Hardcoded temporary directory detected

baselines/logger.py: Potentially insecure use of a temporary file/directory

```
debug("shouldn't appear")
426    set_level(DEBUG)
427    debug("should appear")
428    dir = "/tmp/testlogging"
429    if os.path.exists(dir):
430         shutil.rmtree(dir)
431    configure(dir=dir)
```

Description:

It is risky to use a hardcoded interim directory. The application can be manipulated to conduct file operations on the incorrect file or to use a malicious file instead of the anticipated temporary file. Use <u>tempfile</u> instead.

Malicious individuals can guess the file name and write to the temporary file's directory. They basically hijack the temporary file by generating a symlink with the file's name before the application creates the file itself. This enables a malicious user to submit harmful data or force the software to do activities that affect the attacker's chosen files.

To safely generate temporary files, use the <code>tempfile.TemporaryFile</code> function. Aside from creating temporary files safely, it generates random filenames that cannot be anticipated and automatically cleans up the file.

Examples:

Poor practice

```
with open('/tmp/abc', 'w') as f: # Insecure, Hard coded temporary directory
used
    f.write('stuff')
```

Recommended

```
import tempfile

# Secure, temporary file is created using tempfile.TemporaryFile

# File will be deleted on close
with tempfile.TemporaryFile() as tmp:
    tmp.write('stuff')
```

References:

- OWASP Top 10 2021 Category A04 Insecure Design
- <u>CWE 377</u> Insecure Temporary File
- Python tempfile