

Windows Debugging Notebook

Essential User Space WinDbg Commands



Roberto Alexis Farah
Dmitry Vostokov
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(Foreword)

Windows Debugging Notebook Essential User Space Windbg Commands

Dmitry Vostokov



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Windows Debugging Notebook Roberto Alexis Farah,2011-01-01 A reference book for technical support and escalation engineers troubleshooting and debugging complex software issues The book is also invaluable for software maintenance and development engineers debugging Windows applications and services Windows Debugging Notebook Dmitry Vostokov,2011 *Accelerated Windows Debugging 3* Dmitry Vostokov,Software Diagnostics Services,2018-09-16 The full transcript of Software Diagnostics Services training with step by step exercises notes and source code to learn live local and remote debugging techniques in kernel user process and managed NET spaces using WinDbg debugger The second edition was fully reworked and updated to use the latest WinDbg version and Windows 10 *Advanced Windows Debugging* Mario Hewardt,Daniel Pravat,2008 Debugging is one of the most vexing yet most important tasks facing any developer including programmers working in Windows Yet information about how to debug is difficult to come by scattered among many different areas online *Accelerated Windows Debugging 3* Dmitry Vostokov,Software Diagnostics Services,2013-07 Learn live local and remote debugging techniques and tricks in kernel user process and managed NET spaces using WinDbg debugger The unique and innovative Debugging 3 course teaches unified debugging patterns applied to real problems from complex software environments The training consists of more than 12 practical step by step hands on exercises Accelerated Windows Memory Dump Analysis, Fifth Edition, Part 1, Revised, Process User Space Dmitry Vostokov,Software Diagnostics Services,2021-12-22 This book is a full color transcript of Software Diagnostics Services training sessions with 20 step by step exercises notes source code of specially created modeling applications and more than 60 questions and answers Covers more than 50 crash dump analysis patterns from x86 and x64 process memory dumps Learn how to analyze application and service crashes and freezes navigate through process user space and diagnose heap corruption memory and handle leaks CPU spikes blocked threads deadlocks wait chains and many more patterns of abnormal software behavior with WinDbg debugger The training uses a unique and innovative pattern oriented analysis approach developed by Software Diagnostics Institute to speed up the learning curve Prerequisites Basic Windows troubleshooting Audience Software technical support and escalation engineers system administrators security researchers reverse engineers malware and memory forensics analysts software developers and quality assurance engineers site reliability engineers The 5th edition was fully reworked with new memory dumps additional slides exercises and analysis patterns It was further revised with some exercises updated to Windows 11 expanded Q A and optional Docker image **Advanced Windows Memory Dump Analysis with Data Structures** Dmitry Vostokov,2017-06-07 The full transcript of Software Diagnostics Services training course with 12 step by step exercises notes and selected questions and answers Learn how to navigate through memory dump space and Windows data structures to diagnose troubleshoot and debug complex software incidents *Accelerated Windows Memory Dump Analysis* Dmitry Vostokov,Software Diagnostics Services,2013-11 The full transcript of Software Diagnostics Services training

with 25 step by step exercises notes source code of specially created modelling applications and more than 100 questions and answers Covers more than 50 crash dump analysis patterns diagnosed in 32 bit and 64 bit process kernel and complete memory dumps Learn how to analyse application service and system crashes and freezes navigate through memory dump space and diagnose heap corruption memory leaks CPU spikes blocked threads deadlocks wait chains and much more The training uses a unique and innovative pattern driven analysis approach to speed up the learning curve Prerequisites Basic Windows troubleshooting Audience software technical support and escalation engineers system administrators security professionals software developers and quality assurance engineers The 3rd edition was updated to the latest version of WinDbg from Debugging Tools for Windows and includes new exercises for Windows 7 and Windows 8.1 crash dumps

Accelerated Windows Memory Dump Analysis, Sixth Edition, Part 1, Process User Space Dmitry

Vostokov, Software Diagnostics Services, 2024-01-27 Analyze crashes and freezes navigate through user space and diagnose heap corruption memory and handle leaks CPU spikes blocked threads deadlocks wait chains and more using WinDbg debugger *Accelerated Windows Debugging 4D* Dmitry Vostokov, Software Diagnostics Services, 2022-07-30 The full

transcript of Software Diagnostics Services training course on live local and remote debugging techniques in kernel user process and managed .NET spaces using WinDbg debugger [Accelerated Windows Memory Dump Analysis, Fifth Edition, Part 1, Process User Space](#) Dmitry Vostokov, 2019 The full color transcript of Software Diagnostics Services training sessions with 20 step by step exercises notes source code of specially created modeling applications and more than 60 questions and answers Covers more than 50 crash dump analysis patterns from x86 and x64 process memory dumps Learn how to analyse application and service crashes and freezes navigate through process user space and diagnose heap corruption memory and handle leaks CPU spikes blocked threads deadlocks wait chains and much more The training uses a unique and innovative pattern oriented analysis approach developed by Software Diagnostics Institute to speed up the learning curve Prerequisites Basic Windows troubleshooting Audience Software technical support and escalation engineers system administrators security researchers reverse engineers malware and memory forensics analysts software developers and quality assurance engineers site reliability engineers The 5th edition was fully reworked with additional slides exercises and analysis patterns

Accelerated Windows Memory Dump Analysis Dmitry Vostokov, Software Diagnostics Services, 2016-05-23 The full transcript of Software Diagnostics Services training with 28 step by step exercises notes source code of specially created modelling applications and more than 100 questions and answers Covers more than 60 crash dump analysis patterns from x86 and x64 process kernel complete physical and active memory dumps Learn how to analyse application service and system crashes and freezes navigate through memory dump space and diagnose heap corruption memory leaks CPU spikes blocked threads deadlocks wait chains and much more The training uses a unique and innovative pattern oriented analysis approach developed by Software Diagnostics Institute to speed up the learning curve Prerequisites Basic Windows

troubleshooting Audience Software technical support and escalation engineers system administrators security researchers reverse engineers malware and memory forensics analysts software developers and quality assurance engineers The 4th edition was fully reworked to use WinDbg 10 and now covers memory dumps from Windows 10 x64 It also includes optional legacy exercises from the previous editions covering Windows Vista and Windows 7

Debugging Windows Programs

Everett N. McKay, Mike Woodring, 2000 For professional software developers debugging is a way of life This book is the definitive guide to Windows debugging providing developers with the strategies and techniques they need to fulfill one of their most important responsibilities efficiently and effectively Debugging Windows Programs shows readers how to prevent bugs by taking full advantage of the Visual C development tools and writing code in a way that makes certain types of bugs impossible They also will learn how to reveal bugs with debugging statements that force bugs to expose themselves when the program is executed and how to make the most of debugging tools and features available in Windows Visual C MFC and ATL The authors provide specific solutions to the most common debugging problems including memory corruption resource leaks stack problems release build problems finding crash locations and multithreading problems These essential topics are covered The debugging process Writing C code for debugging Strategically using assertions trace statements and exceptions Windows postmortem debugging using Dr Watson and MAP files Using the Visual C debugger Debugging memory Debugging multithreaded programs Debugging COM Each chapter provides developers with exactly what they need to master the subject and improve development productivity and software quality Comprehensive current and practical Debugging Windows Programs helps developers understand the debugging process and make the most of the Visual C debugging tools

020170238XB04062001 **Advanced Windows Memory Dump Analysis with Data Structures** Dmitry

Vostokov, Software Diagnostics Services, 2013-12 The full transcript of Memory Dump Analysis Services Training with 10 step by step exercises notes and selected questions and answers Learn how to navigate through memory dump space and Windows data structures to troubleshoot and debug complex software incidents The training uses a unique and innovative pattern driven analysis approach to speed up the learning curve It consists of practical step by step exercises using WinDbg to diagnose structural and behavioural patterns in 64 bit kernel and complete physical memory dumps Additional topics include memory search kernel linked list navigation practical WinDbg scripting registry system variables and objects device drivers and I O Prerequisites are basic and intermediate level Windows memory dump analysis ability to list processors processes threads modules apply symbols walk through stack traces and raw stack data diagnose patterns such as heap corruption CPU spike memory and handle leaks access violation stack overflow critical section and resource wait chains and deadlocks If you don't feel comfortable with prerequisites then Accelerated Windows Memory Dump Analysis training book is recommended before purchasing and reading this book course Audience Software developers software technical support and escalation engineers reverse and security research engineers The 2nd edition contains updated exercises for the latest

WinDbg version from Windows SDK 8.1 Practical Foundations of Windows Debugging, Disassembling, Reversing Dmitry Vostokov, Software Diagnostics Services, 2022-04-16 This training course is a combined reformatted improved and modernized version of the two previous books x64 Windows Debugging Practical Foundations that drew inspiration from the original lectures we developed almost 18 years ago to train support and escalation engineers in debugging and crash dump analysis of memory dumps from Windows applications services and systems At that time when thinking about what material to deliver we realized that a solid understanding of fundamentals like pointers is needed to analyze stack traces beyond a few WinDbg commands Therefore this book is not about bugs or debugging techniques but about the background knowledge everyone needs to start experimenting with WinDbg and learn from practical experience and read other advanced debugging books This body of knowledge is what the author of this book possessed before starting memory dump analysis using WinDbg 18 years ago which resulted in the number one debugging bestseller multi volume Memory Dump Analysis Anthology Now in retrospection we see these practical foundations as relevant and necessary to acquire for beginners as they were 18 years ago because operating systems internals assembly language and compiler architecture haven't changed much in those years The book contains two separate sets of chapters and corresponding illustrations They are named Chapter x86 NN and Chapter x64 NN respectively The new format makes switching between and comparing x86 and x64 versions easy Both sets of chapters can be read independently We included x86 chapters because many 3rd party Windows applications are still 32 bit and executed in 32 bit compatibility mode on x64 Windows systems Almost 5 years have passed since the first edition of the combined training course that used the earlier version of Windows 10 Since then we have also published Practical Foundations of Linux Debugging Disassembling Reversing and Practical Foundations of ARM64 Linux Debugging Disassembling Reversing books At that time we thought about revising our Windows course Since then Windows 11 appeared and we also added Docker support for most of our Windows memory dump analysis courses While working on the Accelerated Windows Debugging 4D course we decided to make the second edition of Practical Foundations of Windows Debugging based on WinDbg from Windows 11 SDK and Visual Studio 2022 build tools and an optional Docker support for the exercise environment We also changed the operator to in pseudo code for x64 AT Software engineers coming from managed code or JVM background Software testers Engineers coming from non Wintel environments Windows C/C++ software engineers without assembly language background Security researchers without x86/x64 assembly language background Beginners learning Windows software reverse engineering techniques This introductory training course can complement the more advanced course Accelerated Disassembly Reconstruction and Reversing Revised Edition It may also help with advanced exercises in Accelerated Windows Memory Dump Analysis books This book can also be used as an Intel assembly language and Windows debugging supplement for relevant undergraduate level courses *Accelerated Windows Debugging 4D* Dmitry Vostokov, Software Diagnostics Services, 2025-05-06 Learn live local and remote debugging techniques in the

kernel user process and managed NET spaces using the WinDbg debugger **Accelerated Windows Memory Dump**

Analysis Dmitry Vostokov, Software Diagnostics Services, 2013-03-01 The full transcript of Software Diagnostics Services training with 23 step by step exercises notes source code of specially created modeling applications and more than 100 questions and answers Covers more than 50 crash dump analysis patterns diagnosed in 32 bit and 64 bit process kernel and complete memory dumps Learn how to analyze application service and system crashes and freezes navigate through memory dump space and diagnose heap corruption memory leaks CPU spikes blocked threads deadlocks wait chains and much more The training uses a unique and innovative pattern driven analysis approach to speed up the learning curve Prerequisites Basic Windows troubleshooting Audience software technical support and escalation engineers system administrators security professionals software developers and quality assurance engineers Debugging Applications John Robbins, 2000 An expert debugger describes proven techniques for preventing detecting and correcting code errors and also provides instruction tools and source code readers can use throughout development to produce higher quality user friendly software

Accelerated . Net Memory Dump Analysis Dmitry Vostokov, Software Diagnostics Services, 2013-08 The full transcript of Software Diagnostics Services training with 9 step by step exercises notes and source code of specially created modeling applications and selected questions and answers Covers 20 NET memory dump analysis patterns plus additional unmanaged patterns Learn how to analyze NET application and service crashes and freezes navigate through memory dump space managed and unmanaged code and diagnose corruption leaks CPU spikes blocked threads deadlocks wait chains resource contention and much more The training consists of practical step by step exercises using WinDbg to diagnose patterns in 32 bit and 64 bit process memory dumps The training uses a unique and innovative pattern driven analysis approach to speed up the learning curve Prerequisites Basic NET programming and debugging Audience Software technical support and escalation engineers system administrators software developers and quality assurance engineers **Advanced Windows Memory**

Dump Analysis with Data Structures Dmitry Vostokov, Memory Dump Analysis Services, 2012 Learn how to navigate through memory dump space and Windows data structures to troubleshoot and debug complex software incidents with the full transcript of Memory Dump Analysis Services Training s 10 step by step exercises notes and selected questions and answers

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