

README

CVE Data Downloader and Nuclei Scanner

This project automates the process of downloading CVE (Common Vulnerabilities and Exposures) data, extracting CVE IDs, categorizing them by technology, and scanning a target URL for vulnerabilities using the Nuclei scanner.

Features

- Downloads CVE data for specified years from the NIST NVD.
- Extracts CVE IDs from the downloaded data.
- Categorizes CVEs based on various technologies.
- Filters CVEs by year and runs a vulnerability scan using Nuclei.
- Outputs results to specified files.

Requirements

- Python 3.x
- `requests` library
- `gzip` module (included with Python)
- `json` module (included with Python)
- `glob` module (included with Python)
- `subprocess` module (included with Python)
- Nuclei scanner installed and available in your system's PATH.
- Install the required Python packages (if needed):

```
pip install requests
```

- Make sure you have Nuclei installed. You can find instructions on the Nuclei GitHub page.

Usage

1. Modify the constants in the script (`JSON_DIR` , `NUCLEI_TEMPLATE_DIR` , etc.) to match your directory structure.
2. Run the script:

```
python <script-name>.py
```

1. When prompted, enter the target URL to scan.

Output

- The script generates several output files:
 - `extracted_cve_ids.txt` : Contains all extracted CVE IDs.
 - `cve_ids_by_technology.txt` : Categorizes CVE IDs by technology.
 - `filtered_cves.txt` : Contains CVE IDs filtered by year.
 - `res-output.txt` : Contains the results of the Nuclei scan.

Example

Enter the target URL (e.g., <https://example.com>): <https://example.com>

Notes

- Ensure that you have the necessary permissions to scan the target URL.
- The script currently downloads CVE data for the years 2018 to 2024. You can modify the `START_YEAR` and `END_YEAR` constants in the script as needed.