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Architecture

Processes Threads

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Written by a networking expert, this reference details IPv6 from its features and benefits to its packet structure and protocol processes to put the technology into practice.

For a one-semester undergraduate course in

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operating systems for
computer science,
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Operating Systems:
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Principles is a
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unified introduction to
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using several innovative
tools, Stallings makes
it possible to

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understand critical core
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concepts that can be
fundamentally

challenging. The new
edition includes the
implementation of web
based animations to aid
visual learners. At key
points in the book,
students are directed to
view an animation and
then are provided with
assignments to alter the
animation input and
analyze the results. The
concepts are then
enhanced and supported
by end-of-chapter case
studies of UNIX, Linux

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and Windows Vista. These provide students with a solid understanding of the key mechanisms of modern operating systems and the types of design tradeoffs and decisions involved in OS design. Because they are embedded into the text as end of chapter material, students are able to apply them right at the point of discussion. This approach is equally useful as a basic reference and as an up-to-date survey of the

state of the art.

This is the eBook of the printed book and may not include any media, website access codes, or print supplements that may come packaged with the bound book. Conquer today's Windows 10—from the inside out! Dive into Windows 10—and really put your Windows expertise to work.

Focusing on the most powerful and innovative features of Windows 10, this supremely organized reference packs hundreds of timesaving solutions,

*Windows 10 Anniversary
Update. From new Cortana
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enhancements to the
latest security and
virtualization features,
you'll discover how
experts tackle today's
essential tasks—and
challenge yourself to
new levels of mastery.
Install, configure, and
personalize the newest
versions of Windows 10
Understand Microsoft's
revamped activation and*

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upgrade processes
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Discover major Microsoft
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Edge enhancements,
including new support
for extensions Use
today's improved Cortana
services to perform
tasks, set reminders,
and retrieve information
Make the most of the
improved ink, voice,
touch, and gesture
support in Windows 10
Help secure Windows 10
in business with Windows
Hello and Azure AD
Deploy, use, and manage
new Universal Windows
Platform (UWP) apps Take

*advantage of new
entertainment options,
including Groove Music
Pass subscriptions and
connections to your Xbox
One console Manage files
in the cloud with
Microsoft OneDrive and
OneDrive for Business
Use the improved Windows
10 Mail and Calendar
apps and the new Skype
app Fine-tune
performance and
troubleshoot crashes
Master high-efficiency
tools for managing
Windows 10 in the
enterprise Leverage*

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advanced Hyper-V
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features, including
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Secure Boot, TPMs,
nested virtualization,
and containers In
addition, this book is
part of the Current Book
Service from Microsoft
Press. Books in this
program will receive
periodic updates to
address significant
software changes for 12
to 18 months following
the original publication
date via a free Web
Edition. Learn more at <https://www.microsoftpressstore.com/cbs>.

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*

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*throughout, this edition
also contains three
entirely new chapters:*

*Virtualization
technologies Management
diagnostics and tracing
Caching and file system
support
System Architecture,
Processes, Threads,
Memory Management, and
More, Seventh Edition
x86, x64, ARM, Windows
Kernel, Reversing Tools,
and Obfuscation
Practical Reverse
Engineering
Malware Analysis and
Detection Engineering*

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**Productivity Solutions
for IT Professionals
Reversing**

An airliner's controls abruptly fail mid-flight over the Atlantic. An oil tanker runs aground in Japan when its navigational system suddenly stops dead. Hospitals everywhere have to abandon their computer databases when patients die after being administered incorrect dosages of their medicine. In the Midwest, a nuclear power plant nearly becomes the next Chernobyl when its cooling systems malfunction. At first, these random computer failures

seem like unrelated events. But Jeff Aiken, a former government analyst who quit in disgust after witnessing the gross errors that led up to 9/11, thinks otherwise. Jeff fears a more serious attack targeting the United States computer infrastructure is already under way. And as other menacing computer malfunctions pop up around the world, some with deadly results, he realizes that there isn't much time if he hopes to prevent an international catastrophe. Written by a global authority on cyber security, Zero Day presents a

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chilling "what if" scenario that, in a world completely reliant on technology, is more than possible today---it's a cataclysmic disaster just waiting to happen.

A guide to Windows administration describes how to design and implement installation and migration plans, create network connections, set up Internet services, use remote access features, and secure PCs and networks.

The definitive guide-fully updated for Windows 10 and Windows Server 2016 Delve inside Windows architecture

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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***

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***Windows 10 and Server 2016.
Investigating a possible
breach in the New York Stock
Exchange, cyber security
expert Jeff Aiken discovers
that high-ranking officials both
knew about the breach and
allowed millions to be stolen, a
finding that causes Jeff to be
violently targeted by powerful
enemies who would upend the
U.S. economy. 40,000 first
printing.***

***Windows NT File System
Internals***

***Windows Server 2019 Inside
Out***

***Programming Windows
Rootkits***

**Architecture Processes
Threads Memory Management
And More 7th Edition**
**Network Your Computers &
Devices**

***Escape and Evasion in the
Dark Corners of the System
"Windows NT File System
Internals" examines the NT/IO
Manager, the Cache Manager,
and the Memory Manager
from the perspective of a
software developer writing a
file system driver or
implementing a kernel-mode
filter driver. The book
provides numerous code
examples, as well as the
source for a complete, usable
filter driver.***

***Malware analysis is big
business, and attacks can cost
a company dearly. When
malware breaches your***

defenses, you need to act quickly to cure current infections and prevent future ones from occurring. For those who want to stay ahead of the latest malware, Practical Malware Analysis will teach you the tools and techniques used by professional analysts. With this book as your guide, you'll be able to safely analyze, debug, and disassemble any malicious software that comes your way. You'll learn how to:

- Set up a safe virtual environment to analyze malware***
- Quickly extract network signatures and host-based indicators***
- Use key analysis tools like IDA Pro, OllyDbg, and WinDbg***

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- Overcome malware tricks like obfuscation, anti-disassembly, anti-debugging, and anti-virtual machine techniques**
- Use your newfound knowledge of Windows internals for malware analysis**
- Develop a methodology for unpacking malware and get practical experience with five of the most popular packers**
- Analyze special cases of malware with shellcode, C++, and 64-bit code**

Hands-on labs throughout the book challenge you to practice and synthesize your skills as you dissect real malware samples, and pages of detailed dissections offer an over-the-shoulder look at how the pros do it. You'll learn how to crack

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***open malware to see how it
really works, determine what
damage it has done,***

***thoroughly clean your
network, and ensure that the
malware never comes back.
Malware analysis is a cat-and-
mouse game with rules that
are constantly changing, so
make sure you have the
fundamentals. Whether you're
tasked with securing one
network or a thousand
networks, or you're making a
living as a malware analyst,
you'll find what you need to
succeed in Practical Malware
Analysis.***

***“Look it up in Petzold”
remains the decisive last word
in answering questions about
Windows development. And in***

**ARCHITECTURE PROCESSES
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THE CLASSIC EDITION**

**PROGRAMMING WINDOWS,
FIFTH EDITION, the esteemed
Windows Pioneer Award
winner revises his classic text
with authoritative coverage of
the latest versions of the
Windows operating
system—once again drilling
down to the essential API
heart of Win32 programming.
Topics include: The
basics—input, output, dialog
boxes An introduction to
Unicode Graphics—drawing,
text and fonts, bitmaps and
metafiles The kernel and the
printer Sound and music
Dynamic-link libraries
Multitasking and
multithreading The Multiple-
Document Interface
Programming for the Internet**

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Threads, Memory Management
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***and intranets Packed as
always with definitive
examples, this newest Petzold
delivers the ultimate
sourcebook and tutorial for
Windows programmers at all
levels working with Microsoft
Windows 95, Windows 98, or
Microsoft Windows NT. No
aspiring or experienced
developer can afford to be
without it. An electronic
version of this book is
available on the companion
CD. For customers who
purchase an ebook version of
this title, instructions for
downloading the CD files can
be found in the ebook.
While forensic analysis has
proven to be a valuable
investigative tool in the field***

of computer security, utilizing anti-forensic technology makes it possible to maintain a covert operational foothold for extended periods, even in a high-security environment. Adopting an approach that favors full disclosure, the updated Second Edition of The Rootkit Arsenal presents the most accessible, timely, and complete coverage of forensic countermeasures. This book covers more topics, in greater depth, than any other currently available. In doing so the author forges through the murky back alleys of the Internet, shedding light on material that has traditionally been poorly documented, partially

*Architecture, Processes,
Threads, Memory Management*

documented, or intentionally undocumented. The range of topics presented includes how to:

- Evade post-mortem analysis**
- Frustrate attempts to reverse engineer your command & control modules**
- Defeat live incident response**
- Undermine the process of memory analysis**
- Modify subsystem internals to feed misinformation to the outside**
- Entrench your code in fortified regions of execution**
- Design and implement covert channels**
- Unearth new avenues of attack**

**Microsoft Windows Internals
Active Directory
Administrator's Pocket
Consultant
Windows Internals**

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and More, 7th Edition,
***Operating Systems
User Mode
System architecture,
processes, threads, memory
management, and more,
Seventh Edition***

This is a book for curious people. It attempts to answer the basic question “how does it work?” As such, it does not explain how to call documented APIs and DDIs to accomplish some specific goal. There is plenty of information available on these subjects, including the MSDN Library, the WDK documentation and several excellent books. Rather, its purpose is to analyze how the Virtual Memory Manager

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And More 7th Edition

works, simply because it is something worth knowing. With a certain mindset, it might even be something fun to know. Even though this book gives a fairly detailed description of the Virtual Memory Manager, it is not reserved for experienced kernel level programmers. Parts I and II provide information on the x64 processor and enough details on kernel mode code execution to help readers approaching these subjects for the first time. This book describes the Windows 7 x64 implementation of the Virtual Memory Manager. All of the analysis and experiments have been performed on this particular

version only.

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

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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

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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 A guide to rootkits describes what they are, how they work, how to build them, and how to detect them.

"This book is organized around

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three concepts fundamental to OS construction: virtualization (of CPU and memory), concurrency (locks and condition variables), and persistence (disks, RAIDS, and file systems"--Back cover.

The Windows 7 (X64) Virtual
Memory Manager

Secrets of Reverse Engineering

The Rise of the New American

Security State

Subverting the Windows Kernel

What Makes It Page?

Windows PowerShell 3.0 Step by
Step

The First In-Depth, Real-World,
Insider's Guide to Powerful

Windows Debugging For

Windows developers, few tasks

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are more challenging than debugging--or more crucial. Reliable and realistic information about Windows debugging has always been scarce. Now, with over 15 years of experience two of Microsoft's system-level developers present a thorough and practical guide to Windows debugging ever written. Mario Hewardt and Daniel Pravat cover debugging throughout the 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

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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!

A guide to the architecture and internal structure of Microsoft Windows and Microsoft Windows server.

This scenario-focused title

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provides concise technical guidance and insights for troubleshooting and optimizing networking with Hyper-V.

Written by experienced virtualization professionals, this little book packs a lot of value into a few pages, offering a lean read with lots of real-world insights and best practices for Hyper-V networking optimization in Windows Server 2012. Focused guide extends your knowledge and capabilities with Hyper-V networking in Windows Server 2012 Shares hands-on insights from a team of Microsoft virtualization experts Provides pragmatic troubleshooting and

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optimization guidance from the field

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

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you can apply to improve application design, debugging, system performance, and support. This book will help you:

- Understand the Windows 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,

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auditing, and authorization,
and learn about the new
mechanisms in Windows 10
and Server 2016

Optimizing and
Troubleshooting Hyper-V
Networking

Windows Internals, Part 2
OSR Classic Reprints

Windows Internals, Part 1
Internals and Design Principles
Practical Malware Analysis

**Your hands-on, step-by-step
guide to automating Windows
administration with Windows
PowerShell 3.0 Teach yourself
the fundamentals of Windows
PowerShell 3.0 command line
interface and scripting
language—one step at a time.**

Written by a leading scripting

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expert, this practical tutorial delivers learn-by-doing exercises, timesaving tips, and hands-on sample scripts for performing administrative tasks on both local and remote Windows systems. Discover how to: Use built-in cmdlets to execute commands Write scripts to handle recurring tasks Use providers to access information beyond the shell environment Configure network components with Windows Management Instrumentation Manage users, groups, and computers with Active Directory services Execute scripts to administer and troubleshoot Microsoft Exchange Server 2010 Intelligent readers who want to build their own embedded computer systems-- installed in

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everything from cell phones to cars to handheld organizers to refrigerators-- will find this book to be the most in-depth, practical, and up-to-date guide on the market. Designing Embedded Hardware carefully steers between the practical and philosophical aspects, so developers can both create their own devices and gadgets and customize and extend off-the-shelf systems. There are hundreds of books to choose from if you need to learn programming, but only a few are available if you want to learn to create hardware. Designing Embedded Hardware provides software and hardware engineers with no prior experience in embedded systems with the

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necessary conceptual and design building blocks to understand the architectures of embedded systems. Written to provide the depth of coverage and real-world examples developers need, *Designing Embedded Hardware* also provides a road-map to the pitfalls and traps to avoid in designing embedded systems. *Designing Embedded Hardware* covers such essential topics as:

- The principles of developing computer hardware
- Core hardware designs
- Assembly language concepts
- Parallel I/O
- Analog-digital conversion
- Timers (internal and external)
- UART
- Serial Peripheral Interface
- Inter-Integrated Circuit
- Bus Controller
- Area Network (CAN)
- Data Converter Interface (DCI)
- Low-

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power operation This invaluable and eminently useful book gives you the practical tools and skills to develop, build, and program your own application-specific computers.

Portable and precise, this pocket-sized guide delivers immediate answers for the day-to-day administration of Active Directory in Windows Server 2008. Zero in on core support and maintenance tasks using quick-reference tables, instructions, and lists. You'll get the focused information you need to solve problems and get the job done—whether at your desk or in the field! Get fast facts to: Install forests, domain trees, and child domains Add and remove writable domain controllers and

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deploy read-only controllers
Configure, maintain, and
troubleshoot global catalog
servers Maintain directory and
data integrity using operations
masters Evaluate sites, subnets,
and replication before expanding
a network Establish a trust
relationship between domains
and between forests Maintain
and recover Active Directory
Domain Services Employ
essential command-line utilities
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,

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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,

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permissions, and other security
information Execute Sysinternals
management tools on one or

more remote computers Master
Process Explorer, Process
Monitor, and Autoruns

Detecting Malware and Threats
in Windows, Linux, and Mac

Memory

Step by Step

Windows 10 Inside Out (includes
Current Book Service)

A Jeff Aiken Novel

Advanced Windows Debugging

Designing Embedded Hardware

*A shocking examination of the
extreme national security*

*apparatus built in response to the
terrorist attacks of September*

*11th After 9/11, the United States
government embarked on an*

unprecedented effort to protect America. The result has been calamitous: Eleven years of unparalleled spending and growth have produced a system to keep America safe that may in fact be putting us in even greater danger--but we don't know because it's all top secret. In this acclaimed bestseller, award-winning journalists Dana Priest and William M. Arkin lift the curtain on this clandestine universe. From the agencies and private companies keeping track of American citizens, to the military commanders building America's first "top secret city," to a hidden army within the U.S.

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military more secret than the CIA, this new national security octopus has become a self-sustaining "fourth branch" of government. Top Secret America is a tour de force of investigative journalism that reveals government run amok and a war on terrorism gone wrong.

Get started with this powerful Windows administration tool Automate Windows administration tasks with ease by learning the fundamentals of Windows PowerShell 3.0. Led by a Windows PowerShell expert, you'll learn must-know concepts and techniques through easy-to-follow explanations, examples,

and exercises. Once you complete this practical introduction, you can go deeper into the Windows PowerShell command line interface and scripting language with Windows PowerShell 3.0 Step by Step. Discover how to: Create effective Windows PowerShell commands with one line of code Apply Windows PowerShell commands across several Windows platforms Identify missing hotfixes and service packs with a single command Sort, group, and filter data using the Windows PowerShell pipeline Create users, groups, and organizational units in Active Directory Add

*computers to a domain or
workgroup with a single line of
code Run Windows PowerShell
commands on multiple remote
computers Unleash the power of
scripting with Windows
Management Instrumentation
(WMI)*

*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
sourcecode or design
documents. Hackers are able to
reverse engineer systems and
exploit what they find with scary
results. Now the goodguys 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 hackers in their tracks. The book covers x86, x64, and ARM (the first book to cover all three); Windows kernel-mode code rootkits and drivers; virtual machine protection techniques; and much more. Best of all, it offers a systematic approach to the material, with plenty of hands-on exercises and real-world examples. Offers a systematic approach to

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*understanding
reverse engineering, with hands-
on exercises and real-world
examples Covers x86, x64, and
advanced RISC machine (ARM)
architectures as well as
deobfuscation and virtual
machine protection techniques
Provides special coverage of
Windows kernel-mode
code (rootkits/drivers), a topic not
often covered elsewhere,
and explains how to analyze
drivers step by step Demystifies
topics that have a steep learning
curve Includes a bonus chapter
on reverse engineering tools
Practical Reverse Engineering:
Using x86, x64, ARM,*

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*WindowsKernel, and Reversing
Tools provides crucial, up-to-
date guidance for a broad range
of IT professionals.*

*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.*

The Hands-On Guide to

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Dissecting Malicious Software
Windows Sysinternals
Administrator's Reference

Rogue Code

Top Secret America

The Rootkit Arsenal

Understanding IPv6

Discover how the internals of malware work and how you can analyze and detect it. You will learn not only how to analyze and reverse malware, but also how to classify and categorize it, giving you insight into the intent of the malware. Malware Analysis and Detection Engineering is a one-stop guide to malware analysis that simplifies the topic by teaching you undocumented tricks

used by analysts in the industry. You will be able to extend your expertise to analyze and reverse the challenges that malicious software throws at you. The book starts with an introduction to malware analysis and reverse engineering to provide insight on the different types of malware and also the terminology used in the anti-malware industry. You will know how to set up an isolated lab environment to safely execute and analyze malware. You will learn about malware packing, code injection, and process hollowing plus how to analyze, reverse, classify, and categorize malware using static and dynamic tools.

You will be able to automate your malware analysis process by exploring detection tools to modify and trace malware programs, including sandboxes, IDS/IPS, anti-virus, and Windows binary instrumentation. The book provides comprehensive content in combination with hands-on exercises to help you dig into the details of malware dissection, giving you the confidence to tackle malware that enters your environment. What You Will Learn Analyze, dissect, reverse engineer, and classify malware Effectively handle malware with custom packers and compilers Unpack complex malware to

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1, User Mode; Book 2, Kernel
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Windows fundamentals,
independent of platform - server,
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functional descriptions of the
various Windows components and**

features that interact with, or are manipulated by, user mode programs, or applications. You'll also examine management mechanisms and operating system components that are implemented in user mode, such as service processes. 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. Planned chapters: Concepts & Tools; System Architecture; Windows Application Support;

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C++ and C# code analysis
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monitor, and other tools

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

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and CPU placement algorithms Go
inside the Windows security model to
see how it authorizes access to data

Understand how Windows manages
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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

Beginning with a basic primer on reverse
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reverse engineering-and explaining how
to decipher assembly language

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1

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Zero Day

Microsoft Windows Server 2003,

Windows XP, and Windows 2000