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Titolo	Automated Firewall Analytics : Design, Configuration and Optimization // by Ehab Al-Shaer
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ISBN	3-319-10371-7
Edizione	[1st ed. 2014.]
Descrizione fisica	1 online resource (145 p.)
Disciplina	004 004.6 005.7 005.8
Soggetti	Computer security Computer networks Data encryption (Computer science) Computers Systems and Data Security Computer Communication Networks Cryptology Information Systems and Communication Service
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	Description based upon print version of record.
Nota di bibliografia	Includes bibliographical references at the end of each chapters and index.
Nota di contenuto	Classification and Discovery of Firewalls Policy Anomalies -- Modeling and Verification of Firewall and IPSec Policies using Binary Decision Diagrams -- Specification and Refinement of a Conflict-Free Distributed Firewall Configuration Language -- Design and Configuration of Firewall Architecture Under Risk, Usability and Cost Constraints -- Dynamic Firewall Configuration Optimization. .
Sommario/riassunto	This book provides a comprehensive and in-depth study of automated firewall policy analysis for designing, configuring and managing distributed firewalls in large-scale enterprise networks. It presents methodologies, techniques and tools for researchers as well as professionals to understand the challenges and improve the state-of-

the-art of managing firewalls systematically in both research and application domains. Chapters explore set-theory, managing firewall configuration globally and consistently, access control list with encryption, and authentication such as IPSec policies. The author also reveals a high-level service-oriented firewall configuration language (called FLIP) and a methodology and framework for designing optimal distributed firewall architecture. The chapters illustrate the concepts, algorithms, implementations and case studies for each technique. *Automated Firewall Analytics: Design, Configuration and Optimization* is appropriate for researchers and professionals working with firewalls. Advanced-level students in computer science will find this material suitable as a secondary textbook or reference.

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