

## REPORT:

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We conducted a codeql analysis for our repo. The codeql analysis for the Python codebase produced some valuable metric data, including a total of 1,498,399 lines of Python code in the database and 350 lines of user-written Python code. However, the analysis also uncovered some security alerts that require attention, including two instances of full server-side request forgery and two instances of Flask app being run in debug mode. These issues were identified as critical and high severity respectively and should be addressed promptly to ensure the security of the codebase.

The image shows a GitHub Actions workflow run for 'Analyze (python)' and the corresponding GitHub Security Center 'Code scanning' results.

**Workflow Run Details:**

- Job:** Analyze (python)
- Step:** Perform CodeQL Analysis
- Status:** Succeeded 5 minutes ago in 18m 17s
- Log Output:**

```
1  Run github/codeql-action/analyze@v2
28 /opt/hostedtoolcache/CodeQL/2.12.2-20230207/x64/codeql version --format=terse
29 2.12.2
30 Extracting python
4522 Finalizing python
4526 Code Scanning configuration file being processed in the codeql CLI.
4527 Running queries for python
4650 Interpreting results for python
4785 Analysis produced the following diagnostic data:
4786
4787 | Diagnostic | Summary |
4788 |-----|-----|
4789 | Successfully extracted Python files | 2 results |
4790
4791 Analysis produced the following metric data:
4792
4793 | Metric | Value |
4794 |-----|-----|
4795 | Total lines of Python code in the database | 1498399 |
4796 | Total lines of user written Python code in the database | 350 |
4797
4798 /opt/hostedtoolcache/CodeQL/2.12.2-20230207/x64/codeql database print-baseline
/home/runner/work/_temp/codeql_databases/python
4800 Counted a baseline of 401 lines of code for python.
4801 Counted a baseline of 401 lines of code for python.
4802
4803 Cleaning up databases
4809 Uploading results
4813 /opt/hostedtoolcache/CodeQL/2.12.2-20230207/x64/codeql database bundle /home/runner/work/_temp/codeql_databases/python --
output=/home/runner/work/_temp/codeql_databases/python.zip --name=python
4814 Creating bundle metadata for /home/runner/work/_temp/codeql_databases/python...
4815 Creating zip file at /home/runner/work/_temp/codeql_databases/python.zip.
```

**GitHub Security Center - Code scanning Results:**

- Repository:** NUCES-ISB / assignment-1-191906\_191691
- Latest scan:** 4 minutes ago
- Branch:** main
- Workflow:** CodeQL Analysis
- Lines scanned:** 350
- Duration:** 17m 9s
- Result:** 4 alerts

**Alerts:**

- Full server-side request forgery** (Critical) - #2 opened 4 minutes ago - Detected by CodeQL in main.py:193
- Full server-side request forgery** (Critical) - #1 opened 4 minutes ago - Detected by CodeQL in main-local.py:168
- Flask app is run in debug mode** (High) - #4 opened 4 minutes ago - Detected by CodeQL in main.py:241
- Flask app is run in debug mode** (High) - #3 opened 4 minutes ago - Detected by CodeQL in main-local.py:189

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