Security Patterns in Practice: Designing Secure Architectures Using Software Patterns

By Eduardo Fernandez-Buglioni

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Learn to combine security theory and code to produce secure systems

Security is clearly a crucial issue to consider during the design and implementation of any distributed software architecture. Security patterns are increasingly being used by developers who take security into serious consideration from the creation of their work. Written by the authority on security patterns, this unique book examines the structure and purpose of security patterns, illustrating their use with the help of detailed implementation advice, numerous code samples, and descriptions in UML.

- Provides an extensive, up-to-date catalog of security patterns
- Shares real-world case studies so you can see when and how to use security patterns in practice
- Details how to incorporate security from the conceptual stage
- Highlights tips on authentication, authorization, role-based access control, firewalls, wireless networks, middleware, VoIP, web services security, and more
- Author is well known and highly respected in the field of security and an expert on security patterns

Security Patterns in Practice shows you how to confidently develop a secure system step by step.

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Editorial Review

From the Back Cover

Everything you need to build sophisticated security controls into every phase of your software lifecycle

In today's world of mobile networking and remote sensing, cloud computing and web interfacing, applications and the networks they run on have never been more complex. Nor have they ever been more vulnerable to attack.

Despite the vast amounts spent each year on system security, the number and scope of attacks on websites and databases worldwide continues to escalate.

Clearly, what's needed is a more systematic approach to security that the piecemeal methodology followed since the early 1990s—a holistic, case-based approach based on best practices and proven solutions to the full array of modern security threats.

Written by one of the world's leading experts on the subject, *Security Patterns in Practice* supplies you with just such approach.

With the help of numerous, real-world case studies, author Eduardo B. Fernandez show you how to incorporate security into every phase of the software lifecycle—from concept to design to implementation and reengineering—using security patterns.

Dr. E. B. Fernandez also supplies you with a vast catalog of up-to-date security patterns—along with detailed implementation advice and descriptions in UML—covering the full range of modern security issues, including:

- Identity management
- Access control
- Network security and web services security
- Cloud computing security
- Authentication
- Process management
- Web services cryptography
- Building secure architecture

Security Patterns in Practice arms you with everything you need to confidently develop or reengineer the most secure applications possible, without having to become a security expert.

Users Review

From reader reviews:

Donna Gray:

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