

Authentication

Mark Stanislav

Who Goes There? National Research Council, Division on Engineering and Physical Sciences, Computer Science and Telecommunications Board, Committee on Authentication Technologies and Their Privacy Implications, 2003-10-22 Who Goes There?: Authentication Through the Lens of Privacy explores authentication technologies (passwords, PKI, biometrics, etc.) and their implications for the privacy of the individuals being authenticated. As authentication becomes ever more ubiquitous, understanding its interplay with privacy is vital. The report examines numerous concepts, including authentication, authorization, identification, privacy, and security. It provides a framework to guide thinking about these issues when deciding whether and how to use authentication in a particular context. The book explains how privacy is affected by system design decisions. It also describes government's unique role in authentication and what this means for how government can use authentication with minimal invasions of privacy. In addition, Who Goes There? outlines usability and security considerations and provides a primer on privacy law and policy.

Authentication Richard E. Smith, 2002 Authentication is the way computers can confidently associate an identity with a person. This book examines the problem that networking professionals face in choosing and using different techniques for reliably identifying computer users, protecting against attacks, and employing various methods of security.

Web Authentication using Third-Parties in Untrusted Environments Anna Vapen, 2016-08-22 With the increasing personalization of the Web, many websites allow users to create their own personal accounts.

This has resulted in Web users often having many accounts on different websites, to which they need to authenticate in order to gain access. Unfortunately, there are several security problems connected to the use and re-use of passwords, the most prevalent authentication method currently in use, including eavesdropping and replay attacks. Several alternative methods have been proposed to address these shortcomings, including the use of hardware authentication devices. However, these more secure authentication methods are often not adapted for mobile Web users who use different devices in different places and in untrusted environments, such as public Wi-Fi networks, to access their accounts. We have designed a method for comparing, evaluating and designing authentication solutions suitable for mobile users and untrusted environments. Our method leverages the fact that mobile users often bring their own cell phones, and also takes into account different levels of security adapted for different services on the Web. Another important trend in the authentication landscape is that an increasing number of websites use third-party authentication. This is a solution where users have an account on a single system, the identity provider, and this one account can then be used with multiple other websites. In addition to requiring fewer passwords, these services can also in some cases implement authentication with higher security than passwords can provide. How websites select their third-party identity providers has privacy and security implications for end users. To better understand the security and privacy risks with these services, we present a data collection methodology that we have used to identify and capture third-party authentication usage on the Web. We have also characterized the third-party authentication landscape based on our collected data, outlining which types of third-parties are used by which types of sites, and how usage

differs across the world. Using a combination of large-scale crawling, longitudinal manual testing, and in-depth login tests, our characterization and analysis has also allowed us to discover interesting structural properties of the landscape, differences in the cross-site relationships, and how the use of third-party authentication is changing over time. Finally, we have also outlined what information is shared between websites in third-party authentication, dened risk classes based on shared data, and proled privacy leakage risks associated with websites and their identity providers sharing data with each other. Our ndings show how websites can strengthen the privacy of their users based on how these websites select and combine their third-parties and the data they allow to be shared.

Advances in User Authentication Dipankar Dasgupta,Arunava Roy,Abhijit Nag,2017-08-22 This book is dedicated to advances in the field of user authentication. The book covers detailed description of the authentication process as well as types of authentication modalities along with their several features (authentication factors). It discusses the use of these modalities in a time-varying operating environment, including factors such as devices, media and surrounding conditions, like light, noise, etc. The book is divided into several parts that cover descriptions of several biometric and non-biometric authentication modalities, single factor and multi-factor authentication systems (mainly, adaptive), negative authentication system, etc. Adaptive strategy ensures the incorporation of the existing environmental conditions on the selection of authentication factors and provides significant diversity in the selection process. The contents of this book will prove useful to practitioners, researchers and students. The book is suited to be used a text in advanced/graduate courses on User Authentication Modalities. It can also be used as a textbook for

professional development and certification coursework for practicing engineers and computer scientists.

Two-Factor Authentication Mark Stanislav, 2015-05-05 This book discusses the various technical methods by which two-factor authentication is implemented, security concerns with each type of implementation, and contextual details to frame why and when these technologies should be used. Readers will be provided with insight about the reasons that two-factor authentication is a critical security control, events in history that have been important to prove why organisations and individuals would want to use two factor, and core milestones in the progress of growing the market.

A Guide to Understanding Identification and Authentication in Trusted Systems, 1991

Access Control, Authentication, and Public Key Infrastructure Bill Ballard, Tricia Ballard, Erin Banks, 2010-10-22 Access Control, Authentication, and Public Key Infrastructure provides a unique, in-depth look at how access controls protect resources against unauthorized viewing, tampering, or destruction and serves as a primary means of ensuring privacy, confidentiality, and prevention of unauthorized disclosure. Written by industry experts, this book defines the components of access control, provides a business framework for implementation, and discusses legal requirements that impact access control programs, before looking at the risks, threats, and vulnerabilities prevalent in information systems and IT infrastructures and ways of handling them. Using examples and exercises, this book incorporates hands-on activities to prepare readers to successfully put access control systems to work as well as test and manage them. The Jones & Bartlett Learning: Information Systems Security & Assurance Series delivers fundamental IT Security principles packed with real-world applications and examples for IT Security,

Cybersecurity, Information Assurance, and Information Systems Security programs, Authored by Certified Information Systems Security Professionals (CISSPs), and reviewed by leading technical experts in the field, these books are current, forward-thinking resources that enable readers to solve the cybersecurity challenges of today and tomorrow.

Mobile Authentication Markus Jakobsson, 2012-08-21 Mobile Authentication: Problems and Solutions looks at human-to-machine authentication, with a keen focus on the mobile scenario. Human-to-machine authentication is a startlingly complex issue. In the old days of computer security-before 2000, the human component was all but disregarded. It was either assumed that people should and would be able to follow instructions, or that end users were hopeless and would always make mistakes. The truth, of course, is somewhere in between, which is exactly what makes this topic so enticing. We cannot make progress with human-to-machine authentication without understanding both humans and machines. Mobile security is not simply security ported to a handset. Handsets have different constraints than traditional computers, and are used in a different way. Text entry is more frustrating, and therefore, it is tempting to use shorter and less complex passwords. It is also harder to detect spoofing. We need to design with this in mind. We also need to determine how exactly to integrate biometric readers to reap the maximum benefits from them. This book addresses all of these issues, and more.

Mechanics of User Identification and Authentication Dobromir Todorov, 2007-06-18 User identification and authentication are essential parts of information security. Users must authenticate as they access their computer systems at work or at home every day. Yet do users understand how and why they are actually

being authenticated, the security level of the authentication mechanism that they are using, and the potential impacts o

Authentication and Authorization on the Web Nigel Chapman, 2012-10 A short book in the Web Security Topics series for Web developers, by the well-known authors Nigel and Jenny Chapman. Web applications manipulate resources in response to requests from users. It is often necessary to determine whether a requested operation should be allowed for the user who sent the request. This process of authorization - that is, deciding whether an application should be allowed to carry out the operation which a request from a particular user or program calls for - depends on, but is separate from, the process of authentication. Authentication means determining the identity of the user or program sending the request. This is usually done by maintaining user accounts, protected by passwords, and by requiring users to log in. Written for professional and student Web developers, this book provides a clear and practical description of authentication and authorization for Web sites. Secure methods of storing users' account details are described, with special emphasis on the secure storage of passwords. The authors explain different methods of authentication, and techniques for applying authorization to requests from authenticated users. A simple application, written in JavaScript and built on the Express framework, is developed throughout the book to demonstrate the principles. The source code is provided via the companion site websecuritytopics.info. Topics covered include hashing and salting passwords for secure storage, using CAPTCHAs to prevent the creation of bogus accounts, resetting passwords, session-based authentication and attacks against sessions, HTTP authentication, OpenId, authorization based on user accounts, role-based authorization, and OAuth.

Notes on relevant topics in cryptography are also included. Clear key points provide useful summaries at the end of each section, and technical terms are defined in a 16-page glossary.

Supporting Users in Password Authentication with Persuasive Design Tobias Seitz, 2018-08-03

Activities like text-editing, watching movies, or managing personal finances are all accomplished with web-based solutions nowadays. The providers need to ensure security and privacy of user data. To that end, passwords are still the most common authentication method on the web. They are inexpensive and easy to implement. Users are largely accustomed to this kind of authentication but passwords represent a considerable nuisance, because they are tedious to create, remember, and maintain. In many cases, usability issues turn into security problems, because users try to work around the challenges and create easily predictable credentials. Often, they reuse their passwords for many purposes, which aggravates the risk of identity theft. There have been numerous attempts to remove the root of the problem and replace passwords, e.g., through biometrics. However, no other authentication strategy can fully replace them, so passwords will probably stay a go-to authentication method for the foreseeable future. Researchers and practitioners have thus aimed to improve users' situation in various ways. There are two main lines of research on helping users create both usable and secure passwords. On the one hand, password policies have a notable impact on password practices, because they enforce certain characteristics. However, enforcement reduces users' autonomy and often causes frustration if the requirements are poorly communicated or overly complex. On the other hand, user-centered designs have been proposed: Assistance and persuasion are typically more user-friendly but their influence is often limited. In this thesis, we explore potential

reasons for the inefficacy of certain persuasion strategies. From the gained knowledge, we derive novel persuasive design elements to support users in password authentication. The exploration of contextual factors in password practices is based on four projects that reveal both psychological aspects and real-world constraints. Here, we investigate how mental models of password strength and password managers can provide important pointers towards the design of persuasive interventions. Moreover, the associations between personality traits and password practices are evaluated in three user studies. A meticulous audit of real-world password policies shows the constraints for selection and reuse practices. Based on the review of context factors, we then extend the design space of persuasive password support with three projects. We first depict the explicit and implicit user needs in password support. Second, we craft and evaluate a choice architecture that illustrates how a phenomenon from marketing psychology can provide new insights into the design of nudging strategies. Third, we tried to empower users to create memorable passwords with emojis. The results show the challenges and potentials of emoji-passwords on different platforms. Finally, the thesis presents a framework for the persuasive design of password support. It aims to structure the required activities during the entire process. This enables researchers and practitioners to craft novel systems that go beyond traditional paradigms, which is illustrated by a design exercise.

Authentication Services, 1987

Transparent User Authentication Nathan Clarke, 2011-08-17 This groundbreaking text examines the problem of user authentication from a completely new viewpoint. Rather than describing the requirements, technologies and implementation issues of designing point-of-entry authentication, the book

introduces and investigates the technological requirements of implementing transparent user authentication – where authentication credentials are captured during a user’s normal interaction with a system. This approach would transform user authentication from a binary point-of-entry decision to a continuous identity confidence measure. Topics and features: discusses the need for user authentication; reviews existing authentication approaches; introduces novel behavioural biometrics techniques; examines the wider system-specific issues with designing large-scale multimodal authentication systems; concludes with a look to the future of user authentication.

Protocols for Authentication and Key Establishment Colin Boyd, Anish Mathuria, Douglas Stebila, 2019-11-06 This book is the most comprehensive and integrated treatment of the protocols required for authentication and key establishment. In a clear, uniform presentation the authors classify most protocols in terms of their properties and resource requirements, and describe all the main attack types, so the reader can quickly evaluate protocols for particular applications. In this edition the authors introduced new chapters and updated the text throughout in response to new developments and updated standards. The first chapter, an introduction to authentication and key establishment, provides the necessary background on cryptography, attack scenarios, and protocol goals. A new chapter, computational security models, describes computational models for key exchange and authentication and will help readers understand what a computational proof provides and how to compare the different computational models in use. In the subsequent chapters the authors explain protocols that use shared key cryptography, authentication and key transport using public key cryptography, key agreement protocols, the Transport Layer Security protocol,

identity-based key agreement, password-based protocols, and group key establishment. The book is a suitable graduate-level introduction, and a reference and overview for researchers and practitioners with 225 concrete protocols described. In the appendices the authors list and summarize the relevant standards, linking them to the main book text when appropriate, and they offer a short tutorial on how to build a key establishment protocol. The book also includes a list of protocols, a list of attacks, a summary of the notation used in the book, general and protocol indexes, and an extensive bibliography.

Hacking Multifactor Authentication Roger A. Grimes, 2020-09-28 Protect your organization from scandalously easy-to-hack MFA security “solutions” Multi-Factor Authentication (MFA) is spreading like wildfire across digital environments. However, hundreds of millions of dollars have been stolen from MFA-protected online accounts. How? Most people who use multifactor authentication (MFA) have been told that it is far less hackable than other types of authentication, or even that it is unhackable. You might be shocked to learn that all MFA solutions are actually easy to hack. That’s right: there is no perfectly safe MFA solution. In fact, most can be hacked at least five different ways. *Hacking Multifactor Authentication* will show you how MFA works behind the scenes and how poorly linked multi-step authentication steps allows MFA to be hacked and compromised. This book covers over two dozen ways that various MFA solutions can be hacked, including the methods (and defenses) common to all MFA solutions. You’ll learn about the various types of MFA solutions, their strengths and weaknesses, and how to pick the best, most defensible MFA solution for your (or your customers’) needs. Finally, this book reveals a simple method for quickly evaluating your existing MFA solutions. If using or developing a secure MFA solution is important

to you, you need this book. Learn how different types of multifactor authentication work behind the scenes See how easy it is to hack MFA security solutions—no matter how secure they seem Identify the strengths and weaknesses in your (or your customers') existing MFA security and how to mitigate Author Roger Grimes is an internationally known security expert whose work on hacking MFA has generated significant buzz in the security world. Read this book to learn what decisions and preparations your organization needs to take to prevent losses from MFA hacking.

Biometric User Authentication for IT Security Claus Vielhauer,2005-12-28 Biometric user authentication techniques evoke an enormous interest by science, industry and society. Scientists and developers constantly pursue technology for automated determination or confirmation of the identity of subjects based on measurements of physiological or behavioral traits of humans. Biometric User Authentication for IT Security: From Fundamentals to Handwriting conveys general principals of passive (physiological traits such as fingerprint, iris, face) and active (learned and trained behavior such as voice, handwriting and gait) biometric recognition techniques to the reader. Unlike other publications in this area that concentrate on passive schemes, this professional book reflects a more comprehensive analysis of one particular active biometric technique: handwriting. Aspects that are thoroughly discussed include sensor characteristic dependency, attack scenarios, and the generation of cryptographic keys from handwriting.

Integrating a Usable Security Protocol into User Authentication Services Design Process Christina Braz,Ahmed Seffah,Bilal Naqvi,2018-11-08 There is an intrinsic conflict between creating secure systems and usable systems. But usability and security can be made synergistic by providing requirements and

design tools with specific usable security principles earlier in the requirements and design phase. In certain situations, it is possible to increase usability and security by revisiting design decisions made in the past; in others, to align security and usability by changing the regulatory environment in which the computers operate. This book addresses creation of a usable security protocol for user authentication as a natural outcome of the requirements and design phase of the authentication method development life cycle.

Library Public Access Workstation Authentication Lori Driscoll, 2003

Two-Factor Authentication Vulnerabilities Stefan Čertić, 2018-04-05 Corporative giants of the internet, such as Facebook, Various Banks have being using the two-factor authentication technique to ensure security to its users. Although, this companies don't make this kind operations by themselves, they hire third part companies to do so, integrating the API products for onwards delivery. Because of this, technique have serious breaches that can be explored by a ill-intentioned company. The third part companies stays between the client and the website being in a privileged place to attack any unsuspecting victim.

Security without Obscurity J.J. Stapleton, 2014-05-02 The traditional view of information security includes the three cornerstones: confidentiality, integrity, and availability; however the author asserts authentication is the third keystone. As the field continues to grow in complexity, novices and professionals need a reliable reference that clearly outlines the essentials. *Security without Obscurity: A Guide to Confidentiality, Authentication, and Integrity* fills this need. Rather than focusing on compliance or policies and procedures, this book takes a top-down approach. It shares the author's knowledge, insights, and observations about information security based on his experience developing dozens of ISO Technical

Committee 68 and ANSI accredited X9 standards. Starting with the fundamentals, it provides an understanding of how to approach information security from the bedrock principles of confidentiality, integrity, and authentication. The text delves beyond the typical cryptographic abstracts of encryption and digital signatures as the fundamental security controls to explain how to implement them into applications, policies, and procedures to meet business and compliance requirements. Providing you with a foundation in cryptography, it keeps things simple regarding symmetric versus asymmetric cryptography, and only refers to algorithms in general, without going too deeply into complex mathematics. Presenting comprehensive and in-depth coverage of confidentiality, integrity, authentication, non-repudiation, privacy, and key management, this book supplies authoritative insight into the commonalities and differences of various users, providers, and regulators in the U.S. and abroad.

The Top Books of the Year Authentication The year 2023 has witnessed a remarkable surge in literary brilliance, with numerous compelling novels enthralling the hearts of readers worldwide. Lets delve into the realm of bestselling books, exploring the fascinating narratives that have enthralled audiences this year.

Authentication : Colleen Hoover's "It Ends with Us" This poignant tale of love, loss, and resilience has gripped readers with its raw and emotional exploration of domestic abuse. Hoover skillfully weaves a story of hope and healing, reminding us that even in the darkest of times, the human spirit can triumph.

Uncover the Best : Taylor Jenkins Reids "The Seven Husbands of Evelyn Hugo" This spellbinding

historical fiction novel unravels the life of Evelyn Hugo, a Hollywood icon who defies expectations and societal norms to pursue her dreams. Reids absorbing storytelling and compelling characters transport readers to a bygone era, immersing them in a world of glamour, ambition, and self-discovery. Discover the Magic : Delia Owens "Where the Crawdads Sing" This captivating coming-of-age story follows Kya Clark, a young woman who grows up alone in the marshes of North Carolina. Owens crafts a tale of resilience, survival, and the transformative power of nature, captivating readers with its evocative prose and mesmerizing setting. These popular novels represent just a fraction of the literary treasures that have emerged in 2023. Whether you seek tales of romance, adventure, or personal growth, the world of literature offers an abundance of captivating stories waiting to be discovered. The novel begins with Richard Pape, a bright but troubled young man, arriving at Hampden College. Richard is immediately drawn to the group of students who call themselves the Classics Club. The club is led by Henry Winter, a brilliant and charismatic young man. Henry is obsessed with Greek mythology and philosophy, and he quickly draws Richard into his world. The other members of the Classics Club are equally as fascinating. Bunny Corcoran is a wealthy and spoiled young man who is always looking for a good time. Charles Tavis is a quiet and reserved young man who is deeply in love with Henry. Camilla Macaulay is a beautiful and intelligent young woman who is drawn to the power and danger of the Classics Club. The students are all deeply in love with Morrow, and they are willing to do anything to please him. Morrow is a complex and mysterious figure, and he seems to be manipulating the students for his own purposes. As the students become more involved with Morrow, they begin to commit increasingly dangerous acts. The Secret

History is a brilliant and thrilling novel that will keep you wondering until the very end. The novel is a cautionary tale about the dangers of obsession and the power of evil.

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Authentication Introduction

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