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1.3 Security Functional Requirements 23 1.4 A Security Architecture for Open Systems 26 1.5 Computer Security Trends 31 1.6 Computer Security Strategy 33 1.7 Recommended Reading and Web Sites 35 1.8 Key Terms, Review Questions, and Problems 36 PART ONE: COMPUTER SECURITY TECHNOLOGY AND PRINCIPLES 38

## COMPUTER SECURITY PRINCIPLES AND PRACTICE

The Goal of Information Security. Information security follows three overarching principles, often known as the CIA triad (confidentiality, integrity and availability). Confidentiality: This means that information is only being seen or used by people who are authorized to access it. Appropriate security measures must be taken to ensure that private information stays private and is protected against unauthorized disclosure and prying eyes.

### The 7 Basic Principles of IT Security

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Processes and files of individual users should be isolated from one another except where it is explicitly desired. Security mechanisms should be isolated in the sense of preventing access to those mechanisms. (Fundamental Security Design Principles)

### Chapter 1: Overview, Computer Security Principles and Practice

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Figure 3.1 Security's fundamental principles are confidentiality, integrity, and availability. The CIA triad comprises all the principles on which every security program is based. Depending on the nature of the information assets, some of the principles might have varying degrees of importance in your environment.

Defining Security Principles | CISSP Security Management ...  
Using a Common Language for Computer Security Incident  
Information John D. Howard 9. Mathematical Models of Computer  
Security Matt Bishop v. vi CONTENTS 10. Understanding Studies  
and Surveys of Computer Crime ... Employment Practices and Policies  
M. E. Kabay and Bridgitt Robertson 46. Vulnerability Assessment  
Rebecca Gurley Bace 47. Operations ...

## COMPUTER SECURITY HANDBOOK

The principle of information security protection of confidentiality, integrity, and availability cannot be overemphasized: This is central to all studies and practices in IS. You ' ll often see the term CIA triad to illustrate the overall goals for IS throughout the research, guidance, and practices you encounter.

## Information Security: Principles and Practices

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- kept up to date with security patches
- patching can never win
- “ patch rat-race ”
- have tools to automatically download and install

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security updates — e.g. up2date, YaST, apt-get — should not run automatic updates on change-controlled systems without testing

## Computer Security: Principles and Practice

William Stallings' *Cryptography and Network Security: Principles and Practice*, 5e is a practical survey of cryptography and network security with unmatched support for instructors and students. In this age of universal electronic connectivity, viruses and hackers, electronic eavesdropping, and electronic fraud, security is paramount.

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Here are a few corporate network security best practices: Conduct penetration testing to understand the real risks and plan your security strategy accordingly. Provide encryption for both data at rest and in transit (end-to-end encryption). Ensure proper authentication to allow only trusted connections to endpoints.

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**COMPUTER SECURITY** (with Lawrie Brown) A comprehensive treatment of computer security technology, including algorithms, protocols, and applications. Covers cryptography, authentication, access control, database security, intrusion detection and prevention, malicious software, denial of service, firewalls, software security, physical security, human factors, auditing, legal and ethical aspects, and trusted systems.

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A good general security principle is “ defense in depth ” ; you should have numerous defense mechanisms ( “ layers ” ) in place, designed so that an attacker has to defeat multiple mechanisms to perform a successful attack. For general principles on how to design secure programs, see Section 7.1.

Security Principles

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