Ethical Hacking With Kali Linux Step By Step

Ethical Hacking With Kali Linux Step By Step Ethical Hacking with Kali Linux A StepbyStep Guide This blog post provides a comprehensive guide to ethical hacking using Kali Linux a powerful and versatile operating system specifically designed for penetration testing and security assessments The post will cover essential tools stepbystep procedures and crucial ethical considerations empowering individuals to learn and practice ethical hacking responsibly Ethical Hacking Kali Linux Penetration Testing Security Assessment Ethical Considerations Information Security Vulnerability Assessment Cybersecurity Ethical hacking also known as penetration testing plays a vital role in strengthening cybersecurity by identifying and exploiting vulnerabilities in systems and networks before malicious actors can exploit them This blog post explores the power of Kali Linux a widely used ethical hacking distribution and provides a practical guide for beginners Well delve into essential tools and techniques while emphasizing the ethical considerations and responsible practices necessary for conducting ethical hacking operations Analysis of Current Trends The landscape of cyber threats is constantly evolving New vulnerabilities emerge daily and attackers are becoming more sophisticated in their methods To stay ahead of these threats organizations and individuals alike need to adopt a proactive approach to security This is where ethical hacking comes in Key trends driving the demand for ethical hacking professionals The increasing sophistication of cyberattacks As attackers employ advanced techniques like ransomware phishing and social engineering the need for skilled ethical hackers to identify and counter these threats is more crucial than ever The growing reliance on technology With the rise of cloud

computing mobile devices and the Internet of Things IoT the attack surface is expanding exponentially Ethical hackers are essential for assessing and securing these diverse platforms Data privacy regulations Stricter data privacy regulations like GDPR and CCPA are emphasizing the need for robust security practices Ethical hackers play a vital role in ensuring compliance and protecting sensitive data The shortage of cybersecurity professionals The global demand for skilled cybersecurity 2 professionals including ethical hackers far outpaces the supply This creates opportunities for individuals interested in pursuing a career in this field Understanding Ethical Hacking and Kali Linux What is Ethical Hacking Ethical hacking is a practice of using hacking techniques to identify and exploit vulnerabilities in systems and networks with the explicit permission of the owner The primary goal is to assess security posture improve defenses and mitigate potential risks before malicious actors can exploit them Why Kali Linux Kali Linux is a Debianbased operating system designed specifically for penetration testing and security assessments It comes preloaded with a vast array of tools and utilities making it a highly valuable resource for ethical hackers Key Features of Kali Linux Hundreds of preinstalled tools Kali Linux includes a comprehensive suite of tools for various hacking tasks including reconnaissance vulnerability scanning exploit development and postexploitation analysis Customizable environment Kali Linux allows users to customize their environment to meet their specific needs You can install additional software packages create custom scripts and configure tools for optimal performance Community support Kali Linux enjoys a large and active community of users providing access to a wealth of knowledge resources and support Regular updates Kali Linux is regularly updated with new security tools bug fixes and vulnerability patches ensuring that users have access to the latest and greatest resources A StepbyStep Guide to Ethical Hacking with Kali Linux 1 Setting

up Kali Linux Download and install Download the Kali Linux ISO image from the official website httpswwwkaliorgdownloadshttpswwwkaliorgdownloads and install it on a virtual machine or directly onto a dedicated computer Configure the environment Once installed customize your Kali Linux environment by installing additional packages setting up network connections and configuring the system for your specific needs 2 Reconnaissance 3 Information gathering Use tools like nmap and dnsrecon to scan target networks and gather information about their infrastructure services and open ports Social engineering Learn about different techniques like phishing pretexting and baiting to understand how attackers gather information and gain access to systems 3 Vulnerability Scanning Port scanning Use nmap and other tools to identify open ports and services on target systems Vulnerability scanning Employ tools like Nessus and OpenVAS to identify known vulnerabilities and security weaknesses in target systems and applications 4 Exploitation Exploit development Learn how to write and use exploit code to take advantage of identified vulnerabilities Exploitation tools Utilize tools like Metasploit to automate exploitation processes and gain access to target systems 5 PostExploitation Privilege escalation Once you gain access to a system use tools like pwned and linux exploitsuggester to attempt to gain higher privileges and access sensitive data Data exfiltration Utilize techniques like ssh tunneling and netcat to transfer collected data from the target system 6 Reporting and Remediation Documentation Document all findings and create a detailed report outlining the vulnerabilities identified the impact of the exploited vulnerabilities and recommendations for remediation Remediation Work with the target system owner to implement security patches update software and strengthen their defenses to mitigate the identified vulnerabilities Discussion of Ethical Considerations Ethical hacking is a powerful tool for enhancing cybersecurity but its crucial to use this power responsibly Here are some essential ethical

considerations to keep in mind Obtain explicit permission Always obtain explicit permission from the owner of the system or network you intend to test before conducting any ethical hacking activities Limit the scope of your activities Focus your activities on the specific targets and vulnerabilities authorized by the owner 4 Respect privacy Avoid accessing or collecting sensitive data that is not relevant to your testing objectives Be transparent Communicate your findings clearly and comprehensively to the owner of the system or network Promote security best practices Encourage the owner to implement security measures and best practices to mitigate the identified vulnerabilities Report illegal activities If you discover any evidence of illegal activity during your testing report it to the appropriate authorities Conclusion Ethical hacking is a critical component of a comprehensive cybersecurity strategy By understanding the concepts tools and techniques discussed in this post you can leverage the power of Kali Linux to identify vulnerabilities improve security posture and protect against malicious actors Remember to always prioritize ethical considerations and responsible practices when engaging in ethical hacking activities

Kali Linux – Assuring Security by Penetration TestingThe Ultimate Kali Linux BookIntermediate Security Testing with Kali Linux 2Basic Security Testing with Kali Linux, Third EditionKali Linux for BeginnersWeb Penetration Testing with Kali LinuxWeb Penetration Testing with Kali LinuxWeb Penetration Testing with Kali LinuxKali LinuxKali Linux for BeginnersPenetration Testing with Kali LinuxKali Linux 2 – Assuring Security by Penetration TestingHands-On AWS Penetration Testing with Kali LinuxWeb Penetration Testing with Kali Linux - Second EditionMastering Kali Linux for Advanced Penetration TestingBasic Security Testing with Kali LinuxHacking with Kali LinuxKali Linux CookbookBasic Security Testing with Kali Linux 2Digital Forensics with Kali Linux Lee Allen Glen D. Singh Daniel W. Dieterle

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written as an interactive tutorial this book covers the core of kali linux with real world examples and step by step instructions to provide professional guidelines and recommendations for you the book is designed in a simple and intuitive manner that allows you to explore the whole kali linux testing process or study parts of it individually if you are an it security professional who has a basic knowledge of unix

linux operating systems including an awareness of information security factors and want to use kali linux for penetration testing then this book is for you

the most comprehensive guide to ethical hacking and penetration testing with kali linux from beginner to professional key features learn to compromise enterprise networks with kali linux gain comprehensive insights into security concepts using advanced real life hacker techniques use kali linux in the same way ethical hackers and penetration testers do to gain control of your environment purchase of the print or kindle book includes a free ebook in the pdf format book descriptionkali linux is the most popular and advanced penetration testing linux distribution within the cybersecurity industry using kali linux a cybersecurity professional will be able to discover and exploit various vulnerabilities and perform advanced penetration testing on both enterprise wired and wireless networks this book is a comprehensive guide for those who are new to kali linux and penetration testing that will have you up to speed in no time using real world scenarios you ll understand how to set up a lab and explore core penetration testing concepts throughout this book you ll focus on information gathering and even discover different vulnerability assessment tools bundled in kali linux you ll learn to discover target systems on a network identify security flaws on devices exploit security weaknesses and gain access to networks set up command and control c2 operations and perform web application penetration testing in this updated second edition you ll be able to compromise active directory and exploit enterprise networks finally this book covers best practices for performing complex web penetration testing techniques in a highly secured environment by the end of this kali linux book you ll have gained the skills to perform advanced penetration testing on enterprise networks using kali linux what you will learn explore the fundamentals of ethical hacking understand how to install and configure kali linux

perform asset and network discovery techniques focus on how to perform vulnerability assessments exploit the trust in active directory domain services perform advanced exploitation with command and control c2 techniques implement advanced wireless hacking techniques become well versed with exploiting vulnerable web applications who this book is for this pentesting book is for students trainers cybersecurity professionals cyber enthusiasts network security professionals ethical hackers penetration testers and security engineers if you do not have any prior knowledge and are looking to become an expert in penetration testing using the kali linux operating system os then this book is for you

kali linux 2 is the most advanced and feature rich penetration testing platform available this hands on learn by doing book will help take you beyond the basic features of kali into a more advanced understanding of the tools and techniques used in security testing if you have a basic understanding of kali and want to learn more or if you want to learn more advanced techniques then this book is for you kali linux is an ethical hacking platform that allows good guys to use the same tools and techniques that a hacker would use so they can find and correct security issues before the bad guys detect them as a follow up to the popular basic security testing with kali linux book this work picks up where the first left off topics include what is new in kali 2 new metasploit features and commands creating shells with msfvenom post modules railgun powershell for post exploitation application pentesting how to use burp suite security testing android devices forensics tools for security testing security testing an internet of things iot device and much more

basic security testing with kali linux third edition kali linux 2018 is an ethical hacking platform that allows security professionals to use the same tools and techniques that a hacker would use so they can find security issues before the attackers do in basic

security testing with kali linux you will learn basic examples of how hackers find out information about your company find weaknesses in your security how they gain access to your systems and most importantly how to stop them completely updated for 2018 this hands on step by step guide covers kali linux overview usage shodan the hacker s google metasploit tutorials exploiting windows and linux systems escalating privileges in windows cracking passwords and obtaining clear text passwords wi fi attacks kali on a raspberry pi android securing your network and much more ul though no computer can be completely hacker proof knowing how an attacker works will help put you on the right track of better securing your network

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build your defense against web attacks with kali linux 2 0 about this book gain a deep understanding of the flaws in web applications and exploit them in a practical manner get hands on web application hacking experience with a range of tools in kali linux 2 0 develop the practical skills required to master multiple tools in the kali linux 2 0 toolkit who this book is for if you are already working as a network penetration tester and want to expand your knowledge of web application hacking then this book tailored for you those who are interested in learning more about the kali sana tools that are used to test web applications will find this book a thoroughly useful and interesting guide what you will learn set up your lab with kali linux 2 0 identify the difference between hacking a web application and network hacking understand the different techniques used to identify the flavor of web applications expose vulnerabilities present in web servers and their applications using server side attacks use sql and cross site scripting xss attacks check for xss flaws using the

burp suite proxy find out about the mitigation techniques used to negate the effects of the injection and blind sql attacks in detail kali linux 2 0 is the new generation of the industry leading backtrack linux penetration testing and security auditing linux distribution it contains several hundred tools aimed at various information security tasks such as penetration testing forensics and reverse engineering at the beginning of the book you will be introduced to the concepts of hacking and penetration testing and will get to know about the tools used in kali linux 2 0 that relate to web application hacking then you will gain a deep understanding of sql and command injection flaws and ways to exploit the flaws moving on you will get to know more about scripting and input validation flaws ajax and the security issues related to ajax at the end of the book you will use an automated technique called fuzzing to be able to identify flaws in a web application finally you will understand the web application vulnerabilities and the ways in which they can be exploited using the tools in kali linux 2 0 style and approach this step by step guide covers each topic with detailed practical examples every concept is explained with the help of illustrations using the tools available in kali linux 2 0

penetration testing with kali linux contains various penetration testing methods using backtrack that will be used by the reader it contains clear step by step instructions with lot of screenshots it is written in an easy to understand language which will further simplify the understanding for the user penetration testing with kali linux is ideal for anyone who is interested in learning how to become a penetration tester it will also help the users who are new to kali linux and want to learn the features and differences in kali versus backtrack and seasoned penetration testers who may need a refresher or reference on new tools and techniques basic familiarity with web based programming languages such as php javascript and mysql will also prove

helpful

build your defense against web attacks with kali linux including command injection flaws crypto implementation layers and web application security holes key features know how to set up your lab with kali linux discover the core concepts of web penetration testing get the tools and techniques you need with kali linux book description penetration testing with kali linux third edition shows you how to set up a lab helps you understand the nature and mechanics of attacking websites and explains classical attacks in great depth this edition is heavily updated for the latest kali linux changes and the most recent attacks kali linux shines when it comes to client side attacks and fuzzing in particular from the start of the book you ll be given a thorough grounding in the concepts of hacking and penetration testing and you ll see the tools used in kali linux that relate to web application hacking you ll gain a deep understanding of classicalsql command injection flaws and the many ways to exploit these flaws penetration testing also needs a general overview of client side attacks which is rounded out by a long discussion of scripting and input validation flaws there is also an important chapter on cryptographic implementation flaws where we discuss the most recent problems with cryptographic layers in the networking stack the importance of these attacks cannot be overstated and defending against them is relevant to most internet users and of course penetration testers at the end of the book you ll use an automated technique called fuzzing to identify flaws in a web application finally you ll gain an understanding of web application vulnerabilities and the ways they can be exploited using the tools in kali linux what you will learn learn how to set up your lab with kali linux understand the core concepts of web penetration testing get to know the tools and techniques you need to use with kali linux identify the difference between hacking a web application

and network hacking expose vulnerabilities present in web servers and their applications using server side attacks understand the different techniques used to identify the flavor of web applications see standard attacks such as exploiting cross site request forgery and cross site scripting flaws get an overview of the art of client side attacks explore automated attacks such as fuzzing web applications who this book is for since this book sets out to cover a large number of tools and security fields it can work as an introduction to practical security skills for beginners in security in addition web programmers and also system administrators would benefit from this rigorous introduction to web penetration testing basic system administration skills are necessary and the ability to read code is a must

do you want to become an ethical hacker start with getting and mastering the right tools what comes to your mind when you hear the word hacker many people imagine an evil genius whose job is stealing top secrets from companies and governments getting hold of everyone s credit card details and secretly interfering in politics but did you know that this is just one side of hacking so called ethical hackers or white hat hackers actually protect computers networks and websites by looking for vulnerabilities and fixing them companies who hire ethical hackers can pay them tens of thousands of dollars to find and fix a security problem ethical hacking isn t just a well paid job after all it s very satisfying to know that you re helping protect the data of thousands if not millions of people also ethical hacker just sounds like an awesome job title if you re excited about becoming an ethical hacker here are some good news you don t have to get a special degree or any formal qualification to start hacking in this job experience is what truly matters once you ve figured out how to start you just have to practice and practice and practice and you ll ultimately become an accomplished cybersecurity expert well but how do you start

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perform effective and efficient penetration testing in an enterprise scenario key features understand the penetration testing process using a highly customizable modular framework exciting use cases demonstrating every action of penetration testing on target systems equipped with proven techniques and best practices from seasoned pen testing practitioners experience driven from actual penetration testing activities from multiple mncs covers a distinguished approach to assess vulnerabilities and extract insights for further investigation description this book is designed to introduce the topic of penetration testing using a structured and easy to learn process driven framework understand the theoretical aspects of penetration testing and create a penetration testing lab environment consisting of various targets to learn and practice your skills learn to comfortably navigate the kali linux and perform administrative activities get to know shell scripting and write simple scripts to

effortlessly run complex commands and automate repetitive testing tasks explore the various phases of the testing framework while practically demonstrating the numerous tools and techniques available within kali linux starting your journey from gathering initial information about the targets and performing enumeration to identify potential weaknesses and sequentially building upon this knowledge to refine the attacks and utilize weaknesses to fully compromise the target machines the authors of the book lay a particularly strong emphasis on documentation and the importance of generating crisp and concise reports which keep the various stakeholders requirements at the center stage what you will learn understand the penetration testing process and its various phases perform practical penetration testing using the various tools available in kali linux get to know the process of penetration testing and set up the kali linux virtual environment perform active and passive reconnaissance learn to execute deeper analysis of vulnerabilities and extract exploit codes learn to solve challenges while performing penetration testing with expert tips who this book is for this book caters to all it professionals with a basic understanding of operating systems networking and linux can use this book to build a skill set for performing real world penetration testing table of contents 1 the basics of penetration testing 2 penetration testing lab 3 finding your way around kali linux 4 understanding the pt process and stages 5 planning and reconnaissance 6 service enumeration and scanning 7 vulnerability research 8 exploitation 9 post exploitation 10 reporting

achieve the gold standard in penetration testing with kali using this masterpiece now in its third edition about this book get a rock solid insight into penetration testing techniques and test your corporate network against threats like never before formulate your pentesting strategies by relying on the most up to date and feature rich kali version in town kali linux 2 aka sana experience this journey with new

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identify tools and techniques to secure and perform a penetration test on an aws infrastructure using kali linux key featuresefficiently perform penetration testing techniques on your public cloud instanceslearn not only to cover loopholes but also

to automate security monitoring and alerting within your cloud based deployment pipelinesa step by step guide that will help you leverage the most widely used security platform to secure your aws cloud environmentbook description the cloud is taking over the it industry any organization housing a large amount of data or a large infrastructure has started moving cloud ward and aws rules the roost when it comes to cloud service providers with its closest competitor having less than half of its market share this highlights the importance of security on the cloud especially on aws while a lot has been said and written about how cloud environments can be secured performing external security assessments in the form of pentests on aws is still seen as a dark art this book aims to help pentesters as well as seasoned system administrators with a hands on approach to pentesting the various cloud services provided by amazon through aws using kali linux to make things easier for novice pentesters the book focuses on building a practice lab and refining penetration testing with kali linux on the cloud this is helpful not only for beginners but also for pentesters who want to set up a pentesting environment in their private cloud using kali linux to perform a white box assessment of their own cloud resources besides this there is a lot of in depth coverage of the large variety of aws services that are often overlooked during a pentest from serverless infrastructure to automated deployment pipelines by the end of this book you will be able to identify possible vulnerable areas efficiently and secure your aws cloud environment what you will learnfamiliarize yourself with and pentest the most common external facing aws servicesaudit your own infrastructure and identify flaws weaknesses and loopholesdemonstrate the process of lateral and vertical movement through a partially compromised aws accountmaintain stealth and persistence within a compromised aws accountmaster a hands on approach to pentestingdiscover a number of automated tools to ease the process of continuously assessing and

improving the security stance of an aws infrastructurewho this book is for if you are a security analyst or a penetration tester and are interested in exploiting cloud environments to reveal vulnerable areas and secure them then this book is for you a basic understanding of penetration testing cloud computing and its security concepts is mandatory

build your defense against web attacks with kali linux 2 0about this book gain a deep understanding of the flaws in web applications and exploit them in a practical manner get hands on web application hacking experience with a range of tools in kali linux 2 0 develop the practical skills required to master multiple tools in the kali linux 2 0 toolkitwho this book is forif you are already working as a network penetration tester and want to expand your knowledge of web application hacking then this book tailored for you those who are interested in learning more about the kali sana tools that are used to test web applications will find this book a thoroughly useful and interesting guide what you will learn set up your lab with kali linux 2 0 identify the difference between hacking a web application and network hacking understand the different techniques used to identify the flavor of web applications expose vulnerabilities present in web servers and their applications using server side attacks use sql and cross site scripting xss attacks check for xss flaws using the burp suite proxy find out about the mitigation techniques used to negate the effects of the injection and blind sql attacksin detailkali linux 2 0 is the new generation of the industry leading backtrack linux penetration testing and security auditing linux distribution it contains several hundred tools aimed at various information security tasks such as penetration testing forensics and reverse engineering at the beginning of the book you will be introduced to the concepts of hacking and penetration testing and will get to know about the tools used in kali linux 2 0 that relate to web

application hacking then you will gain a deep understanding of sql and command injection flaws and ways to exploit the flaws moving on you will get to know more about scripting and input validation flaws ajax and the security issues related to ajax at the end of the book you will use an automated technique called fuzzing to be able to identify flaws in a web application finally you will understand the web application vulnerabilities and the ways in which they can be exploited using the tools in kali linux 2 0 style and approachthis step by step guide covers each topic with detailed practical examples every concept is explained with the help of illustrations using the tools available in kali linux 2 0

a practical guide to testing your infrastructure security with kali linux the preferred choice of pentesters and hackers key featuresemploy advanced pentesting techniques with kali linux to build highly secured systemsdiscover various stealth techniques to remain undetected and defeat modern infrastructuresexplore red teaming techniques to exploit secured environmentbook description this book takes you as a tester or security practitioner through the reconnaissance vulnerability assessment exploitation privilege escalation and post exploitation activities used by pentesters to start with you ll use a laboratory environment to validate tools and techniques along with an application that supports a collaborative approach for pentesting you ll then progress to passive reconnaissance with open source intelligence and active reconnaissance of the external and internal infrastructure you ll also focus on how to select use customize and interpret the results from different vulnerability scanners followed by examining specific routes to the target which include bypassing physical security and the exfiltration of data using a variety of techniques you ll discover concepts such as social engineering attacking wireless networks web services and embedded devices once you are confident with these

topics you ll learn the practical aspects of attacking user client systems by backdooring with fileless techniques followed by focusing on the most vulnerable part of the network directly attacking the end user by the end of this book you ll have explored approaches for carrying out advanced pentesting in tightly secured environments understood pentesting and hacking techniques employed on embedded peripheral devices what you will learnconfigure the most effective kali linux tools to test infrastructure securityemploy stealth to avoid detection in the infrastructure being testedrecognize when stealth attacks are being used against your infrastructureexploit networks and data systems using wired and wireless networks as well as web servicesidentify and download valuable data from target systemsmaintain access to compromised systemsuse social engineering to compromise the weakest part of the network the end userswho this book is for this third edition of mastering kali linux for advanced penetration testing is for you if you are a security analyst pentester ethical hacker it professional or security consultant wanting to maximize the success of your infrastructure testing using some of the advanced features of kali linux prior exposure of penetration testing and ethical hacking basics will be helpful in making the most out of this book

with computer hacking attacks making headline news on a frequent occasion it is time for companies and individuals to take a more active stance in securing their computer systems kali linux is an ethical hacking platform that allows good guys to use the same tools and techniques that a hacker would use so they can find issues with their security before the bad guys do in basic security testing with kali linux you will learn basic examples of how hackers find out information about your company locate weaknesses in your security and how they gain access to your system this hands on step by step learning book covers topics like kali linux introduction and

overview metasploit metasploitable 2 tutorials information gathering a section on shodan the hacker s google exploiting windows and linux systems escalating privileges in windows wireless wifi attacks social engineering attacks password attacks kali on a raspberry pi securing your network though no network can be completely hacker proof knowing how an attacker works will help put you on the right track of better securing your network updated 12 2014 all reported issues have been corrected including print issues spelling issues typos also veil install has been updated

are you interested in finding new and effective ways to keep your system safe and secure do you want to make sure that you are not going to be attacked online and that you won t have to worry about your personal or financial information getting into the wrong hands are you worried about some of the attacks and the headlines that are going around right now concerning data breaches and hackers and you want to make sure that you stay safe and secure the kali linux operating system is one of the best options to work with when you are ready to try out some hacking in an ethical and safe manner using some of the same techniques that many hackers are going to rely on you are able to learn some of the different methods they are going to use and figure out where your potential vulnerabilities are right from the start when you know where these vulnerabilities are it is so much easier to fix them and keep your network as safe as possible inside this guidebook we are going to spend some time taking a look at the kali linux system and how we are able to use it to help with protecting our systems from learning how to work with a vpn to completing our own penetration test and network scan this system is going to help keep you as safe and secure as possible some of the different topics that we will explore to help out with this goal include history of kali linux and some of the benefits of working

with this operating system some of the basics and the commands that you need to use in order to get started with this language how to download and install the kali linux operating system the importance of working on your cybersecurity and keeping your system safe how to handle your own penetration testing to make sure that your computer system is safe and to figure out where we are able to fix some vulnerabilities the different types of hackers that we need to be aware of and how they all work differently from one another the different types of attacks that can happen when we are going to work with a hacker and that we need to be prepared for some of the steps that you are able to take in order to keep your system safe and secure from others protecting your system and your computer safe from hackers can be important in ensuring that your personal information is going to stay as safe and secure as possible when you are ready to learn how to use the kali linux operating system to make this happen make sure to check out this guidebook to help you get started scroll the top of the page and select the buy now button

a practical cookbook style with numerous chapters and recipes explaining the penetration testing the cookbook style recipes allow you to go directly to your topic of interest if you are an expert using this book as a reference or to follow topics throughout a chapter to gain in depth knowledge if you are a beginner this book is ideal for anyone who wants to get up to speed with kali linux it would also be an ideal book to use as a reference for seasoned penetration testers

kali linux is an ethical hacking platform that allows good guys to use the same tools and techniques that a hacker would use so they can find security issues before the bad guys do in basic security testing with kali linux 2 you will learn basic examples of how hackers find out information about your company find weaknesses in your security and how they gain access to your system back cover

learn the skills you need to take advantage of kali linux for digital forensics investigations using this comprehensive guide key features master powerful kali linux tools for digital investigation and analysis perform evidence acquisition preservation and analysis using various tools within kali linux implement the concept of cryptographic hashing and imaging using kali linux perform memory forensics with volatility and internet forensics with xplico discover the capabilities of professional forensic tools such as autopsy and dff digital forensic framework used by law enforcement and military personnel alike book description kali linux is a linux based distribution used mainly for penetration testing and digital forensics it has a wide range of tools to help in forensics investigations and incident response mechanisms you will start by understanding the fundamentals of digital forensics and setting up your kali linux environment to perform different investigation practices the book will delve into the realm of operating systems and the various formats for file storage including secret hiding places unseen by the end user or even the operating system the book will also teach you to create forensic images of data and maintain integrity using hashing tools next you will also master some advanced topics such as autopsies and acquiring investigation data from the network operating system memory and so on the book introduces you to powerful tools that will take your forensic abilities and investigations to a professional level catering for all aspects of full digital forensic investigations from hashing to reporting by the end of this book you will have had hands on experience in implementing all the pillars of digital forensics acquisition extraction analysis and presentation using kali linux tools what you will learn get to grips with the fundamentals of digital forensics and explore best practices understand the workings of file systems storage and data fundamentals discover incident response procedures and best practices use dc3dd and guymager for acquisition and preservation techniques recover deleted data with foremost and

scalpel find evidence of accessed programs and malicious programs using volatility perform network and internet capture analysis with xplico carry out professional digital forensics investigations using the dff and autopsy automated forensic suites who this book is for this book is targeted at forensics and digital investigators security analysts or any stakeholder interested in learning digital forensics using kali linux basic knowledge of kali linux will be an advantage

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