

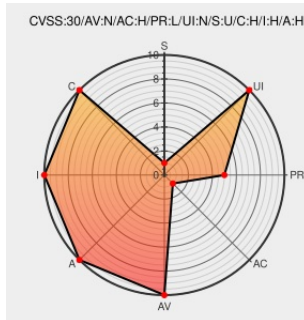


CVE-2019-12760

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CVE-2019-12760

[Source: Mitre](#)[Source: NIST](#)[CVE.ORG](#)[Print: PDF](#) 

Certain versions of [Parso](#) from [Parso Project](#) contain the following vulnerability:

**** DISPUTED **** A deserialization vulnerability exists in the way parso through 0.4.0 handles grammar parsing from the cache. Cache loading relies on pickle and, provided that an evil pickle can be written to a cache grammar file and that its parsing can be triggered, this flaw leads to Arbitrary Code Execution. NOTE: This is disputed because "the cache directory is not under control of the attacker in any common configuration."

CVE-2019-12760 has been assigned by [M](#) cve@mitre.org to track the vulnerability - currently rated as **HIGH** severity.

CVSS3 Score: **7.5 - HIGH**

Attack Vector	Attack Complexity	Privileges Required	User Interaction
NETWORK	HIGH	LOW	NONE
Scope	Confidentiality Impact	Integrity Impact	Availability Impact
UNCHANGED	HIGH	HIGH	HIGH

CVSS2 Score: **6 - MEDIUM**

Access Vector	Access Complexity	Authentication
NETWORK	MEDIUM	SINGLE
Confidentiality Impact	Integrity Impact	Availability Impact
PARTIAL	PARTIAL	PARTIAL

CVE References

Description	Tags	Link
Proof-of-Concept for Python parso Cache Load Vulnerability (CVE-2019-12760) · GitHub	Exploit Third Party Advisory	MISC gist.github.com/dhondta/f71ae7e5c4234f8edfd2f12503a5dcc7

[gist.github.com](#)[text/html](#)

Deserialization vulnerability (CVE-2019-12760) ·
Issue #75 · davidhalter/parso · GitHub

[github.com](#)[text/html](#)

MISC [github.com/davidhalter/parso/issues/75](#)

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Related QID Numbers

[983478](#) Python (pip) Security Update for parso (GHSA-22mf-97vh-x8rw)

Known Affected Configurations (CPE V2.3)

Type	Vendor	Product	Version	Update	Edition	Language
Application	Parso Project	Parso	All	All	All	All
cpe:2.3:a:parso_project:parso:*****:.*:						

No vendor comments have been submitted for this CVE

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