security Expert 4 Study Guide Part II Fortinet Network Security Introduction Introduction to FortiGate Part II Infrastructure picks up where Part I left off The book begins by going on FortiOS VDOM technology and Session Helpers You will gain a solid understanding on how VDOM s work and why they are needed You will also learn why Session Helpers exist Also you will have an opportunity to gain insight into how FortiGate High Availability technology works as well You will feel confident in your HA deployment after reading this book I promise you Next we dig into FortiOS logging technology which is essential for any SOC Next we review some popular VPN technologies like IPsec and SSL This book shows you how to configure and use both technologies on FortiGate After VPNs we step into FortiOS SDWAN technology which is hot right now you will learn what SDWAN is and how to deploy it lastly we finish up Part II Infrastructure with a full chapter on troubleshooting all the technology covered in Part I and Part II VDOMs and Session Helpers Chapter 5 Configure Define and Describe Session Helpers Understand and Configure ALG Define and describe VDOMs Understand Management VDOM Understand VDOM Administrators Configure multiple VDOMs understand and configure Inter vdom link limit resource allocated to VDOMs Inter VDOM Link Hardware Acceleration VDOM Diagnostics High Availability Chapter 6 Identify Different Operation HA Modes Config HA Understand HA Election Process Identify primary secondary units Debug HA sync Configure Session sync HA failover types Identify how HA modes pass traffic Configure and understand Virtual Clustering Verify HA operations Upgrade HA firmware FortiGate Clustering Protocol HA Clustering Requirements HA Diagnostics Logging and Monitoring Chapter 7 Log basics Describe performance and logging Identify local log storage configure logging Understand disk allocation Identify External log storage Configure log backups configure alert email and threat weight configure remote logging understand log transmission configure reliable logging and OFTPS understand miglogd Understand FortiView IPsec VPN Chapter 8 Understand IPsec and IKE fundamentals Understand VPN topology Understand route based VPN Configure Site to site VPN Understand ASIC offload with VPN Configure

redundant VPNs VPN best practices Verify IPsec VPN Understand Dial up VPN SSL VPN Chapter 9 Understand SSL VPN concepts Describe the differences between SSL and IPsec Configure SSL VPN Modes Configure SSL Realms Configure SSL Authentication Monitor SSL VPN users and logs Troubleshoot SSLVPN SDWAN Chapter 10 Understand SDWAN concepts Understand SDWAN design Understand SDWAN requirements Configure SDWAN virtual link and load balance Configure SDWAN routing and policies Configure SDWAN health check understand SLA link quality measurements Understand SDWAN rules configure dynamic link selection Monitor SDWAN Verify SDWAN traffic Diagnostics and Troubleshooting Chapter 11 Troubleshoot Layer 2 Troubleshoot Routing Troubleshoot Firewall Policy Troubleshoot High Availability Troubleshoot Logging Troubleshoot IPsec Troubleshoot SSL VPN Troubleshoot SDWAN

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Table of Contents Fortigate Firewall Configuration Guide

1. Understanding the eBook Fortigate Firewall Configuration Guide
 - The Rise of Digital Reading Fortigate Firewall Configuration Guide
 - Advantages of eBooks Over Traditional Books
2. Identifying Fortigate Firewall Configuration Guide
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Fortigate Firewall Configuration Guide
 - User-Friendly Interface
4. Exploring eBook Recommendations from Fortigate Firewall Configuration Guide
 - Personalized Recommendations
 - Fortigate Firewall Configuration Guide User Reviews and Ratings
 - Fortigate Firewall Configuration Guide and Bestseller Lists
5. Accessing Fortigate Firewall Configuration Guide Free and Paid eBooks
 - Fortigate Firewall Configuration Guide Public Domain eBooks
 - Fortigate Firewall Configuration Guide eBook Subscription Services

- Fortigate Firewall Configuration Guide Budget-Friendly Options
- 6. Navigating Fortigate Firewall Configuration Guide eBook Formats
 - ePub, PDF, MOBI, and More
 - Fortigate Firewall Configuration Guide Compatibility with Devices
 - Fortigate Firewall Configuration Guide Enhanced eBook Features
- 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Fortigate Firewall Configuration Guide
 - Highlighting and Note-Taking Fortigate Firewall Configuration Guide
 - Interactive Elements Fortigate Firewall Configuration Guide
- 8. Staying Engaged with Fortigate Firewall Configuration Guide
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Fortigate Firewall Configuration Guide
- 9. Balancing eBooks and Physical Books Fortigate Firewall Configuration Guide
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Fortigate Firewall Configuration Guide
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine Fortigate Firewall Configuration Guide
 - Setting Reading Goals Fortigate Firewall Configuration Guide
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Fortigate Firewall Configuration Guide
 - Fact-Checking eBook Content of Fortigate Firewall Configuration Guide
 - Distinguishing Credible Sources
- 13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
- 14. Embracing eBook Trends

- Integration of Multimedia Elements
- Interactive and Gamified eBooks

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