



# CVE-2020-15705

[MITRE](#)[NVD](#)[CVE.ORG](#)[Print: PDF](#)

## Summary

<b>CVE</b>	CVE-2020-15705
<b>State</b>	PUBLIC
<b>Assigner</b>	security@ubuntu.com
<b>Source Priority</b>	CVE Program / NVD first with legacy fallback
<b>Published</b>	2020-07-29 18:15:00 UTC
<b>Updated</b>	2022-04-18 15:22:00 UTC
<b>Description</b>	GRUB2 fails to validate kernel signature when booted directly without shim, allowing secure boot to be bypassed. This only

## Risk And Classification

**Problem Types:** CWE-347

## NVD Known Affected Configurations (CPE 2.3)

Type	Vendor	Product	Version	Update	Edition	Language
Operating System	<a href="#">Canonical</a>	<a href="#">Ubuntu Linux</a>	14.04	All	All	All
Operating System	<a href="#">Canonical</a>	<a href="#">Ubuntu Linux</a>	16.04	All	All	All
Operating System	<a href="#">Canonical</a>	<a href="#">Ubuntu Linux</a>	18.04	All	All	All
Operating System	<a href="#">Canonical</a>	<a href="#">Ubuntu Linux</a>	20.04	All	All	All
Operating System	<a href="#">Canonical</a>	<a href="#">Ubuntu Linux</a>	14.04	All	All	All
Operating System	<a href="#">Canonical</a>	<a href="#">Ubuntu Linux</a>	16.04	All	All	All
Operating System	<a href="#">Canonical</a>	<a href="#">Ubuntu Linux</a>	18.04	All	All	All
Operating System	<a href="#">Canonical</a>	<a href="#">Ubuntu Linux</a>	20.04	All	All	All
Operating System	<a href="#">Debian</a>	<a href="#">Debian Linux</a>	10.0	All	All	All
Operating System	<a href="#">Debian</a>	<a href="#">Debian Linux</a>	10.0	All	All	All
Application	<a href="#">Gnu</a>	<a href="#">Grub2</a>	All	All	All	All
Operating System	<a href="#">Microsoft</a>	<a href="#">Windows 10</a>	-	All	All	All
Operating System	<a href="#">Microsoft</a>	<a href="#">Windows 10</a>	1607	All	All	All
Operating System	<a href="#">Microsoft</a>	<a href="#">Windows 10</a>	1709	All	All	All
Operating System	<a href="#">Microsoft</a>	<a href="#">Windows 10</a>	1803	All	All	All
Operating System	<a href="#">Microsoft</a>	<a href="#">Windows 10</a>	1809	All	All	All
Operating System	<a href="#">Microsoft</a>	<a href="#">Windows 10</a>	1903	All	All	All

Operating System	Microsoft	Windows 10	1909	All	All	All
Operating System	Microsoft	Windows 10	2004	All	All	All
Operating System	Microsoft	Windows 10	-	All	All	All
Operating System	Microsoft	Windows 10	1607	All	All	All
Operating System	Microsoft	Windows 10	1709	All	All	All
Operating System	Microsoft	Windows 10	1803	All	All	All
Operating System	Microsoft	Windows 10	1809	All	All	All
Operating System	Microsoft	Windows 10	1903	All	All	All
Operating System	Microsoft	Windows 10	1909	All	All	All
Operating System	Microsoft	Windows 10	2004	All	All	All
Operating System	Microsoft	Windows 8.1	-	All	All	All
Operating System	Microsoft	Windows 8.1	-	All	All	All
Operating System	Microsoft	Windows Rt 8.1	-	All	All	All
Operating System	Microsoft	Windows Rt 8.1	-	All	All	All
Operating System	Microsoft	Windows Server 2012	-	All	All	All
Operating System	Microsoft	Windows Server 2012	r2	All	All	All
Operating System	Microsoft	Windows Server 2012	-	All	All	All
Operating System	Microsoft	Windows Server 2012	r2	All	All	All
Operating System	Microsoft	Windows Server 2016	-	All	All	All
Operating System	Microsoft	Windows Server 2016	1903	All	All	All
Operating System	Microsoft	Windows Server 2016	1909	All	All	All
Operating System	Microsoft	Windows Server 2016	2004	All	All	All
Operating System	Microsoft	Windows Server 2016	-	All	All	All
Operating System	Microsoft	Windows Server 2016	1903	All	All	All
Operating System	Microsoft	Windows Server 2016	1909	All	All	All
Operating System	Microsoft	Windows Server 2016	2004	All	All	All
Operating System	Microsoft	Windows Server 2019	-	All	All	All
Operating System	Microsoft	Windows Server 2019	-	All	All	All
Operating System	Opensuse	Leap	15.1	All	All	All
Operating System	Opensuse	Leap	15.2	All	All	All
Operating System	Redhat	Enterprise Linux	7.0	All	All	All
Operating System	Redhat	Enterprise Linux	8.0	All	All	All
Operating System	Redhat	Enterprise Linux	7.0	All	All	All
Operating System	Redhat	Enterprise Linux	8.0	All	All	All
Application	Redhat	Enterprise Linux Atomic Host	-	All	All	All

Application	Redhat	Enterprise Linux Atomic Host	-	All	All	All
Application	Redhat	Openshift Container Platform	4.0	All	All	All
Application	Redhat	Openshift Container Platform	4.0	All	All	All
Operating System	Suse	Suse Linux Enterprise Server	11	All	All	All
Operating System	Suse	Suse Linux Enterprise Server	12	All	All	All
Operating System	Suse	Suse Linux Enterprise Server	15	All	All	All
Operating System	Suse	Suse Linux Enterprise Server	11	All	All	All
Operating System	Suse	Suse Linux Enterprise Server	12	All	All	All
Operating System	Suse	Suse Linux Enterprise Server	15	All	All	All

## References

Reference	Source	Link	Tag
oss-security - multiple secure boot grub2 and linux kernel vulnerabilities	MLIST	<a href="http://www.openwall.com">www.openwall.com</a>	Mail
oss-security - multiple secure boot grub2 and linux kernel vulnerabilities	CONFIRM	<a href="http://www.openwall.com">www.openwall.com</a>	Mail
oss-security - Re: Containers-optimized OS (COS) membership in the linux-distros list	MLIST	<a href="http://www.openwall.com">www.openwall.com</a>	
[SECURITY PATCH 00/28] Multiple GRUB2 vulnerabilities - BootHole	CONFIRM	<a href="https://lists.gnu.org">lists.gnu.org</a>	Issu
Security Vulnerability: "Boothole" grub2 UEFI secure boot lockdown bypass   Support   SUSE	SUSE	<a href="http://www.suse.com">www.suse.com</a>	Thir
SecurityTeam/KnowledgeBase/GRUB2SecureBootBypass - Ubuntu Wiki	UBUNTU	<a href="http://wiki.ubuntu.com">wiki.ubuntu.com</a>	Thir
July 2020 Grub2 Vulnerabilities in NetApp Products   NetApp Product Security	CONFIRM	<a href="http://security.netapp.com">security.netapp.com</a>	Thir
oss-security - Re: Containers-optimized OS (COS) membership in the linux-distros list	MLIST	<a href="http://www.openwall.com">www.openwall.com</a>	
[security-announce] openSUSE-SU-2020:1282-1: important: Security update	SUSE	<a href="https://lists.opensuse.org">lists.opensuse.org</a>	Mail
portal.msrc.microsoft.com/en-US/security-guidance/advisory/ADV200011	CONFIRM	<a href="http://portal.msrc.microsoft.com">portal.msrc.microsoft.com</a>	Patc
SUSE addresses BootHole security exposure - SUSE Communities	SUSE	<a href="http://www.suse.com">www.suse.com</a>	Thir
[security-announce] openSUSE-SU-2020:1280-1: important: Security update	SUSE	<a href="https://lists.opensuse.org">lists.opensuse.org</a>	Mail
Debian -- GRUB2 UEFI SecureBoot vulnerability - 'BootHole'	DEBIAN	<a href="http://www.debian.org">www.debian.org</a>	Thir
GRUB: Multiple vulnerabilities (GLSA 202104-05) — Gentoo security	GENTOO	<a href="http://security.gentoo.org">security.gentoo.org</a>	
USN-4432-1: GRUB 2 vulnerabilities   Ubuntu security notices   Ubuntu	UBUNTU	<a href="http://usn.ubuntu.com">usn.ubuntu.com</a>	Thir
Boot Hole Vulnerability - GRUB 2 boot loader - CVE-2020-10713 - Red Hat Customer Portal	REDHAT	<a href="http://access.redhat.com">access.redhat.com</a>	Thir
USN-4432-1: GRUB 2 vulnerabilities   Ubuntu security notices   Ubuntu	UBUNTU	<a href="http://ubuntu.com">ubuntu.com</a>	Thir
oss-security - Containers-optimized OS (COS) membership in the linux-distros list	MLIST	<a href="http://www.openwall.com">www.openwall.com</a>	
oss-security - Multiple GRUB2 vulnerabilities	MLIST	<a href="http://www.openwall.com">www.openwall.com</a>	Mail
There's a Hole in the Boot - Eclipsium	CONFIRM	<a href="http://www.eclipsium.com">www.eclipsium.com</a>	Thir
CVE Program record	CVE.ORG	<a href="http://www.cve.org">www.cve.org</a>	canc
NVD vulnerability detail	NVD	<a href="http://nvd.nist.gov">nvd.nist.gov</a>	canc

Discovery Credit

**LEGACY:** Mathieu Trudel-Lapierre

#### Legacy QID Mappings

[377345](#) Alibaba Cloud Linux Security Update for grub2 (ALINUX3-SA-2022:0064)

[377367](#) Alibaba Cloud Linux Security Update for grub2 (ALINUX3-SA-2021:0026)

[377533](#) Alibaba Cloud Linux Security Update for grub2 (ALINUX2-SA-2020:0108)

[502730](#) Alpine Linux Security Update for grub

[671199](#) EulerOS Security Update for grub2 (EulerOS-SA-2022-1008)

[671200](#) EulerOS Security Update for grub2 (EulerOS-SA-2022-1028)

[671256](#) EulerOS Security Update for grub2 (EulerOS-SA-2022-1194)

[710015](#) Gentoo Linux GRUB Multiple Vulnerabilities (GLSA 202104-05)

[900208](#) CBL-Mariner Linux Security Update for grub2 2.02

[903497](#) Common Base Linux Mariner (CBL-Mariner) Security Update for grub2 (1827)

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