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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.

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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.

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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

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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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