

1. Record Nr.	UNINA9910220142803321
Autore	Libicki Martin C.
Titolo	The defenders dilemma : charting a course toward cybersecurity // Martin C. Libicki, Lillian Ablon, Tim Webb
Pubbl/distr/stampa	Santa Monica, California : , : RAND Corporation, , [2015] ©2015
ISBN	0-8330-9103-4
Descrizione fisica	1 online resource (162 p.)
Disciplina	005.8
Soggetti	Cyberterrorism - Prevention Computer networks - Security measures Computer security
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.
Nota di contenuto	Cover; Title Page; Copyright; Preface; Contents; Figures; Tables; Summary; Acknowledgments; Abbreviations; Chapter One: Introduction; Organization of This Report; Chapter Two: Chief Information Security Officers Surveyed; Common Knowledge Confirmed; Reasonable Suppositions Validated; Surprises; Some Conclusions; Chapter Three: The Efficacy of Security Systems; Measures and Countermeasures to Mitigate the Likelihood of an Attack; Attackers and Defenders Often Employ the Same Tools and Techniques; Security Product Development Has Sped Up The Shift from Signature-Only to Behavior-Based Detection Having More-Sophisticated Tools Do Not Necessarily Equate to Smaller Error Rates; Measures and Countermeasures Developed to Mitigate the Impact of an Attack; Human Element Continues to Be a Great Weakness; A Cycle of Market Offerings; Ideal Solutions Can Depend on the Size of an Organization; Some Conclusions; Chapter Four: Improving Software; When Vulnerabilities Matter; Markets for Zero-Days; In the Short Run, Vulnerability Discovery Might Worsen Matters; Can Software Become Good Enough?; A Wave of (Connected) Gadgets Some Conclusions Chapter Five: A Heuristic Cyber security Model; Model Structure; Results; Sensitivity Analyses; Conclusions; Chapter Six: Lessons for Organizations and Public Policy; Lessons for Organizations;

Sommario/riassunto

Cyber security is a constant, and, by all accounts growing, challenge. This report, the second in a multi-phase study on the future of cyber security, reveals perspectives and perceptions from chief information security officers; examines the development of network defense measures-and the countermeasures that attackers create to subvert those measures; and explores the role of software vulnerabilities and inherent weaknesses.