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## Kernel Live Patch Security Notice LSN-0075-1

Posted Apr 7, 2021

Piotr Krysiuk discovered that the BPF subsystem in the Linux kernel did not properly apply speculative execution limits on some pointer types. A local attacker could use this to expose sensitive information (kernel memory). It was discovered that the memory management subsystem in the Linux kernel did not properly handle copy-on-write operations in some situations. A local attacker could possibly use this to gain unintended write access to read-only memory pages. Various other issues were also addressed.

tags | advisory, kernel, local

systems | linux

advisories | CVE-2020-27170, CVE-2020-27171, CVE-2020-29372, CVE-2020-29374, CVE-2021-27363, CVE-2021-27364, CVE-2021-27365 CVE-2021-3444

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TWO Change Mirror Download Linux kernel vulnerabilities A security issue affects these releases of Ubuntu and its derivatives: Ubuntu 18.04 LTS Ubuntu 20.04 LTS Ubuntu 16.04 LTS Ubuntu 14.04 ESM Several security issues were fixed in the kernel. linux - Linux kernel for Amazon Web Services (AWS) systems linux-avus - Linux kernel for Microsoft Azure Cloud systems linux-gcp - Linux kernel for Google Cloud Platform (GCF) systems linux-gcp - Linux kernel for Google Container Engine (GKE) systems linux-gkeop - Linux kernel for Google Container Engine (GKE) systems linux-gkeop - Linux kernel for Google Container Engine (GKE) systems linux-come - Linux kernel for GOOgle Container Engine (GKE) systems Piotr Krysiuk discovered that the BPF subsystem in the Linux kernel did not properly apply speculative execution limits on some pointer types. A local attacker could use this to expose sensitive information (kernel memory). (CVE-2020-27170) Piotr Krysiuk discovered that the BPF subsystem in the Linux kernel did not properly compute a speculative execution limit on pointer arithmeti in some situations. A local attacker could use this to expose sensitive information (kernel memory). (CVE-2020-27171) Jann Horn discovered that a race condition existed in the madvise implementation in the Linux kernel, leading to a use-after-free vulnerability. A local attacker could use this to cause a denial of service (system crash). (CVE-2020-29372) It was discovered that the memory management subsystem in the Linux kernel did not properly handle copy-on-write operations in some situations. A local attacker could possibly use this to gain unintended write access to read-only memory pages. (CVE-2020-23374)

De4dCrOw of 360 Alpha Lab discovered that the BPF verifier in the Linux kernel did not properly handle mod32 destination register truncation when the source register was known to be 0. A local attacker could use this to expose sensitive information (kernel memory) or possibly execute arbitrary code. (CVE-2021-3444)

Adam Nichols discovered that the iSCSI subsystem in the Linux kernel did not properly restrict access to iSCSI transport handles. A local attacker could use this to cause a denial of service or expose sensitive information (kernel pointer addresses). (CVE-2021-27363)

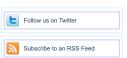
Adam Nichols discovered that an out-of-bounds read existed in the ISCSI subsystem in the Linux kernel. A local attacker could use this to cause a denial of service (system crash) or expose sensitive information (kernel memory). (CVE-2021-27364)

Adam Nichols discovered that heap overflows existed in the iSCSI subsystem in the Linux kernel. A local attacker could use this to cause a denial of service (system crash) or possibly execute arbitrary code. (CVE-2021-27365)

Update instructions

The problem can be corrected by updating your kernel livepatch to the following versions:

Ubuntu 18.04 LTS aws - 75.2 aws - 75.2 generic - 75.2 gke - 75.2 gkeop - 75.2 lowlatency - 75.2 oem - 75.2 buntu 20.04 LTS ntu 20.04 LTS aws - 75.2 azure - 75.2 gcp - 75.2 generic - 75.2 gke - 75.2 gkeop - 75.2 lowlatency - 75.2 aws - 75.3 azure - 75.2 generic - 75.3 lowlatency - 75.3 ountu 14.04 ESM generic - 75.3 lowlatency - 75.3 upport Information Jbuntu 20.04 LTS linux-aws - 5.4.0-1009



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Java (2,899)	CentOS (55)	
JavaScript (821)	Cisco (1,917)	
Kernel (6,291)	Debian (6,634)	
Local (14,201)	Fedora (1,690)	
Magazine (586)	FreeBSD (1,242)	
Overflow (12,419)	Gentoo (4,272)	
Perl (1,418)	HPUX (878)	
PHP (5,093)	iOS (330)	
Proof of Concept (2,291)	iPhone (108)	
Protocol (3,435)	IRIX (220)	
Python (1,467)	Juniper (67)	
Remote (30,044)	Linux (44,315)	
Root (3,504)	Mac OS X (684)	
Ruby (594)	Mandriva (3,105)	
Scanner (1,631)	NetBSD (255)	
Security Tool (7,777)	OpenBSD (479)	
Shell (3,103)	RedHat (12,469)	
Shellcode (1,204)	Slackware (941)	
Sniffer (886)	Solaris (1,607)	
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linux-azure - 5.4.0-1010
linux-gcp - 5.4.0-1009
linux-gke - 5.4.0-1033
linux-gke - 5.4.0-1033
linux-oem - 5.4.0-26
linux - 5.4.0-26
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Ubuntu 14.04 ESM
linux-lts-xenial - 4.4.0-168
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                                                                                                                                                   Whitepaper (3,729)
References
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