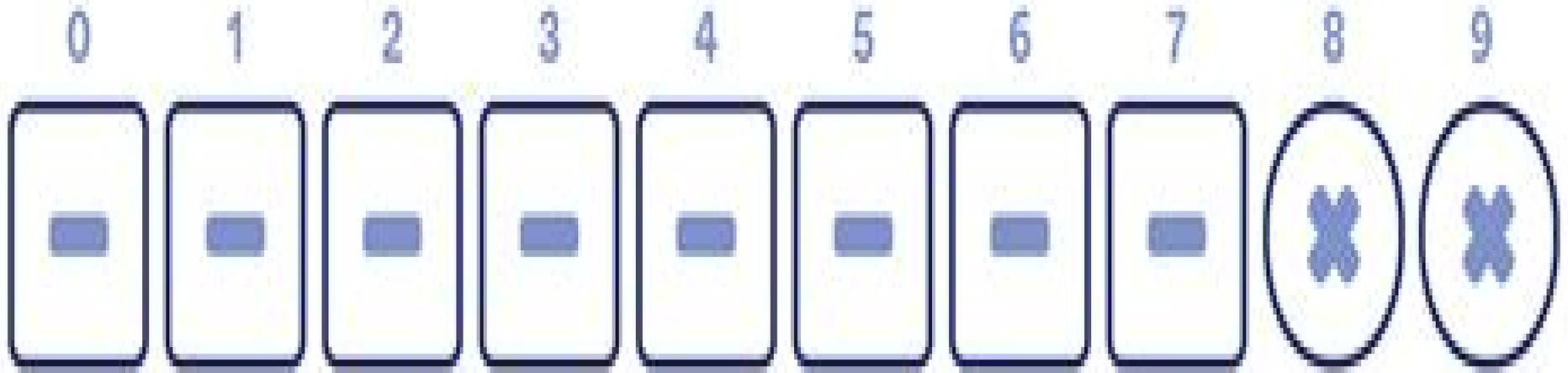


# Buffer Overflow



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# Buffer Overflow Attacks

**Anshul Verma, Pradeepika Verma, Kiran  
Kumar Pattanaik, Sanjay Kumar  
Dhurandher, Isaac Woungang**

## **Buffer Overflow Attacks:**

*Buffer Overflow Attacks* Jason Deckard, 2005-01-29 The SANS Institute maintains a list of the Top 10 Software Vulnerabilities At the current time over half of these vulnerabilities are exploitable by Buffer Overflow attacks making this class of attack one of the most common and most dangerous weapon used by malicious attackers This is the first book specifically aimed at detecting exploiting and preventing the most common and dangerous attacks Buffer overflows make up one of the largest collections of vulnerabilities in existence And a large percentage of possible remote exploits are of the overflow variety Almost all of the most devastating computer attacks to hit the Internet in recent years including SQL Slammer Blaster and I Love You attacks If executed properly an overflow vulnerability will allow an attacker to run arbitrary code on the victim s machine with the equivalent rights of whichever process was overflowed This is often used to provide a remote shell onto the victim machine which can be used for further exploitation A buffer overflow is an unexpected behavior that exists in certain programming languages This book provides specific real code examples on exploiting buffer overflow attacks from a hacker s perspective and defending against these attacks for the software developer Over half of the SANS TOP 10 Software Vulnerabilities are related to buffer overflows None of the current best selling software security books focus exclusively on buffer overflows This book provides specific real code examples on exploiting buffer overflow attacks from a hacker s perspective and defending against these attacks for the software developer

**Hackers Beware** Eric Cole, 2002 Discusses the understanding fears courts custody communication and problems that young children must face and deal with when their parents get a divorce

**Study of Buffer Overflow Attacks and Microarchitectural Defenses** Jingfeng Xu, 2002 Buffer overflow attack is one of the most common security threats This thesis examines the working mechanism of typical buffer overflow attacks and presents a new approach to mitigating buffer overflow vulnerabilities by encoding decoding every copy of program counter on the stack A simple encoding decoding scheme was implemented as a compiler enhancement to GCC Several exploit experiments were conducted to test the effectiveness of this approach This technique s performance overhead was also measured This approach is able to defeat the typical stack smashing kind of buffer overflow attack with little run time overhead

**Hacking the Cable Modem** DerEngel, 2006 A guide to cable modems includes tutorials diagrams source code examples hardware schematics and hacks to get the most out of this Internet connection

**Poseidon: Hardware Support for Buffer Overflow Attacks** , 2003 Stack smashing attacks were the most exploited security vulnerability in the past decade according to CERT Using a method called stack smashing a malicious user overflows a buffer in the stack frame overwriting critical stack state The return address of the current function which is saved in the function s stack frame is overwritten when the buffer overflows The new return address points to the attacker s code So when the function is exited control is transferred to the attacker s code instead of back to the calling function A common way to prevent overflow based stack smashing is to insert bounds checking code or insert sentinel

values on the stack but this requires recompilation We propose a hardware based method that does not require recompilation based on the idea that an attack of this kind produces an unexpected return address The processor maintains a separate hardware stack called the shadow stack and monitors the dynamic instruction stream for subroutine calls and returns When a call instruction is retired its return address is pushed on the shadow stack When a return instruction is retired the address at the top of the shadow stack is popped and compared to the target of the return instruction If the addresses differ then the conventional subroutine call return semantics have been violated This may truly be an attack or it may be a legitimate program construct e g setjmp longjmp that also violates call return semantics Legitimate cases are distinguished from attacks by recording the stack pointer along with the return address at the time of a call when a subroutine returns the stack pointer appears consistent in the case of an attack but not in the case of setjmp longjmp There are three distinct parts to the evaluation of the usefulness and the practicality of this idea The first part is identifying the generality of this solution This means that we seek to answer the question Do we detect all forms of buffer o

**Dynamically Enabled Cyber Defense** Lin Yang,Quan Yu,2021-06-08 The book puts forward dynamically enabled cyber defense technology as a solution to the system homogenization problem Based on the hierarchy of the protected information system entity the book elaborates on current mainstream dynamic defense technologies from four aspects the internal hardware platform software service information data and external network communication It also ascertains their possible evolution routes clarifies their relationship with existing security products and makes macro analyses and discussions on security gain and overall system efficiency of these technologies This book can be used as both a textbook for graduate courses related to electronic information as well as a reference for scientific researchers engaged in relevant research It helps graduate students majoring in electronics and information sciences to gain an understanding in dynamically enabled cyber defense Scientists and engineers specialising in network security research should also find this book to be a useful guide on recent developments in network security

Simulating Hardware-level Buffer-overflow Protection Matthew R. Fletcher,2005

**Advanced Network Technologies and Intelligent Computing** Anshul Verma,Pradeepika Verma,Kiran Kumar Pattanaik,Sanjay Kumar Dhurandher,Isaac Woungang,2024-08-07 The 4 volume proceedings set CCIS 2090 2091 2092 and 2093 constitute the refereed post conference proceedings of the Third International Conference on Advanced Network Technologies and Intelligent Computing ANTIC 2023 held in Varanasi India during December 20 22 2023 The 87 full papers and 11 short papers included in this book were carefully reviewed and selected from 487 submissions The conference papers are organized in topical sections on Part I Advanced Network Technologies Part II Advanced Network Technologies Intelligent Computing Part III IV Intelligent Computing

Hacking Exposed, Sixth Edition Stuart McClure,Joel Scambray,George Kurtz,2009-02-01 The tenth anniversary edition of the world s bestselling computer security book The original Hacking Exposed authors rejoin forces on this new edition to offer completely up to date coverage of today s most devastating hacks and how to prevent them Using

their proven methodology the authors reveal how to locate and patch system vulnerabilities The book includes new coverage of ISO images wireless and RFID attacks Web 2 0 vulnerabilities anonymous hacking tools Ubuntu Windows Server 2008 mobile devices and more Hacking Exposed 6 applies the authors internationally renowned computer security methodologies technical rigor and from the trenches experience to make computer technology usage and deployments safer and more secure for businesses and consumers A cross between a spy novel and a tech manual Mark A Kellner Washington Times The seminal book on white hat hacking and countermeasures Should be required reading for anyone with a server or a network to secure Bill Machrone PC Magazine A must read for anyone in security One of the best security books available Tony Bradley CISSP About com *Protection Against Overflow Attacks* Ge Zhu,2006 Buffer overflow happens when the runtime process loads more data into the buffer than its design capacity Bad programming style and lack of security concern cause overflow vulnerabilities in almost all applications on all the platforms Buffer overflow attack can target any data in stack or heap The current solutions ignore the overflowed targets other than return address Function pointer for example is a possible target of overflow attack By overflowing the function pointer in stack or heap the attacker could redirect the program control flow when the function pointer is dereferenced to make a function call To address this problem we implemented protection against overflow attacks targeting function pointers During compiling phase our patch collects the set of the variables that might change the value of function pointers at runtime During running phase the set is protected by encryption before the value is saved in memory and decryption before the value is used The function pointer protection will cover all the overflow attacks targeting function pointers To further extend the protection to cover all possible overflowing targets we implemented an anomaly detection which checks the program runtime behavior against control flow checking automata The control flow checking automata are derived from the source codes of the application A trust value is introduced to indicate how well the runtime program matches the automata The attacks modifying the program behavior within the source codes could be detected Both function pointer protection and control flow checking are compiler patches which require the access to source codes To cover buffer overflow attack and enforce security policies regardless of source codes we implemented a runtime monitor with stream automata Stream automata extend the concept of security automata and edit automata The monitor works on the interactions between two virtual entities system and program The security policies are expressed in stream automata which perform Truncation Suppression Insertion Metamorphosis Forcing and Two Way Forcing on the interactions We implement a program operating system monitor to detect overflow attack and a local network Internet monitor to enforce honeywall policies

**Preventing Buffer Overflow Attacks Using Binary of Split Stack (BoSS)** Parag Nileshbhai Doshi,2007 One the most common problem in the area of computer security is that exploits of the buffer overflow vulnerabilities It is an attack mechanism that uses flaws in programming languages which dose not have enough boundary checking mechanism Testing C Programs for Buffer Overflow Vulnerabilities Eric Dean Haugh,2002

## **Managing the Buffer Overflow Attack in Network and Operating System Detecting and Preventing Techniques**

P. Vadivelmurugan,2023-02-20 The book examines methods for identifying and thwarting buffer overflow attacks in operating systems and networks Operating Systems William Stallings,2009 For a one semester undergraduate course in operating systems for computer science computer engineering and electrical engineering majors Winner of the 2009 Textbook Excellence Award from the Text and Academic Authors Association TAA Operating Systems Internals and Design Principles is a comprehensive and unified introduction to operating systems By using several innovative tools Stallings makes it possible to understand critical core 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 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

A Hybrid Method of Defense Against Buffer Overflow Attacks Annapurna Dasari,2005 Führer durch das Ostseebad Sassnitz Mitglied des Verbandes der Pommerschen Ostseebäder ,1897 Hack Attacks Denied John Chirillo,2002-09-23 Arms you with the necessary security steps from the system to the daemon concluding with an effective security policy Contains over 170 new countermeasures patching the top 75 hack attacks for Unix and Windows cleanup and prevention of malicious code and a full suite single license version of TigerSurf 2 0 security software Hacking Exposed 7 : Network Security Secrets & Solutions, Seventh Edition Stuart McClure,Joel Scambray,George Kurtz,2012-07-11 The latest tactics for thwarting digital attacks Our new reality is zero day APT and state sponsored attacks Today more than ever security professionals need to get into the hacker s mind methods and toolbox to successfully deter such relentless assaults This edition brings readers abreast with the latest attack vectors and arms them for these continually evolving threats Brett Wahlin CSO Sony Network Entertainment Stop taking punches let s change the game it s time for a paradigm shift in the way we secure our networks and Hacking Exposed 7 is the playbook for bringing pain to our adversaries Shawn Henry former Executive Assistant Director FBI Bolster your system s security and defeat the tools and tactics of cyber criminals with expert advice and defense strategies from the world renowned Hacking Exposed team Case studies expose the hacker s latest devious methods and illustrate field tested remedies Find out how to block infrastructure hacks minimize advanced persistent threats neutralize malicious code secure web and database applications and fortify UNIX networks Hacking Exposed 7 Network Security Secrets Solutions contains all new visual maps and a comprehensive countermeasures cookbook Obstruct APTs and web based meta exploits Defend against UNIX based root access and buffer overflow hacks Block SQL

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