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Autore	Dang Bruce
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Altri autori (Persone)	GazetAlexandre BachaalanyElias JosseSébastien
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Formato	Materiale a stampa
Livello bibliografico	Monografia
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Nota di bibliografia	Includes bibliographical references and index.
Nota di contenuto	Cover; Title Page; Copyright; Contents; Chapter 1 x86 and x64; Register Set and Data Types; Instruction Set; Syntax; Data Movement; Exercise; Arithmetic Operations; Stack Operations and Function Invocation; Exercises; Control Flow; System Mechanism; Address Translation; Interrupts and Exceptions; Walk-Through; Exercises; x64; Register Set and Data Types; Data Movement; Canonical Address; Function Invocation; Exercises; Chapter 2 ARM; Basic Features; Data Types and Registers; System-Level Controls and Settings; Introduction to the Instruction Set; Loading and Storing Data; LDR and STR Other Usage for LDR LDM and STM; PUSH and POP; Functions and Function Invocation; Arithmetic Operations; Branching and Conditional Execution; Thumb State; Switch-Case; Miscellaneous; Just-in-Time and Self-Modifying Code; Synchronization Primitives; System Services and Mechanisms; Instructions; Walk-Through; Next Steps; Exercises; Chapter 3 The Windows Kernel; Windows Fundamentals; Memory Layout; Processor Initialization; System Calls; Interrupt Request Level; Pool Memory; Memory Descriptor Lists; Processes and Threads;

Execution Context; Kernel Synchronization Primitives; Lists Implementation Details Walk-Through; Exercises; Asynchronous and Ad-Hoc Execution; System Threads; Work Items; Asynchronous Procedure Calls; Deferred Procedure Calls; Timers; Process and Thread Callbacks; Completion Routines; I/O Request Packets; Structure of a Driver; Entry Points; Driver and Device Objects; IRP Handling; A Common Mechanism for User-Kernel Communication; Miscellaneous System Mechanisms; Walk-Throughs; An x86 Rootkit; An x64 Rootkit; Next Steps; Exercises; Building Confidence and Solidifying Your Knowledge; Investigating and Extending Your Knowledge Analysis of Real-Life Drivers Chapter 4 Debugging and Automation; The Debugging Tools and Basic Commands; Setting the Symbol Path; Debugger Windows; Evaluating Expressions; Process Control and Debut Events; Registers, Memory, and Symbols; Breakpoints; Inspecting Processes and Modules; Miscellaneous Commands; Scripting with the Debugging Tools; Pseudo-Registers; Aliases; Language; Script Files; Using Scripts Like Functions; Example Debug Scripts; Using the SDK; Concepts; Writing Debugging Tools Extensions; Useful Extensions, Tools, and Resources; Chapter 5 Obfuscation A Survey of Obfuscation Techniques The Nature of Obfuscation: A Motivating Example; Data-Based Obfuscations; Control-Based Obfuscation; Simultaneous Control-Flow and Data-Flow Obfuscation; Achieving Security by Obscurity; A Survey of Deobfuscation Techniques; The Nature of Deobfuscation: Transformation Inversion; Deobfuscation Tools; Practical Deobfuscation; Case Study; First Impressions; Analyzing Handlers Semantics; Symbolic Execution; Solving the Challenge; Final Thoughts; Exercises; Appendix Sample Names and Corresponding SHA1 Hashes; Index

Sommario/riassunto

Analyzing how hacks are done, so as to stop them in the future Reverse engineering is the process of analyzing hardware or software and understanding it, without having access to the source code or design documents. Hackers are able to reverse engineer systems and exploit what they find with scary results. Now the good guys can use the same tools to thwart these threats. Practical Reverse Engineering goes under the hood of reverse engineering for security analysts, security engineers, and system programmers, so they can learn how to use these same processes to stop hacks

2. Record Nr.	UNISALENT0991002810809707536
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