

Victim Lookup Tools (Python & Ruby)

About these tools

The two tools each serve the same purpose for two different languages, python and ruby. These tools were written in the hope that they may be able to supplement the operation of the Victims database by automatically searching and adding new potential victims as required.

The architecture describing these tools is in the next page.

Use

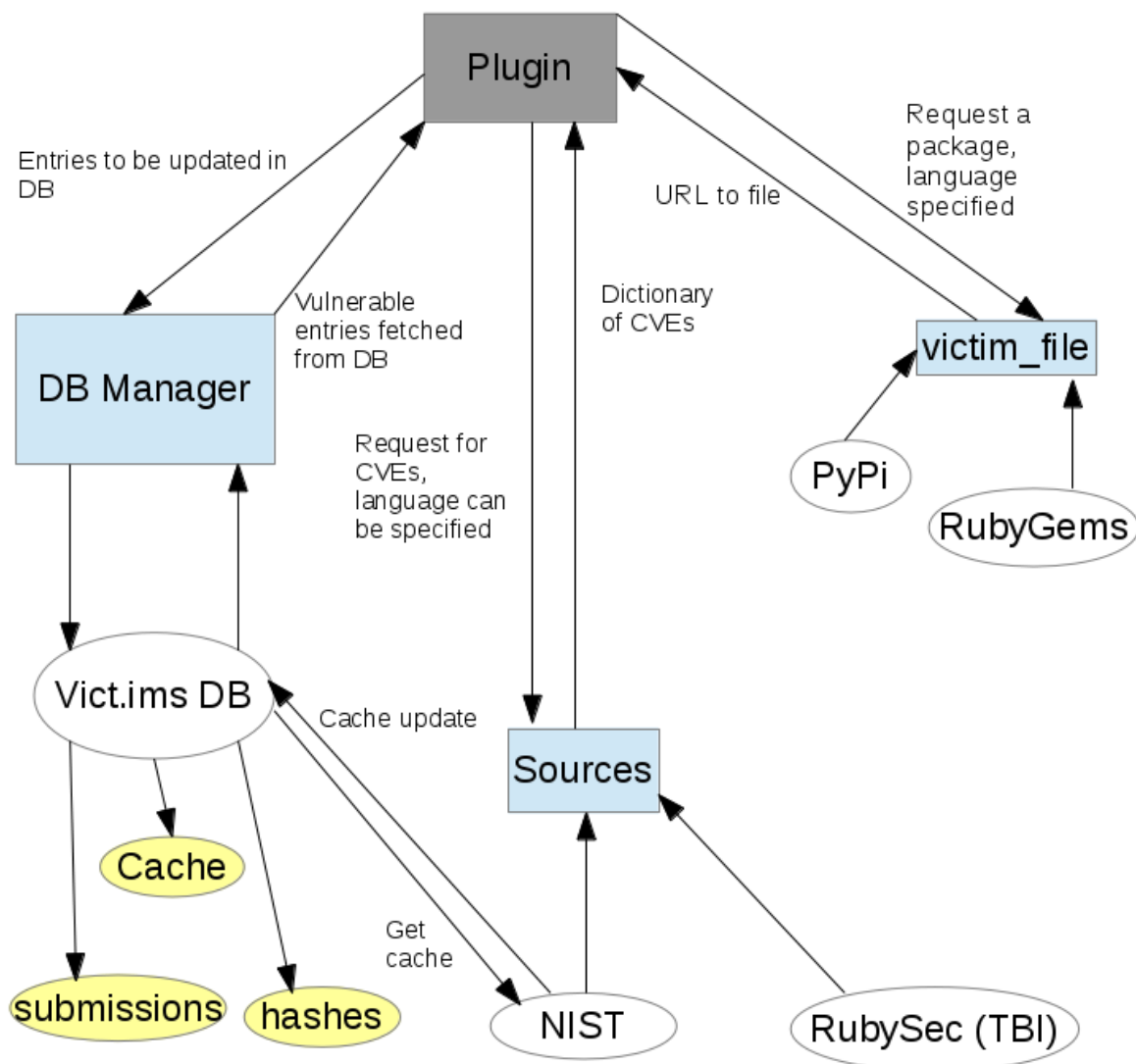
Both tools have the same use format :

```
(py/rb)_lookup_tool.py -name <package-name>
```

Issues

Description	Severity	Implication
The RubySec plugin for the sources library has not been written yet	Low	The list of entries obtained from the sources library might not contain as many Ruby-related vulnerabilities
The method used by the sources library to merge the separate dictionaries returned by the plugins may be faulty	Low	The final dictionary returned by the sources library may contain duplicates, this is not an issue at the moment because there is only one plugin being used

Architecture



Sources : A library that automatically downloads and parses a predefined list of sources and returns a dictionary of CVEs for use by the plugin.

DB Manager : A library that simplifies interaction with the vict.ims database by the plugin by abstraction.

Downloader : A library that is able to download a given, potential, vulnerable package from predefined repositories and returns a reference of the file for use by the plugin.

Plugin : Sits between all three libraries (which in total forms the framework) and uses the libraries to perform what it needs to do.