PROJECT PRESENTATION

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PROBLEM OVERVIEW

·Issue: Flask app running with debug=True

Severity: High

Confidence: Medium

·Risk: Exposes Werkzeug debugger, allowing arbitrary

code execution.

•CWE: CWE-94

(https://cwe.mitre.org/data/definitions/94.html)

WHYIT'S A PROBLEM ·1. Werkzeug Debugger provides detailed error pages with an interactive shell. ·2. Exposes the application to arbitrary code execution. 3. Attackers can exploit this to compromise the server and data

RECOMMENDATIONS

- 1. Never use debug=True in production.
- ·2. Use environment variables to control debug mode.
- ·3. Deploy with a production-grade WSGI server (e.g., Gunicorn).
- 4. Restrict access to the debugger in development.
- 5. Use a configuration management system







CONFIGURATION MANAGEMENT

Separate configurations for different environments:

•# config.py

·class Config:

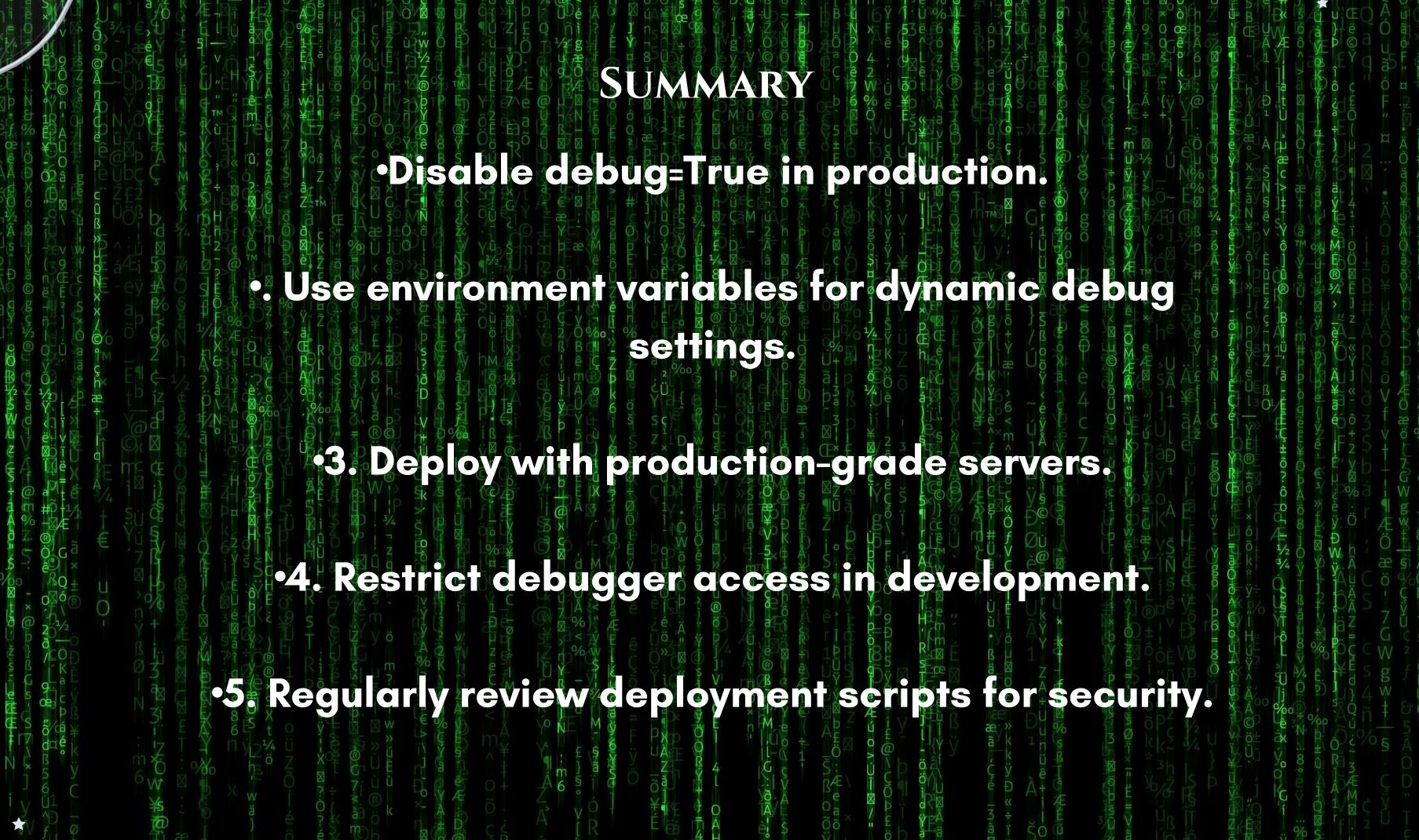
DEBUG = False

•class DevelopmentConfig(Config):

• DEBUG = True

•class ProductionConfig(Config):

• DEBUG = False



FILES

FILES FOR THE TEST PRACTICES

THANK YOU