Internet & Intranet Security

By Rolf Oppliger, Rolf Oppliger

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This extensively revised, new edition of the 1998 Artech House classic, "Internet and Intranet Security", offers professionals an up-to-date and comprehensive understanding of the technologies that are available to secure TCP/IP-based networks, such as corporate intranets or the Internet, and their associated applications. It addresses firewall technologies to help practitioners provide access control service, and discusses the cryptographic protocols used to provide today's communication security services. From TCP/IP networking and cryptographic fundamentals, to firewall technologies, communication security protocols, and public key infrastructures, this handy reference offers practical guidance in utilizing cutting-edge technologies to secure various applications in the field of e-commerce and e-business. The book explores the rationale behind the security technologies that have been proposed and deployed on the Internet, and shows how to implement security mechanisms and corresponding protocol specifications.

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Editorial Review

From the Author
When I started to work on Internet and intranet security a couple of years ago, the situation was comparably simple. There were some authentication and key distribution systems available that made people believe the Internet would become secure if only these systems were used and widely deployed (e.g., Kerberos). It was at this time that I wrote Authentication Systems for Secure Networks, a companion book also published by Artech House. But after having written the book, I realized that alternative techniques and mechanisms had been developed to provide Internet and intranet security. For example, firewalls started their triumphal march that has continued until today. Also, cryptographic security protocols for the Internet, transport, and application layer had been developed, proposed, and partly implemented. Consequently, I realized that the use of authentication systems is just one possibility to address Internet security, and that there are other possibilities! as well. In this situation, I decided to write Internet and Intranet Security to give a more comprehensive overview about currently available security techniques and mechanisms for TCP/IP-based networks.

The book has been written to serve the needs of computer and network professionals that have interest in understanding, establishing, and supporting secure TCP/IP-based networks. I also hope that the book provides sufficient background to help security professionals propose approaches to secure commercial applications for the Internet. The book is tutorial in nature but still requires some familiarity with the fundamentals of computer networks and distributed systems, as well as cryptography and the use of cryptographic protocols in networked and distributed environments.

About the Author
Rolf Oppliger is the founder and owner of eSECURITY Technologies and also works for the Swiss Federal Strategy Unit for Information Technology (FSUIT). He is the author of and Secure Messaging with PGP and S/MIME (Artech House, 2001), Security Technologies for the World Wide Web (Artech House, 1999), Internet and Intranet Security (Artech House, 1998), and Authentication Systems for Secure Networks (Artech House, 1996),. Dr. Oppliger is the computer security series editor at Artech House. He received his M.Sc. and Ph.D. in computer science from the University of Berne, Switzerland, and the Venia legendi in computer science from the University of Zurich, Switzerland.

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