



CVE-2021-3177

[MITRE](#)[NVD](#)[CVE.ORG](#)[Print: PDF !\[\]\(e3f8612927870f2e0f9f5989e6dd3064_img.jpg\)](#)

Summary

CVE	CVE-2021-3177
State	PUBLIC
Assigner	cve@mitre.org
Source Priority	CVE Program / NVD first with legacy fallback
Published	2021-01-19 06:15:00 UTC
Updated	2023-11-07 03:37:00 UTC
Description	Python 3.x through 3.9.1 has a buffer overflow in PyCArg_repr in _ctypes/callproc.c, which may lead to remote code execut

Risk And Classification

Problem Types: CWE-120

NVD Known Affected Configurations (CPE 2.3)

Type	Vendor	Product	Version	Update
Operating System	Debian	Debian Linux	9.0	All
Operating System	Fedoraproject	Fedora	32	All
Operating System	Fedoraproject	Fedora	33	All
Operating System	Fedoraproject	Fedora	32	All
Operating System	Fedoraproject	Fedora	33	All
Application	Netapp	Active Iq Unified Manager	-	All
Application	Netapp	Active Iq Unified Manager	-	All
Application	Netapp	Active Iq Unified Manager	-	All
Application	Netapp	Active Iq Unified Manager	-	All
Application	Netapp	Ontap Select Deploy Administration Utility	-	All
Application	Oracle	Communications Cloud Native Core Network Function Cloud Native Environment	22.2.0	All
Application	Oracle	Communications Offline Mediation Controller	12.0.0.3.0	All
Application	Oracle	Communications Pricing Design Center	12.0.0.3.0	All
Application	Oracle	Enterprise Manager Ops Center	12.4.0.0	All
Application	Oracle	Zfs Storage Appliance Kit	8.8	All
Application	Python	Python	All	All
Application	Python	Python	All	All

Application	Python	Python	All	All
Application	Python	Python	All	All

References

Reference
[SECURITY] Fedora 32 Update: python27-2.7.18-8.fc32 - package-announce - Fedora Mailing-Lists
[SECURITY] Fedora 33 Update: mingw-python3-3.9.1-2.fc33 - package-announce - Fedora Mailing-Lists
[SECURITY] [DLA 2619-1] python3.5 security update
[SECURITY] Fedora 32 Update: python3-3.8.7-2.fc32 - package-announce - Fedora Mailing-Lists
Python: Multiple vulnerabilities (GLSA 202101-18) — Gentoo security
[SECURITY] Fedora 32 Update: python37-3.7.10-1.fc32 - package-announce - Fedora Mailing-Lists
[SECURITY] Fedora 32 Update: python37-3.7.10-1.fc32 - package-announce - Fedora Mailing-Lists
Pony Mail!
Issue 42938: [security] ctypes double representation BoF - Python tracker
[SECURITY] Fedora 32 Update: python3-3.8.7-2.fc32 - package-announce - Fedora Mailing-Lists
[SECURITY] [DLA 3432-1] python2.7 security update
[SECURITY] Fedora 33 Update: python3.10-3.10.0~a5-1.fc33 - package-announce - Fedora Mailing-Lists
[SECURITY] Fedora 32 Update: python36-3.6.13-1.fc32 - package-announce - Fedora Mailing-Lists
[SECURITY] Fedora 33 Update: mingw-python3-3.9.1-2.fc33 - package-announce - Fedora Mailing-Lists
CVE-2021-3177 Python Vulnerability in NetApp Products NetApp Product Security
Oracle Critical Patch Update Advisory - July 2021
[SECURITY] Fedora 33 Update: python3.8-3.8.7-2.fc33 - package-announce - Fedora Mailing-Lists
Oracle Critical Patch Update Advisory - October 2021
Python 3.x: RCE in Python applications that accept floats as untrusted input Hacker News
Oracle Critical Patch Update Advisory - January 2022
[SECURITY] Fedora 33 Update: python3.9-3.9.1-2.fc33 - package-announce - Fedora Mailing-Lists
[SECURITY] Fedora 32 Update: mingw-python3-3.8.3-8.fc32 - package-announce - Fedora Mailing-Lists
[SECURITY] Fedora 33 Update: python3.6-3.6.13-1.fc33 - package-announce - Fedora Mailing-Lists
[SECURITY] Fedora 32 Update: python3.10-3.10.0~a5-1.fc32 - package-announce - Fedora Mailing-Lists
[SECURITY] Fedora 33 Update: python2.7-2.7.18-8.fc33 - package-announce - Fedora Mailing-Lists
[SECURITY] Fedora 33 Update: python3.9-3.9.1-2.fc33 - package-announce - Fedora Mailing-Lists
[SECURITY] Fedora 32 Update: python36-3.6.13-1.fc32 - package-announce - Fedora Mailing-Lists
[SECURITY] Fedora 32 Update: python27-2.7.18-8.fc32 - package-announce - Fedora Mailing-Lists
closes bpo-42938: Replace sprintf with Python unicode formatting in ctypes param reprs. by benjaminp · Pull Request #24239 · python/cpython
[SECURITY] Fedora 32 Update: python39-3.9.1-2.fc32 - package-announce - Fedora Mailing-Lists

[SECURITY] Fedora 33 Update: python3.7-3.7.10-1.fc33 - package-announce - Fedora Mailing-Lists

[SECURITY] Fedora 32 Update: python39-3.9.1-2.fc32 - package-announce - Fedora Mailing-Lists

[SECURITY] Fedora 32 Update: mingw-python3-3.8.3-8.fc32 - package-announce - Fedora Mailing-Lists

ctypes: Buffer overflow in PyCArg_repr — Python Security 0.0 documentation

[SECURITY] Fedora 33 Update: python3.10-3.10.0~a5-1.fc33 - package-announce - Fedora Mailing-Lists

[SECURITY] [DLA 2919-1] python2.7 security update

[SECURITY] Fedora 33 Update: python3.8-3.8.7-2.fc33 - package-announce - Fedora Mailing-Lists

[SECURITY] Fedora 33 Update: python3.6-3.6.13-1.fc33 - package-announce - Fedora Mailing-Lists

[SECURITY] Fedora 33 Update: python3.7-3.7.10-1.fc33 - package-announce - Fedora Mailing-Lists

[mina-dev] 20210225 [jira] [Created] (FTPSEVER-500) Security vulnerability in common/lib/log4j-1.2.17.jar

Oracle Critical Patch Update Advisory - July 2022

[SECURITY] Fedora 33 Update: python2.7-2.7.18-8.fc33 - package-announce - Fedora Mailing-Lists

[SECURITY] Fedora 32 Update: python3.10-3.10.0~a5-1.fc32 - package-announce - Fedora Mailing-Lists

CVE Program record

NVD vulnerability detail



No vendor comments have been submitted for this CVE.

Legacy QID Mappings

[159129](#) Oracle Enterprise Linux Security Update for python2 (ELSA-2021-9128)

[159130](#) Oracle Enterprise Linux Security Update for python36 (ELSA-2021-9129)

[159131](#) Oracle Enterprise Linux Security Update for python38 (ELSA-2021-9130)

[159200](#) Oracle Enterprise Linux Security Update for python3 (ELSA-2021-1633)

[159342](#) Oracle Enterprise Linux Security Update for python27:2.7 (ELSA-2021-1761)

[159460](#) Oracle Enterprise Linux Security Update for python38:3.8 (ELSA-2021-1879)

[159958](#) Oracle Enterprise Linux Security Update for python (ELSA-2022-5235)

[178536](#) Debian Security Update for python3.5 (DLA 2619-1)

[179069](#) Debian Security Update for python2.7 (DLA 2919-1)

[179762](#) Debian Security Update for python3.7python2.7python3.9 (CVE-2021-3177)

[181802](#) Debian Security Update for python2.7 (DLA 3432-1)

[198293](#) Ubuntu Security Notification for Python2.7, Python3.7, Python3.8 Vulnerabilities (USN-4754-3)

[239292](#) Red Hat Update for python38:3.8 (RHSA-2021:1879)

239307 Red Hat Update for python27:2.7 (RHSA-2021:1761)
239323 Red Hat Update for python3 (RHSA-2021:1633)
239580 Red Hat Update for rh-python38 (RHSA-2021:3254)
239582 Red Hat Update for python27 (RHSA-2021:3252)
240523 Red Hat Update for python (RHSA-2022:5235)
257179 CentOS Security Update for python (CESA-2022:5235)
281609 Fedora Security Update for python3.6 (FEDORA-2021-7fa9dc84d4)
352299 Amazon Linux Security Update for python26 python27: AL2012-2021-338
356245 Amazon Linux Security Advisory for python38 : ALASPYTHON3.8-2023-005
375419 Python3 Remote Code Execution Vulnerability
375537 Python Buffer Overflow/Web Cache Poisoning Vulnerability
376090 IBM Cognos Analytics Multiple Vulnerabilities (6491661)
377245 Alibaba Cloud Linux Security Update for python (ALINUX2-SA-2022:0032)
377387 Alibaba Cloud Linux Security Update for python3 (ALINUX3-SA-2021:0080)
377557 Alibaba Cloud Linux Security Update for python27:2.7 (ALINUX3-SA-2022:0112)
500594 Alpine Linux Security Update for python3
501480 Alpine Linux Security Update for python3
501773 Alpine Linux Security Update for python3
501907 Alpine Linux Security Update for python2
504344 Alpine Linux Security Update for python3
670241 EulerOS Security Update for python (EulerOS-SA-2021-1835)
670313 EulerOS Security Update for python (EulerOS-SA-2021-1911)
670338 EulerOS Security Update for python3 (EulerOS-SA-2021-1886)
670368 EulerOS Security Update for python3 (EulerOS-SA-2021-1957)
670389 EulerOS Security Update for python3 (EulerOS-SA-2021-1936)
670668 EulerOS Security Update for python (EulerOS-SA-2021-2427)
750349 OpenSUSE Security Update for python3 (openSUSE-SU-2021:0331-1)
750365 OpenSUSE Security Update for python (openSUSE-SU-2021:0270-1)
900033 CRI -Mariner Linux Security Update for python3 3.7.9

903008	Common Base Linux Mariner (CBL-Mariner) Security Update for python3 (3812)
904870	Common Base Linux Mariner (CBL-Mariner) Security Update for python2 (12412)
940187	AlmaLinux Security Update for python3 (ALSA-2021:1633)
940287	AlmaLinux Security Update for python38:3.8 (ALSA-2021:1879)
940311	AlmaLinux Security Update for python27:2.7 (ALSA-2021:1761)
960385	Rocky Linux Security Update for python38:3.8 (RLSA-2021:1879)
960420	Rocky Linux Security Update for python27:2.7 (RLSA-2021:1761)

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