

Introduction to Computer Security

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Abstract. The nineties set off the "information age". Companies, organisations, the whole society have become utterly dependent on computers for their proper functioning. Since information gathering, processing and distributing have become so important, it should be treasured as a strategic asset, and therefore, properly protected. In this paper, we first focus on the security policy. Then we examine the major threats that may compromise the security of information systems. Finally, we present an overview of security measures is presented.

1 Introduction

The nineties set off the "information age". Companies, organisations, the whole society have become utterly dependent on computers for their proper functioning. However, although the efficiency has improved rapidly, in many organisations, the condition of computer security has never been so poor. Actually, it is worsening, and this for several reasons.

- During the last decade, the information technology has evolved very fast. Security was not an issue in the beginning, and has never been able to keep pace.
- At first, computers were used in invoicing and wages administration. Later on, they were involved in stock management, EDI, . . . Nowadays, they are a necessary tool for strategic decisions.
- Networking is booming. The central mainframe has been replaced by a LAN of PCs or workstations. Because of the pressure of the market, these LANs are connected to the Internet or the public telephone network.
- The *democratization* of information technology moved the computers out of the computing centre into the work place.

One aspect of democratization, the **lowering of thresholds**, needs some elaboration. Although security incidents are often (wrongly) associated with break-ins by hackers or criminal organisations, most incidents are caused by **insiders** (employees of the organization, maintenance people, . . .). (See also tab. 1.) This is not surprising, since insiders have less hurdles to take and possess inside information. Moreover, a computerized office is an attractive target for fraud:

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Introduction To Computer Security:

Introduction to Computer Security Michael T. Goodrich,Roberto Tamassia,2011 For computer security courses that are taught at the undergraduate level and that have as their sole prerequisites an introductory computer science sequence e g CS 1 CS 2 A new Computer Security textbook for a new generation of IT professionals Unlike most other computer security textbooks available today Introduction to Computer Security 1e does NOT focus on the mathematical and computational foundations of security and it does not assume an extensive background in computer science Instead it looks at the systems technology management and policy side of security and offers students fundamental security concepts and a working knowledge of threats and countermeasures with just enough background in computer science The result is a presentation of the material that is accessible to students of all levels *Introduction to Computer Security* Matt Bishop,2005 Introduction to Computer Security draws upon Bishop s widely praised Computer Security Art and Science without the highly complex and mathematical coverage that most undergraduate students would find difficult or unnecessary The result the field s most concise accessible and useful introduction Matt Bishop thoroughly introduces fundamental techniques and principles for modeling and analyzing security Readers learn how to express security requirements translate requirements into policies implement mechanisms that enforce policy and ensure that policies are effective Along the way the author explains how failures may be exploited by attackers and how attacks may be discovered understood and countered Supplements available including slides and solutions *Introduction to Computer Security* Michael Goodrich,Roberto Tamassia,2013-08-29 For computer security courses that are taught at the undergraduate level and that have as their sole prerequisites an introductory computer science sequence e g CS 1 CS 2 A new Computer Security textbook for a new generation of IT professionals Unlike most other computer security textbooks available today Introduction to Computer Security 1e does NOT focus on the mathematical and computational foundations of security and it does not assume an extensive background in computer science Instead it looks at the systems technology management and policy side of security and offers students fundamental security concepts and a working knowledge of threats and countermeasures with just enough background in computer science The result is a presentation of the material that is accessible to students of all levels [An Introduction to Computer Security](#) Barbara Guttman,Edward A. Roback,1996-04 Covers elements of computer security roles and responsibilities common threats computer security policy computer security program and risk management security and planning in the computer system life cycle assurance personnel user issues preparing for contingencies and disasters computer security incident handling awareness training and education physical and environmental security identification and authentication logical access control audit trails cryptography and assessing and mitigating the risks to a hypothetical computer system **Introduction to Computer Security, Global Edition** Michael Goodrich,Roberto Tamassia,2015-02-26 For computer security courses that are taught at the undergraduate level and that have as their sole

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Cryptography Jennifer Seberry,Josef Pieprzyk,1989-01-01 Covers background theories encryption authentication network security databases minimum knowledge systems and security in operating systems *INTRODUCTION TO COMPUTER SECURITY* BARBARA. GUTTMAN,2018 An introduction to computer security Barbara Guttman,Edward A. Roback,1995

An Introduction to Computer Security Richard A. Kemmerer,1995 **An Introduction to Cyber Security** Simplilearn,2019-12-20 Cybersecurity is undoubtedly one of the fastest growing fields However there is an acute shortage of skilled workforce The cybersecurity beginners guide aims at teaching security enthusiasts all about organizational digital assets security give them an overview of how the field operates applications of cybersecurity across sectors and industries and skills and certifications one needs to build and scale up a career in this field **Introduction to Computer and Network Security** Richard R. Brooks,2013-08-19 Guides Students in Understanding the Interactions between Computing Networking Technologies and Security Issues Taking an interactive learn by doing approach to teaching Introduction to Computer and Network Security Navigating Shades of Gray gives you a clear course to teach the technical issues related to security Unlike most computer securi Introduction To Cyber Security Dr. Priyank Singhal,Dr. Nilesh Jain,Dr. Parth Gautam,Dr. Pradeep Laxkar,2025-05-03 In an age where our lives are deeply intertwined with technology the importance of cybersecurity cannot be overstated From securing personal data to safeguarding national infrastructure the digital landscape demands vigilant protection against evolving cyber threats This book Introduction to Cyber Security is designed to provide readers with a comprehensive understanding of the field *Introduction to Computer Security* BPI Information

Services, DIANE Publishing Company, 1995-01-01 Covers elements of computer security roles and responsibilities common threats computer security policy computer security program and risk management security and planning in the computer system life cycle assurance personnel user issues preparing for contingencies and disasters computer security incident handling awareness training and education physical and environmental security identification and authentication logical access control audit trails cryptography and assessing and mitigating the risks to a hypothetical computer system **Next Series** Ralph Argiento, 2013-04-10 This is the eBook of the printed book and may not include any media website access codes or print supplements that may come packaged with the bound book The NEXT Series provides innovative instructors with a high quality academic teaching solution that focuses on the next great technologies and innovations *Computer Security Fundamentals* Chuck Easttom, 2019-10-02 Clearly explains core concepts terminology challenges technologies and skills Covers today's latest attacks and countermeasures The perfect beginner's guide for anyone interested in a computer security career Dr Chuck Easttom brings together complete coverage of all basic concepts terminology and issues along with all the skills you need to get started Drawing on 30 years of experience as a security instructor consultant and researcher Easttom helps you take a proactive realistic approach to assessing threats and implementing countermeasures Writing clearly and simply he addresses crucial issues that many introductory security books ignore while addressing the realities of a world where billions of new devices are Internet connected This guide covers web attacks hacking spyware network defense security appliances VPNs password use and much more Its many tips and examples reflect new industry trends and the state of the art in both attacks and defense Exercises projects and review questions in every chapter help you deepen your understanding and apply all you've learned Whether you're a student a professional or a manager this guide will help you protect your assets and expand your career options LEARN HOW TO Identify and prioritize potential threats to your network Use basic networking knowledge to improve security Get inside the minds of hackers so you can deter their attacks Implement a proven layered approach to network security Resist modern social engineering attacks Defend against today's most common Denial of Service DoS attacks Halt viruses spyware worms Trojans and other malware Prevent problems arising from malfeasance or ignorance Choose the best encryption methods for your organization Compare security technologies including the latest security appliances Implement security policies that will work in your environment Scan your network for vulnerabilities Evaluate potential security consultants Master basic computer forensics and know what to do if you're attacked Learn how cyberterrorism and information warfare are evolving *Computer Security Fundamentals* William Chuck Easttom II, 2023-02-03 ONE VOLUME INTRODUCTION TO COMPUTER SECURITY Clearly explains core concepts terminology challenges technologies and skills Covers today's latest attacks and countermeasures The perfect beginner's guide for anyone interested in a computer security career Dr Chuck Easttom brings together complete coverage of all basic concepts terminology and issues along with all the skills you need to get started Drawing on 30 years of

experience as a security instructor consultant and researcher Easttom helps you take a proactive realistic approach to assessing threats and implementing countermeasures Writing clearly and simply he addresses crucial issues that many introductory security books ignore while addressing the realities of a world where billions of new devices are Internet connected This guide covers web attacks hacking spyware network defense security appliances VPNs password use and much more Its many tips and examples refl ect new industry trends and the state of the art in both attacks and defense Exercises projects and review questions in every chapter help you deepen your understanding and apply all you ve learned

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