

Security in Computing

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Book Review

Nowadays, mass media give more attention to the impact of computer security in our daily lives. Although the language of computer security terms such as viruses, Trojan horses, phishing, and spyware is normal, the solution application to the problem of computer security is something incredible. Furthermore a new attack is clever applications with old problems. In many cases, the pressure to get a new product in market is still outperformed the security requirements for researching vulnerabilities and countermeasures potential. Eventually society can ignore the serious dangers caused by unsafe computer.

This book should be read as the reader already knows that computing involves serious risks to privacy and the integrity of their data, or their computer operations. Readers need to be helped to build their knowledge and experience with respect to the risk of safe computing. Readers can control the computer security risks by studying the threats to computer security, understanding what causes these threats by studying how the weaknesses inherent in the development and use of computer systems, review of control can reduce or prevent these threats and developed a style of computing that balances safety and risk. Computer security field is changing rapidly, but the problem is basically largely unchanged. In this book readers will find a development that shows them how the current complex attack occurs through the example of the more basic concepts.

This book aims to study computer security. The focus is the college and university students, computing professionals, managers and users of all types of computer-based systems who want to know the same thing: how to control the risks of computer security. However they may differ in the required information on a specific topic, some may want a comprehensive study, while others want to focus on specific topics such as networking or program development. The book is divided into several segments of computing so that readers can find the necessary information easily. The chapters are arranged in an orderly manner, from security problems common to specific application requirements up to the overarching management and issues of law. The book covers five key areas, namely the identification of threats, vulnerabilities and controls, security control, security of software including applications, operating systems, database management systems and network, management namely build and governing the installation of computing

from one computer to thousands, and understand the economics of cyber security and lastly is the law, privacy, ethics namely non-technical approach where people control the computer security risks [1].

All these parts do not have the same space, more than half the book is devoted to the code because so much of the risk is caused by code that is executed on a computer program. The first chapter introduces the concepts and basic vocabulary of computer security. The second chapter provides an understanding of what is encryption and how it can be used or misused. Chapters 3 to 7 cover more software which individual programs, operating systems, complex applications such as database management systems, and finally the network. Chapter 8 discusses the management and administration of security and explains how to find an acceptable balance between threats and controls. Chapter 9 addresses important management issues by exploring the economics of cyber security. Chapter 10 discusses computer security personal side of how security involving personal privacy. Chapter 11 discusses about how people deal with computer security through legal and ethical systems. Chapter 12 is about cryptography to see the details of the encryption algorithm itself.

In terms of the background of readers, the only skill required is an understanding of programming and computer systems. Someone who specializes in computer science certainly has that background, as well as a professional designer or developer of computer systems. This book also addressed to people who want to understand more about the work program. The author first provides basic information on the concepts of operating system or network before discussing security related. This book can be used as a textbook in the last one or two semesters in computer security. This book is used as a reference to a professional computer or in addition to intensive training courses, with the overall index and bibliography explain important topics and key articles in this book. The book has been used in classrooms around the world with instructors often they form one semester course related topics of particular interest to students or related curriculum. Publisher website help teachers find teaching aids for this book such as the line of course, figures slide, additional sidebars and links to other sites of interest.

References

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Received February 08, 2016; Accepted February 22, 2016; Published February 29, 2016

Citation: Iqbal U (2016) Security in Computing. Arabian J Bus Manag Review 6: 207. doi:10.4172/2223-5833.1000207

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