

A dark, slightly blurred background image of a person wearing a white lab coat and blue gloves, working on a server rack in a data center filled with server racks and network equipment.

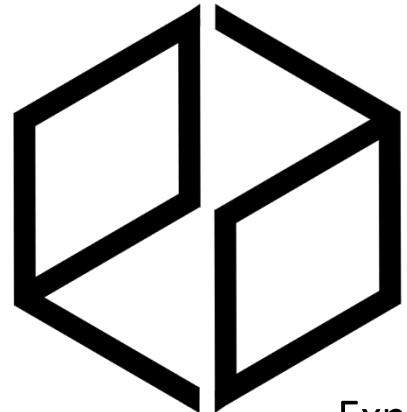
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OWASP TOP 10: #5 Security Misconfiguration
By @isaacsabas



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OWASP

Open Web Application Security Project

A1: Injection

A2: Broken
Authentication
and Session
Management

A3: Cross-Site
Scripting (XSS)

A4: Insecure
Direct Object
References

A5: Security
Misconfiguration

A6: Sensitive Data
Exposure

A7: Missing
Function Level
Access Controls

A8: Cross Site
Request Forgery
(CSRF)

A9: Using
Components with
Known
Vulnerabilities

A10: Unvalidated
Redirects and
Forwards

OWASP #5

Security Misconfiguration

OWASP Top 10 Vulnerabilities

Improper server or web application configuration that can lead to various abuse.

Security Misconfiguration

What is it?

How is this vulnerability exploited?

- Debugging feature enabled
- Incorrect directory permissions
- Using default accounts or passwords
- Publicly available setup/configuration pages
- Remote administration ports and services are publicly available

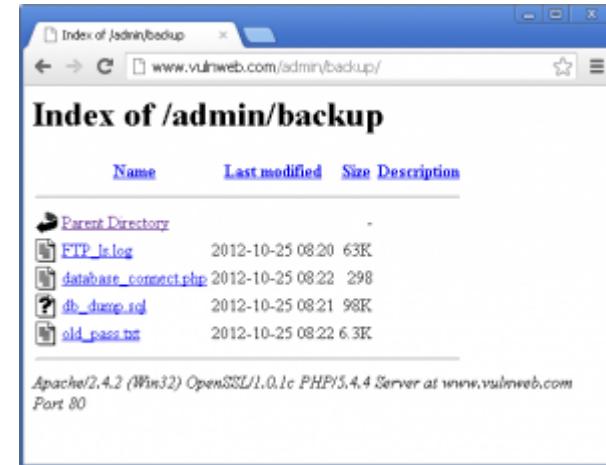
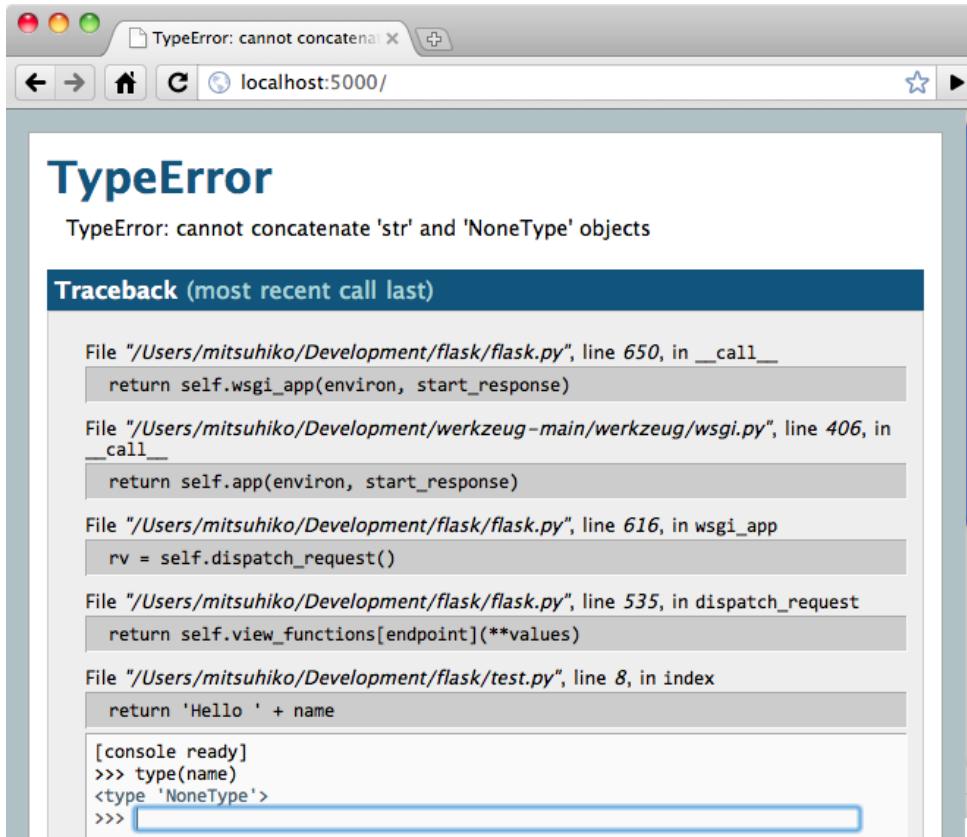
What are the Risks When Exploited?

- Data leakage or theft
- Data manipulation
- Negative impact on reputation and income

How do I Prevent Such Vulnerability?

- Apply the concept of least privilege – **Everything off by default!**
- Ensure that the web server is configured according to the secure configuration guidelines
 1. Disable administration interfaces to public
 2. Disable debugging
 3. Disable use of default passwords/accounts
 4. Configure server to prevent unauthorized access and directory listing
 5. Only allow FTP and SSH ports to be access from management IP via firewall

Sample



TIME FOR Q&A

OWASP Top 10 – Security Misconfiguration

Go download WebGoat

<https://github.com/WebGoat/WebGoat-Legacy>

TRY IT YOURSELF

Some homework for you to learn a bit more.

WebGoat Installation How-To

1. Download Java VM, JDK 1.7

2. Download WebGoat:

<https://webgoat.atlassian.net/builds/browse/WEB-WGM/latestSuccessful/artifact/shared/WebGoat-Embedded-Tomcat/WebGoat-6.0.1-war-exec.jar>

3. Run the .jar file:

1. `java -jar WebGoat-6.0-exec-war.jar`

4. Then navigate in your browser to: (<http://localhost:8080/WebGoat>)

5. Login using guest account

6. Go to Insecure Configuration and complete the exercise

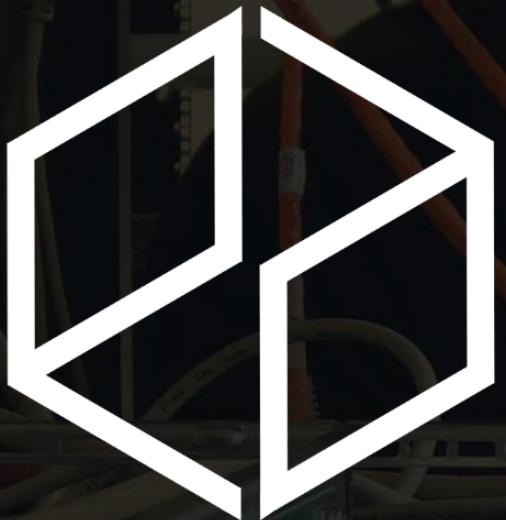
OWASP #5

Security Misconfiguration

OWASP Top 10 Vulnerabilities

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