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Dan Farmer, Wietse Venema

Digital Forensics with Open Source Tools Cory Altheide, Harlan

Carvey, 2011-03-29 Digital Forensics with Open Source Tools is the definitive book on investigating and analyzing computer systems and media using open source tools. The book is a technical procedural guide, and explains the use of open source tools on Mac, Linux and Windows systems as a platform for performing computer forensics. Both well-known and novel forensic methods are demonstrated using command-line and graphical open source computer forensic tools for examining a wide range of target systems and artifacts. Written by world-renowned forensic practitioners, this book uses the most current examination and analysis techniques in the field. It consists of 9 chapters that cover a range of topics such as the open source examination platform; disk and file system analysis; Windows systems and artifacts; Linux systems and artifacts; Mac OS X systems and artifacts; Internet artifacts; and automating analysis and extending capabilities. The book lends itself to use by students and those entering the field who do not have means to purchase new tools for different investigations. This book will appeal to forensic practitioners from areas including incident response teams and computer forensic investigators; forensic technicians from legal, audit, and consulting firms; and law enforcement agencies. Written by world-renowned forensic practitioners Details core concepts and techniques of forensic file system analysis Covers analysis of artifacts from the Windows, Mac, and Linux operating systems

Handbook of Big Data and IoT Security Ali Dehghantanha, Kim-Kwang Raymond

Choo, 2019-03-22 This handbook provides an overarching view of cyber security and digital forensic challenges related to big data and IoT environment, prior to reviewing existing data mining solutions and their potential application in big data context, and existing authentication and access control for IoT devices. An IoT access control scheme and an IoT forensic framework is also presented in this book, and it explains how the IoT forensic framework can be used to guide investigation of a popular cloud storage service. A distributed file system forensic approach is also presented, which is used to guide the investigation of Ceph. Minecraft, a Massively Multiplayer Online Game, and the Hadoop distributed file system environment are also forensically studied and their findings reported in this book. A forensic IoT source camera identification algorithm is introduced, which uses the camera's sensor pattern noise from the captured image. In addition to the IoT access control and forensic frameworks, this handbook covers a cyber defense triage process for nine advanced persistent threat (APT) groups targeting IoT infrastructure, namely: APT1, Molerats, Silent Chollima, Shell Crew, NetTraveler, ProjectSauron, CopyKittens, Volatile Cedar and Transparent Tribe. The characteristics of remote-controlled real-world Trojans using the Cyber Kill Chain are also examined. It introduces a method to leverage different crashes discovered from two fuzzing approaches, which can be used to enhance the effectiveness of fuzzers. Cloud computing is also often associated with IoT and big data (e.g., cloud-enabled IoT systems), and hence a survey of the cloud security literature and a survey of botnet detection approaches are presented in the book. Finally, game security solutions are studied and explained how one may circumvent such solutions. This handbook targets the security, privacy and forensics research community, and big data research community, including policy makers and government

agencies, public and private organizations policy makers. Undergraduate and postgraduate students enrolled in cyber security and forensic programs will also find this handbook useful as a reference.

Handbook of Digital Forensics and Investigation Eoghan Casey, 2009-10-07

Handbook of Digital Forensics and Investigation builds on the success of the Handbook of Computer Crime Investigation, bringing together renowned experts in all areas of digital forensics and investigation to provide the consummate resource for practitioners in the field. It is also designed as an accompanying text to Digital Evidence and Computer Crime. This unique collection details how to conduct digital investigations in both criminal and civil contexts, and how to locate and utilize digital evidence on computers, networks, and embedded systems. Specifically, the Investigative Methodology section of the Handbook provides expert guidance in the three main areas of practice: Forensic Analysis, Electronic Discovery, and Intrusion Investigation. The Technology section is extended and updated to reflect the state of the art in each area of specialization. The main areas of focus in the Technology section are forensic analysis of Windows, Unix, Macintosh, and embedded systems (including cellular telephones and other mobile devices), and investigations involving networks (including enterprise environments and mobile telecommunications technology). This handbook is an essential technical reference and on-the-job guide that IT professionals, forensic practitioners, law enforcement, and attorneys will rely on when confronted with computer related crime and digital evidence of any kind. *Provides methodologies proven in practice for conducting digital investigations of all kinds *Demonstrates how to locate and interpret a wide variety of digital evidence, and how it can be useful in investigations *Presents tools in the context of the investigative process, including EnCase, FTK, ProDiscover, foremost, XACT, Network Miner, Splunk, flow-tools, and many other specialized utilities and analysis platforms *Case examples in every chapter give readers a practical understanding of the technical, logistical, and legal challenges that arise in real investigations

Malware Forensics Cameron H. Malin, Eoghan Casey, James M.

Aquilina, 2008-08-08 Malware Forensics: Investigating and Analyzing Malicious Code covers the complete process of responding to a malicious code incident. Written by authors who have investigated and prosecuted federal malware cases, this book deals with the emerging and evolving field of live forensics, where investigators examine a computer system to collect and preserve critical live data that may be lost if the system is shut down. Unlike other forensic texts that discuss live forensics on a particular operating system, or in a generic context, this book emphasizes a live forensics and evidence collection methodology on both Windows and Linux operating systems in the context of identifying and capturing malicious code and evidence of its effect on the compromised system. It is the first book detailing how to perform live forensic techniques on malicious code. The book gives deep coverage on the tools and techniques of conducting runtime behavioral malware analysis (such as file, registry, network and port monitoring) and static code analysis (such as file identification and profiling, strings discovery, armoring/packing detection, disassembling, debugging), and more. It explores over 150 different tools for malware incident response and analysis, including forensic tools for preserving and analyzing computer memory. Readers from all educational and technical

backgrounds will benefit from the clear and concise explanations of the applicable legal case law and statutes covered in every chapter. In addition to the technical topics discussed, this book also offers critical legal considerations addressing the legal ramifications and requirements governing the subject matter. This book is intended for system administrators, information security professionals, network personnel, forensic examiners, attorneys, and law enforcement working with the inner-workings of computer memory and malicious code. * Winner of Best Book Bejtlich read in 2008! * <http://taosecurity.blogspot.com/2008/12/best-book-bejtlich-read-in-2008.html> * Authors have investigated and prosecuted federal malware cases, which allows them to provide unparalleled insight to the reader. * First book to detail how to perform live forensic techniques on malicious code. * In addition to the technical topics discussed, this book also offers critical legal considerations addressing the legal ramifications and requirements governing the subject matter

File System Forensic Analysis Brian Carrier, 2005-03-17 The Definitive Guide to File System Analysis: Key Concepts and Hands-on Techniques Most digital evidence is stored within the computer's file system, but understanding how file systems work is one of the most technically challenging concepts for a digital investigator because there exists little documentation. Now, security expert Brian Carrier has written the definitive reference for everyone who wants to understand and be able to testify about how file system analysis is performed. Carrier begins with an overview of investigation and computer foundations and then gives an authoritative, comprehensive, and illustrated overview of contemporary volume and file systems: Crucial information for discovering hidden evidence, recovering deleted data, and validating your tools. Along the way, he describes data structures, analyzes example disk images, provides advanced investigation scenarios, and uses today's most valuable open source file system analysis tools—including tools he personally developed. Coverage includes Preserving the digital crime scene and duplicating hard disks for dead analysis Identifying hidden data on a disk's Host Protected Area (HPA) Reading source data: Direct versus BIOS access, dead versus live acquisition, error handling, and more Analyzing DOS, Apple, and GPT partitions; BSD disk labels; and Sun Volume Table of Contents using key concepts, data structures, and specific techniques Analyzing the contents of multiple disk volumes, such as RAID and disk spanning Analyzing FAT, NTFS, Ext2, Ext3, UFS1, and UFS2 file systems using key concepts, data structures, and specific techniques Finding evidence: File metadata, recovery of deleted files, data hiding locations, and more Using The Sleuth Kit (TSK), Autopsy Forensic Browser, and related open source tools When it comes to file system analysis, no other book offers this much detail or expertise. Whether you're a digital forensics specialist, incident response team member, law enforcement officer, corporate security specialist, or auditor, this book will become an indispensable resource for forensic investigations, no matter what analysis tools you use.

Computer and Network Security Essentials Kevin Daimi, 2017-08-12 This book introduces readers to the tools needed to protect IT resources and communicate with security specialists when there is a security problem. The book covers a wide range of security topics including Cryptographic Technologies, Network Security, Security Management, Information Assurance, Security Applications, Computer Security, Hardware Security, and Biometrics

and Forensics. It introduces the concepts, techniques, methods, approaches, and trends needed by security specialists to improve their security skills and capabilities. Further, it provides a glimpse into future directions where security techniques, policies, applications, and theories are headed. The book represents a collection of carefully selected and reviewed chapters written by diverse security experts in the listed fields and edited by prominent security researchers. Complementary slides are available for download on the book's website at Springer.com.

Investigating Internet Crimes Todd G. Shipley, Art Bowker, 2013-11-12 Written by experts on the frontlines, Investigating Internet Crimes provides seasoned and new investigators with the background and tools they need to investigate crime occurring in the online world. This invaluable guide provides step-by-step instructions for investigating Internet crimes, including locating, interpreting, understanding, collecting, and documenting online electronic evidence to benefit investigations. Cybercrime is the fastest growing area of crime as more criminals seek to exploit the speed, convenience and anonymity that the Internet provides to commit a diverse range of criminal activities. Today's online crime includes attacks against computer data and systems, identity theft, distribution of child pornography, penetration of online financial services, using social networks to commit crimes, and the deployment of viruses, botnets, and email scams such as phishing. Symantec's 2012 Norton Cybercrime Report stated that the world spent an estimated \$110 billion to combat cybercrime, an average of nearly \$200 per victim. Law enforcement agencies and corporate security officers around the world with the responsibility for enforcing, investigating and prosecuting cybercrime are overwhelmed, not only by the sheer number of crimes being committed but by a lack of adequate training material. This book provides that fundamental knowledge, including how to properly collect and document online evidence, trace IP addresses, and work undercover. Provides step-by-step instructions on how to investigate crimes online Covers how new software tools can assist in online investigations Discusses how to track down, interpret, and understand online electronic evidence to benefit investigations Details guidelines for collecting and documenting online evidence that can be presented in court

Cloud Storage Forensics Darren Quick, Ben Martini, Raymond Choo, 2013-11-16 To reduce the risk of digital forensic evidence being called into question in judicial proceedings, it is important to have a rigorous methodology and set of procedures for conducting digital forensic investigations and examinations. Digital forensic investigation in the cloud computing environment, however, is in infancy due to the comparatively recent prevalence of cloud computing. Cloud Storage Forensics presents the first evidence-based cloud forensic framework. Using three popular cloud storage services and one private cloud storage service as case studies, the authors show you how their framework can be used to undertake research into the data remnants on both cloud storage servers and client devices when a user undertakes a variety of methods to store, upload, and access data in the cloud. By determining the data remnants on client devices, you gain a better understanding of the types of terrestrial artifacts that are likely to remain at the Identification stage of an investigation. Once it is determined that a cloud storage service account has potential evidence of relevance to an investigation, you can communicate this to legal liaison points within

service providers to enable them to respond and secure evidence in a timely manner. Learn to use the methodology and tools from the first evidenced-based cloud forensic framework Case studies provide detailed tools for analysis of cloud storage devices using popular cloud storage services Includes coverage of the legal implications of cloud storage forensic investigations Discussion of the future evolution of cloud storage and its impact on digital forensics

The Investigation of Computer Crime Jay Becker,1980

Hackers Wanted Martin C. Libicki,David Senty,Julia Pollak,2014-06-18 The perceived shortage of cybersecurity professionals working on national security may endanger the nation's networks and be a disadvantage in cyberspace conflict. RAND examined the cybersecurity labor market, especially in regard to national defense. Analysis suggests market forces and government programs will draw more workers into the profession in time, and steps taken today would not bear fruit for another five to ten years.

Applied Incident Response Steve Anson,2020-01-29 Incident response is critical for the active defense of any network, and incident responders need up-to-date, immediately applicable techniques with which to engage the adversary. *Applied Incident Response* details effective ways to respond to advanced attacks against local and remote network resources, providing proven response techniques and a framework through which to apply them. As a starting point for new incident handlers, or as a technical reference for hardened IR veterans, this book details the latest techniques for responding to threats against your network, including: Preparing your environment for effective incident response Leveraging MITRE ATT&CK and threat intelligence for active network defense Local and remote triage of systems using PowerShell, WMIC, and open-source tools Acquiring RAM and disk images locally and remotely Analyzing RAM with Volatility and Rekall Deep-dive forensic analysis of system drives using open-source or commercial tools Leveraging Security Onion and Elastic Stack for network security monitoring Techniques for log analysis and aggregating high-value logs Static and dynamic analysis of malware with YARA rules, FLARE VM, and Cuckoo Sandbox Detecting and responding to lateral movement techniques, including pass-the-hash, pass-the-ticket, Kerberoasting, malicious use of PowerShell, and many more Effective threat hunting techniques Adversary emulation with Atomic Red Team Improving preventive and detective controls

Digital Forensics and Investigation: From Data to Digital Evidence Anne Wade,2018-12 Digital tools such as hard drives and smartphones have recently been used to extract core information from terrorists. An iPhone was used to capture the famous celebrity, Michael Jackson in his final moment. We will keep talking about the role of digital forensics in our modern world because it has brought a lot of ease to every facet of life and various industries. It has helped deliver justice by catching criminals. Cyber activity has become a significant part of our lives and obviously, we cannot do without it because the world has changed due to science and technology. This is in addition to the fact that research is conducted daily to improve the lives of people of around the world. According to the EC Council, about 85% of businesses and government agencies have detected a security breach. Over the past few years, practitioners and researchers have made significant advances in digital forensics. Our understanding of technology has improved and we have gained the necessary experience to refine our practices. We have overcome major technical challenges, giving practitioners greater access to

digital evidence. New forensic techniques and tools are created almost daily to support forensic acquisition of volatile data, inspection of remote systems, and analysis of network traffic. Various books on forensics from diverse authors are very specific and tend to ignore core aspects of digital forensics. This book specially corrects this mistake by covering most core aspects that readers need to understand when dealing with forensic investigation. It is organized in such a way that the hierarchy of various forensics topics is highlighted. The case studies give readers a realistic view and a sense of the technical, legal, and practical challenges that arise in real computer investigations. Tables and figures are included for comparison and better understanding. A bibliography is listed at the end of this book for further studies and research. This book is intended to help crime investigators in various government agencies and security personnel to understand the concept of digital forensics comprehensively, access the benefits of various sources of digital evidence, evaluate and integrate some of the important principles of digital evidence into investigations, and decode the relationship between digital evidence and open source tools. It is written to meet the needs of digital forensic investigators, information security engineers, security analysts, cybercrimes investigators, firewall engineers, forensic scientists, attorneys, law enforcement, computer professionals, and other professionals in the Information and communication technology (ICT) industry. Book jacket.

Searching and Seizing Computers and Obtaining Electronic Evidence in Criminal Investigations Orin S. Kerr, 2001

Forensic Examination of Digital Evidence U S Department of Justice, 2014-08-01 Developments in the world have shown how simple it is to acquire all sorts of information through the use of computers. This information can be used for a variety of endeavors, and criminal activity is a major one. In an effort to fight this new crime wave, law enforcement agencies, financial institutions, and investment firms are incorporating computer forensics into their infrastructure. From network security breaches to child pornography investigations, the common bridge is the demonstration that the particular electronic media contained the incriminating evidence. Supportive examination procedures and protocols should be in place in order to show that the electronic media contains the incriminating evidence.

Core Python Programming Wesley J Chun, 2006-09-18 Praise for Core Python Programming The Complete Developer's Guide to Python New to Python? The definitive guide to Python development for experienced programmers Covers core language features thoroughly, including those found in the latest Python releases—learn more than just the syntax! Learn advanced topics such as regular expressions, networking, multithreading, GUI, Web/CGI, and Python extensions Includes brand-new material on databases, Internet clients, Java/Jython, and Microsoft Office, plus Python 2.6 and 3 Presents hundreds of code snippets, interactive examples, and practical exercises to strengthen your Python skills Python is an agile, robust, expressive, fully object-oriented, extensible, and scalable programming language. It combines the power of compiled languages with the simplicity and rapid development of scripting languages. In Core Python Programming, Second Edition, leading Python developer and trainer Wesley Chun helps you learn Python quickly and comprehensively so that you can immediately succeed with any Python project.

Using practical code examples, Chun introduces all the fundamentals of Python programming: syntax, objects and memory management, data types, operators, files and I/O, functions, generators, error handling and exceptions, loops, iterators, functional programming, object-oriented programming and more. After you learn the core fundamentals of Python, he shows you what you can do with your new skills, delving into advanced topics, such as regular expressions, networking programming with sockets, multithreading, GUI development, Web/CGI programming and extending Python in C. This edition reflects major enhancements in the Python 2.x series, including 2.6 and tips for migrating to 3. It contains new chapters on database and Internet client programming, plus coverage of many new topics, including new-style classes, Java and Jython, Microsoft Office (Win32 COM Client) programming, and much more. Learn professional Python style, best practices, and good programming habits Gain a deep understanding of Python's objects and memory model as well as its OOP features, including those found in Python's new-style classes Build more effective Web, CGI, Internet, and network and other client/server applications Learn how to develop your own GUI applications using Tkinter and other toolkits available for Python Improve the performance of your Python applications by writing extensions in C and other languages, or enhance I/O-bound applications by using multithreading Learn about Python's database API and how to use a variety of database systems with Python, including MySQL, Postgres, and SQLite Features appendices on Python 2.6 & 3, including tips on migrating to the next generation!

National cyber security : framework manual Alexander Klimburg,2012 What, exactly, is 'National Cyber Security'? The rise of cyberspace as a field of human endeavour is probably nothing less than one of the most significant developments in world history. Cyberspace already directly impacts every facet of human existence including economic, social, cultural and political developments, and the rate of change is not likely to stop anytime soon. However, the socio-political answers to the questions posed by the rise of cyberspace often significantly lag behind the rate of technological change. One of the fields most challenged by this development is that of 'national security'. The National Cyber Security Framework Manual provides detailed background information and in-depth theoretical frameworks to help the reader understand the various facets of National Cyber Security, according to different levels of public policy formulation. The four levels of government-political, strategic, operational and tactical/technical--each have their own perspectives on National Cyber Security, and each is addressed in individual sections within the Manual. Additionally, the Manual gives examples of relevant institutions in National Cyber Security, from top-level policy coordination bodies down to cyber crisis management structures and similar institutions.--Page 4 of cover.

Forensic Discovery Dan Farmer,Wietse Venema,2004-12-30 Don't look now, but your fingerprints are all over the cover of this book. Simply picking it up off the shelf to read the cover has left a trail of evidence that you were here. If you think book covers are bad, computers are worse. Every time you use a computer, you leave elephant-sized tracks all over it. As Dan and Wietse show, even people trying to be sneaky leave evidence all over, sometimes in surprising places. This book is about computer archeology. It's about finding out what might have been based on what is left behind. So pick up a tool and dig in. There's plenty to learn from these masters of computer

security. --Gary McGraw, Ph.D., CTO, Cigital, coauthor of *Exploiting Software and Building Secure Software* A wonderful book. Beyond its obvious uses, it also teaches a great deal about operating system internals. --Steve Bellovin, coauthor of *Firewalls and Internet Security, Second Edition*, and Columbia University professor A must-have reference book for anyone doing computer forensics. Dan and Wietse have done an excellent job of taking the guesswork out of a difficult topic. --Brad Powell, chief security architect, Sun Microsystems, Inc. Farmer and Venema provide the essential guide to 'fossil' data. Not only do they clearly describe what you can find during a forensic investigation, they also provide research found nowhere else about how long data remains on disk and in memory. If you ever expect to look at an exploited system, I highly recommend reading this book. --Rik Farrow, Consultant, author of *Internet Security for Home and Office* Farmer and Venema do for digital archaeology what Indiana Jones did for historical archaeology. *Forensic Discovery* unearths hidden treasures in enlightening and entertaining ways, showing how a time-centric approach to computer forensics reveals even the cleverest intruder. --Richard Bejtlich, technical director, ManTech CFIA, and author of *The Tao of Network Security Monitoring* Farmer and Venema are 'hackers' of the old school: They delight in understanding computers at every level and finding new ways to apply existing information and tools to the solution of complex problems. --Muffy Barkocy, Senior Web Developer, Shopping.com This book presents digital forensics from a unique perspective because it examines the systems that create digital evidence in addition to the techniques used to find it. I would recommend this book to anyone interested in learning more about digital evidence from UNIX systems. --Brian Carrier, digital forensics researcher, and author of *File System Forensic Analysis* The Definitive Guide to Computer Forensics: Theory and Hands-On Practice Computer forensics--the art and science of gathering and analyzing digital evidence, reconstructing data and attacks, and tracking perpetrators--is becoming ever more important as IT and law enforcement professionals face an epidemic in computer crime. In *Forensic Discovery*, two internationally recognized experts present a thorough and realistic guide to the subject. Dan Farmer and Wietse Venema cover both theory and hands-on practice, introducing a powerful approach that can often recover evidence considered lost forever. The authors draw on their extensive firsthand experience to cover everything from file systems, to memory and kernel hacks, to malware. They expose a wide variety of computer forensics myths that often stand in the way of success. Readers will find extensive examples from Solaris, FreeBSD, Linux, and Microsoft Windows, as well as practical guidance for writing one's own forensic tools. The authors are singularly well-qualified to write this book: They personally created some of the most popular security tools ever written, from the legendary SATAN network scanner to the powerful Coroner's Toolkit for analyzing UNIX break-ins. After reading this book you will be able to Understand essential forensics concepts: volatility, layering, and trust Gather the maximum amount of reliable evidence from a running system Recover partially destroyed information--and make sense of it Timeline your system: understand what really happened when Uncover secret changes to everything from system utilities to kernel modules Avoid cover-ups and evidence traps set by intruders Identify the digital footprints associated with suspicious activity Understand file systems from a forensic analyst's point of view Analyze malware--without giving it a chance to escape Capture and examine the

contents of main memory on running systems Walk through the unraveling of an intrusion, one step at a time The book's companion Web site contains complete source and binary code for open source software discussed in the book, plus additional computer forensics case studies and resource links.

Handbook of Big Data Peter Bühlmann, Petros Drineas, Michael Kane, Mark van der Laan, 2016-02-22 Handbook of Big Data provides a state-of-the-art overview of the analysis of large-scale datasets. Featuring contributions from well-known experts in statistics and computer science, this handbook presents a carefully curated collection of techniques from both industry and academia. Thus, the text instills a working understanding of key statistical

Malware Ed Skoudis, Lenny Zeltser, 2004 bull; Real-world tools needed to prevent, detect, and handle malicious code attacks. bull; Computer infection from viruses, worms, Trojan Horses etc., collectively known as malware is a growing cost problem for businesses. bull; Discover how attackers install malware and how you can peer through their schemes to keep systems safe. bull; Bonus malware code analysis laboratory.

World Population Prospects United Nations Publications, 2016-05-09 This report presents the 2010 Revision of the population estimates and projections prepared by the Population Division of the Department of Economic and Social Affairs of the United Nations Secretariat. The 2010 Revision constitutes the twenty second round of the global population estimates and projections produced by the Population Division since 1951 and it breaks new ground in the production of population projections. For the first time, projections are carried out up to 2100, instead of 2050 as previously. In order to extend the projection period to 2100, a new method for the projection of fertility was developed. The method used in the 2010 Revision is based on the advances made in projecting fertility since the 2000 Revision, advances that have been combined with a probabilistic approach to yield the future paths of fertility used in producing the medium variant of the 2010 Revision. The full results of the 2010 Revision are presented in two volumes. The first

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contemporary titles. It also allows users to borrow digital copies of certain books for a limited period, similar to a library lending system. Additionally, many universities and educational institutions have their own digital libraries that provide free access to PDF books and manuals. These libraries often offer academic texts, research papers, and technical manuals, making them invaluable resources for students and researchers. Some notable examples include MIT OpenCourseWare, which offers free access to course materials from the Massachusetts Institute of Technology, and the Digital Public Library of America, which provides a vast collection of digitized books and historical documents. In conclusion, Iecacheview 146 books and manuals for download have transformed the way we access information. They provide a cost-effective and convenient means of acquiring knowledge, offering the ability to access a vast library of resources at our fingertips. With platforms like Project Gutenberg, Open Library, and various digital libraries offered by educational institutions, we have access to an ever-

expanding collection of books and manuals. Whether for educational, professional, or personal purposes, these digital resources serve as valuable tools for continuous learning and self-improvement. So why not take advantage of the vast world of Iecacheview 146 books and manuals for download and embark on your journey of knowledge?

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