



# CVE-2022-2588

[MITRE](#)[NVD](#)[CVE.ORG](#)[Print: PDF !\[\]\(e3f8612927870f2e0f9f5989e6dd3064\_img.jpg\)](#)

## Summary

<b>CVE</b>	CVE-2022-2588
<b>State</b>	RESERVED
<b>Assigner</b>	cve@mitre.org
<b>Source Priority</b>	CVE Program / NVD first with legacy fallback
<b>Published</b>	2024-01-08 18:15:00 UTC
<b>Updated</b>	2024-01-12 16:47:00 UTC
<b>Description</b>	** RESERVED ** This candidate has been reserved by an organization or individual that will use it when announcing a new

## Risk And Classification

**Problem Types: CWE-415**

## 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>	22.04	All	All	All
Operating System	<a href="#">Linux</a>	<a href="#">Linux Kernel</a>	All	All	All	All

## References

Reference	Source	Link	Tags
GitHub - Markakd/CVE-2022-2588: exploit for CVE-2022-2588		<a href="#">github.com</a>	Exploit
USN-5560-2: Linux kernel vulnerabilities   Ubuntu security notices   Ubuntu		<a href="#">ubuntu.com</a>	Third Pa
USN-5582-1: Linux kernel (Azure CVM) vulnerabilities   Ubuntu security notices   Ubuntu		<a href="#">ubuntu.com</a>	Third Pa
oss-security - CVE-2022-2588 - Linux kernel cls_route UAF		<a href="#">www.openwall.com</a>	Mailing
USN-5564-1: Linux kernel (Intel IoTG) vulnerabilities   Ubuntu security notices   Ubuntu		<a href="#">ubuntu.com</a>	Third Pa
USN-5566-1: Linux kernel vulnerabilities   Ubuntu security notices   Ubuntu		<a href="#">ubuntu.com</a>	Third Pa
USN-5588-1: Linux kernel vulnerability   Ubuntu security notices   Ubuntu		<a href="#">ubuntu.com</a>	Third Pa
USN-5560-1: Linux kernel vulnerabilities   Ubuntu security notices   Ubuntu		<a href="#">ubuntu.com</a>	Third Pa

ZDI-22-1117   Zero Day Initiative	<a href="http://www.zerodayinitiative.com">www.zerodayinitiative.com</a>	Third Pa
USN-5562-1: Linux kernel vulnerabilities   Ubuntu security notices   Ubuntu	<a href="http://ubuntu.com">ubuntu.com</a>	Third Pa
USN-5567-1: Linux kernel (OEM) vulnerabilities   Ubuntu security notices   Ubuntu	<a href="http://ubuntu.com">ubuntu.com</a>	Third Pa
[PATCH] net_sched: cls_route: remove from list when handle is 0	<a href="http://lore.kernel.org">lore.kernel.org</a>	Mailing
USN-5565-1: Linux kernel vulnerabilities   Ubuntu security notices   Ubuntu	<a href="http://ubuntu.com">ubuntu.com</a>	Third Pa
CVE - CVE-2022-2588	<a href="http://cve.mitre.org">cve.mitre.org</a>	Third Pa
USN-5557-1: Linux kernel vulnerabilities   Ubuntu security notices   Ubuntu	<a href="http://ubuntu.com">ubuntu.com</a>	Third Pa
CVE Program record	CVE.ORG <a href="http://www.cve.org">www.cve.org</a>	canonic
NVD vulnerability detail	NVD <a href="http://nvd.nist.gov">nvd.nist.gov</a>	canonic

No vendor comments have been submitted for this CVE.

### Legacy QID Mappings

<a href="#">160029</a> Oracle Enterprise Linux Security Update for unbreakable enterprise kernel (ELSA-2022-9693)
<a href="#">160030</a> Oracle Enterprise Linux Security Update for unbreakable enterprise kernel (ELSA-2022-9689)
<a href="#">160031</a> Oracle Enterprise Linux Security Update for unbreakable enterprise kernel (ELSA-2022-9694)
<a href="#">160032</a> Oracle Enterprise Linux Security Update for unbreakable enterprise kernel-container (ELSA-2022-9691)
<a href="#">160034</a> Oracle Enterprise Linux Security Update for unbreakable enterprise kernel-container (ELSA-2022-9699)
<a href="#">160035</a> Oracle Enterprise Linux Security Update for unbreakable enterprise kernel (ELSA-2022-9692)
<a href="#">160036</a> Oracle Enterprise Linux Security Update for unbreakable enterprise kernel-container (ELSA-2022-9690)
<a href="#">160043</a> Oracle Enterprise Linux Security Update for unbreakable enterprise kernel (ELSA-2022-9709)
<a href="#">160045</a> Oracle Enterprise Linux Security Update for unbreakable enterprise kernel-container (ELSA-2022-9710)
<a href="#">160076</a> Oracle Enterprise Linux Security Update for unbreakable enterprise kernel (ELSA-2022-9761)
<a href="#">160098</a> Oracle Enterprise Linux Security Update for unbreakable enterprise kernel (ELSA-2022-9787)
<a href="#">160099</a> Oracle Enterprise Linux Security Update for unbreakable enterprise kernel-container (ELSA-2022-9788)
<a href="#">160106</a> Oracle Enterprise Linux Security Update for unbreakable enterprise kernel (ELSA-2022-9827)
<a href="#">160109</a> Oracle Enterprise Linux Security Update for unbreakable enterprise kernel-container (ELSA-2022-9830)
<a href="#">160171</a> Oracle Enterprise Linux Security Update for kernel (ELSA-2022-7110)
<a href="#">160199</a> Oracle Enterprise Linux Security Update for kernel (ELSA-2022-7337)
<a href="#">180938</a> Debian Security Update for linux (DSA 5207-1)
<a href="#">181002</a> Debian Security Update for linux-5.10 (DLA 3102-1)

181091 Debian Security Update for linux (DLA 3131-1)
184842 Debian Security Update for linux (CVE-2022-2588)
198891 Ubuntu Security Notification for Linux kernel Vulnerabilities (USN-5560-1)
198892 Ubuntu Security Notification for Linux kernel (OEM) Vulnerabilities (USN-5567-1)
198894 Ubuntu Security Notification for Linux kernel Vulnerabilities (USN-5566-1)
198895 Ubuntu Security Notification for Linux kernel Vulnerabilities (USN-5562-1)
198896 Ubuntu Security Notification for Linux kernel Vulnerabilities (USN-5565-1)
198897 Ubuntu Security Notification for Linux kernel (Intel IoTG) Vulnerabilities (USN-5564-1)
198911 Ubuntu Security Notification for Linux kernel (Azure CVM) Vulnerabilities (USN-5582-1)
240734 Red Hat Update for kernel-rt (RHSA-2022:6991)
240737 Red Hat Update for kpatch-patch (RHSA-2022:6978)
240738 Red Hat Update for kernel security (RHSA-2022:6983)
240776 Red Hat Update for kernel-rt (RHSA-2022:7134)
240782 Red Hat Update for kernel security (RHSA-2022:7110)
240783 Red Hat Update for kpatch-patch (RHSA-2022:7137)
240799 Red Hat Update for kernel-rt (RHSA-2022:7280)
240805 Red Hat Update for kpatch-patch (RHSA-2022:7344)
240807 Red Hat Update for kernel (RHSA-2022:7337)
240811 Red Hat Update for kernel-rt (RHSA-2022:7338)
241781 Red Hat Update for kernel (RHSA-2023:4022)
241782 Red Hat Update for kpatch-patch (RHSA-2023:4023)
283034 Fedora Security Update for kernel (FEDORA-2022-9bbb1d9b7b)
283035 Fedora Security Update for kernel (FEDORA-2022-484e226872)
354053 Amazon Linux Security Advisory for kernel : ALAS2-2022-1838
354060 Amazon Linux Security Advisory for kernel : ALAS2KERNEL-5.4-2022-035
354071 Amazon Linux Security Advisory for kernel : ALAS-2022-1636
354075 Amazon Linux Security Advisory for kernel : ALAS2-2022-1852
354081 Amazon Linux Security Advisory for kernel : ALAS2KERNEL-5.4-2022-036
354082 Amazon Linux Security Advisory for kernel : ALAS2KERNEL-5.4-2022-037

<a href="#">354082</a> Amazon Linux Security Advisory for kernel : ALAS2KERNEL-5.15-2022-008
<a href="#">354084</a> Amazon Linux Security Advisory for kernel : ALAS2KERNEL-5.10-2022-020
<a href="#">354238</a> Amazon Linux Security Advisory for kernel-livepatch : ALAS2LIVEPATCH-2022-094
<a href="#">354240</a> Amazon Linux Security Advisory for kernel-livepatch : ALAS2LIVEPATCH-2022-093
<a href="#">354439</a> Amazon Linux Security Advisory for kernel : ALAS2022-2022-150
<a href="#">354468</a> Amazon Linux Security Advisory for kernel : ALAS2022-2022-185
<a href="#">354542</a> Amazon Linux Security Advisory for kernel : ALAS-2022-185
<a href="#">355199</a> Amazon Linux Security Advisory for kernel : ALAS2023-2023-070
<a href="#">377117</a> Alibaba Cloud Linux Security Update for cloud-kernel (ALINUX3-SA-2022:0158)
<a href="#">377685</a> F5 BIG-IP Linux kernel vulnerability cve-2022-2588 (K32615023)
<a href="#">377766</a> Alibaba Cloud Linux Security Update for cloud-kernel (ALINUX2-SA-2022:0049)
<a href="#">377871</a> Alibaba Cloud Linux Security Update for cloud-kernel (ALINUX2-SA-2023:0001)
<a href="#">377891</a> Alibaba Cloud Linux Security Update for cloud-kernel (ALINUX3-SA-2023:0002)
<a href="#">390263</a> Oracle Managed Virtualization (VM) Server for x86 Security Update for kernel (OVMSA-2022-0022)
<a href="#">390267</a> Oracle VM Server for x86 Security Update for kernel (OVMSA-2022-0024)
<a href="#">6140125</a> AWS Bottlerocket Security Update for kernel (GHSA-gwgw-pm3x-5wxg)
<a href="#">672141</a> EulerOS Security Update for kernel (EulerOS-SA-2022-2441)
<a href="#">672205</a> EulerOS Security Update for kernel (EulerOS-SA-2022-2466)
<a href="#">672278</a> EulerOS Security Update for kernel (EulerOS-SA-2022-2686)
<a href="#">672286</a> EulerOS Security Update for kernel (EulerOS-SA-2022-2654)
<a href="#">672354</a> EulerOS Security Update for kernel (EulerOS-SA-2022-2732)
<a href="#">672391</a> EulerOS Security Update for kernel (EulerOS-SA-2022-2767)
<a href="#">752584</a> SUSE Enterprise Linux Security Update for the Linux Kernel (SUSE-SU-2022:3265-1)
<a href="#">752589</a> SUSE Enterprise Linux Security Update for the Linux Kernel (SUSE-SU-2022:3264-1)
<a href="#">752591</a> SUSE Enterprise Linux Security Update for the Linux Kernel (SUSE-SU-2022:3274-1)
<a href="#">752592</a> SUSE Enterprise Linux Security Update for the Linux Kernel (SUSE-SU-2022:3282-1)
<a href="#">752594</a> SUSE Enterprise Linux Security Update for the Linux Kernel (SUSE-SU-2022:3293-1)
<a href="#">752596</a> SUSE Enterprise Linux Security Update for the Linux Kernel (SUSE-SU-2022:3291-1)
<a href="#">752615</a> SUSE Enterprise Linux Security Update for the Linux Kernel (SUSE-SU-2022:3408-1)

752632 SUSE Enterprise Linux Security Update for the Linux Kernel (SUSE-SU-2022:3450-1)
752814 SUSE Enterprise Linux Security Update for the Linux Kernel (Live Patch 31 for SLE 15 SP1) (SUSE-SU-2022:4112-1)
752831 SUSE Enterprise Linux Security Update for the Linux Kernel (Live Patch 31 for SLE 15) (SUSE-SU-2022:4027-1)
752850 SUSE Enterprise Linux Security Update for the Linux Kernel (Live Patch 1 for SLE 15 SP4) (SUSE-SU-2022:4035-1)
752852 SUSE Enterprise Linux Security Update for the Linux Kernel (Live Patch 16 for SLE 15 SP3) (SUSE-SU-2022:4100-1)
752874 SUSE Enterprise Linux Security Update for the Linux Kernel (Live Patch 32 for SLE 15 SP1) (SUSE-SU-2022:4024-1)
752875 SUSE Enterprise Linux Security Update for the Linux Kernel (Live Patch 2 for SLE 15 SP4) (SUSE-SU-2022:4039-1)
752894 SUSE Enterprise Linux Security Update for the Linux Kernel (Live Patch 22 for SLE 15 SP3) (SUSE-SU-2022:4033-1)
752902 SUSE Enterprise Linux Security Update for the Linux Kernel (Live Patch 30 for SLE 15) (SUSE-SU-2022:4129-1)
752904 SUSE Enterprise Linux Security Update for the Linux Kernel (Live Patch 23 for SLE 15 SP3) (SUSE-SU-2022:4034-1)
752915 SUSE Enterprise Linux Security Update for the Linux Kernel (Live Patch 33 for SLE 15 SP1) (SUSE-SU-2022:4030-1)
752930 SUSE Enterprise Linux Security Update for the Linux Kernel (Live Patch 0 for SLE 15 SP4) (SUSE-SU-2022:4113-1)
753063 SUSE Enterprise Linux Security Update for the Linux Kernel (SUSE-SU-2022:4617-1)
753167 SUSE Enterprise Linux Security Update for the Linux Kernel (SUSE-SU-2022:3288-1)
753370 SUSE Enterprise Linux Security Update for the Linux Kernel (SUSE-SU-2022:3609-1)
753374 SUSE Enterprise Linux Security Update for the Linux Kernel (SUSE-SU-2022:3809-1)
940709 AlmaLinux Security Update for kernel-rt (ALSA-2022:7134)
940719 AlmaLinux Security Update for kernel (ALSA-2022:7110)
960271 Rocky Linux Security Update for kernel-rt (RLSA-2022:7134)
960397 Rocky Linux Security Update for kernel (RLSA-2022:7110)

© [CVE.report](#) 2026 |

Use of this information constitutes acceptance for use in an AS IS condition. There are NO warranties, implied or otherwise, with regard to this information or its use. Any use of this information is at the user's risk. It is the responsibility of user to evaluate the accuracy, completeness or usefulness of any information, opinion, advice or other content. EACH USER WILL BE SOLELY RESPONSIBLE FOR ANY consequences of his or her direct or indirect use of this web site. ALL WARRANTIES OF ANY KIND ARE EXPRESSLY DISCLAIMED. This site will NOT BE LIABLE FOR ANY DIRECT, INDIRECT or any other kind of loss.

CVE, CWE, and OVAL are registered trademarks of [The MITRE Corporation](#) and the authoritative source of CVE content is [MITRE's CVE web site](#). This site includes MITRE data granted under the following [license](#).

**CVE.report and Source URL Uptime Status [status.cve.report](#)**