



webbrowser.open() allows leading dashes in URLs

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

Summary

CVE	CVE-2026-4519
State	PUBLISHED
Assigner	PSF
Source Priority	CVE Program / NVD first with legacy fallback
Published	2026-03-20 15:16:24 UTC
Updated	2026-04-16 14:53:22 UTC
Description	The webbrowser.open() API would accept leading dashes in the URL which could be handled as command line options for

Risk And Classification

Primary CVSS: v4.0 7 HIGH from cna@python.org

CVSS:4.0/AV:L/AC:L/AT:P/PR:N/UI:A/VC:H/VI:H/VA:N/SC:N/SI:N/SA:N/E:X/CR:X/IR:X/AR:X/MAV:X/MAC:X/MAT:X/MPR:X/MUI:X/MVC:X/MVI:X/MVA:X/MSX/MSI:X/MSA:X/S:X/AU:X/R:X/V:X/RE:X/U:X

EPSS: 0.000330000 probability, percentile 0.093440000 (date 2026-04-07)

Problem Types: CWE-20 | CWE-20 CWE-20 Improper Input Validation

Version	Source	Type	Score	Severity	Vector
4.0	cna@python.org	Secondary	7	HIGH	CVSS:4.0/AV:L/AC:L/AT:P/PR:N/UI:A/VC:H/VI:H/VA:N/SC:N/SI:N/SA:N/E:X/C...
4.0	CNA	CVSS	7	HIGH	CVSS:4.0/AV:L/AC:L/AT:P/PR:N/UI:A/VC:H/VI:H/VA:N/SC:N/SI:N/SA:N
3.1	nvd@nist.gov	Primary	3.3	LOW	CVSS:3.1/AV:L/AC:L/PR:N/UI:R/S:U/C:N/I:L/A:N

CVSS v4.0 Breakdown

Attack Vector

Local

Attack Complexity

Low

Attack Requirements

Present

Privileges Required

None

User Interaction

Active

Confidentiality

Confidentiality

High

Integrity

High

Availability

None

Sub Conf.

None

Sub Integrity

None

Sub Availability

None

CVSS:4.0/AV:L/AC:L/AT:P/PR:N/UI:A/VC:H/VI:H/VA:N/SC:N/SI:N/SA:N/E:X/CR:X/IR:X/AR:X/MAV:X/MAC:X/MAT:X/MPR:X/MUI:X/MVC:X/MVI:X/MVA:X/MS:C:X/MSI:X/MSA:X/S:X/AU:X/R:X/V:X/RE:X/U:X

CVSS v3.1 Breakdown

Attack Vector

Local

Attack Complexity

Low

Privileges Required

None

User Interaction

Required

Scope

Unchanged

Confidentiality

None

Integrity

Low

Availability

None

CVSS:3.1/AV:L/AC:L/PR:N/UI:R/S:U/C:N/I:L/A:N

NVD Known Affected Configurations (CPE 2.3)

Type	Vendor	Product	Version	Update	Edition	Language
Application	Python	Python	All	All	All	All

Vendor Declared Affected Products

Source	Vendor	Product	Version	Platforms
CNA	Python Software Foundation	CPython	affected 3.13.13 python	Not specified
CNA	Python Software Foundation	CPython	affected 3.14.0-3.14.4 python	Not specified

CNA	Python Software Foundation	CPython	affected 3.14.0 3.14.4 python	Not specified
CNA	Python Software Foundation	CPython	affected 3.15.0a1 3.15.0a8 python	Not specified

References

Reference	Source	Link
github.com/python/cpython/commit/cbba6119391112aba9c5aebf7b94aea447922c48	cna@python.org	github.c
github.com/python/cpython/commit/591ed890270c5697b013bf637029fb3e6cd2d73e	cna@python.org	github.c
github.com/python/cpython/commit/89bfb8e5ed3c7caa241028f1a4eac5f6275a46a4	cna@python.org	github.c
github.com/python/cpython/commit/ceac1efc66516ac387eef2c9a0ce671895b44f03	cna@python.org	github.c
github.com/python/cpython/commit/43fe06b96f6a6cf5cfd5bdab20b8649374956866	cna@python.org	github.c
github.com/python/cpython/commit/96fc5048605863c7b6fd6289643feb0e97edd96c	cna@python.org	github.c
github.com/python/cpython/commit/cc023511238ad93ecc8796157c6f9139a2bb2932	cna@python.org	github.c
github.com/python/cpython/commit/9669a912a0e329c094e992204d6bdb8787024d76	cna@python.org	github.c
github.com/python/cpython/commit/82a24a4442312bdcfc4c799885e8b3e00990f02b	cna@python.org	github.c
github.com/python/cpython/commit/3681d47a440865aead912a054d4599087b4270dd	cna@python.org	github.c
github.com/python/cpython/commit/ad4d5ba32af4d80b0dfa2ba9d8203bfb219e60a5	cna@python.org	github.c
www.openwall.com/lists/oss-security/2026/03/20/1	af854a3a-2127-422b-91ae-364da2661108	www.op
mail.python.org/archives/list/security-announce@python.org/thread/AY5NDSS433J...	cna@python.org	mail.pyt
github.com/python/cpython/issues/143930	cna@python.org	github.c
github.com/python/cpython/pull/143931	cna@python.org	github.c
github.com/python/cpython/commit/594b5a05dc9913880ac92eded440defbf32a28d1	cna@python.org	github.c
CVE Program record	CVE.ORG	www.cv
NVD vulnerability detail	NVD	nvd.nist

Vendor Comments And Credit

Discovery Credit

CNA: Seth Larson (en)

CNA: Gregory P. Smith (en)

CNA: an7y (en)

There are currently no legacy QID mappings associated with this CVE.

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