



Windows Internals

7

SEVENTH
EDITION

Part 1

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

Professional



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Alex Ionescu
Mark E. Russinovich
David A. Solomon

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Mario Hewardt, Daniel Pravat



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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

Windows Internals Mark E. Russinovich, David A. Solomon, Alex Ionescu, 2012 A guide to the architecture and internal structure of Microsoft Windows 7 and Microsoft Windows server 2008 R2

Operating Systems (Self Edition 1.1.Abridged) Sibsanakar Haldar, 2016-05-29 Some previous editions of this book were published from Pearson Education ISBN 9788131730225 This book designed for those who are taking introductory courses on operating systems presents both theoretical and practical aspects of modern operating systems Although the emphasis is on theory while exposing you the reader the subject matter this book maintains a balance between theory and practice The theories and technologies that have fueled the evolution of operating systems are primarily geared towards two goals user convenience in maneuvering computers and efficient utilization of hardware resources This book also discusses many fundamental concepts that have been formulated over the past several decades and that continue to be used in many modern operating systems In addition this book also discusses those technologies that prevail in many modern operating systems such as UNIX Solaris Linux and Windows While the former two have been used to present many in text examples the latter two are dealt with as separate technological case studies They highlight the various issues in the design and development of operating systems and help you correlate theories to technologies This book also discusses Android exposing you a modern software platform for embedded devices This book supersedes ISBN 9788131730225 and its other derivatives from Pearson Education India They have been used as textbooks in many schools worldwide You will definitely love this self edition and you can use this as a textbook in undergraduate level operating systems courses

Windows Internals Pavel Yosifovich, Mark E. Russinovich, Alex Ionescu, David A. Solomon, 2017-05-05 The definitive guide fully updated for Windows 10 and Windows Server 2016 Delve inside Windows architecture and internals and see how core components work behind the scenes Led by a team of internals experts this classic guide has been fully updated for Windows 10 and Windows Server 2016 Whether you are a developer or an IT professional you ll 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 This book will help you Understand the Window system architecture and its most important entities such as processes and threads Examine how processes manage resources and threads scheduled for execution inside processes Observe how Windows manages virtual and physical memory Dig into the

Windows I/O system and see how device drivers work and integrate with the rest of the system Go inside the Windows security model to see how it manages access auditing and authorization and learn about the new mechanisms in Windows 10 and Server 2016

Operating Systems Sukomal Pal, 2025-06-01 *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

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

Evasive Malware Kyle Cucci, 2024-09-10 Get up to speed on state of the art malware with this first ever guide to analyzing malicious Windows software designed to actively avoid detection and forensic tools We re all aware of Stuxnet ShadowHammer Sunburst and similar attacks that use evasion to remain hidden while defending themselves from detection and analysis Because advanced threats like these can adapt and in some cases self destruct to evade detection even the most seasoned investigators can use a little help with analysis now and then Evasive Malware will introduce you to the evasion techniques used by today s malicious software and show you how to defeat them Following a crash course on using static and dynamic code analysis to uncover malware s true intentions you ll learn how malware weaponizes context awareness to detect and skirt virtual machines and sandboxes plus the various tricks it uses to thwart analysis tools You ll explore the world of anti reversing from anti disassembly methods and debugging interference to covert code execution and misdirection tactics You ll also delve into defense evasion from process injection and rootkits to fileless malware Finally you ll dissect encoding encryption and the complexities of malware obfuscators and packers to uncover the evil within You ll learn how malware Abuses legitimate components of Windows like the Windows API and LOLBins to run undetected Uses environmental quirks and context awareness like CPU timing and hypervisor enumeration to detect attempts at analysis Bypasses network and endpoint defenses using passive circumvention techniques like obfuscation and mutation and active techniques like unhooking and tampering Detects debuggers and circumvents dynamic and static code analysis You ll also find tips for building a malware analysis lab and tuning it to better counter anti analysis techniques in malware Whether you re a frontline defender a forensic analyst a detection engineer or a researcher Evasive Malware will arm you with the knowledge and skills you need to outmaneuver the stealthiest of today s cyber adversaries

Systems Performance Brendan Gregg, 2020-12-09 Systems Performance Second Edition covers concepts strategy tools and tuning for operating systems and applications using Linux based operating systems as the primary example A deep understanding of these tools and techniques is critical for developers today Implementing the strategies described in this thoroughly revised and updated edition can lead to a better end user experience and lower costs especially for cloud computing environments that charge by the OS instance Systems performance expert and best selling author Brendan Gregg summarizes relevant operating system hardware and application theory to quickly get professionals up to speed even if they have never analyzed performance before Gregg then provides in depth explanations of the latest tools and techniques including extended BPF and shows how to get the most out of cloud web and large scale enterprise systems Key topics covered include Hardware kernel and application internals and how they perform Methodologies for rapid performance analysis of complex systems Optimizing CPU memory file system disk and networking usage Sophisticated profiling and tracing with perf Ftrace and BPF BCC and bpftrace Performance challenges associated with cloud computing hypervisors Benchmarking more effectively Featuring up to date coverage of Linux operating systems and environments Systems Performance Second Edition also addresses issues

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entire application lifecycle and show how to make the most of the tools currently available including Microsoft's powerful native debuggers and third party solutions To help you find real solutions fast this book is organized around real world debugging scenarios Hewardt and Pravat use detailed code examples to illuminate the complex debugging challenges professional developers actually face From core Windows operating system concepts to security Windows Vista™ and 64 bit debugging they address emerging topics head on and nothing is ever oversimplified or glossed over

Constructing an Ethical Hacking Knowledge Base for Threat Awareness and Prevention Dhavale, Sunita Vikrant, 2018-12-14 In recent decades there has been incredible growth in the use of various internet applications by individuals and organizations who store sensitive information online on different servers This greater reliance of organizations and individuals on internet technologies and applications increases the threat space and poses several challenges for implementing and maintaining cybersecurity practices Constructing an Ethical Hacking Knowledge Base for Threat Awareness and Prevention provides innovative insights into how an ethical hacking knowledge base can be used for testing and improving the network and system security posture of an organization It is critical for each individual and institute to learn hacking tools and techniques that are used by dangerous hackers in tandem with forming a team of ethical hacking professionals to test their systems effectively Highlighting topics including cyber operations server security and network statistics this publication is designed for technical experts students academicians government officials and industry professionals

Windows Internals, Part 1, 2017 **Embedded Software for the IoT** Klaus Elk, 2018-12-03 With a mixture of theory examples and well integrated figures Embedded Software for the IoT helps the reader understand the details in the technologies behind the devices used in the Internet of Things It provides an overview of IoT parameters of designing an embedded system and good practice concerning code version control and defect tracking needed to build and maintain a connected embedded system After presenting a discussion on the history of the internet and the world wide web the book introduces modern CPUs and operating systems The author then delves into an in depth view of core IoT domains including Wired and wireless networking Digital filters Security in embedded and networked systems Statistical Process Control for Industry 4.0 This book will benefit software developers moving into the embedded realm as well as developers already working with embedded systems

Mastering Windows SharePoint Services 3.0 C. A. Callahan, 2011-02-09 Windows SharePoint Services WSS 3.0 is the latest version of the collaboration tool found in Windows Server 2003 R2 and also the underlying technology of Microsoft Office SharePoint Server MOSS 2007 In this comprehensive book you'll go under the hood of WSS 3.0 and discover how to make it easy to share documents track tasks create common workspaces where teams can work collectively set up discussion groups and more Includes essential techniques for site creation administration customization security and disaster recovery and practical steps for migrating from 2.0 to 3.0

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