CVE-2021-3656

MITRE | NVD | CVE.ORG | Print: PDF

Summary

CVE	CVE-2021-3656
State	PUBLIC
Assigner	secalert@redhat.com
Source Priority	CVE Program / NVD first with legacy fallback
Published	2022-03-04 19:15:00 UTC
Updated	2023-01-19 15:53:00 UTC
Description	A flaw was found in the KVM's AMD code for supporting SVM nested virtualization. The flaw occurs when processing the V

Risk And Classification

Problem Types: CWE-862

NVD Known Affected Configurations (CPE 2.3)

Type	Vendor	Product	Version	Update
Operating System	Fedoraproject	Fedora	33	All
Operating System	Fedoraproject	Fedora	34	All
Operating System	Linux	Linux Kernel	All	All
Operating System	Linux	Linux Kernel	5.14	-
Operating System	Linux	Linux Kernel	5.14	rc1
Operating System	Linux	Linux Kernel	5.14	rc2
Operating System	Linux	Linux Kernel	5.14	rc3
Operating System	Linux	Linux Kernel	5.14	rc4
Operating System	Linux	Linux Kernel	5.14	rc5
Operating System	Linux	Linux Kernel	5.14	rc6
Application	Redhat	3scale Api Management	2.0	All
Application	Redhat	Codeready Linux Builder	-	All
Operating System	Redhat	Enterprise Linux	7.0	All
Operating System	Redhat	Enterprise Linux	8.0	All
Operating System	Redhat	Enterprise Linux	8.0	All
Operating System	Redhat	Enterprise Linux Desktop	7.0	All
Operating System	Redhat	Enterprise Linux Eus	8.1	All

Operating System	Redhat	Enterprise Linux Eus	8.2	All
Operating System	Redhat	Enterprise Linux Eus	8.4	All
Operating System	Redhat	Enterprise Linux Eus	8.1	All
Operating System	Redhat	Enterprise Linux Eus	8.2	All
Operating System	Redhat	Enterprise Linux Eus	8.4	All
Operating System	Redhat	Enterprise Linux For Ibm Z Systems	7.0	All
Operating System	Redhat	Enterprise Linux For Ibm Z Systems	8.0	All
Operating System	Redhat	Enterprise Linux For Ibm Z Systems Eus	8.1	All
Operating System	Redhat	Enterprise Linux For Ibm Z Systems Eus	8.2	All
Operating System	Redhat	Enterprise Linux For Ibm Z Systems Eus	8.4	All
Operating System	Redhat	Enterprise Linux For Power Big Endian	7.0	All
Operating System	Redhat	Enterprise Linux For Power Little Endian	8.0	All
Operating System	Redhat	Enterprise Linux For Power Little Endian	7.0	All
Operating System	Redhat	Enterprise Linux For Power Little Endian	8.0	All
Operating System	Redhat	Enterprise Linux For Power Little Endian Eus	8.1	All
Operating System	Redhat	Enterprise Linux For Power Little Endian Eus	8.2	All
Operating System	Redhat	Enterprise Linux For Power Little Endian Eus	8.4	All
Operating System	Redhat	Enterprise Linux For Power Little Endian Eus	8.1	All
Operating System	Redhat	Enterprise Linux For Power Little Endian Eus	8.2	All
Operating System	Redhat	Enterprise Linux For Power Little Endian Eus	8.4	All
Operating System	Redhat	Enterprise Linux For Real Time	7	All
Operating System	Redhat	Enterprise Linux For Real Time	8	All
Operating System	Redhat	Enterprise Linux For Real Time For Nfv	7	All
Operating System	Redhat	Enterprise Linux For Real Time For Nfv	8	All
Operating System	Redhat	Enterprise Linux For Real Time For Nfv Tus	8.2	All
Operating System	Redhat	Enterprise Linux For Real Time For Nfv Tus	8.4	All
Operating System	Redhat	Enterprise Linux For Real Time Tus	8.2	All
Operating System	Redhat	Enterprise Linux For Real Time Tus	8.4	All
Operating System	Redhat	Enterprise Linux For Scientific Computing	7.0	All
Operating System	Redhat	Enterprise Linux Server	7.0	All
Operating System	Redhat	Enterprise Linux Server	7.0	All
Operating System	Redhat	Enterprise Linux Server Aus	7.6	All
Operating System	Redhat	Enterprise Linux Server Aus	7.7	All
Operating System	Redhat	Enterprise Linux Server Aus	8.2	All
Operating System	Redhat	Enterprise Linux Server Aus	8.4	All

Operating System	Redhat	Enterprise Linux Server For Power Little Endian Update Services For Sap Solutions	7.6	All
Operating System	Redhat	Enterprise Linux Server For Power Little Endian Update Services For Sap Solutions	8.1	All
Operating System	Redhat	Enterprise Linux Server For Power Little Endian Update Services For Sap Solutions	8.2	All
Operating System	Redhat	Enterprise Linux Server For Power Little Endian Update Services For Sap Solutions	8.4	All
Operating System	Redhat	Enterprise Linux Server Tus	7.6	All
Operating System	Redhat	Enterprise Linux Server Tus	7.7	All
Operating System	Redhat	Enterprise Linux Server Tus	8.2	All
Operating System	Redhat	Enterprise Linux Server Tus	8.4	All
Operating System	Redhat	Enterprise Linux Server Update Services For Sap Solutions	7.6	All
Operating System	Redhat	Enterprise Linux Server Update Services For Sap Solutions	7.7	All
Operating System	Redhat	Enterprise Linux Server Update Services For Sap Solutions	8.1	All
Operating System	Redhat	Enterprise Linux Server Update Services For Sap Solutions	8.2	All
Operating System	Redhat	Enterprise Linux Server Update Services For Sap Solutions	8.4	All
Operating System	Redhat	Enterprise Linux Workstation	7.0	All
Application	Redhat	Openstack	13	All
Application	Redhat	Software Collections	-	All
Application	Redhat	Virtualization Host	4.0	All

References

Reference	Source	Link
1983988 – (CVE-2021-3656) CVE-2021-3656 kernel: SVM nested virtualization issue in KVM (VMLOAD/VMSAVE)	MISC	bugzilla.r
oss-security - [CVE-2021-3653, CVE-2021-3656] SVM nested virtualization issues in KVM	MISC	www.ope
KVM: nSVM: always intercept VMLOAD/VMSAVE when nested (CVE-2021-3656) · torvalds/linux@c7dfa40 · GitHub	MISC	github.co
kvm/kvm.git - kernel-based virtual machine - kvm	MISC	git.kernel
CVE Program record	CVE.ORG	www.cve.
NVD vulnerability detail	NVD	nvd.nist.g

No vendor comments have been submitted for this CVE.

Legacy QID Mappings

159364 Oracle Enterprise Linux Security Update for Unbreakable Enterprise kernel (ELSA-2021-9419)

159365 Oracle Enterprise Linux Security Update for Unbreakable Enterprise kernel (ELSA-2021-9420)

159366 Oracle Enterprise Linux Security Update for Unbreakable Enterprise kernel-container (ELSA-2021-9421)

159367 Oracle Enterprise Linux Security Update for Unbreakable Enterprise kernel-container (ELSA-2021-9422)

159393 Oracle Enterprise Linux Security Update for Unbreakable Enterprise kernel (ELSA-2021-9450)

159394 Oracle Enterprise Linux Security Update for Unbreakable Enterprise kernel-container (ELSA-2021-9451)

159399 Oracle Enterprise Linux Security Update for Unbreakable Enterprise kernel (ELSA-2021-9452)

159400 Oracle Enterprise Linux Security Update for Unbreakable Enterprise kernel-container (ELSA-2021-9453)

159415 Oracle Enterprise Linux Security Update for kernel (ELSA-2021-3801)

159443 Oracle Enterprise Linux Security Update for kernel (ELSA-2021-4056)

159564 Oracle Enterprise Linux Security Update for Unbreakable Enterprise kernel (ELSA-2021-9564)

159565 Oracle Enterprise Linux Security Update for Unbreakable Enterprise kernel-container (ELSA-2021-9565)

159727 Oracle Enterprise Linux Security Update for unbreakable enterprise kernel-container (ELSA-2022-9245)

159729 Oracle Enterprise Linux Security Update for unbreakable enterprise kernel (ELSA-2022-9244)

178809 Debian Security Update for linux (DSA 4978-1)

178844 Debian Security Update for linux-4.19 (DLA 2785-1)

180048 Debian Security Update for linux (CVE-2021-3656)

198487 Ubuntu Security Notification for Linux kernel Vulnerabilities (USN-5071-1)

198491 Ubuntu Security Notification for Linux kernel Vulnerabilities (USN-5070-1)

198495 Ubuntu Security Notification for Linux kernel Vulnerabilities (USN-5072-1)

198497 Ubuntu Security Notification for Linux kernel Vulnerabilities (USN-5073-1)

198502 Ubuntu Security Notification for Linux kernel (HWE) Vulnerabilities (USN-5071-2)

198504 Ubuntu Security Notification for Linux kernel (OEM) Vulnerabilities (USN-5082-1)

198506 Ubuntu Security Notification for Linux kernel (GCP) Vulnerabilities (USN-5073-2)

239656 Red Hat Update for kernel (RHSA-2021:3676)

239675 Red Hat Update for kernel-rt (RHSA-2021:3802)

239676 Red Hat Update for kernel (RHSA-2021:3801)

239689 Red Hat Update for kernel-rt (RHSA-2021:3909)

239691 Red Hat Update for kernel (RHSA-2021:3904)

239762 Red Hat Update for kernel-rt (RHSA-2021:4088)

239771 Red Hat Update for kernel security (RHSA-2021:4056)

257119 CentOS Security Update for kernel (CESA-2021:3801)

281837 Fedora Security Update for kernel (FEDORA-2021-a424256622)

281838 Fedora Security Update for kernel (FEDORA-2021-33819e6b09)

352839 Amazon Linux Security Advisory for kernel: ALAS2-2021-1704

353155 Amazon Linux Security Advisory for kernel : ALAS2KERNEL-5.10-2022-005

356186 Amazon Linux Security Advisory for microvm-kernel : ALASMICROVM-KERNEL-4.14-2023-003

356218 Amazon Linux Security Advisory for microvm-kernel : ALASMICROVM-KERNEL-4.14-2023-002

6140281 AWS Bottlerocket Security Update for kernel (GHSA-9gv2-fc96-xqcj)

671137 EulerOS Security Update for kernel (EulerOS-SA-2021-2713)

751137 OpenSUSE Security Update for the Linux Kernel (openSUSE-SU-2021:1271-1)

751155 SUSE Enterprise Linux Security Update for the Linux Kernel (SUSE-SU-2021:3192-1)

751160 OpenSUSE Security Update for the Linux Kernel (openSUSE-SU-2021:3179-1)

751163 SUSE Enterprise Linux Security Update for the Linux Kernel (SUSE-SU-2021:3206-1)

751170 OpenSUSE Security Update for the Linux Kernel (openSUSE-SU-2021:3205-1)

751437 SUSE Enterprise Linux Security Update for the Linux Kernel (SUSE-SU-2021:3876-1)

751441 OpenSUSE Security Update for the Linux Kernel (openSUSE-SU-2021:3876-1)

751473 SUSE Enterprise Linux Security Update for the Linux Kernel (SUSE-SU-2021:3969-1)

751476 SUSE Enterprise Linux Security Update for the Linux Kernel (SUSE-SU-2021:3972-1)

900729 Common Base Linux Mariner (CBL-Mariner) Security Update for kernel (8878)

905818 Common Base Linux Mariner (CBL-Mariner) Security Update for kernel (8878-1)

940068 AlmaLinux Security Update for kernel (ALSA-2021:4056)

960019 Rocky Linux Security Update for kernel-rt (RLSA-2021:4088)

960061 Rocky Linux Security Update for kernel (RLSA-2021:4056)