

# Metasploit

The Penetration Tester's Guide



David Kennedy, Jim O'Gorman, Devon Kearns, and Mati Aharoni
Foreword by HD Moore



# **Metasploit The Penetration Testers Guide**

Sagar Rahalkar, Nipun Jaswal

#### **Metasploit The Penetration Testers Guide:**

Metasploit David Kennedy, Jim O'Gorman, Devon Kearns, Mati Aharoni, 2011-07-15 The Metasploit Framework makes discovering exploiting and sharing vulnerabilities quick and relatively painless But while Metasploit is used by security professionals everywhere the tool can be hard to grasp for first time users Metasploit The Penetration Tester's Guide fills this gap by teaching you how to harness the Framework and interact with the vibrant community of Metasploit contributors Once you ve built your foundation for penetration testing you ll learn the Framework's conventions interfaces and module system as you launch simulated attacks You ll move on to advanced penetration testing techniques including network reconnaissance and enumeration client side attacks wireless attacks and targeted social engineering attacks Learn how to Find and exploit unmaintained misconfigured and unpatched systems Perform reconnaissance and find valuable information about your target Bypass anti virus technologies and circumvent security controls Integrate Nmap NeXpose and Nessus with Metasploit to automate discovery Use the Meterpreter shell to launch further attacks from inside the network Harness standalone Metasploit utilities third party tools and plug ins Learn how to write your own Meterpreter post exploitation modules and scripts You ll even touch on exploit discovery for zero day research write a fuzzer port existing exploits into the Framework and learn how to cover your tracks Whether your goal is to secure your own networks or to put someone else s to the test Metasploit The Penetration Tester's Guide will take you there and beyond Metasploit, 2nd Edition David Kennedy, Mati Aharoni, Devon Kearns, Jim O'Gorman, Daniel G. Graham, 2025-01-28 The new and improved guide to penetration testing using the legendary Metasploit Framework Metasploit The Penetration Tester's Guide has been the definitive security assessment resource for over a decade The Metasploit Framework makes discovering exploiting and sharing vulnerabilities quick and relatively painless but using it can be challenging for newcomers Written by renowned ethical hackers and industry experts this fully updated second edition includes Advanced Active Directory and cloud penetration testing Modern evasion techniques and payload encoding Malicious document generation for client side exploitation Coverage of recently added modules and commands Starting with Framework essentials exploits payloads Meterpreter and auxiliary modules you ll progress to advanced methodologies aligned with the Penetration Test Execution Standard PTES Through real world examples and simulated penetration tests you ll Conduct network reconnaissance and analyze vulnerabilities Execute wireless network and social engineering attacks Perform post exploitation techniques including privilege escalation Develop custom modules in Ruby and port existing exploits Use MSFvenom to evade detection Integrate with Nmap Nessus and the Social Engineer Toolkit Whether you re a cybersecurity professional ethical hacker or IT administrator this second edition of Metasploit The Penetration Tester's Guide is your key to staying ahead in the ever evolving threat landscape **Ethical** Hacking and Penetration Testing Guide Rafay Baloch, 2017-09-29 Requiring no prior hacking experience Ethical Hacking and Penetration Testing Guide supplies a complete introduction to the steps required to complete a penetration test or

ethical hack from beginning to end You will learn how to properly utilize and interpret the results of modern day hacking tools which are required to complete a penetration test The book covers a wide range of tools including Backtrack Linux Google reconnaissance MetaGooFil dig Nmap Nessus Metasploit Fast Track Autopwn Netcat and Hacker Defender rootkit Supplying a simple and clean explanation of how to effectively utilize these tools it details a four step methodology for conducting an effective penetration test or hack Providing an accessible introduction to penetration testing and hacking the book supplies you with a fundamental understanding of offensive security After completing the book you will be prepared to take on in depth and advanced topics in hacking and penetration testing The book walks you through each of the steps and tools in a structured orderly manner allowing you to understand how the output from each tool can be fully utilized in the subsequent phases of the penetration test This process will allow you to clearly see how the various tools and phases relate to each other An ideal resource for those who want to learn about ethical hacking but don t know where to start this book will help take your hacking skills to the next level The topics described in this book comply with international standards and with what is being taught in international certifications The The Complete Metasploit Guide Sagar Rahalkar, Nipun Jaswal, 2019-06-25 Master the Metasploit Framework and become an expert in penetration testing Key Features Gain a thorough understanding of the Metasploit Framework Develop the skills to perform penetration testing in complex and highly secure environmentsLearn techniques to integrate Metasploit with the industry's leading toolsBook Description Most businesses today are driven by their IT infrastructure and the tiniest crack in this IT network can bring down the entire business Metasploit is a pentesting network that can validate your system by performing elaborate penetration tests using the Metasploit Framework to secure your infrastructure This Learning Path introduces you to the basic functionalities and applications of Metasploit Throughout this book you ll learn different techniques for programming Metasploit modules to validate services such as databases fingerprinting and scanning You ll get to grips with post exploitation and write quick scripts to gather information from exploited systems As you progress you ll delve into real world scenarios where performing penetration tests are a challenge With the help of these case studies you ll explore client side attacks using Metasploit and a variety of scripts built on the Metasploit Framework By the end of this Learning Path you ll have the skills required to identify system vulnerabilities by using thorough testing This Learning Path includes content from the following Packt products Metasploit for Beginners by Sagar RahalkarMastering Metasploit Third Edition by Nipun JaswalWhat you will learnDevelop advanced and sophisticated auxiliary modulesPort exploits from Perl Python and many other programming languagesBypass modern protections such as antivirus and IDS with MetasploitScript attacks in Armitage using the Cortana scripting languageCustomize Metasploit modules to modify existing exploitsExplore the steps involved in post exploitation on Android and mobile platformsWho this book is for This Learning Path is ideal for security professionals web programmers and pentesters who want to master vulnerability exploitation and get the most of the Metasploit Framework Basic knowledge

of Ruby programming and Cortana scripting language is required Mastering CISSP: Complete Study Guide and Practice Tests for Cybersecurity Professionals H. Mitchel, Prepare with confidence for the CISSP exam This comprehensive study quide covers all 8 domains of the ISC CISSP CBK offering clear explanations real world examples and practice questions Whether you re a beginner or an experienced cybersecurity professional this book provides everything you need to understand security principles pass the exam and advance your career Ideal for self study or classroom use it s your trusted companion on the road to CISSP certification CLOUD AND INTERNET SECURITY Binh Nguyen, A while back I wrote two documents called Building a Cloud Service and the Convergence Report They basically documented my past experiences and detailed some of the issues that a cloud company may face as it is being built and run Based on what had transpired since a lot of the concepts mentioned in that particular document are becoming widely adopted and or are trending towards them This is a continuation of that particular document and will attempt to analyse the issues that are faced as we move towards the cloud especially with regards to security Once again we will use past experience research as well as current events trends in order to write this particular report Personal experience indicates that keeping track of everything and updating large scale documents is difficult and depending on the system you use extremely cumbersome The other thing readers have to realise is that a lot of the time even if the writer wants to write the most detailed book ever written it s quite simply not possible Several of my past works something such as this particular document takes a few weeks to a few months to write depending on how much spare time I have were written in my spare time and between work and getting an education If I had done a more complete job they would have taken years to write and by the time I had completed the work updates in the outer world would have meant that the work would have meant that at least some of the content would have been out of date Dare I say it by the time that I have completed this report itself some of the content may have come to fruition as was the case with many of the technologies with the other documents I very much see this document as a starting point rather than a complete reference for those who are interested in technology security Note that the information contained in this document is not considered to be correct nor the only way in which to do things It s a mere guide to how the way things are and how we can improve on them Like my previous work it should be considered a work in progress Also note that this document has gone through many revisions and drafts may have gone out over time As such there will be concepts that may have been picked up and adopted by some organisations while others may have simply broken cover while this document was being drafted and sent out for comment It also has a more strategic business slant when compared to the original document which was more technically orientated No illicit activity as far as I know and have researched was conducted during the formulation of this particular document All information was obtained only from publicly available resources and any information or concepts that are likely to be troubling has been redacted Any relevant vulnerabilities or flaws that were found were reported to the relevant entities in question months have passed Feedback credit on any ideas that are subsequently put into action

based on the content of this document would be appreciated Any feedback on the content of this document is welcome Every attempt has been made to ensure that the instructions and information herein are accurate and reliable Please send corrections comments suggestions and questions to the author All trademarks and copyrights are the property of their owners unless otherwise indicated Use of a term in this document should not be regarded as affecting the validity of any trademark or service mark The author would appreciate and consider it courteous if notification of any and all modifications translations and printed versions are sent to him Please note that this is an organic document that will change as we learn more about this new computing paradigm The latest copy of this document can be found either on the author's website blog and or http www tldp org GCIH GIAC Certified Incident Handler All-in-One Exam Guide Nick Mitropoulos, 2020-08-21 This self study guide delivers complete coverage of every topic on the GIAC Certified Incident Handler exam Prepare for the challenging GIAC Certified Incident Handler exam using the detailed information contained in this effective exam preparation guide Written by a recognized cybersecurity expert and seasoned author GCIH GIAC Certified Incident Handler All in One Exam Guide clearly explains all of the advanced security incident handling skills covered on the test Detailed examples and chapter summaries throughout demonstrate real world threats and aid in retention You will get online access to 300 practice questions that match those on the live test in style format and tone Designed to help you prepare for the exam this resource also serves as an ideal on the job reference Covers all exam topics including Intrusion analysis and incident handling Information gathering Scanning enumeration and vulnerability identification Vulnerability exploitation Infrastructure and endpoint attacks Network DoS and Web application attacks Maintaining access Evading detection and covering tracks Worms bots and botnets Online content includes 300 practice exam questions Test engine that provides full length practice exams and customizable guizzes Ouick Start Guide to Penetration Testing Sagar Rahalkar, 2018-11-29 Get started with NMAP OpenVAS and Metasploit in this short book and understand how NMAP OpenVAS and Metasploit can be integrated with each other for greater flexibility and efficiency You will begin by working with NMAP and ZENMAP and learning the basic scanning and enumeration process After getting to know the differences between TCP and UDP scans you will learn to fine tune your scans and efficiently use NMAP scripts This will be followed by an introduction to OpenVAS vulnerability management system You will then learn to configure OpenVAS and scan for and report vulnerabilities The next chapter takes you on a detailed tour of Metasploit and its basic commands and configuration You will then invoke NMAP and OpenVAS scans from Metasploit Lastly you will take a look at scanning services with Metasploit and get to know more about Meterpreter an advanced dynamically extensible payload that is extended over the network at runtime The final part of the book concludes by pentesting a system in a real world scenario where you will apply the skills you have learnt What You Will Learn Carry out basic scanning with NMAP Invoke NMAP from Python Use vulnerability scanning and reporting with OpenVAS Master common commands in Metasploit Who This Book Is

For Readers new to penetration testing who would like to get a guick start on it Proceedings of the 3rd International Conference on Cognitive Based Information Processing and Applications-Volume 1 Bernard J. Jansen, Qingyuan Zhou, Jun Ye, 2024-06-01 This book contains papers presented at the 3rd International Conference on Cognitive based Information Processing and Applications CIPA in Changzhou China from November 2 3 2023 The papers represent the various technological advancements in theory technology and application of artificial intelligence including precision mining intelligent computing deep learning and all other theories models and technologies related to artificial intelligence It caters to postgraduate students researchers and practitioners specializing and working in the area of cognitive inspired computing and intelligent computing The book represents Volume 1 for this conference proceedings which consists of a 3 volume book Mastering Metasploit, Nipun Jaswal, 2018-05-28 Discover the next level of network defense with the Metasploit series framework Key Features Gain the skills to carry out penetration testing in complex and highly secured environments Become a master using the Metasploit framework develop exploits and generate modules for a variety of real world scenarios Get this completely updated edition with new useful methods and techniques to make your network robust and resilient Book Description We start by reminding you about the basic functionalities of Metasploit and its use in the most traditional ways You ll get to know about the basics of programming Metasploit modules as a refresher and then dive into carrying out exploitation as well building and porting exploits of various kinds in Metasploit In the next section you ll develop the ability to perform testing on various services such as databases Cloud environment IoT mobile tablets and similar more services After this training we jump into real world sophisticated scenarios where performing penetration tests are a challenge With real life case studies we take you on a journey through client side attacks using Metasploit and various scripts built on the Metasploit framework By the end of the book you will be trained specifically on time saving techniques using Metasploit What you will learn Develop advanced and sophisticated auxiliary modules Port exploits from PERL Python and many more programming languages Test services such as databases SCADA and many more Attack the client side with highly advanced techniques Test mobile and tablet devices with Metasploit Bypass modern protections such as an AntiVirus and IDS with Metasploit Simulate attacks on web servers and systems with Armitage GUI Script attacks in Armitage using CORTANA scripting Who this book is for This book is a hands on guide to penetration testing using Metasploit and covers its complete development It shows a number of techniques and methodologies that will help you master the Metasploit framework and explore approaches to carrying out advanced penetration testing in highly secured environments **CEH Certified Ethical** Hacker All-in-One Exam Guide Matt Walker, 2011-09-07 Get complete coverage of all the objectives included on the EC Council's Certified Ethical Hacker exam inside this comprehensive resource Written by an IT security expert this authoritative guide covers the vendor neutral CEH exam in full detail You ll find learning objectives at the beginning of each chapter exam tips practice exam questions and in depth explanations Designed to help you pass the exam with ease this

definitive volume also serves as an essential on the job reference COVERS ALL EXAM TOPICS INCLUDING Introduction to ethical hacking Cryptography Reconnaissance and footprinting Network scanning Enumeration System hacking Evasion techniques Social engineering and physical security Hacking web servers and applications SQL injection Viruses trojans and other attacks Wireless hacking Penetration testing CD ROM FEATURES Two practice exams PDF copy of the book Bonus appendix with author's recommended tools sites and references Matt Walker CEHv7 CPTS CNDA CCNA MCSE has held a wide variety of IT security teaching writing and leadership roles including director of the Network Training Center on Ramstein AB Germany and IT security manager for Lockheed Martin at Kennedy Space Center He is currently a security engineer for Hewlett Packard Cybersecurity Henrique M. D. Santos, 2022-04-27 Cybersecurity A Practical Engineering Approach introduces the implementation of a secure cyber architecture beginning with the identification of security risks It then builds solutions to mitigate risks by considering the technological justification of the solutions as well as their efficiency. The process follows an engineering process model Each module builds on a subset of the risks discussing the knowledge necessary to approach a solution followed by the security control architecture design and the implementation The modular approach allows students to focus on more manageable problems making the learning process simpler and more attractive

Metasploit Revealed: Secrets of the Expert Pentester Sagar Rahalkar, Nipun Jaswal, 2017-12-05 Exploit the secrets of Metasploit to master the art of penetration testing About This Book Discover techniques to integrate Metasploit with the industry's leading tools Carry out penetration testing in highly secured environments with Metasploit and acquire skills to build your defense against organized and complex attacks Using the Metasploit framework develop exploits and generate modules for a variety of real world scenarios Who This Book Is For This course is for penetration testers ethical hackers and security professionals who d like to master the Metasploit framework and explore approaches to carrying out advanced penetration testing to build highly secure networks Some familiarity with networking and security concepts is expected although no familiarity of Metasploit is required What You Will Learn Get to know the absolute basics of the Metasploit framework so you have a strong foundation for advanced attacks Integrate and use various supporting tools to make Metasploit even more powerful and precise Test services such as databases SCADA and many more Attack the client side with highly advanced techniques Test mobile and tablet devices with Metasploit Understand how to Customize Metasploit modules and modify existing exploits Write simple yet powerful Metasploit automation scripts Explore steps involved in post exploitation on Android and mobile platforms In Detail Metasploit is a popular penetration testing framework that has one of the largest exploit databases around This book will show you exactly how to prepare yourself against the attacks you will face every day by simulating real world possibilities This learning path will begin by introducing you to Metasploit and its functionalities You will learn how to set up and configure Metasploit on various platforms to create a virtual test environment You will also get your hands on various tools and components and get hands on experience with carrying out client side

attacks In the next part of this learning path you ll develop the ability to perform testing on various services such as SCADA databases IoT mobile tablets and many more services After this training we jump into real world sophisticated scenarios where performing penetration tests are a challenge With real life case studies we take you on a journey through client side attacks using Metasploit and various scripts built on the Metasploit framework The final instalment of your learning journey will be covered through a bootcamp approach You will be able to bring together the learning together and speed up and integrate Metasploit with leading industry tools for penetration testing You ll finish by working on challenges based on user s preparation and work towards solving the challenge The course provides you with highly practical content explaining Metasploit from the following Packt books Metasploit for Beginners Mastering Metasploit Second Edition Metasploit Bootcamp Style and approach This pragmatic learning path is packed with start to end instructions from getting started with Metasploit to effectively building new things and solving real world examples All the key concepts are explained with the help of examples and demonstrations that will help you understand everything to use this essential IT power tool Certified Ethical Hacker All-in-One Exam Guide, Fourth Edition Matt Walker, 2019-03-22 Publisher's Note Products purchased from Third Party sellers are not guaranteed by the publisher for quality authenticity or access to any online entitlements included with the product Up to date coverage of every topic on the CEH v10 examThoroughly updated for CEH v10 exam objectives this integrated self study system offers complete coverage of the EC Council's Certified Ethical Hacker exam In this new edition IT security expert Matt Walker discusses the latest tools techniques and exploits relevant to the exam You ll find learning objectives at the beginning of each chapter exam tips practice exam questions and in depth explanations Designed to help you pass the exam with ease this comprehensive resource also serves as an essential on the job reference Covers all exam topics including Ethical hacking fundamentals Reconnaissance and footprinting Scanning and enumeration Sniffing and evasion Attacking a system Hacking web servers and applications Wireless network hacking Security in cloud computing Trojans and other attacks Cryptography Social engineering and physical security Penetration testing Digital content includes 300 practice exam questions Test engine that provides full length practice exams and customized guizzes by chapter Mastering Metasploit Nipun Jaswal, 2016-09-30 Take your penetration testing and IT security skills to a whole new level with the secrets of Metasploit About This Book Gain the skills to carry out penetration testing in complex and highly secured environments Become a master using the Metasploit framework develop exploits and generate modules for a variety of real world scenarios Get this completely updated edition with new useful methods and techniques to make your network robust and resilient Who This Book Is For This book is a hands on guide to penetration testing using Metasploit and covers its complete development It shows a number of techniques and methodologies that will help you master the Metasploit framework and explore approaches to carrying out advanced penetration testing in highly secured environments What You Will Learn Develop advanced and sophisticated auxiliary modules Port exploits from PERL

Python and many more programming languages Test services such as databases SCADA and many more Attack the client side with highly advanced techniques Test mobile and tablet devices with Metasploit Perform social engineering with Metasploit Simulate attacks on web servers and systems with Armitage GUI Script attacks in Armitage using CORTANA scripting In Detail Metasploit is a popular penetration testing framework that has one of the largest exploit databases around This book will show you exactly how to prepare yourself against the attacks you will face every day by simulating real world possibilities We start by reminding you about the basic functionalities of Metasploit and its use in the most traditional ways You ll get to know about the basics of programming Metasploit modules as a refresher and then dive into carrying out exploitation as well building and porting exploits of various kinds in Metasploit In the next section you ll develop the ability to perform testing on various services such as SCADA databases IoT mobile tablets and many more services After this training we jump into real world sophisticated scenarios where performing penetration tests are a challenge With real life case studies we take you on a journey through client side attacks using Metasploit and various scripts built on the Metasploit framework By the end of the book you will be trained specifically on time saving techniques using Metasploit Style and approach This is a step by step guide that provides great Metasploit framework methodologies All the key concepts are explained details with the help of examples and demonstrations that will help you understand everything you need to know GPEN GIAC Certified Penetration Tester All-in-One Exam Guide Raymond Nutting, William about Metasploit MacCormack, 2020-11-05 This effective study guide provides 100% coverage of every topic on the GPEN GIAC Penetration Tester exam This effective self study guide fully prepares you for the Global Information Assurance Certification s challenging Penetration Tester exam which validates advanced IT security skills The book features exam focused coverage of penetration testing methodologies legal issues and best practices GPEN GIAC Certified Penetration Tester All in One Exam Guide contains useful tips and tricks real world examples and case studies drawn from authors extensive experience Beyond exam preparation the book also serves as a valuable on the job reference Covers every topic on the exam including Pre engagement and planning activities Reconnaissance and open source intelligence gathering Scanning enumerating targets and identifying vulnerabilities Exploiting targets and privilege escalation Password attacks Post exploitation activities including data exfiltration and pivoting PowerShell for penetration testing Web application injection attacks Tools of the trade Metasploit proxies and more Online content includes 230 accurate practice exam questions Test engine containing full length practice exams and customizable guizzes CEH Certified Ethical Hacker All-in-One Exam Guide, Fifth Edition Matt Walker, 2021-11-05 Up to date coverage of every topic on the CEH v11 exam Thoroughly updated for CEH v11 exam objectives this integrated self study system offers complete coverage of the EC Council's Certified Ethical Hacker exam In this new edition IT security expert Matt Walker discusses the latest tools techniques and exploits relevant to the exam You ll find learning objectives at the beginning of each chapter exam tips practice exam questions and in depth explanations

Designed to help you pass the exam with ease this comprehensive resource also serves as an essential on the job reference Covers all exam topics including Ethical hacking fundamentals Reconnaissance and footprinting Scanning and enumeration Sniffing and evasion Attacking a system Hacking web servers and applications Wireless network hacking Mobile IoT and OT Security in cloud computing Trojans and other attacks including malware analysis Cryptography Social engineering and physical security Penetration testing Online content includes 300 practice exam questions Test engine that provides full length practice exams and customized guizzes by chapter or exam domain Mike Meyers' CompTIA Security+ **Certification Guide, Third Edition (Exam SY0-601)** Mike Meyers, Scott Jernigan, 2021-05-07 An up to date CompTIA Security exam guide from training and exam preparation guru Mike Meyers Take the latest version of the CompTIA Security exam exam SY0 601 with confidence using the comprehensive information contained in this highly effective self study resource Like the test the guide goes beyond knowledge application and is designed to ensure that security personnel anticipate security risks and guard against them In Mike Meyers CompTIA Security Certification Guide Third Edition Exam SYO 601 the bestselling author and leading authority on CompTIA A certification brings his proven methodology to IT security Mike covers all exam objectives in small digestible modules that allow you to focus on individual skills as you move through a broad and complex set of skills and concepts The book features hundreds of accurate practice questions as well as a toolbox of the author's favorite network security related freeware shareware Provides complete coverage of every objective for exam SY0 601 Online content includes 20 lab simulations video training a PDF glossary and 180 practice questions Written by computer security and certification experts Mike Meyers and Scott Jernigan Mike Meyers' CompTIA Network+ Guide to Managing and Troubleshooting Networks, Sixth Edition (Exam N10-008) Mike Meyers, Scott Jernigan, 2022-03-25 This fully updated four color textbook is designed for classroom use and covers every topic on the latest version of the challenging CompTIA Network exam Written by Mike Meyers the leading CompTIA certification and training expert this full color resource prepares students for the CompTIA Network exam and puts you on the path to becoming an expert networking professional Thoroughly revised for the current version of the CompTIA Network exam the book contains helpful on the job advice hands on examples chapter summaries key terms guizzes review questions lab projects and hundreds of photographs and illustrations Mike Meyers CompTIA Network Guide to Managing and Troubleshooting Networks Sixth Edition Exam N10 008 covers the latest concepts and technologies including basic datacenter cloud and virtual networking concepts Students will learn networking fundamentals and best practices and networking fundamentals while following the path to becoming an effective networking professional Special design elements throughout reinforce salient points while preparing you for exam day Contains 100% coverage of every objective for CompTIA Network exam N10 008 Online content includes 100 accurate practice questions a self assessment practice exam engine videos and lab simulations from Mike Meyers and on the job tools and utilities Written by CompTIA certification and training guru Mike

Meyers Instructor materials and answer keys are available to adopting instructors through your McGraw Hill sales representative answers are not printed in the book *Mike Meyers' CompTIA Security+ Certification Guide, Second Edition (Exam SY0-501)* Mike Meyers, Scott Jernigan, 2017-12-22 Publisher's Note Products purchased from Third Party sellers are not guaranteed by the publisher for quality authenticity or access to any online entitlements included with the product A fully updated CompTIA Security exam guide from training and exam preparation expert Mike Meyers Take the CompTIA Security exam exam SY0 501 with confidence using the comprehensive information contained in this highly effective study resource Like the exam the guide goes beyond knowledge application and is designed to ensure that security personnel anticipate security risks and guard against them In Mike Meyers CompTIA Security Certification Guide Second Edition Exam SY0 501 the bestselling author and leading authority on CompTIA A certification brings his proven methodology to IT security Mike covers all exam objectives in small digestible modules that allow you to focus on individual skills as you move through a broad and complex set of skills and concepts The book features hundreds of accurate practice questions as well as a toolbox of the author's favorite network security related freeware shareware Provides complete coverage of every objective on exam SY0 501 Electronic content includes 20 lab simulations video training and hundreds of practice exam questions Written by computer security and certification guru Mike Meyers

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