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Chapter 1: Overview, Computer Security Principles and Practice

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.

The Goal of Information Security. Information security follows three overarching principles, often known as the CIA triad (confidentiality, integrity and availabil-

ity). 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.

Lecture 51 Introduction to Computer Security Principles and Practice Windows and Linux Security

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COMPUTER SECURITY PRINCIPLES AND PRACTICE

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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

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.

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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 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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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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