



ADVANCED WINDOWS DEBUGGING

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Advanced Windows Debugging

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Advanced Windows Debugging:

Advanced Windows Debugging Mario Hewardt, Daniel Pravat, 2007-10-29 The First In Depth Real World Insider's Guide to Powerful Windows Debugging For Windows developers few tasks 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 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

Advanced .NET Debugging Mario Hewardt, 2009-11-09 Mario Hewardt's *Advanced NET Debugging* is an excellent resource for both beginner and experienced developers working with NET The book is also packed with many debugging tips and discussions of CLR internals which will benefit developers architecting software Jeffrey Richter consultant trainer and author at Wintellect Mario has done it again His *Advanced Windows Debugging* coauthored with Daniel Pravat is an invaluable resource for native code debugging and *Advanced NET Debugging* achieves the same quality clarity and breadth to make it just as invaluable for NET debugging Mark Russinovich Technical Fellow Microsoft Corporation The Only Complete Practical Guide to Fixing the Toughest NET Bugs *Advanced NET Debugging* is the first focused pragmatic guide to tracking down today's most complex and challenging NET application bugs It is the only book to focus entirely on using powerful native debugging tools including WinDBG NTSD and CDB to debug NET applications Using these tools author Mario Hewardt explains how to identify the real root causes of problems far more quickly than you ever could with other debuggers Hewardt first introduces the key concepts needed to successfully use NET's native debuggers Next he turns to sophisticated debugging techniques using real world examples that demonstrate many common C programming errors This book enables you to Make practical use of postmortem debugging including PowerDBG and other power tools Understand the debugging details and implications of the new NET CLR 4.0 Master and successfully use Debugging Tools for Windows as well as SOS SOSEX CLR Profiler and other powerful tools Gain a deeper more practical understanding of CLR internals such as examining thread specific data managed heap and garbage collector interoperability layer and NET exceptions Solve difficult synchronization problems managed heap problems interoperability problems and much more Generate and successfully analyze crash dumps

70-412 Configuring Advanced Windows Server 2012 Services R2 Microsoft Official Academic Course, 2014-11-24 This 70 412 *Configuring Advanced Windows Server 2012 R2 Services* textbook covers the third of three exams required for Microsoft Certified Solutions Associate MCSA Windows Server

2012 certification This course will help validate the skills and knowledge necessary to administer a Windows Server 2012 Infrastructure in an enterprise environment The three MCSA exams collectively validate the skills and knowledge necessary for implementing managing maintaining and provisioning services and infrastructure in a Windows Server 2012 environment This Microsoft Official Academic Course is mapped to the 70 412 Configuring Advanced Windows Server 2012 Services exam skills including the recent R2 objectives This textbook focuses on real skills for real jobs and prepares students to prove mastery of Advanced Windows Server 2012 Services such as advanced configuring tasks necessary to deploy manage and maintain a Windows Server 2012 infrastructure It covers such skills as fault tolerance certificate services and identity federation In addition this book also covers such valuable skills as Implementing Advanced Network Services Implementing Advanced File Services Implementing Dynamic Access Control Implementing Network Load Balancing Implementing Failover Clustering Implementing Disaster Recovery Implementing Active Directory Certificate Services AD CS Implementing Active Directory Federation Services AD FS The MOAC IT Professional series is the Official from Microsoft turn key Workforce training program that leads to professional certification and was authored for college instructors and college students MOAC gets instructors ready to teach and students ready for work by delivering essential resources in 5 key areas Instructor readiness student software student assessment instruction resources and learning validation With the Microsoft Official Academic course program you are getting instructional support from Microsoft materials that are accurate and make course delivery easy

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

Practical Reverse Engineering Bruce Dang, Alexandre Gazet, Elias Bachaalany, 2014-02-03 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 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 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 Windows Kernel and Reversing Tools provides crucial up to date guidance for a broad range of IT professionals

C# Deconstructed Mohammad Rahman,2014-09-30 C Deconstructed answers a seemingly simply question Just what is going on exactly when you run C code on the NET Framework To answer this question we will dig ever deeper into the structure of the C language and the onion skin abstraction layers of the NET Framework that underpins it We ll follow the execution thread downwards first to MSIL Microsoft Intermediate Language then down through just in time compilation into Machine Code before finally seeing the results executed at the hardware level The aim of this deep dive is to provide you with a much more rounded knowledge of the environment within which you code exists As a managed language it s best practice to let the Framework deal with device interaction but you ll find the experience of taking the cover off once in a while a very rewarding one that will greatly enrich your appreciate of the C language and the way in which in functions

Advanced Windows NT Jeffrey Richter,1994 Here is the perfect book for Windows developers who want to join the forces of Windows NT developers Each chapter attacks a specific topic of Windows NT programming explaining how it fits into the big picture and then detailing what programmers need to know to exploit the feature or mechanism in their program

A Bug Hunter's Diary Tobias Klein,2011-10-11 Seemingly simple bugs can have drastic consequences allowing attackers to compromise systems escalate local privileges and otherwise wreak havoc on a system A Bug Hunter s Diary follows security expert Tobias Klein as he tracks down and exploits bugs in some of the world s most popular software like Apple s iOS the VLC media player web browsers and even the Mac OS X kernel In this one of a kind account you ll see how the developers responsible for these flaws patched the bugs or failed to respond at all As you follow Klein on his journey you ll gain deep technical knowledge and insight into how hackers approach difficult problems and experience the true joys and frustrations of bug hunting Along the way you ll learn how to Use field tested techniques to find bugs like identifying and tracing user input data and reverse engineering Exploit vulnerabilities like NULL pointer

dereferences buffer overflows and type conversion flaws Develop proof of concept code that verifies the security flaw Report bugs to vendors or third party brokers A Bug Hunter s Diary is packed with real world examples of vulnerable code and the custom programs used to find and test bugs Whether you re hunting bugs for fun for profit or to make the world a safer place you ll learn valuable new skills by looking over the shoulder of a professional bug hunter in action **Exam 98-349 MTA Windows Operating System Fundamentals** Microsoft Official Academic Course,2012-05-15 The Microsoft Technology Associate certification MTA curriculum helps instructors teach and validate fundamental technology concepts with a foundation for students careers as well as the confidence they need to succeed in advanced studies Through the use of MOAC MTA titles you can help ensure your students future success in and out of the classroom This MTA text covers the following Windows Operating System vital fundamental skills Understanding Operating System Configurations Installing and Upgrading Client Systems Managing Applications Managing Files and Folders Managing Devices Understanding Operating System Maintenance Click here to learn more about Microsoft Technology Associate MTA a new and innovative certification track designed to provide a pathway for future success in technology courses and careers **Dr. Dobb's Journal** ,2005

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