# Arbitrary Code Execution

Affecting joblib package, versions [,1.1.1)



**7.3**

HIGH

**Snyk CVSS**

| Exploit Maturity | **Proof of concept** ❓ |

| Attack Complexity | **Low** ❓ |

See more

**INTRODUCED: 19 SEP 2022**   CVE-2022-21797 ❓
CWE-94 ❓   ( FIRST ADDED BY SNYK )

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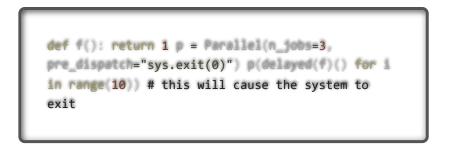> NVD   ( 9.8 CRITICAL )

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### How to fix?

Upgrade `joblib` to version 1.1.1 or higher.

### Overview

joblib is a Lightweight pipelining with Python functions

Affected versions of this package are vulnerable to Arbitrary Code
Execution via the `pre_dispatch` flag in `Parallel()` class due to the
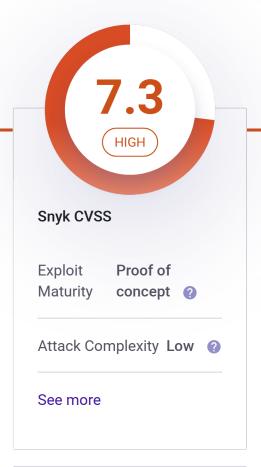`eval()` statement.

### PoC

```
def f(): return 1 p = Parallel(n_jobs=3,
pre_dispatch="sys.exit(0)") p(delayed(f)() for i
in range(10)) # this will cause the system to
exit
```

### References

- GitHub Commit

**Do your applications use this vulnerable package?**

In a few clicks we can analyze your entire application and see what components are vulnerable in your application, and suggest you quick fixes.

Test your applications

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🎓 **Snyk Learn**

Learn about Arbitrary Code Execution vulnerabilities in an interactive lesson.

Start learning

| Snyk ID | **SNYK-PYTHON-JOBLIB-3027033** |
| --- | --- |
| Published | **25 Sep 2022** |
| Disclosed | **19 Sep 2022** |
| Credit | **Jim Lin** |

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