

Operating System Concepts

8th Edition

CHAPTERS 14 and 15

Chapter 14

(Sections 14.1, 14.2, 14.4, 14.6, 14.7)

14.1 Goals of Protection

As computer systems have become more sophisticated and pervasive in their applications, the need to protect their integrity has also grown. Protection was originally conceived as an adjunct to multiprogramming operating systems, so that untrustworthy users might safely share a common logical name space, such as a directory of files, or share a common physical name space, such as memory. Modern protection concepts have evolved to increase the reliability of any complex system that makes use of shared resources.

We need to provide protection for several reasons. The most obvious is the need to prevent the mischievous, intentional violation of an access restriction by a user. Of more general importance, however, is the need to ensure that each program component active in a system uses system resources only in ways consistent with stated policies. This requirement is an absolute one for a reliable system.

Protection can improve reliability by detecting latent errors at the interfaces between component subsystems. Early detection of interface errors can often prevent contamination of a healthy subsystem by a malfunctioning subsystem. Also, an unprotected resource cannot defend against use (or misuse) by an unauthorized or incompetent user. A protection-oriented system provides means to distinguish between authorized and unauthorized usage.

The role of protection in a computer system is to provide a mechanism for the enforcement of the policies governing resource use. These policies can be established in a variety of ways. Some are fixed in the design of the system, while others are formulated by the management of a system. Still others are defined by the individual users to protect their own files and programs. A protection system must have the flexibility to enforce a variety of policies.

Policies for resource use may vary by application, and they may change over time. For these reasons, protection is no longer the concern solely of the designer of an operating system. The application programmer needs to use protection mechanisms as well, to guard resources created and supported by an application subsystem against misuse. In this chapter, we describe the protection mechanisms the operating system should provide, but application designers can use them as well in designing their own protection software.

Operating System Concepts 8th Solution

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Cryptographic Security Solutions for the Internet of Things Banday, Mohammad Tariq, 2019-01-18 The Internet of Things is a technological revolution that represents the future of computing and communications. Even though efforts have been made to standardize Internet of Things devices and how they communicate with the web, a uniform architecture is not followed. This inconsistency directly impacts and limits security standards that need to be put in place to secure the data being exchanged across networks. Cryptographic Security Solutions for the Internet of Things is an essential reference source that discusses novel designs and recent developments in cryptographic security control procedures to improve the efficiency of existing security mechanisms that can help in securing sensors, devices, networks, communication, and data in the Internet of Things. With discussions on cryptographic algorithms, encryption techniques, and authentication procedures, this book is ideally designed for managers, IT consultants, startup companies, ICT procurement managers, systems and network integrators, infrastructure service providers, students, researchers, and academic professionals. *Semantic Interoperability Issues, Solutions, Challenges* Salvatore F. Pileggi, Carlos Fernandez-Llatas, 2022-09-01 Semantic technologies are experiencing an increasing popularity in the context of different domains and applications. The understanding of any class of system can be significantly changed under the assumption any system is part of a global ecosystem known as Semantic Web. The Semantic Web would be an evolving extension of current Web model normally referred to as Syntactic Web that introduces a semantic layer in which semantics or meaning of information are formally defined. So semantics should integrate web-centric standard information infrastructures, improving several aspects of interaction among heterogeneous systems. This is because common interoperability models are progressively becoming obsolete if compared with the intrinsic complexity and always more distributed focus that feature modern systems. For example, the basic interoperability model that assumes the interchange of messages among systems without any interpretation is simple but effective only in the context of close environments. Also, more advanced models such as the functional interoperability model that integrates basic interoperability model with the ability of interpreting data context under the assumption of a shared schema for data fields accessing appears not able to provide a full sustainable technologic support for open systems. The Semantic Interoperability model would improve common interoperability models introducing the interpretation of means of data. Semantic interoperability is a concretely applicable interaction model under the assumption of adopting rich data models commonly called Ontology, composed of concepts within a domain and the relationships among those concepts. In practice, semantic technologies are partially inverting the common view at actor intelligence; intelligence is not implemented only by actors but it is implicitly resident in the knowledge model. In other words, schemas contain information and the code to interpretate it. **Operating System Concepts** James Lyle Peterson, Abraham Silberschatz, 1983 **Computerworld**, 1995-05-08 For more than 40 years, Computerworld has been the leading source of technology news and information for IT influencers worldwide. Computerworld's award-winning Web site

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Operating System Concepts Abraham Silberschatz, Greg Gagne, Peter B. Galvin, 2011-07-05

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