

# Windows Internals

## *Part 1*

System architecture, processes,  
threads, memory management,  
and more



Pavel Yosifovich  
Alex Ionescu  
Mark E. Russinovich  
David A. Solomon

# Windows Internals 6th Edition

**Antonio Esposito**



## Windows Internals 6th Edition:

**Windows Internals, Sixth Edition** David A. Solomon Mark E. Russinovich, 2012 *Windows Internals, Part 2* Andrea Allievi, Alex Ionescu, Mark E. Russinovich, David A. Solomon, 2021-08-31 Drill down into Windows architecture and internals discover how core Windows components work behind the scenes and master information you can continually apply to improve architecture development system administration and support Led by three renowned Windows internals experts this classic guide is now fully updated for Windows 10 and 8 x As always it combines unparalleled insider perspectives on how Windows behaves under the hood with hands on experiments that let you experience these hidden behaviors firsthand Part 2 examines these and other key Windows 10 OS components and capabilities Startup and shutdown The Windows Registry Windows management mechanisms WMI System mechanisms ALPC ETW Cache Manager Windows file systems The hypervisor and virtualization UWP Activation Revised throughout this edition also contains three entirely new chapters Virtualization technologies Management diagnostics and tracing Caching and file system support *Troubleshooting with the Windows Sysinternals Tools* Mark E. Russinovich, Aaron Margosis, 2016-10-10 Optimize Windows system reliability and performance with Sysinternals IT pros and power users consider the free Windows Sysinternals tools indispensable for diagnosing troubleshooting and deeply understanding the Windows platform In this extensively updated guide Sysinternals creator Mark Russinovich and Windows expert Aaron Margosis help you use these powerful tools to optimize any Windows system s reliability efficiency performance and security The authors first explain Sysinternals capabilities and help you get started fast Next they offer in depth coverage of each major tool from Process Explorer and Process Monitor to Sysinternals security and file utilities Then building on this knowledge they show the tools being used to solve real world cases involving error messages hangs sluggishness malware infections and much more Windows Sysinternals creator Mark Russinovich and Aaron Margosis show you how to Use Process Explorer to display detailed process and system information Use Process Monitor to capture low level system events and quickly filter the output to narrow down root causes List categorize and manage software that starts when you start or sign in to your computer or when you run Microsoft Office or Internet Explorer Verify digital signatures of files of running programs and of the modules loaded in those programs Use Autoruns Process Explorer Sigcheck and Process Monitor features that can identify and clean malware infestations Inspect permissions on files keys services shares and other objects Use Sysmon to monitor security relevant events across your network Generate memory dumps when a process meets specified criteria Execute processes remotely and close files that were opened remotely Manage Active Directory objects and trace LDAP API calls Capture detailed data about processors memory and clocks Troubleshoot unbootable devices file in use errors unexplained communication and many other problems Understand Windows core concepts that aren t well documented elsewhere [High-performance Windows Store Apps](#) Brian Rasmussen, 2014 Understand what every developer should know about performance when building Windows Store apps Not

designed as a comprehensive reference this book instead zeroes in on the essentials of planning for great performance and provides a solid starting point for building fast apps This concise performance focused guide Provides an introduction to the Windows platform from a performance point of view Describes how to set performance goals establish tests to track performance and covers tools to instrument code and analyze performance Explains why common techniques such as micro benchmarks and ad hoc testing often fall short in verifying performance Focuses on managed C# XAML apps Although tools and techniques also apply to Visual Basic XAML apps all code examples use C# HTML5 JavaScript and C# XAML are not covered

Windows Internals David A. Solomon, Mark E. Russinovich, Alex Ionescu, 2009-06-17 See how the core components of the Windows operating system work behind the scenes guided by a team of internationally renowned internals experts Fully updated for Windows Server R 2008 and Windows Vista R this classic guide delivers key architectural insights on system design debugging performance and support along with hands on experiments to experience Windows internal behavior firsthand Delve inside Windows architecture and internals Understand how the core system and management mechanisms work from the object manager to services to the registry Explore internal system data structures using tools like the kernel debugger Grasp the scheduler's priority and CPU placement algorithms Go inside the Windows security model to see how it authorizes access to data Understand how Windows manages physical and virtual memory Tour the Windows networking stack from top to bottom including APIs protocol drivers and network adapter drivers Troubleshoot file system access problems and system boot problems Learn how to analyze crashes

*The Practice of System and Network Administration* Thomas A. Limoncelli, Christina J. Hogan, Strata R. Chalup, 2016-10-25 With 28 new chapters the third edition of *The Practice of System and Network Administration* innovates yet again Revised with thousands of updates and clarifications based on reader feedback this new edition also incorporates DevOps strategies even for non DevOps environments Whether you use Linux Unix or Windows this new edition describes the essential practices previously handed down only from mentor to protégé This wonderfully lucid often funny cornucopia of information introduces beginners to advanced frameworks valuable for their entire career yet is structured to help even experts through difficult projects Other books tell you what commands to type This book teaches you the cross platform strategies that are timeless DevOps techniques Apply DevOps principles to enterprise IT infrastructure even in environments without developers Game changing strategies New ways to deliver results faster with less stress Fleet management A comprehensive guide to managing your fleet of desktops laptops servers and mobile devices Service management How to design launch upgrade and migrate services Measurable improvement Assess your operational effectiveness a forty page pain free assessment system you can start using today to raise the quality of all services Design guides Best practices for networks data centers email storage monitoring backups and more Management skills Organization design communication negotiation ethics hiring and firing and more Have you ever had any of these problems Have you been surprised to discover your backup tapes are blank Ever spent

a year launching a new service only to be told the users hate it Do you have more incoming support requests than you can handle Do you spend more time fixing problems than building the next awesome thing Have you suffered from a botched migration of thousands of users to a new service Does your company rely on a computer that if it died can't be rebuilt Is your network a fragile mess that breaks any time you try to improve it Is there a periodic hell month that happens twice a year Twelve times a year Do you find out about problems when your users call you to complain Does your corporate Change Review Board terrify you Does each division of your company have their own broken way of doing things Do you fear that automation will replace you or break more than it fixes Are you underpaid and overworked No vague management speak or empty platitudes This comprehensive guide provides real solutions that prevent these problems and more *Windows Performance Analysis Field Guide* Clint Huffman, 2014-08-14 Microsoft Windows 8.1 and Windows Server 2012 R2 are designed to be the best performing operating systems to date but even the best systems can be overwhelmed with load and or plagued with poorly performing code Windows Performance Analysis Field Guide gives you a practical field guide approach to performance monitoring and analysis from experts who do this work every day Think of this book as your own guide to What would Microsoft support do when you have a Windows performance issue Author Clint Huffman a Microsoft veteran of over fifteen years shows you how to identify and alleviate problems with the computer resources of disk memory processor and network You will learn to use performance counters as the initial indicators then use various tools to dig in to the problem as well as how to capture and analyze boot performance problems This field guide gives you the tools and answers you need to improve Microsoft Windows performance Save money on optimizing Windows performance with deep technical troubleshooting that tells you What would Microsoft do to solve this Includes performance counter templates so you can collect the right data the first time Learn how to solve performance problems using free tools from Microsoft such as the Windows Sysinternals tools and more In a rush Chapter 1 Start Here gets you on the quick path to solving the problem Also covers earlier versions such as Windows 7 and Windows Server 2008 R2 **Windows Sysinternals Administrator's Reference** Aaron Margosis, Mark E. Russinovich, 2011-06-15 Get in depth guidance and inside insights for using the Windows Sysinternals tools available from Microsoft TechNet Guided by Sysinternals creator Mark Russinovich and Windows expert Aaron Margosis you'll drill into the features and functions of dozens of free file disk process security and Windows management tools And you'll learn how to apply the book's best practices to help resolve your own technical issues the way the experts do Diagnose Troubleshoot Optimize Analyze CPU spikes memory leaks and other system problems Get a comprehensive view of file disk registry process thread and network activity Diagnose and troubleshoot issues with Active Directory Easily scan disable and remove autostart applications and components Monitor application debug output Generate trigger based memory dumps for application troubleshooting Audit and analyze file digital signatures permissions and other security information Execute Sysinternals management tools on one or more remote computers Master Process Explorer

Process Monitor and Autoruns      **Writing High-Performance .NET Code, 2nd Edition** Ben Watson, 2018-04-16 Take performance to the next level This book does not just teach you how the CLR works it teaches you exactly what you need to do now to obtain the best performance today It will expertly guide you through the nuts and bolts of extreme performance optimization in NET complete with in depth examinations of CLR functionality free tool recommendations and tutorials useful anecdotes and step by step guides to measure and improve performance This second edition incorporates the advances and improvements in NET over the last few years as well as greatly expanded coverage of tools more topics more tutorials more tips and improvements throughout the entire book New in the 2nd Edition 50% increase in content New examples code samples and diagrams throughout entire book More ways to analyze the heap and find memory problems More tool coverage including expanded usage of Visual Studio More benchmarking New GC configuration options Code warmup techniques New NET features such as ref returns value tuples SIMD and more More detailed analysis of LINQ Tips for high level feature areas such as ASP NET ADO NET and WPF Also find expanded coverage and discover new tips and tricks for Profiling with multiple tools to quickly find problem areas Detailed description of the garbage collector how to optimize your code for it and how to diagnose difficult memory related issues How to analyze JIT and diagnose warmup problems Effective use of the Task Parallel Library to maximize throughput Which NET features and APIs to use and which to avoid Instrument your program with performance counters and ETW events Use the latest and greatest NET features Build a performance minded team and so much more      Learning .NET High-performance Programming Antonio Esposito, 2015-06-30 This book will help you understand what programming for performance means and use effective coding patterns and techniques to optimize your NET applications You will begin by understanding what high performance coding means and the different performance concerns You will see how CLR works and get an understanding of concepts such as memory management garbage collection and thread life cycles You will proceed to learn about the theoretical and practical concepts of PLINQ programming You will also see what Big Data is and how to architect a Big Data solution to manipulate large datasets Finally you will learn how to launch and analyze a profile session and execute tests against a code block or application for performance analysis By the end of this book you will have a complete understanding of efficient programming using high performance techniques and will be able to write highly optimized applications      **The Art of Memory Forensics** Michael Hale Ligh, Andrew Case, Jamie Levy, Aaron Walters, 2014-07-22 Memory forensics provides cutting edge technology to help investigate digital attacks Memory forensics is the art of analyzing computer memory RAM to solve digital crimes As a follow up to the best seller Malware Analyst's Cookbook experts in the fields of malware security and digital forensics bring you a step by step guide to memory forensics now the most sought after skill in the digital forensics and incident response fields Beginning with introductory concepts and moving toward the advanced The Art of Memory Forensics Detecting Malware and Threats in Windows Linux and Mac Memory is based on a five day training course that the authors have presented to hundreds of

students It is the only book on the market that focuses exclusively on memory forensics and how to deploy such techniques properly Discover memory forensics techniques How volatile memory analysis improves digital investigations Proper investigative steps for detecting stealth malware and advanced threats How to use free open source tools for conducting thorough memory forensics Ways to acquire memory from suspect systems in a forensically sound manner The next era of malware and security breaches are more sophisticated and targeted and the volatile memory of a computer is often overlooked or destroyed as part of the incident response process The Art of Memory Forensics explains the latest technological innovations in digital forensics to help bridge this gap It covers the most popular and recently released versions of Windows Linux and Mac including both the 32 and 64 bit editions

**Detecting Peripheral-based Attacks on the Host Memory** Patrick Stewin,2014-12-27 This work addresses stealthy peripheral based attacks on host computers and presents a new approach to detecting them Peripherals can be regarded as separate systems that have a dedicated processor and dedicated runtime memory to handle their tasks The book addresses the problem that peripherals generally communicate with the host via the host's main memory storing cryptographic keys passwords opened files and other sensitive data in the process an aspect attackers are quick to exploit Here stealthy malicious software based on isolated micro controllers is implemented to conduct an attack analysis the results of which provide the basis for developing a novel runtime detector The detector reveals stealthy peripheral based attacks on the host's main memory by exploiting certain hardware properties while a permanent and resource efficient measurement strategy ensures that the detector is also capable of detecting transient attacks which can otherwise succeed when the applied strategy only measures intermittently Attackers exploit this strategy by attacking the system in between two measurements and erasing all traces of the attack before the system is measured again

**Microsoft Windows Internals** David A. Solomon,2005 The Continuing Arms Race Per Larsen,Ahmad-Reza Sadeghi,2018-02-23 As human activities moved to the digital domain so did all the well known malicious behaviors including fraud theft and other trickery There is no silver bullet and each security threat calls for a specific answer One specific threat is that applications accept malformed inputs and in many cases it is possible to craft inputs that let an intruder take full control over the target computer system The nature of systems programming languages lies at the heart of the problem Rather than rewriting decades of well tested functionality this book examines ways to live with the programming sins of the past while shoring up security in the most efficient manner possible We explore a range of different options each making significant progress towards securing legacy programs from malicious inputs The solutions explored include enforcement type defenses which excludes certain program executions because they never arise during normal operation Another strand explores the idea of presenting adversaries with a moving target that unpredictably changes its attack surface thanks to randomization We also cover tandem execution ideas where the compromise of one executing clone causes it to diverge from another thus revealing adversarial activities The main purpose of this book is to provide readers with some

of the most influential works on run time exploits and defenses We hope that the material in this book will inspire readers and generate new ideas and paradigms      Computer Security - ESORICS 2016 Ioannis Askoxylakis,Sotiris Ioannidis,Sokratis Katsikas,Catherine Meadows,2016-09-14 The two volume set LNCS 9878 and 9879 constitutes the refereed proceedings of the 21st European Symposium on Research in Computer Security ESORICS 2016 held in Heraklion Greece in September 2016 The 60 revised full papers presented were carefully reviewed and selected from 285 submissions The papers cover a wide range of topics in security and privacy including data protection systems security network security access control authentication and security in such emerging areas as cloud computing cyber physical systems and the Internet of Things      *Emerging Trends in ICT Security* Sampsa Rauti,Ville Leppänen,2013-11-06 Man in the browser is a Trojan that infects a Web browser A Trojan has the ability to modify Web pages and online transaction content or insert itself in a covert manner without the user noticing anything suspicious This chapter presents a study of several man in the browser attacks that tamper with the user s transactions and examines different attack vectors on several software layers We conclude that there are many possible points of attack on different software layers and components of a Web browser as the user s transaction data flows through these layers We also propose some countermeasures to mitigate these attacks Our conceptual solution is based on cryptographic identification and integrity monitoring of software components      **Research in Attacks, Intrusions, and Defenses** Salvatore J. Stolfo,Angelos Stavrou,Charles V. Wright,2013-10-23 This book constitutes the proceedings of the 16th International Symposium on Research in Attacks Intrusions and Defenses former Recent Advances in Intrusion Detection RAID 2013 held in Rodney Bay St Lucia in October 2013 The volume contains 22 full papers that were carefully reviewed and selected from 95 submissions as well as 10 poster papers selected from the 23 submissions The papers address all current topics in computer security ranged from hardware level security server web mobile and cloud based security malware analysis and web and network privacy      Emerging Trends in ICT Security Babak Akhgar,Hamid R Arabnia,2013-11-06 Emerging Trends in ICT Security an edited volume discusses the foundations and theoretical aspects of ICT security covers trends analytics assessments and frameworks necessary for performance analysis and evaluation and gives you the state of the art knowledge needed for successful deployment of security solutions in many environments Application scenarios provide you with an insider s look at security solutions deployed in real life scenarios including but limited to smart devices biometrics social media big data security and crowd sourcing Provides a multidisciplinary approach to security with coverage of communication systems information mining policy making and management infrastructures Discusses deployment of numerous security solutions including cyber defense techniques and defense against malicious code and mobile attacks Addresses application of security solutions in real life scenarios in several environments such as social media big data and crowd sourcing      **Windows® Internals, Sixth Edition, Part 1** David Ionescu,2012 Delve inside Windows architecture and internals and see how core components work behind the scenes Led by

three renowned internals experts this classic guide is fully updated for Windows 7 and Windows Server 2008 R2 and now presents its coverage in two volumes As always you get critical insider perspectives on how Windows operates And through hands on experiments you ll experience its internal behavior firsthand knowledge you can apply to improve application design debugging system performance and support In Part 1 you will Understand how core system and management mechanisms work including the object manager synchronization Wow64 Hyper V and the registry Examine the data structures and activities behind processes threads and jobs Go inside the Windows security model to see how it manages access auditing and authorization Explore the Windows networking stack from top to bottom including APIs BranchCache protocol and NDIS drivers and layered services Dig into internals hands on using the kernel debugger performance monitor and other tools

SISTEM OPERASI Maryam Hasan ,Serwin Andi Bode ,Moh. Efendi Lasulika ,Warid Yunus,2025-03-01  
Penulisan buku ini berangkat dari keresahan atas keterbatasan sumber literasi yang mampu mengulas sistem operasi secara menyeluruh dalam konteks kebutuhan pendidikan tinggi di Indonesia Kami berharap buku ini dapat menjadi pelengkap bahkan rujukan utama dalam kurikulum yang relevan Salah satu kekuatan dari buku ini adalah upaya untuk menyatukan teori teori klasik dengan pendekatan sistem operasi modern yang digunakan di era cloud virtualisasi dan komputasi terdistribusi Dengan begitu pembaca tidak hanya diajak menengok sejarah tetapi juga memahami tren dan masa depan sistem operasi Buku ini terdiri dari beberapa bab yang membahas konsep dasar sistem komputer fungsi fungsi penting sistem operasi manajemen proses memori sistem berkas hingga penjadwalan dan keamanan Setiap bab disertai dengan soal latihan untuk menguji pemahaman pembaca Kami juga menyertakan pembahasan mengenai jenis jenis sistem operasi seperti batch time sharing multiprocessing real time dan sistem terdistribusi sebagai upaya memperluas cakrawala pembaca tentang keragaman sistem operasi dalam praktik nyata Dalam proses penulisan ini kami banyak belajar bahwa teknologi berkembang dengan sangat cepat dan ilmu yang hari ini relevan bisa jadi esok hari telah mengalami transformasi Karena itu kami membuka ruang selebar lebarnya untuk kritik masukan serta diskusi konstruktif guna perbaikan di edisi berikutnya

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