



CVE-2020-14422

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

Summary

CVE	CVE-2020-14422
State	PUBLIC
Assigner	cve@mitre.org
Source Priority	CVE Program / NVD first with legacy fallback
Published	2020-06-18 14:15:00 UTC
Updated	2023-11-07 03:17:00 UTC
Description	Lib/ipaddress.py in Python through 3.8.3 improperly computes hash values in the IPv4Interface and IPv6Interface classes, v

Risk And Classification

Problem Types: CWE-682 | CWE-330

NVD Known Affected Configurations (CPE 2.3)

Type	Vendor	Product	Version	Update	Edition	Language
Operating System	Fedoraproject	Fedora	31	All	All	All
Operating System	Fedoraproject	Fedora	32	All	All	All
Operating System	Fedoraproject	Fedora	31	All	All	All
Operating System	Fedoraproject	Fedora	32	All	All	All
Operating System	Opensuse	Leap	15.1	All	All	All
Operating System	Opensuse	Leap	15.2	All	All	All
Operating System	Opensuse	Leap	15.1	All	All	All
Operating System	Opensuse	Leap	15.2	All	All	All
Application	Oracle	Enterprise Manager Ops Center	12.4.0.0	All	All	All
Application	Oracle	Enterprise Manager Ops Center	12.4.0.0	All	All	All
Application	Python	Python	All	All	All	All
Application	Python	Python	All	All	All	All

References

Reference	Source	Link
[SECURITY] [DLA 2280-1] python3.5 security update	MLIST	lists.det
[SECURITY] Fedora 32 Update: python35-3.5.9-9.fc32 - package-announce - Fedora Mailing-Lists	FEDORA	lists.fed

[security-announce] openSUSE-SU-2020:0931-1: important: Security update	SUSE	lists.opensuse.org
bpo-41004: IPv4Interface, and IPv6Interface hash collisions by sreev · Pull Request #20956 · python/cpython · GitHub	MISC	github.com
[SECURITY] Fedora 31 Update: python38-3.8.5-1.fc31 - package-announce - Fedora Mailing-Lists		lists.fedoraproject.org
[SECURITY] Fedora 32 Update: python3-docs-3.8.5-1.fc32 - package-announce - Fedora Mailing-Lists		lists.fedoraproject.org
USN-4428-1: Python vulnerabilities Ubuntu security notices Ubuntu	UBUNTU	usn.ubuntu.com
[SECURITY] Fedora 31 Update: python3-3.7.8-2.fc31 - package-announce - Fedora Mailing-Lists	FEDORA	lists.fedoraproject.org
[SECURITY] Fedora 32 Update: python35-3.5.9-9.fc32 - package-announce - Fedora Mailing-Lists		lists.fedoraproject.org
Python: Multiple vulnerabilities (GLSA 202008-01) — Gentoo security	GENTOO	security.gentoo.org
[SECURITY] Fedora 32 Update: python34-3.4.10-11.fc32 - package-announce - Fedora Mailing-Lists		lists.fedoraproject.org
[SECURITY] Fedora 32 Update: python3-docs-3.8.5-1.fc32 - package-announce - Fedora Mailing-Lists	FEDORA	lists.fedoraproject.org
[SECURITY] Fedora 31 Update: python35-3.5.9-9.fc31 - package-announce - Fedora Mailing-Lists	FEDORA	lists.fedoraproject.org
[SECURITY] Fedora 32 Update: mingw-python3-3.8.3-3.fc32 - package-announce - Fedora Mailing-Lists	FEDORA	lists.fedoraproject.org
[SECURITY] Fedora 32 Update: mingw-python3-3.8.3-3.fc32 - package-announce - Fedora Mailing-Lists		lists.fedoraproject.org
[SECURITY] Fedora 31 Update: python39-3.9.0~b4-1.fc31 - package-announce - Fedora Mailing-Lists		lists.fedoraproject.org
[security-announce] openSUSE-SU-2020:1002-1: important: Security update	SUSE	lists.opensuse.org
[SECURITY] Fedora 31 Update: python3-3.7.8-2.fc31 - package-announce - Fedora Mailing-Lists		lists.fedoraproject.org
[SECURITY] Fedora 32 Update: python34-3.4.10-11.fc32 - package-announce - Fedora Mailing-Lists	FEDORA	lists.fedoraproject.org
[SECURITY] Fedora 31 Update: python39-3.9.0~b4-1.fc31 - package-announce - Fedora Mailing-Lists	FEDORA	lists.fedoraproject.org
[SECURITY] Fedora 32 Update: python36-3.6.11-3.fc32 - package-announce - Fedora Mailing-Lists	FEDORA	lists.fedoraproject.org
CVE-2020-14422 Python Vulnerability in NetApp Products NetApp Product Security	CONFIRM	security.netapp.com
[SECURITY] Fedora 31 Update: python38-3.8.5-1.fc31 - package-announce - Fedora Mailing-Lists	FEDORA	lists.fedoraproject.org
[SECURITY] Fedora 32 Update: python39-3.9.0~b4-1.fc32 - package-announce - Fedora Mailing-Lists		lists.fedoraproject.org
[SECURITY] [DLA 3424-1] python-ipaddress security update	MLIST	lists.debian.org
[SECURITY] Fedora 32 Update: python36-3.6.11-3.fc32 - package-announce - Fedora Mailing-Lists		lists.fedoraproject.org
[SECURITY] Fedora 31 Update: python36-3.6.11-3.fc31 - package-announce - Fedora Mailing-Lists		lists.fedoraproject.org
[security-announce] openSUSE-SU-2020:0989-1: important: Security update	SUSE	lists.opensuse.org
[SECURITY] Fedora 31 Update: python35-3.5.9-9.fc31 - package-announce - Fedora Mailing-Lists		lists.fedoraproject.org
[SECURITY] Fedora 32 Update: python37-3.7.8-2.fc32 - package-announce - Fedora Mailing-Lists	FEDORA	lists.fedoraproject.org
[security-announce] openSUSE-SU-2020:0940-1: important: Security update	SUSE	lists.opensuse.org
Oracle Critical Patch Update Advisory - January 2021	MISC	www.oracle.com
[SECURITY] Fedora 32 Update: python39-3.9.0~b4-1.fc32 - package-announce - Fedora Mailing-Lists	FEDORA	lists.fedoraproject.org
[SECURITY] Fedora 31 Update: python36-3.6.11-3.fc31 - package-announce - Fedora Mailing-Lists	FEDORA	lists.fedoraproject.org
Issue 41004: [CVE-2020-14422] Hash collisions in IPv4Interface and IPv6Interface - Python tracker	MISC	bugs.python.org
[SECURITY] Fedora 32 Update: python37-3.7.8-2.fc32 - package-announce - Fedora Mailing-Lists		lists.fedoraproject.org
CVE Program record	CVE.ORG	www.cve.org

No vendor comments have been submitted for this CVE.

Legacy QID Mappings

159654 Oracle Enterprise Linux Security Update for python38:3.8 (ELSA-2020-4641)
181787 Debian Security Update for python-ipaddress (DLA 3424-1)
296071 Oracle Solaris 11.4 Support Repository Update (SRU) 27.82.1 Missing (CPUOCT2020)
355604 Amazon Linux Security Advisory for python-pip : ALAS2-2023-2151
355685 Amazon Linux Security Advisory for python-ipaddress : ALAS2-2023-2174
356271 Amazon Linux Security Advisory for python38 : ALASPYTHON3.8-2023-008
377387 Alibaba Cloud Linux Security Update for python3 (ALINUX3-SA-2021:0080)
377488 Alibaba Cloud Linux Security Update for python3 (ALINUX2-SA-2020:0186)
500592 Alpine Linux Security Update for python3
504342 Alpine Linux Security Update for python3
670555 EulerOS Security Update for python-ipaddress (EulerOS-SA-2021-2313)
672336 EulerOS Security Update for python-pip (EulerOS-SA-2022-2740)
672356 EulerOS Security Update for python-pip (EulerOS-SA-2022-2775)
672442 EulerOS Security Update for python-pip (EulerOS-SA-2022-2854)
672444 EulerOS Security Update for python-pip (EulerOS-SA-2022-2828)
690464 Free Berkeley Software Distribution (FreeBSD) Security Update for python (2cb21232-fb32-11ea-a929-a4bf014bf5f7)
690477 Free Berkeley Software Distribution (FreeBSD) Security Update for python (3fcb70a4-e22d-11ea-98b2-080027846a02)
750463 OpenSUSE Security Update for python3 (openSUSE-SU-2020:2333-1)
750464 OpenSUSE Security Update for python3 (openSUSE-SU-2020:2332-1)
770068 Red Hat OpenShift Container Platform 4.6 Security Update (RHSA-2021:0436)
900046 CBL-Mariner Linux Security Update for python3 3.7.9
903599 Common Base Linux Mariner (CBL-Mariner) Security Update for python3 (3519)
940166 AlmaLinux Security Update for python3 (ALSA-2020:4433)
940211 AlmaLinux Security Update for python38:3.8 (ALSA-2020:4641)
960347 Rocky Linux Security Update for python38:3.8 (RLSA-2020:4641)

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