

# Risk Assessment with OpenCVE

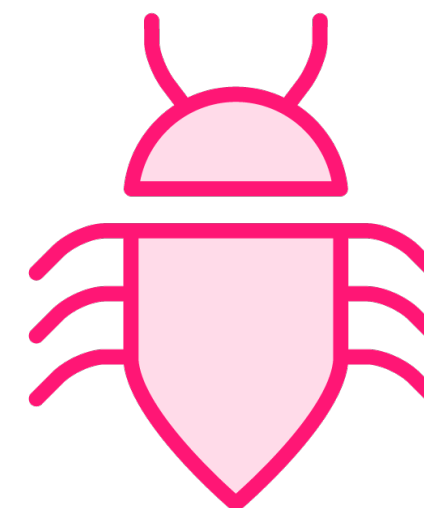
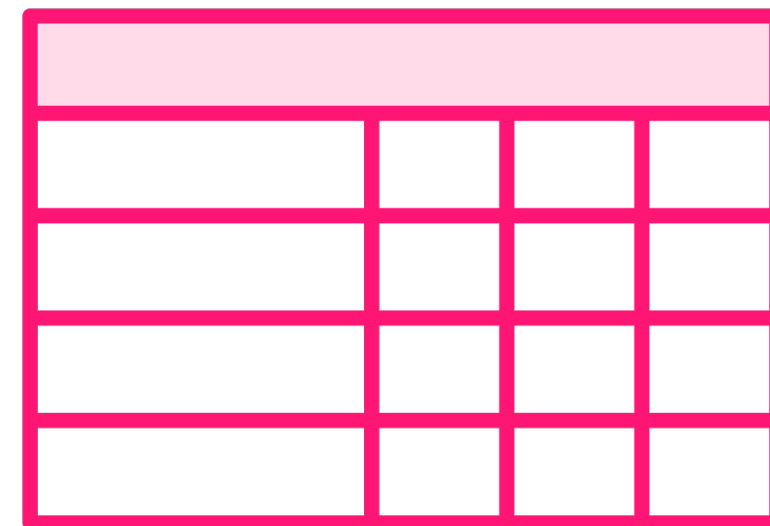
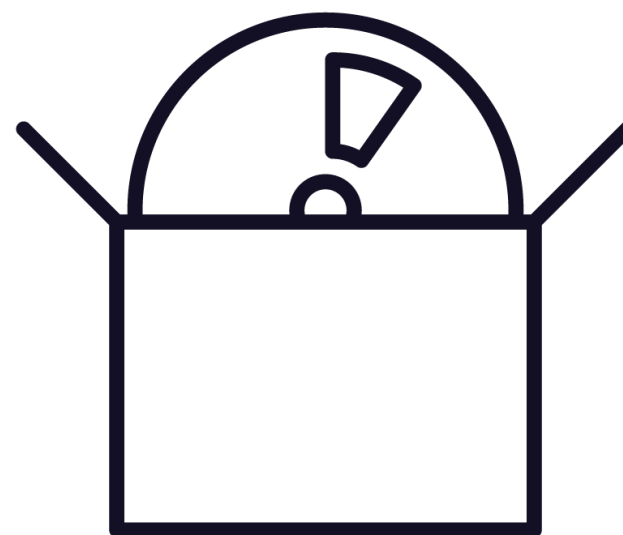
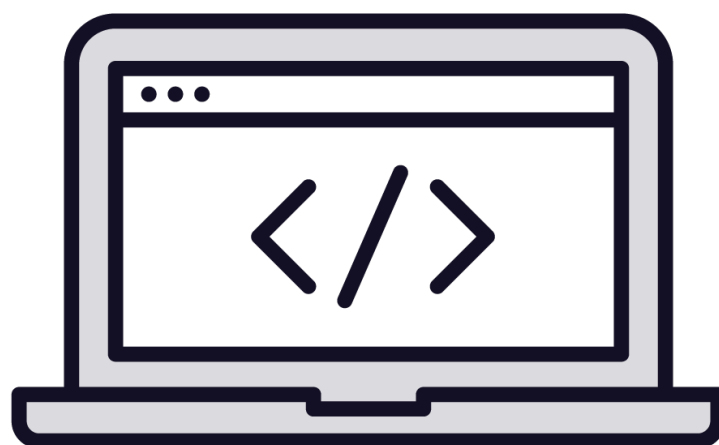
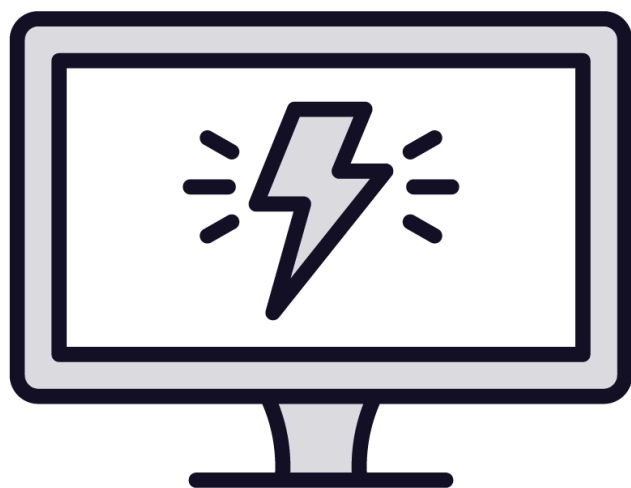
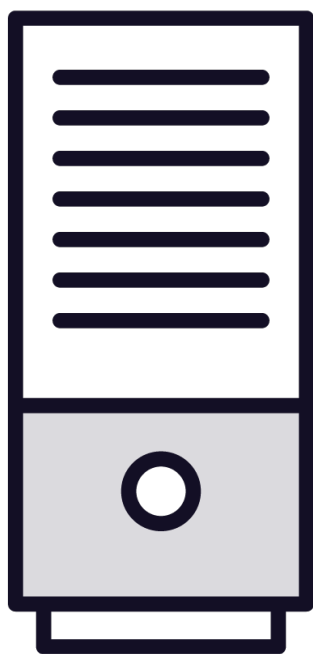


**Peter Mosmans**

Lead Penetration Tester

[www.go-forward.net](http://www.go-forward.net)









**Creator:** Nicolas Crocfer

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Locally imports all CVEs

Allows you to perform searches over it

Notifies you when specific CVEs are published or changed



# OpenCVE



Written in Python

Flask web application

Can be built from source

Requires PostgreSQL and Redis


Hosted instance available

Easy to self-host

Docker-compose file available



https://github.com/opencve/opencve

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ncrocfer fix: remove duplicates items when pagination is used ✓ fde6e7e 14 days ago 119 commits

.github	chore: remove Python 3.6 support	19 days ago
opencve	fix: remove duplicates items when pagination is used	14 days ago
tests	fix: remove duplicates items when pagination is used	14 days ago
.gitignore	chore: use pytest-coverage	2 years ago
CHANGELOG.md	bump: v1.3.0 (#171)	9 months ago
LICENSE	bump: v1.3.0 (#171)	9 months ago
MANIFEST.in	Initial commit	2 years ago
README.md	chore: remove Python 3.6 support	19 days ago
how-it-works.png	chore: update README	2 years ago
logo.png	chore: change README	2 years ago
opencve1.png	chore: change the README	10 months ago

About


CVE Alerting Platform

[www.opencve.io](http://www.opencve.io)

pythonsecurityvulnerabilitiescvenvdsecurity-tools

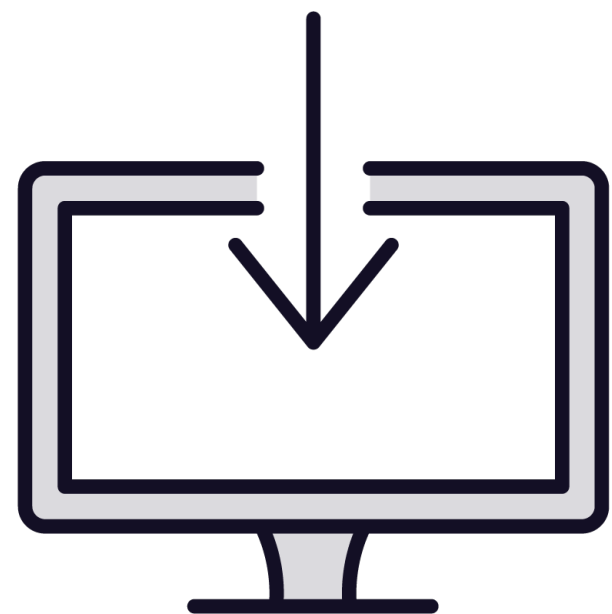
ReadmeView license1.2k stars36 watching140 forks

Releases 9

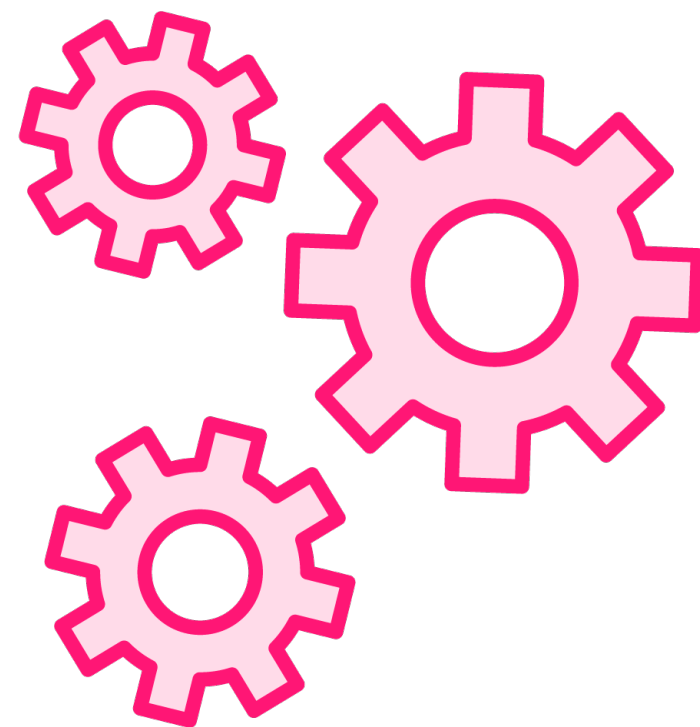
OpenCVE v1.3.0 Lateston Jan 25

+ 8 releases





**Install**



**Configure**



**Use**



# OpenCVE Use Cases



**Get notified of new or modified CVEs for specific vendors and products**

**Follow the progress of a specific CVE**

**Search for existing CVEs of products using the API**





# Common Vulnerabilities and Exposures



Unique identifier of a disclosed vulnerability

Type of vulnerability

Description

Product

Vendor

Version

<https://www.cve.org>



# NIST Cybersecurity Framework



# NIST Cybersecurity Framework



# Demo

## Installing OpenCVE using docker-compose

- Clone repository
- Configure OpenCVE
- Run OpenCVE platform
- Verify installation



# Demo

## Configure notifications

- Subscribe to vendors and products
- Verify mail server settings
- Tag specific vulnerability



# Demo

**Search for a vulnerability using the API**  
– Access the API using curl





## Summary

**Easy to install and host locally**

**By default, anonymous registration is enabled**

**Secure and place behind reverse proxy**

**Not all alerting methods enabled**

**Products can lag with pushing CVE details**



# Competitors



cve-search

Dependabot

OWASP Dependency-check





# More Information

## Capabilities

<https://docs.opencve.io/>

## Related Information

**NIST Cybersecurity Framework (CSF)**

**Secure Coding: Using Components with Known Vulnerabilities**



# Thanks for Watching!



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