CVE-2019-19275

Published on: 11/26/2019 12:00:00 AM UTC

Last Modified on: 03/23/2021 11:27:54 PM UTC

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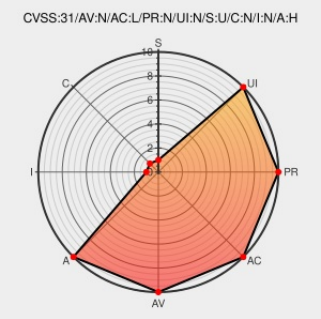

Certain versions of Typed Ast from Python contain the following vulnerability:

typed_ast 1.3.0 and 1.3.1 has an ast_for_arguments out-of-bounds read. An attacker with the ability to cause a Python interpreter to parse Python source (but not necessarily execute it) may be able to crash the interpreter process. This could be a concern, for example, in a web-based service that parses (but does not execute) Python code. (This issue also affected certain Python 3.8.0-alpha prereleases.)

CVE-2019-19275 has been assigned by 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	LOW	NONE	NONE
Scope	**Confidentiality Impact**	**Integrity Impact**	**Availability Impact**
UNCHANGED	NONE	NONE	HIGH

CVSS2 Score: 5 - MEDIUM

Access Vector	Access Complexity	Authentication
NETWORK	LOW	NONE
Confidentiality Impact	**Integrity Impact**	**Availability Impact**
NONE	NONE	PARTIAL

CVE References

Description	Tags	Link
bpo-36495: Fix two out-of-bounds array reads (GH-	Patch, Third Party Advisory	MISC github.com/python/cpython/commit/a4d78362397fc3bced6ea80fbc7b5f4827aec55e

12641) · python/cpython@a4d7836 · GitHub	github.com text/html	
Issue 36495: Out-of-bounds array reads in Python/ast.c - Python tracker	Patch Vendor Advisory bugs.python.org text/html	MISC bugs.python.org/issue36495
Fix two out-of-bounds array reads (#99) · python/typed_ast@dc317ac · GitHub	Patch Third Party Advisory github.com text/html	MISC github.com/python/typed_ast/commit/dc317ac9cff859aa84eeabe03fb5004982545b3b
[SECURITY] Fedora 30 Update: python3-typed_ast-1.4.0-2.fc30 - package-announce - Fedora Mailing-Lists	lists.fedoraproject.org text/html	FEDORA FEDORA-2020-9b3dabc21c
Fully incorporate the code from Python 3.7.2 (#78) · python/typed_ast@156afcb · GitHub	Patch Third Party Advisory github.com text/html	MISC github.com/python/typed_ast/commit/156afcb26c198e162504a57caddfe0acd9ed7dce
bpo-35766: Merge typed_ast back into CPython (GH-11645) · python/cpython@dcfcd14 · GitHub	Patch Third Party Advisory github.com text/html	MISC github.com/python/cpython/commit/dcfcd146f8e6fc5c2fc16a4c192a0c5f5ca8c53c

Related QID Numbers

981619 Python (pip) Security Update for typed-ast (GHSA-7xxv-wpxj-mx5v)

Known Affected Configurations (CPE V2.3)

Type	Vendor	Product	Version	Update	Edition	Language
Application	Python	Typed Ast	1.3.0	All	All	All
Application	Python	Typed Ast	1.3.1	All	All	All
Application	Python	Typed Ast	1.3.0	All	All	All
Application	Python	Typed Ast	1.3.1	All	All	All

cpe:2.3:a:python:typed_ast:1.3.0:*:*:*:*:*:*:*:

cpe:2.3:a:python:typed_ast:1.3.1:*:*:*:*:*:*:*:

cpe:2.3:a:python:typed_ast:1.3.0:*:*:*:*:*:*:*:

cpe:2.3:a:python:typed_ast:1.3.1:*:*:*:*:*:*:*:

No vendor comments have been submitted for this CVE

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