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Linux Kernel Exploitation

Some exploitation methods and techniques are outdated and don't work anymore on newer kernels.

Pull requests are welcome.

Books

2012: ["A Guide to Kernel Exploitation: Attacking the Core"](#) by Enrico Perla and Massimiliano Oldani

Exploitation techniques

2018: ["Linux-Kernel-Exploit Stack Smashing"](#) [article]

2018, HitB: ["Mirror Mirror: Rooting Android 8 with a Kernel Space Mirroring Attack"](#) by Wang Yong [slides]

2018, BlackHat: ["KSMA: Breaking Android kernel isolation and Rooting with ARM MMU features"](#) by Wang Yong [slides]

2018, OffensiveCon: ["Concolic Testing for Kernel Fuzzing and Vulnerability Discovery"](#) by Vitaly Nikolenko [video]

2018: ["Still Hammerable and Exploitable: on the Effectiveness of Software-only Physical Kernel Isolation"](#) [paper]

2017: ["KERNELFAULT: Pwning Linux using Hardware Fault Injection"](#) by Niek Timmers and Cristofaro Mune [video]

2017: ["Escalating Privileges in Linux using Fault Injection"](#) by Niek Timmers and Cristofaro Mune [slides]

2017: ["Escalating Privileges in Linux using Fault Injection" by Niek Timmers and Cristofaro Mune](#) [whitepaper]

2017: ["Kernel Driver mmap Handler Exploitation" by Mateusz Fruba](#) [whitepaper]

2017: ["Linux kernel addr_limit bug / exploitation" by Vitaly Nikolenko](#) [video]

2017: ["The Stack Clash" by Qualys Research Team](#) [article]

2017: ["New Reliable Android Kernel Root Exploitation Techniques"](#) [slides]

2017: ["Unleashing Use-Before-Initialization Vulnerabilities in the Linux Kernel Using Targeted Stack Spraying"](#) [whitepaper]

2017: ["Breaking KASLR with perf" by Lizzie Dixon](#) [article]

2016: ["Getting Physical Extreme abuse of Intel based Paging Systems" by Nicolas Economou and Enrique Nissim](#) [slides]

2016: ["Linux Kernel ROP - Ropping your way to # \(Part 1\)" by Vitaly Nikolenko](#) [article]

2016: ["Linux Kernel ROP - Ropping your way to # \(Part 2\)" by Vitaly Nikolenko](#) [article]

2016, Ruxcon: ["Exploiting COF Vulnerabilities in the Linux kernel" by Vitaly Nikolenko](#) [slides]

2016: ["Using userfaultfd" by Lizzie Dixon](#) [article]

2016, DEF CON 24: ["Direct Memory Attack the Kernel" by Ulf Frisk](#) [video]

2016, MOSEC 2016: ["Talk is cheap, show me the code" by Keen Lab](#) [slides]

2015: ["Kernel Data Attack is a Realistic Security Threat"](#) [whitepaper]

2015: ["From Collision To Exploitation: Unleashing Use-After-Free Vulnerabilities in Linux Kernel"](#) [whitepaper]

2015: ["Linux Kernel Exploitation" by Patrick Biernat](#) [slides]

2014: "Writing kernel exploits" by Keegan McAllister [slides]

2013: "Kernel stack overflows (basics)" by Essa Alkuwari [article]

2013, Black Hat USA: "Hacking like in the Movies: Visualizing Page Tables for Local Exploitation"

2013: "Exploiting linux kernel heap corruptions" by Mohamed Channam [article]

2012: "Understanding Linux Kernel Vulnerabilities" by Richard Carback [slides]

2012: "A Heap of Trouble: Breaking the Linux Kernel SLOB Allocator" by Dan Rosenberg [whitepaper]

2012: "Attacking hardened Linux systems with kernel JIT spraying" by Keegan McAllister [article]

2012: "The Linux kernel memory allocators from an exploitation perspective" by Patroklos Argyroudis [article]

2011: "Stackjacking Your Way to grsec/PaX Bypass" by Jon Oberheide [article]

2010: "Much ado about NULL: Exploiting a kernel NULL dereference" [article]

2010: "Exploiting Stack Overflows in the Linux Kernel" by Jon Oberheide [article]

2010, SOURCE Boston: "Linux Kernel Exploitation: Earning Its Pwnie a Vuln at a Time" by Jon Oberheide [slides]

2009, CanSecWest: "There's a party at ring0, and you're invited" by Tavis Ormandy and Julien Tinnes [slides]

2007: "Kernel-mode exploits primer" by Sylvester Keil and Clemens Kolbitsch [whitepaper]

2007, Phrack: "Attacking the Core : Kernel Exploiting Notes" [article]

2007: "The story of exploiting kmalloc() overflows" [article]

2005, CancSecWest: "Large memory management vulnerabilities" by Gael Delalleau [slides]

2005: ["The story of exploiting kmalloc\(\) overflows"](#) [article]

Writeups

Information leak

2017: ["Linux kernel 2.6.0 to 4.12-rc4 infoleak due to a data race in ALSA timer" by Alexander Potapenko](#) [announcement, CVE-2017-1000380]

2017: ["The Infoleak that \(Mostly\) Wasn't" by Brad Spengler](#) [article, CVE-2017-7616]

2016: ["Exploiting a Linux Kernel Infoleak to bypass Linux kASLR"](#) [article]

2010: ["Linux Kernel pktcdvd Memory Disclosure" by Jon Oberheide](#) [article, CVE-2010-3437]

2009: ["Linux Kernel x86-64 Register Leak" by Jon Oberheide](#) [article, CVE-2009-2910]

2009: ["Linux Kernel getname\(\) Stack Memory Disclosures" by Jon Oberheide](#) [article, CVE-2009-3001]

LPE

2018: ["MMap Vulnerabilities – Linux Kernel"](#) [article, CVE-2018-8781]

2018: ["Ubuntu kernel eBPF 0day analysis"](#) [article, CVE-2017-16995]

2017: ["Adapting the POC for CVE-2017-1000112 to Other Kernels"](#) [article, CVE-2017-1000112]

2017: ["The Art of Exploiting Unconventional Use-after-free Bugs in Android Kernel" by Di Shen](#) [slides, CVE-2017-0403, CVE-2016-6787]

2017: ["Exploiting CVE-2017-5123 with full protections. SMEP, SMAP, and the Chrome Sandbox!" by Chris Salls](#) [article, CVE-2017-5123]

2017: ["Exploiting CVE-2017-5123" by Federico Bento](#) [article, CVE-2017-5123]

2017: ["Escaping Docker container using waitid\(\) – CVE-2017-5123" by Daniel Shapira](#) [article, CVE-2017-5123]

2017: ["Exploiting on CVE-2016-6787"](#) [article, CVE-2016-6787]

2017: ["Race For Root: The Analysis Of The Linux Kernel Race Condition Exploit" by Alexander Popov](#) [video, CVE-2017-2636]

2017: ["Race For Root: The Analysis Of The Linux Kernel Race Condition Exploit" by Alexander Popov](#) [slides, CVE-2017-2636]

2017: ["Dirty COW and why lying is bad even if you are the Linux kernel"](#) [article, CVE-2016-5195]

2017: ["NDAY-2017-0103: Arbitrary kernel write in sys_oabi_epoll_wait" by Zuk Avraham](#) [article, CVE-2016-3857]

2017: ["NDAY-2017-0106: Elevation of Privilege in NVIDIA nvhost-vic driver" by Zuk Avraham](#) [article, CVE-2016-2434]

2017: ["PWN2OWN 2017 Linux kernel privilege escalation analysis"](#) [article, CVE-2017-7184]

2017: ["Exploiting the Linux kernel via packet sockets" by Andrey Konovalov](#) [article, CVE-2017-7308]

2017: ["NDAY-2017-0105: Elevation of Privilege Vulnerability in MSM Thermal Drive" by Zuk Avraham](#) [article, CVE-2016-2411]

2017: ["NDAY-2017-0102: Elevation of Privilege Vulnerability in NVIDIA Video Driver" by Zuk Avraham](#) [article, CVE-2016-2435]

2017: ["CVE-2017-2636: exploit the race condition in the n_hdlc Linux kernel driver bypassing SMEP" by Alexander Popov](#) [article, CVE-2017-2636]

2017: ["CVE-2017-2636: local privilege escalation flaw in n_hdlc" by Alexander Popov](#) [announcement, CVE-2017-2636]

2017: ["CVE-2017-6074: DCCP double-free vulnerability \(local root\)" by Andrey Konovalov](#) [announcement, CVE-2017-6074]

2016: ["CVE-2016-8655 Linux af_packet.c race condition \(local root\)" by Philip Pettersson](#) [announcement, CVE-2016-8655]

2016, Black Hat: ["Rooting Every Android From Extension To Exploitation" by Di Shen and James Fang](#) [slides, CVE-2015-0570, CVE-2016-0820, CVE-2016-2475, CVE-2016-8453]

2016: ["Talk is Cheap, Show Me the Code" by James Fang, Di Shen and Wen Niu](#) [slides, CVE-2015-1805]

2016: ["CVE-2016-3873: Arbitrary Kernel Write in Nexus 9" by Sagi Kedmi](#) [article, CVE-2016-3873]

2016, Project Zero: ["Exploiting Recursion in the Linux Kernel" by Jann Horn](#) [article, CVE-2016-1583]

2016: ["ANALYSIS AND EXPLOITATION OF A LINUX KERNEL VULNERABILITY \(CVE-2016-0728\)" By Perception Point Research Team](#) [article, CVE-2016-0728]

2016: ["CVE20160728 Exploit Code Explained" by Shilong Zhao](#) [article, CVE-2016-0728]

2016: ["CVE-2016-0728 vs Android" by Collin Mulliner](#) [article, CVE-2016-0728]

2016: ["Notes about CVE-2016-7117" by Lizzie Dixon](#) [article, CVE-2016-7117]

2016: ["CVE-2016-2384: exploiting a double-free in the usb-midi linux kernel driver" by Andrey Konovalov](#) [article, CVE-2016-2384]

2016: ["CVE-2016-6187: Exploiting Linux kernel heap off-by-one" by Vitaly Nikolenko](#) [article, CVE-2016-6187]

2016: "CVE-2014-2851 group_info UAF Exploitation" by Vitaly Nikolenko [article, CVE-2014-2851]

2016, HITB Ams: "Perf: From Profiling To Kernel Exploiting" by Wish Wu [slides, CVE-2016-0819]

2016, HITB Ams: "Perf: From Profiling To Kernel Exploiting" by Wish Wu [video, CVE-2016-0819]

2015: "Android linux kernel privilege escalation vulnerability and exploit (CVE-2014-4322)" by Gal Beniamini [article, CVE-2014-4322]

2015: "Exploiting "BadIRET" vulnerability" by Rafal Wojtczuk [article, CVE-2014-9322]

2015: "Follow-up on Exploiting "BadIRET" vulnerability (CVE-2014-9322)" by Adam Zabrocki [article, CVE-2014-9322]

2015, Black Hat: "Ah! Universal Android Rooting Is Back" by Wen Xu [whitepaper, CVE-2015-3636]

2015, Black Hat: "Ah! Universal Android Rooting Is Back" by Wen Xu [slides, CVE-2015-3636]

2015, Black Hat: "Ah! Universal Android Rooting Is Back" by Wen Xu [video, CVE-2015-3636]

2015: "When is something overflowing" by Keen Team [slides]

2015, Project Zero: "Exploiting the DRAM rowhammer bug to gain kernel privileges" by Mark Seaborn and Thomas Dullien [article, rowhammer]

2014: "Exploiting CVE-2014-0196 a walk-through of the Linux pty race condition PoC" by Samuel Gross [article, CVE-2014-0196]

2014: "CVE-2014-4943 - PPPoL2TP DoS Analysis" by Vitaly Nikolenko [article, CVE-2014-4943]

2014: "CVE-2014-4014: Linux Kernel Local Privilege Escalation "exploitation"" by Vitaly Nikolenko [article, CVE-2014-4014]

2014: "CVE-2014-4699: Linux Kernel ptrace/sysret vulnerability analysis" by Vitaly Nikolenko [article, CVE-2014-4699]

2014: ["How to exploit the x32 recvmsg\(\) kernel vulnerability CVE 2014-0038" by Samuel Gross](#) [article, CVE-2014-0038]

2014: ["Exploiting the Futex Bug and uncovering Towelroot" \[article, CVE-2014-3153\]](#)

2014: ["CVE-2014-3153 Exploit" by Joel Eriksson](#) [article, CVE-2014-3153]

2013: ["Privilege Escalation Kernel Exploit" by Julius Plenz](#) [article, CVE-2013-1763]

2013: ["A closer look at a recent privilege escalation bug in Linux \(CVE-2013-2094\)" by Joe Damato](#) [article, CVE-2013-2094]

2012: ["Linux Local Privilege Escalation via SUID /proc/pid/mem Write" by Jason Donenfeld](#) [article, CVE-2012-0056]

2011, DEF CON 19: ["Kernel Exploitation Via Uninitialized Stack" by Kees Cook](#) [slides, CVE-2010-2963]

2011, DEF CON 19: ["Kernel Exploitation Via Uninitialized Stack" by Kees Cook](#) [video, CVE-2010-2963]

2010: ["CVE-2010-2963 v4l compat exploit" by Kees Cook](#) [article, CVE-2010-2963]

2010: ["Exploiting large memory management vulnerabilities in Xorg server running on Linux" by Rafal Wojtczuk](#) [article, CVE-2010-2240]

2010: ["CVE-2010-4258: Turning Denial-of-service Into Privilege Escalation" by Nelson Elhage](#) [article, CVE-2010-4258]

2010: ["CVE-2007-4573: The Anatomy of a Kernel Exploit" by Nelson Elhage](#) [article, CVE-2007-4573]

2010: ["Linux Kernel CAN SLUB Overflow" by Jon Oberheide](#) [article, CVE-2010-2959]

2010: ["af_can linux kernel overflow" by Ben Hawkes](#) [article, CVE-2010-2959]

2010: ["linux compat vulns \(part 1\)" by Ben Hawkes](#) [article, CVE-2010-3081]

2010: ["linux compat vulns \(part 2\)" by Ben Hawkes](#) [article, CVE-2010-3301]

2010: ["Some Notes on CVE-2010-3081 Exploitability"](#) [article, CVE-2010-3081]

2010: ["Anatomy of an exploit: CVE-2010-3081"](#) [article, CVE-2010-3081]

2010: ["CVE-2010-4258: Turning denial-of-service into privilege escalation" by Nelson Elhage](#) [article, CVE-2010-4258]

2009: ["Linux NULL pointer dereference due to incorrect proto_ops initializations \(CVE-2009-2692\)"](#) [article, CVE-2009-2692]

2009: ["Even when one byte matters"](#) [article, CVE-2009-1046]

2009: ["CVE-2008-0009/CVE-2008-0010: Linux kernel vmsplice\(2\) Privilege Escalation"](#) [article, CVE-2008-0009, CVE-2008-0010]

2008: ["vmsplice\(\): the making of a local root exploit" by Jonathan Corbet](#) [article, CVE-2008-0600]

2004: ["Linux kernel do_mremap VMA limit local privilege escalation vulnerability"](#) [article, CVE-2004-0077]

RCE

2017: ["BlueBorn: The dangers of Bluetooth implementations: Unveiling zero day vulnerabilities and security flaws in modern Bluetooth stacks"](#) [whitepaper, CVE-2017-1000251]

2016: ["CVE Publication: CVE 2016-8633" by Eyal Itkin](#) [article, CVE-2016-8633]

2011, DEF CON 19: ["Owned Over Amateur Radio: Remote Kernel Exploitation in 2011"](#) [slides, CVE-2011-1493]

2011, DEF CON 19: ["Owned Over Amateur Radio: Remote Kernel Exploitation in 2011"](#) [video, CVE-2011-1493]

2009: ["When a "potential D.o.S." means a one-shot remote kernel exploit: the SCTP story"](#) [article, CVE-2009-0065]

Other

2017: ["initroot: Bypassing Nexus 6 Secure Boot through Kernel Command-line Injection"](#) [article, CVE-2017-1000363]

2016: ["Motorola Android Bootloader Kernel Cmdline Injection Secure Boot Bypass"](#) [article, CVE-2016-10277]

Protection bypass techniques

2016: ["Linux Kernel x86-64 bypass SMEP - KASLR - kptr_restric"](#) [article]

2016, KIWICON: ["Practical SMEP bypass techniques on Linux"](#) by Vitaly Nikolenko [slides]

2016: ["Micro architecture attacks on KASLR"](#) by Anders Fogh [article]

2016: ["Jump Over ASLR: Attacking Branch Predictors to Bypass ASLR"](#) by Dmitry Evtushkin, Dmitry Ponomarev and Nael Abu-Ghazaleh [slides]

2016, CCS: ["Prefetch Side-Channel Attacks: Bypassing SMAP and Kernel ASLR"](#) by Daniel Gruss, Clementine Maurice, Anders Fogh, Moritz Lipp and Stefan Mangard [video]

2016, Black Hat USA: ["Using Undocumented CPU Behavior to See Into Kernel Mode and Break KASLR in the Process"](#) [video]

2016, Black Hat USA: ["Breaking KASLR with Intel TSX"](#) Yeongjin Jang, Sangho Lee and Taesoo Kim [slides]

2016, Black Hat USA: ["Breaking KASLR with Intel TSX"](#) Yeongjin Jang, Sangho Lee and Taesoo Kim [video]

2016: ["Breaking KASLR with micro architecture"](#) by Anders Fogh [article]

2015: ["Effectively bypassing kptr_restrict on Android"](#) by Gal Beniamini [article]

2014, Black Hat Europe: ["ret2dir: Deconstructing Kernel Isolation"](#) by Vasileios P. Kemerlis, Michalis Polychronakis, Angelos D. Keromytis [whitepaper]

2014, Black Hat Europe: "ret2dir: Deconstructing Kernel Isolation" by Vasileios Kemerlis [video]

2013: "A Linux Memory Trick" by Dan Rosenberg [article]

2011: "SMEP: What is It, and How to Beat It on Linux" by Dan Rosenberg [article]

2009: "Bypassing Linux' NULL pointer dereference exploit prevention (mmap_min_addr)" [article]

Defensive

2018, BlackHat: "kR^X: Comprehensive Kernel Protection Against Just-In-Time Code Reuse" [video]

[2018: "KASR: A Reliable and Practical Approach to Attack Surface Reduction of Commodity OS Kernels"
(<https://arxiv.org/pdf/1802.07062.pdf>) [paper]

2018, Linux Conf AU: "The State of Kernel Self Protection" by Kees Cook [slides]

2017: "Towards Linux Kernel Memory Safety" [whitepaper]

2017: "Proposal of a Method to Prevent Privilege Escalation Attacks for Linux Kernel" [slides]

2017: "Linux Kernel Self Protection Project" by Kees Cook [slides]

2017: "PT-Rand: Practical Mitigation of Data-only Attacks against Page Tables" [whitepaper]

2017: "KASLR is Dead: Long Live KASLR" [whitepaper]

2017: "Honey, I shrunk the attack surface – Adventures in Android security hardening" by Nick Kralevich [video]

2017: "Fine Grained Control-Flow Integrity for The Linux Kernel" by Sandro Rigo, Michalis Polychronakis, Vasileios Kemerlis [slides]

2016: ["Thwarting unknown bugs: hardening features in the mainline Linux kernel"](#) by Mark Rutland [slides]

2016: ["Emerging Defense in Android Kernel"](#) by James Fang [article]

2016: ["Randomizing the Linux kernel heap freelists"](#) by Thomas Garnier [article]

2015: ["Protecting Commodity Operating Systems through Strong Kernel Isolation"](#) by Vasileios Kemerlis [whitepaper]

2014: ["Kernel Self-Protection through Quantified Attack Surface Reduction"](#) by Anil Kurmus [whitepaper]

2013: ["KASLR: An Exercise in Cargo Cult Security"](#) by Brad Spengler [article]

2012: ["How do I mitigate against NULL pointer dereference vulnerabilities?"](#) by RedHat [article]

2011: ["Linux kernel vulnerabilities: State-of-the-art defenses and open problems"](#) [paper]

2009, Phrack: ["Linux Kernel Heap Tampering Detection"](#) by Larry Highsmith [article]

Fuzzing & detectors

2018, BlackHat: ["New Compat Vulnerabilities In Linux Device Drivers"](#) [slides]

2018: ["Precise and Scalable Detection of Double-Fetch Bugs in OS Kernels"](#) [paper]

2017: ["The android vulnerability discovery in SoC"](#) by Yu Pan and Yang Dai [slides]

2017, Black Hat USA: ["Evolutionary Kernel Fuzzing"](#) by Richard Johnson [slides]

2017: ["DIFUZE: Interface Aware Fuzzing for Kernel Drivers"](#) [whitepaper]

2017: ["DIFUZE: Interface Aware Fuzzing for Kernel Drivers"](#) [slides]

2017, CCS: "SemFuzz: Semantics-based Automatic Generation of Proof-of-Concept Exploits" [whitepaper]

2017, USENIX: "kAFL: Hardware-Assisted Feedback Fuzzing for OS Kernels" [whitepaper]

2017, USENIX: "How Double-Fetch Situations turn into DoubleFetch Vulnerabilities: A Study of Double Fetches in the Linux Kernel" [whitepaper]

2017, USENIX: "DR. CHECKER: A Soundy Analysis for Linux Kernel Drivers" [whitepaper]

2016, Linux Plumbers: "Syzkaller, Future Developement" by Dmitry Vyukov [slides]

2016: "Coverage-guided kernel fuzzing with syzkaller" [article]

2016: "Filesystem Fuzzing with American Fuzzy Lop" by Vegard Nossum and Quentin Casasnovas [slides]

2016, ToorCon: "Project Triforce: AFL + QEMU + kernel = CVEs! (or) How to use AFL to fuzz arbitrary VMs" [slides]

2015, LinuxCon North America: "KernelAddressSanitizer (KASan): a fast memory error detector for the Linux kernel" by Andrey Konovalov [slides]

2015, DEF CON 23: "Introduction to USB and Fuzzing" by Matt DuHarte [video]

2015, Black Hat: "Don't Trust Your USB! How to Find Bugs in USB Device Drivers" by Sergej Schumilo, Ralf Spennberg, and Hendrik Schwartke [video]

2012: "Comprehensive Kernel Instrumentation via Dynamic Binary Translation" [whitepaper]

2010: "Automatic Bug-finding Techniques for Linux Kernel" by Jiri Slaby [whitepaper]

Fuzzers

<https://github.com/google/syzkaller>

<https://github.com/kernelslacker/trinity>

http://web.eece.maine.edu/~vweaver/projects/perf_events/fuzzer/

<https://github.com/nccgroup/TriforceLinuxSyscallFuzzer>

<https://github.com/oracle/kernel-fuzzing>

<https://github.com/rgbkrk/iknowthis>

<https://github.com/schumilo/vUSBf>

<https://github.com/ucsb-seclab/difuze>

Exploits

<https://www.exploit-db.com/search/?action=search&description=linux+kernel>

<https://github.com/offensive-security/exploit-database/tree/master/platforms/linux/local>

[https://bugs.chromium.org/p/project-zero/issues/list?](https://bugs.chromium.org/p/project-zero/issues/list?can=1&q=linux+kernel&colspec=ID+Type+Status+Priority+Milestone+Owner+Summary&cells=ids)

[can=1&q=linux+kernel&colspec=ID+Type+Status+Priority+Milestone+Owner+Summary&cells=ids](https://bugs.chromium.org/p/project-zero/issues/list?can=1&q=linux+kernel&colspec=ID+Type+Status+Priority+Milestone+Owner+Summary&cells=ids)

<http://vulnfactory.org/exploits/>

<https://www.kernel-exploits.com/>

<https://github.com/dirtycow/dirtycow.github.io/wiki/PoCs>

https://github.com/ScottyBauer/Android_Kernel_CVE_POCs

https://github.com/f47h3r/hackingteam_exploits

<https://github.com/xairy/kernel-exploits>

<https://github.com/Kabot/Unix-Privilege-Escalation-Exploits-Pack>

<https://github.com/SecWiki/linux-kernel-exploits>

<https://grsecurity.net/~spender/exploits/>

https://github.com/jiayy/android_vuln_poc-exp

https://github.com/marsyy/little_tools/tree/master/bluetooth

<https://github.com/nongiach/CVE/tree/master/CVE-2017-5123>

<http://seclists.org/fulldisclosure/2010/Sep/268>

https://github.com/hardenedlinux/offensive_poc

https://github.com/jiayy/android_vuln_poc-exp

<https://github.com/brl/grlh>

Practice

CTF tasks

CSAW CTF 2010: [writeup](#), [source](#)

CSAW CTF 2011: [writeup](#), [source](#)

CSAW CTF 2013: [writeup](#), [source](#) and [exploit](#)

CSAW CTF 2014: [source and exploit](#)

CSAW CTF 2015: [writeup 1](#), [writeup 2](#), [source and exploit](#)

Insomni'hack finals 2015: [writeup](#), [source and exploit](#)

rwth2011 CTF (ps3game): [writeup](#)

PlaidCTF 2013 (Servr): [writeup](#), [source](#)

0ctf2016: [writeup](#), [exploit](#)

0ctf2017: [source and exploit](#)

0ctf2018: [writeup 1](#), [writeup 2](#)

Tools

<https://github.com/jonoberheide/ksymhunter>

<https://github.com/jonoberheide/kstructhunter>

<https://github.com/ngalongc/AutoLocalPrivilegeEscalation>

https://github.com/PenturaLabs/Linux_Exploit_Suggester

<https://github.com/jondonas/linux-exploit-suggester-2>

<https://github.com/mzet-/linux-exploit-suggester>

<https://github.com/spencerdodd/kernelpop>

https://github.com/vnik5287/kaslr_tsx_bypass

<http://www.openwall.com/lkrg/>

<https://github.com/IAIK/meltdown>

Misc

<https://github.com/Fuzion24/AndroidKernelExploitationPlayground>

<https://github.com/ReverseLab/kernel-pwn-challenge>

<https://github.com/NoviceLive/research-rootkit>

<https://github.com/djrbliss/libplayground>

[pwnable.kr tasks](#) (syscall, rootkit, softmmu, towelroot, kcrc, exynos)

[RPISEC kernel labs](#)

<https://github.com/hackedteam>

<https://github.com/mncoppola/Linux-Kernel-CTF>

<https://crowell.github.io/blog/2014/11/24/hosting-a-local-kernel-ctf-challenge/>

<https://github.com/ukanth/afwall/wiki/Kernel-security>

<https://github.com/a13xp0p0v/linux-kernel-defence-map>

<https://github.com/kmcallister/alameda>

<https://github.com/01org/jit-spray-poc-for-ksp>

<https://forums.grsecurity.net/viewforum.php?f=7>

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