1. Record Nr. UNINA9910824210803321

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Titolo	The Antivirus hacker's handbook / / Joxean Koret, Elias Bachaalany
Pubbl/distr/stampa	Indianapolis, IN : , : John Wiley and Sons, , [2015] ©2015
ISBN	1-119-18352-9 1-119-02878-7 1-119-02876-0
Edizione	[First edition.]
Descrizione fisica	1 online resource (384 p.)
Disciplina	005.84
Soggetti	Hackers Computer viruses
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	Includes index.
Nota di contenuto	Cover; Title Page; Copyright; Contents; Introduction; Part I Antivirus Basics; Chapter 1 Introduction to Antivirus Software; What Is Antivirus Software?; Antivirus Software: Past and Present; Antivirus Scanners, Kernels, and Products; Typical Misconceptions about Antivirus Software; Antivirus Features; Basic Features; Making Use of Native Languages; Scanners; Signatures; Compressors and Archives; Unpackers; Emulators; Miscellaneous File Formats; Advanced Features; Packet Filters and Firewalls; Self-Protection; Anti-Exploiting; Summary; Chapter 2 Reverse-Engineering the Core Reverse-Engineering ToolsCommand-Line Tools versus GUI Tools; Debugging Symbols; Tricks for Retrieving Debugging Symbols; Debugging Tricks; Backdoors and Configuration Settings; Kernel Debugging; Debugging User-Mode Processes with a Kernel-Mode Debugger; Analyzing AV Software with Command-Line Tools; Porting the Core; A Practical Example: Writing Basic Python Bindings for Avast for Linux; A Brief Look at Avast for Linux; Writing Simple Python Bindings for Avast for Linux; The Final Version of the Python Bindings; A Practical Example: Writing Native C/C++ Tools for Comodo Antivirus for Linux Other Components Loaded by the KernelSummary; Chapter 3 The Plug-

ins System; Understanding How Plug-ins Are Loaded; A Full-Featured Linker in Antivirus Software; Understanding Dynamic Loading; Advantages and Disadvantages of the Approaches for Packaging Plug-ins; Types of Plug-ins; Scanners and Generic Routines; File Format and Protocol Support; Heuristics; Bayesian Networks; Bloom Filters; Weights-Based Heuristics; Some Advanced Plug-ins; Memory Scanners; Non-native Code; Scripting Languages; Emulators; Summary; Chapter 4 Understanding Antivirus Signatures; Typical Signatures; Byte-Streams ChecksumsCustom Checksums; Cryptographic Hashes; Advanced Signatures; Fuzzy Hashing; Graph-Based Hashes for Executable Files; Summary; Chapter 5 The Update System; Understanding the Update Protocols; Support for SSL/TLS; Verifying the Update Files; Dissecting an Update Protocol; When Protection Is Done Wrong; Summary; Part II Antivirus Software Evasion; Chapter 6 Antivirus Software Evasion; Who Uses Antivirus Evasion Techniques?; Discovering Where and How Malware Is Detected; Old Tricks for Determining Where Malware Is Detected: Divide and Conquer
Evading a Simple Signature-Based Detection with the Divide and Conquer TrickBinary Instrumentation and Taint Analysis; Summary; Chapter 7 Evading Signatures; File Formats: Corner Cases and Undocumented Cases; Evading a Real Signature; Evasion Tips and Tricks for Specific File Formats; PE Files; JavaScript; String Encoding; Executing Code on the Fly; Hiding the Logic: Opaque Predicates and Junk Code; PDF; Summary; Chapter 8 Evading Scanners; Generic Evasion Tips and Tricks; Fingerprinting Emulators; Advanced Evasion Tricks; Taking Advantage of File Format Weaknesses
Using Anti-emulation Techniques

Sommario/riassunto

Hack your antivirus software to stamp out future vulnerabilities The Antivirus Hacker's Handbook guides you through the process of reverse engineering antivirus software. You explore how to detect and exploit vulnerabilities that can be leveraged to improve future software design, protect your network, and anticipate attacks that may sneak through your antivirus' line of defense. You'll begin building your knowledge by diving into the reverse engineering process, which details how to start from a finished antivirus software program and work your way back through its development using the func

2. Record Nr. UNINA9910300201903321

Titolo	Cancer Immunology : A Translational Medicine Context / / edited by Nima Rezaei
Pubbl/distr/stampa	Berlin, Heidelberg : , : Springer Berlin Heidelberg : , : Imprint : Springer, , 2015
ISBN	3-662-44006-7
Edizione	[1st ed. 2015.]
Descrizione fisica	1 online resource (633 p.)
Disciplina	610 616 616.15 616079
Soggetti	Internal medicine Immunology Oncology Hematology Internal Medicine
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 and index.
Nota di contenuto	Introduction on cancer immunology and immunotherapy -- Inflammatory and innate immune cells in cancer microenvironment and progression -- Role of innate immunity in cancers and antitumor response -- Role of B cells in anti tumor response -- The role of exhaustion in tumor-induced T cell dysfunction in patients with cancer -- Regulatory T cells and Th17 cells in the immunosuppressive tumor network -- Role of cytokines in tumor immunity and immune tolerance to cancers -- Role of chemokines and chemokine receptors in cancers -- The role of Fas and Fas-ligand in cancers -- MHC class I molecules and cancer progression: Lessons learned from preclinical tumor models -- Role of plasmacytoid dendritic cells in cancer -- Cancer immunoediting: immunosurveillance, immuneequilibrium, and immune escape -- Apoptosis, autophagy and necroptosis in Cancer -- Prognostic value of innate and adaptive immunity in cancers -- Epigenetics and Micro RNAs in cancers -- Immunogenetics of cancers

-- Immunodeficiencies and cancers -- Immunosenescence and cancers -- Nutrition, immunity and cancers -- Allergies and cancers -- Cancer immunology of transmissible cancers -- Systems biology and systems immunology of cancer -- Principles of immunological diagnostic tests for cancers -- Flow cytometry in cancer immunotherapy: applications, analysis, quality control and future -- Immunohistochemistry of cancers -- Immunology and immunotherapy of graft versus host disease. .

Sommario/riassunto

Cancer Immunology is intended as an up-to-date, clinically relevant review of cancer immunology and immunotherapy. The rapid flow of studies in the field of cancer immunology during the last decade has increased our understanding of the interactions between the immune system and cancerous cells. In particular, it is now well known that such interactions result in the induction of epigenetic changes in cancerous cells and the selection of less immunogenic clones as well as alterations in immune responses. Understanding the cross-talk between nascent transformed cells and cells of the immune system has led to the development of combinatorial immunotherapeutic strategies to combat cancer. This volume is focused on interactions between cancerous cells and various components of the innate and adaptive immune system are fully described. Notably, the principal focus is very much on clinical aspects, the aim being to educate clinicians on the clinical implications of the most recent findings and novel developments in the field. This is to be hoped that this translational book will be comprehensible, cogent and of special value for researchers and clinicians who wish to extend their knowledge on cancer immunology. .