

Scancrypt Vulnerability Report

Scan Report for: http://localhost:8081

Date: 2026-01-16 14:42:57

Executive Summary

Critical: 6

High: 5

Medium: 2

Low: 67

Info: 12

Detailed Findings

1. [Info] Technology Stack Disclosure

URL: http://localhost:8081/rce?cmd=echo 'hello'

Description:

The application discloses specific technology versions via headers or default files, which aids attackers in finding known exploits.

Remediation:

Configure the server to suppress 'Server' and 'X-Powered-By' headers. Remove default welcome pages.

2. [Low] Unknown Issue

URL: http://localhost:8081/rce?cmd=echo 'hello'

Param: cmd

Payload: ; echo 'sc_rce_test'

Description:

Remediation:

3. [High] Broken Access Control (BAC)

URL: http://localhost:8081/admin/dashboard

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Param: path

Payload: /admin/dashboard

Description:

Unprivileged users can access restricted administrative pages.

Remediation:

Enforce strict role-based access control (RBAC) on all endpoints.

Fix Snippet:

```
# Python (Decorator)
@requires_role('admin')
def admin_dashboard():
    ...
```

4. [Low] Missing Security Header

URL: http://localhost:8081/rce?cmd=echo 'hello'

Description:

The application is missing common HTTP security headers that provide protection against attacks like Clickjacking and XSS.

Remediation:

Configure the web server to send strict security headers (CSP, HSTS, X-Frame-Options).

5. [Low] Missing Security Header

URL: http://localhost:8081/rce?cmd=echo 'hello'

Description:

The application is missing common HTTP security headers that provide protection against attacks like Clickjacking and XSS.

Remediation:

Configure the web server to send strict security headers (CSP, HSTS, X-Frame-Options).

6. [Low] Missing Security Header

URL: http://localhost:8081/rce?cmd=echo 'hello'

Description:

The application is missing common HTTP security headers that provide protection against attacks like Clickjacking and XSS.

Remediation:

Configure the web server to send strict security headers (CSP, HSTS, X-Frame-Options).

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7. [Low] Missing Security Header

URL: http://localhost:8081/rce?cmd=echo 'hello'

Description:

The application is missing common HTTP security headers that provide protection against attacks like Clickjacking and XSS.

Remediation:

Configure the web server to send strict security headers (CSP, HSTS, X-Frame-Options).

8. [Low] Insecure Cookie Flags

URL: http://localhost:8081/rce?cmd=echo 'hello'

Param: session_id

Description:

Sensitive cookies are missing 'Secure', 'HttpOnly', or 'SameSite' flags.

Remediation:

Set Secure=True, HttpOnly=True, and SameSite=Strict/Lax for all session cookies.

Fix Snippet:

```
# Python (Flask)
response.set_cookie('session', value, secure=True, httponly=True, samesite='Lax')
```

9. [Info] Technology Stack Disclosure

URL: http://localhost:8081/lfi?file=test.txt

Description:

The application discloses specific technology versions via headers or default files, which aids attackers in finding known exploits.

Remediation:

Configure the server to suppress 'Server' and 'X-Powered-By' headers. Remove default welcome pages.

10. [Critical] Local File Inclusion (LFI)

URL: http://localhost:8081/lfi?file=test.txt

Param: file

Payload: ../../../../../../etc/passwd

Description:

The application allows reading arbitrary files from the server via path traversal sequences.

Remediation:

Validate user input against a whitelist of permitted filenames. Disable 'allow_url_include' in PHP.

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11. [Critical] Local File Inclusion (LFI)

URL: http://localhost:8081/lfi?file=test.txt

Param: file

Payload: ../../../../../../windows/win.ini

Description:

The application allows reading arbitrary files from the server via path traversal sequences.

Remediation:

Validate user input against a whitelist of permitted filenames. Disable 'allow_url_include' in PHP.

12. [Critical] Local File Inclusion (LFI)

URL: http://localhost:8081/lfi?file=test.txt

Param: file

Payload://....//....//etc/passwd

Description:

The application allows reading arbitrary files from the server via path traversal sequences.

Remediation:

Validate user input against a whitelist of permitted filenames. Disable 'allow_url_include' in PHP.

13. [Low] Missing Security Header

URL: http://localhost:8081/lfi?file=test.txt

Description:

The application is missing common HTTP security headers that provide protection against attacks like Clickjacking and XSS.

Remediation:

Configure the web server to send strict security headers (CSP, HSTS, X-Frame-Options).

14. [Low] Missing Security Header

URL: http://localhost:8081/lfi?file=test.txt

Description:

The application is missing common HTTP security headers that provide protection against attacks like Clickjacking and XSS.

Remediation:

Configure the web server to send strict security headers (CSP, HSTS, X-Frame-Options).

15. [Low] Missing Security Header

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URL: http://localhost:8081/lfi?file=test.txt

Description:

The application is missing common HTTP security headers that provide protection against attacks like Clickjacking and XSS.

Remediation:

Configure the web server to send strict security headers (CSP, HSTS, X-Frame-Options).

16. [Low] Missing Security Header

URL: http://localhost:8081/lfi?file=test.txt

Description:

The application is missing common HTTP security headers that provide protection against attacks like Clickjacking and XSS.

Remediation:

Configure the web server to send strict security headers (CSP, HSTS, X-Frame-Options).

17. [Low] Insecure Cookie Flags

URL: http://localhost:8081/lfi?file=test.txt

Param: session_id

Description:

Sensitive cookies are missing 'Secure', 'HttpOnly', or 'SameSite' flags.

Remediation:

Set Secure=True, HttpOnly=True, and SameSite=Strict/Lax for all session cookies.

Fix Snippet:

```
# Python (Flask)
response.set_cookie('session', value, secure=True, httponly=True, samesite='Lax')
```

18. [Info] Technology Stack Disclosure

URL: http://localhost:8081/cookie-insecure

Description:

The application discloses specific technology versions via headers or default files, which aids attackers in finding known exploits.

Remediation:

Configure the server to suppress 'Server' and 'X-Powered-By' headers. Remove default welcome pages.

19. [Low] Missing Security Header

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URL: http://localhost:8081/cookie-insecure

Description:

The application is missing common HTTP security headers that provide protection against attacks like Clickjacking and XSS.

Remediation:

Configure the web server to send strict security headers (CSP, HSTS, X-Frame-Options).

20. [Low] Missing Security Header

URL: http://localhost:8081/cookie-insecure

Description:

The application is missing common HTTP security headers that provide protection against attacks like Clickjacking and XSS.

Remediation:

Configure the web server to send strict security headers (CSP, HSTS, X-Frame-Options).

21. [Low] Missing Security Header

URL: http://localhost:8081/cookie-insecure

Description:

The application is missing common HTTP security headers that provide protection against attacks like Clickjacking and XSS.

Remediation:

Configure the web server to send strict security headers (CSP, HSTS, X-Frame-Options).

22. [Low] Missing Security Header

URL: http://localhost:8081/cookie-insecure

Description:

The application is missing common HTTP security headers that provide protection against attacks like Clickjacking and XSS.

Remediation:

Configure the web server to send strict security headers (CSP, HSTS, X-Frame-Options).

23. [Low] Insecure Cookie Flags

URL: http://localhost:8081/cookie-insecure

Param: session_id

Description:

Sensitive cookies are missing 'Secure', 'HttpOnly', or 'SameSite' flags.

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Remediation:

Set Secure=True, HttpOnly=True, and SameSite=Strict/Lax for all session cookies.

Fix Snippet:

```
# Python (Flask)
response.set_cookie('session', value, secure=True, httponly=True, samesite='Lax')
```

24. [Info] Technology Stack Disclosure

URL: http://localhost:8081/admin/dashboard

Description:

The application discloses specific technology versions via headers or default files, which aids attackers in finding known exploits.

Remediation:

Configure the server to suppress 'Server' and 'X-Powered-By' headers. Remove default welcome pages.

25. [Low] Missing Security Header

URL: http://localhost:8081/admin/dashboard

Description:

The application is missing common HTTP security headers that provide protection against attacks like Clickjacking and XSS.

Remediation:

Configure the web server to send strict security headers (CSP, HSTS, X-Frame-Options).

26. [Low] Missing Security Header

URL: http://localhost:8081/admin/dashboard

Description:

The application is missing common HTTP security headers that provide protection against attacks like Clickjacking and XSS.

Remediation:

Configure the web server to send strict security headers (CSP, HSTS, X-Frame-Options).

27. [Low] Missing Security Header

URL: http://localhost:8081/admin/dashboard

Description:

The application is missing common HTTP security headers that provide protection against attacks like Clickjacking and XSS.

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Remediation:

Configure the web server to send strict security headers (CSP, HSTS, X-Frame-Options).

28. [Low] Missing Security Header

URL: http://localhost:8081/admin/dashboard

Description:

The application is missing common HTTP security headers that provide protection against attacks like Clickjacking and XSS.

Remediation:

Configure the web server to send strict security headers (CSP, HSTS, X-Frame-Options).

29. [Low] Insecure Cookie Flags

URL: http://localhost:8081/admin/dashboard

Param: session_id

Description:

Sensitive cookies are missing 'Secure', 'HttpOnly', or 'SameSite' flags.

Remediation:

Set Secure=True, HttpOnly=True, and SameSite=Strict/Lax for all session cookies.

Fix Snippet:

```
# Python (Flask)
response.set_cookie('session', value, secure=True, httponly=True, samesite='Lax')
```

30. [Info] Technology Stack Disclosure

URL: http://localhost:8081/blind_rce?cmd=echo 'test'

Description:

The application discloses specific technology versions via headers or default files, which aids attackers in finding known exploits.

Remediation:

Configure the server to suppress 'Server' and 'X-Powered-By' headers. Remove default welcome pages.

31. [Critical] Blind Remote Code Execution

URL: http://localhost:8081/blind_rce?cmd=echo 'test'

Param: cmd

Payload: ; sleep 5

Description:

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The application executes system commands but does not return the output. Detected via time delays.

Remediation:

Avoid using system calls. Validate input strictly against a whitelist.

32. [Low] Missing Security Header

URL: http://localhost:8081/blind_rce?cmd=echo 'test'

Description:

The application is missing common HTTP security headers that provide protection against attacks like Clickjacking and XSS.

Remediation:

Configure the web server to send strict security headers (CSP, HSTS, X-Frame-Options).

33. [Low] Missing Security Header

URL: http://localhost:8081/blind_rce?cmd=echo 'test'

Description:

The application is missing common HTTP security headers that provide protection against attacks like Clickjacking and XSS.

Remediation:

Configure the web server to send strict security headers (CSP, HSTS, X-Frame-Options).

34. [Low] Missing Security Header

URL: http://localhost:8081/blind_rce?cmd=echo 'test'

Description:

The application is missing common HTTP security headers that provide protection against attacks like Clickjacking and XSS.

Remediation:

Configure the web server to send strict security headers (CSP, HSTS, X-Frame-Options).

35. [Low] Missing Security Header

URL: http://localhost:8081/blind_rce?cmd=echo 'test'

Description:

The application is missing common HTTP security headers that provide protection against attacks like Clickjacking and XSS.

Remediation:

Configure the web server to send strict security headers (CSP, HSTS, X-Frame-Options).

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36. [Low] Insecure Cookie Flags

URL: http://localhost:8081/blind_rce?cmd=echo 'test'

Param: session_id

Description:

Sensitive cookies are missing 'Secure', 'HttpOnly', or 'SameSite' flags.

Remediation:

Set Secure=True, HttpOnly=True, and SameSite=Strict/Lax for all session cookies.

Fix Snippet:

```
# Python (Flask)
response.set_cookie('session', value, secure=True, httponly=True, samesite='Lax')
```

37. [Info] Technology Stack Disclosure

URL: http://localhost:8081/csti?search=vue

Description:

The application discloses specific technology versions via headers or default files, which aids attackers in finding known exploits.

Remediation:

Configure the server to suppress 'Server' and 'X-Powered-By' headers. Remove default welcome pages.

38. [Low] Unknown Issue

URL: http://localhost:8081/csti?search=vue

Param: search

Payload: ; echo 'sc_rce_test'

Description:

Remediation:

39. [High] Client-Side Template Injection (CSTI)

URL: http://localhost:8081/csti?search=vue

Param: search

Payload: {{7*7}}

Description:

The application reflects user input that is interpreted by client-side frameworks (Angular, Vue).

Remediation:

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Escape user input before embedding it in templates. Use 'ng-non-bindable' or 'v-pre'.

40. [Medium] Reflected Cross-Site Scripting (XSS)

URL: http://localhost:8081/csti?search=vue

Param: search

Payload: <sc_test>

Description:

The application reflects untrusted data in a web page without proper validation or escaping, allowing execution of malicious scripts.

Remediation:

Context-aware output encoding (escaping) of all user input before rendering it in the browser.

Fix Snippet:

```
# Python (Jinja2) - Auto-escapes by default
{{ user_input }}

# JavaScript (React) - Safe by default
<div>{userInput}</div>
```

41. [Low] Missing Security Header

URL: http://localhost:8081/csti?search=vue

Description:

The application is missing common HTTP security headers that provide protection against attacks like Clickjacking and XSS.

Remediation:

Configure the web server to send strict security headers (CSP, HSTS, X-Frame-Options).

42. [Low] Missing Security Header

URL: http://localhost:8081/csti?search=vue

Description:

The application is missing common HTTP security headers that provide protection against attacks like Clickjacking and XSS.

Remediation:

Configure the web server to send strict security headers (CSP, HSTS, X-Frame-Options).

43. [Low] Missing Security Header

URL: http://localhost:8081/csti?search=vue

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Description:

The application is missing common HTTP security headers that provide protection against attacks like Clickjacking and XSS.

Remediation:

Configure the web server to send strict security headers (CSP, HSTS, X-Frame-Options).

44. [Low] Missing Security Header

URL: http://localhost:8081/csti?search=vue

Description:

The application is missing common HTTP security headers that provide protection against attacks like Clickjacking and XSS.

Remediation:

Configure the web server to send strict security headers (CSP, HSTS, X-Frame-Options).

45. [Low] Insecure Cookie Flags

URL: http://localhost:8081/csti?search=vue

Param: session_id

Description:

Sensitive cookies are missing 'Secure', 'HttpOnly', or 'SameSite' flags.

Remediation:

Set Secure=True, HttpOnly=True, and SameSite=Strict/Lax for all session cookies.

Fix Snippet:

```
# Python (Flask)
response.set_cookie('session', value, secure=True, httponly=True, samesite='Lax')
```

46. [Info] Technology Stack Disclosure

URL: http://localhost:8081/sqli?id=1

Description:

The application discloses specific technology versions via headers or default files, which aids attackers in finding known exploits.

Remediation:

Configure the server to suppress 'Server' and 'X-Powered-By' headers. Remove default welcome pages.

47. [Low] Missing Security Header

URL: http://localhost:8081/sqli?id=1

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Description:

The application is missing common HTTP security headers that provide protection against attacks like Clickjacking and XSS.

Remediation:

Configure the web server to send strict security headers (CSP, HSTS, X-Frame-Options).

48. [Low] Missing Security Header

URL: http://localhost:8081/sql?i=1

Description:

The application is missing common HTTP security headers that provide protection against attacks like Clickjacking and XSS.

Remediation:

Configure the web server to send strict security headers (CSP, HSTS, X-Frame-Options).

49. [Low] Missing Security Header

URL: http://localhost:8081/sql?i=1

Description:

The application is missing common HTTP security headers that provide protection against attacks like Clickjacking and XSS.

Remediation:

Configure the web server to send strict security headers (CSP, HSTS, X-Frame-Options).

50. [Low] Missing Security Header

URL: http://localhost:8081/sql?i=1

Description:

The application is missing common HTTP security headers that provide protection against attacks like Clickjacking and XSS.

Remediation:

Configure the web server to send strict security headers (CSP, HSTS, X-Frame-Options).

51. [Low] Insecure Cookie Flags

URL: http://localhost:8081/sql?i=1

Param: session_id

Description:

Sensitive cookies are missing 'Secure', 'HttpOnly', or 'SameSite' flags.

Remediation:

Scancrypt Vulnerability Report

Set Secure=True, HttpOnly=True, and SameSite=Strict/Lax for all session cookies.

Fix Snippet:

```
# Python (Flask)
response.set_cookie('session', value, secure=True, httponly=True, samesite='Lax')
```

52. [Info] Technology Stack Disclosure

URL: http://localhost:8081/cors

Description:

The application discloses specific technology versions via headers or default files, which aids attackers in finding known exploits.

Remediation:

Configure the server to suppress 'Server' and 'X-Powered-By' headers. Remove default welcome pages.

53. [High] CORS Misconfiguration (Insecure Origin)

URL: http://localhost:8081/cors

Payload: *Origin: http://evil-scanner.com*

Description:

The application accepts arbitrary origins (Access-Control-Allow-Origin: * or null), allowing attackers to steal data.

Remediation:

Whitelist trusted origins. Do not reflect the 'Origin' header blindly.

54. [Low] Missing Security Header

URL: http://localhost:8081/cors

Description:

The application is missing common HTTP security headers that provide protection against attacks like Clickjacking and XSS.

Remediation:

Configure the web server to send strict security headers (CSP, HSTS, X-Frame-Options).

55. [Low] Missing Security Header

URL: http://localhost:8081/cors

Description:

The application is missing common HTTP security headers that provide protection against attacks like Clickjacking and XSS.

Remediation:

Scancrypt Vulnerability Report

Configure the web server to send strict security headers (CSP, HSTS, X-Frame-Options).

56. [Low] Missing Security Header

URL: http://localhost:8081/cors

Description:

The application is missing common HTTP security headers that provide protection against attacks like Clickjacking and XSS.

Remediation:

Configure the web server to send strict security headers (CSP, HSTS, X-Frame-Options).

57. [Low] Missing Security Header

URL: http://localhost:8081/cors

Description:

The application is missing common HTTP security headers that provide protection against attacks like Clickjacking and XSS.

Remediation:

Configure the web server to send strict security headers (CSP, HSTS, X-Frame-Options).

58. [Low] Insecure Cookie Flags

URL: http://localhost:8081/cors

Param: session_id

Description:

Sensitive cookies are missing 'Secure', 'HttpOnly', or 'SameSite' flags.

Remediation:

Set Secure=True, HttpOnly=True, and SameSite=Strict/Lax for all session cookies.

Fix Snippet:

```
# Python (Flask)
response.set_cookie('session', value, secure=True, httponly=True, samesite='Lax')
```

59. [Info] Technology Stack Disclosure

URL: http://localhost:8081/api/user/100

Description:

The application discloses specific technology versions via headers or default files, which aids attackers in finding known exploits.

Remediation:

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Configure the server to suppress 'Server' and 'X-Powered-By' headers. Remove default welcome pages.

60. [High] Broken Object Level Authorization (BOLA/IDOR)

URL: http://localhost:8081/api/user/100

Param: path

Payload: 101

Description:

The application allows access to objects belonging to other users by manipulating IDs.

Remediation:

Implement proper authorization checks for every object access.

Fix Snippet:

```
# Python (Secure)
if document.owner_id != current_user.id:
    abort(403, "Access Denied")
```

61. [Low] Missing Security Header

URL: http://localhost:8081/api/user/100

Description:

The application is missing common HTTP security headers that provide protection against attacks like Clickjacking and XSS.

Remediation:

Configure the web server to send strict security headers (CSP, HSTS, X-Frame-Options).

62. [Low] Missing Security Header

URL: http://localhost:8081/api/user/100

Description:

The application is missing common HTTP security headers that provide protection against attacks like Clickjacking and XSS.

Remediation:

Configure the web server to send strict security headers (CSP, HSTS, X-Frame-Options).

63. [Low] Missing Security Header

URL: http://localhost:8081/api/user/100

Description:

The application is missing common HTTP security headers that provide protection against attacks like Clickjacking and XSS.

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Remediation:

Configure the web server to send strict security headers (CSP, HSTS, X-Frame-Options).

64. [Low] Missing Security Header

URL: http://localhost:8081/api/user/100

Description:

The application is missing common HTTP security headers that provide protection against attacks like Clickjacking and XSS.

Remediation:

Configure the web server to send strict security headers (CSP, HSTS, X-Frame-Options).

65. [Low] Insecure Cookie Flags

URL: http://localhost:8081/api/user/100

Param: session_id

Description:

Sensitive cookies are missing 'Secure', 'HttpOnly', or 'SameSite' flags.

Remediation:

Set Secure=True, HttpOnly=True, and SameSite=Strict/Lax for all session cookies.

Fix Snippet:

```
# Python (Flask)
response.set_cookie('session', value, secure=True, httponly=True, samesite='Lax')
```

66. [Info] Technology Stack Disclosure

URL: http://localhost:8081/ssti?name=Guest

Description:

The application discloses specific technology versions via headers or default files, which aids attackers in finding known exploits.

Remediation:

Configure the server to suppress 'Server' and 'X-Powered-By' headers. Remove default welcome pages.

67. [Low] Unknown Issue

URL: http://localhost:8081/ssti?name=Guest

Param: name

Payload: ; echo 'sc_rce_test'

Description:

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Remediation:

68. [Critical] Server-Side Template Injection (SSTI)

URL: http://localhost:8081/ssti?name=Guest

Param: name

Payload: \${{7*7}}

Description:

The application blindly processes user input inside a template engine. This often leads to RCE.

Remediation:

Do not pass user input directly to templates. Use a 'Sandboxed' environment.

69. [High] Client-Side Template Injection (CSTI)

URL: http://localhost:8081/ssti?name=Guest

Param: name

Payload: {{1+1}}

Description:

The application reflects user input that is interpreted by client-side frameworks (Angular, Vue).

Remediation:

Escape user input before embedding it in templates. Use 'ng-non-bindable' or 'v-pre'.

70. [Medium] Reflected Cross-Site Scripting (XSS)

URL: http://localhost:8081/ssti?name=Guest

Param: name

Payload: <sc_test>

Description:

The application reflects untrusted data in a web page without proper validation or escaping, allowing execution of malicious scripts.

Remediation:

Context-aware output encoding (escaping) of all user input before rendering it in the browser.

Fix Snippet:

```
# Python (Jinja2) - Auto-escapes by default
{{ user_input }}

# JavaScript (React) - Safe by default
<div>{userInput}</div>
```

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71. [Low] Missing Security Header

URL: http://localhost:8081/ssti?name=Guest

Description:

The application is missing common HTTP security headers that provide protection against attacks like Clickjacking and XSS.

Remediation:

Configure the web server to send strict security headers (CSP, HSTS, X-Frame-Options).

72. [Low] Missing Security Header

URL: http://localhost:8081/ssti?name=Guest

Description:

The application is missing common HTTP security headers that provide protection against attacks like Clickjacking and XSS.

Remediation:

Configure the web server to send strict security headers (CSP, HSTS, X-Frame-Options).

73. [Low] Missing Security Header

URL: http://localhost:8081/ssti?name=Guest

Description:

The application is missing common HTTP security headers that provide protection against attacks like Clickjacking and XSS.

Remediation:

Configure the web server to send strict security headers (CSP, HSTS, X-Frame-Options).

74. [Low] Missing Security Header

URL: http://localhost:8081/ssti?name=Guest

Description:

The application is missing common HTTP security headers that provide protection against attacks like Clickjacking and XSS.

Remediation:

Configure the web server to send strict security headers (CSP, HSTS, X-Frame-Options).

75. [Low] Insecure Cookie Flags

URL: http://localhost:8081/ssti?name=Guest

Param: session_id

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Description:

Sensitive cookies are missing 'Secure', 'HttpOnly', or 'SameSite' flags.

Remediation:

Set Secure=True, HttpOnly=True, and SameSite=Strict/Lax for all session cookies.

Fix Snippet:

```
# Python (Flask)
response.set_cookie('session', value, secure=True, httponly=True, samesite='Lax')
```

76. [Info] Technology Stack Disclosure

URL: http://localhost:8081

Description:

The application discloses specific technology versions via headers or default files, which aids attackers in finding known exploits.

Remediation:

Configure the server to suppress 'Server' and 'X-Powered-By' headers. Remove default welcome pages.

77. [Low] Sensitive Data Exposure

URL: http://localhost:8081

Description:

The application exposes sensitive information (emails, keys, passwords) in its responses.

Remediation:

Ensure sensitive data is not returned in API responses or HTML comments. Use generic error messages.

78. [Low] Sensitive Data Exposure

URL: http://localhost:8081

Description:

The application exposes sensitive information (emails, keys, passwords) in its responses.

Remediation:

Ensure sensitive data is not returned in API responses or HTML comments. Use generic error messages.

79. [Low] Missing Security Header

URL: http://localhost:8081

Description:

The application is missing common HTTP security headers that provide protection against attacks like Clickjacking and XSS.

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Remediation:

Configure the web server to send strict security headers (CSP, HSTS, X-Frame-Options).

80. [Low] Missing Security Header

URL: http://localhost:8081

Description:

The application is missing common HTTP security headers that provide protection against attacks like Clickjacking and XSS.

Remediation:

Configure the web server to send strict security headers (CSP, HSTS, X-Frame-Options).

81. [Low] Missing Security Header

URL: http://localhost:8081

Description:

The application is missing common HTTP security headers that provide protection against attacks like Clickjacking and XSS.

Remediation:

Configure the web server to send strict security headers (CSP, HSTS, X-Frame-Options).

82. [Low] Missing Security Header

URL: http://localhost:8081

Description:

The application is missing common HTTP security headers that provide protection against attacks like Clickjacking and XSS.

Remediation:

Configure the web server to send strict security headers (CSP, HSTS, X-Frame-Options).

83. [Low] Insecure Cookie Flags

URL: http://localhost:8081

Param: session_id

Description:

Sensitive cookies are missing 'Secure', 'HttpOnly', or 'SameSite' flags.

Remediation:

Set Secure=True, HttpOnly=True, and SameSite=Strict/Lax for all session cookies.

Fix Snippet:

```
# Python (Flask)
```

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```
response.set_cookie('session', value, secure=True, httponly=True, samesite='Lax')
```

84. [Info] Technology Stack Disclosure

URL: http://localhost:8081/jwt-none

Description:

The application discloses specific technology versions via headers or default files, which aids attackers in finding known exploits.

Remediation:

Configure the server to suppress 'Server' and 'X-Powered-By' headers. Remove default welcome pages.

85. [Low] Unknown Issue

URL: http://localhost:8081/jwt-none

Param: auth_token

Payload: JWT Deteced

Description:

Remediation:

86. [Critical] Insecure JWT (Alg: None)

URL: http://localhost:8081/jwt-none

Param: auth_token

Payload: eyJhbGciOiJub25lIn0.eyJ1c2VyljoiYWRtaW4ifQ.

Description:

The application allows JSON Web Tokens with 'alg': 'none', which bypasses signature verification.

Remediation:

Enforce strong algorithms (RS256/HS256) and reject 'none' algorithm.

Fix Snippet:

```
# Python (PyJWT)
payload = jwt.decode(token, key, algorithms=[ "HS256" ])
# Never use verify=False or allow 'none'
```

87. [Low] Missing Security Header

URL: http://localhost:8081/jwt-none

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Description:

The application is missing common HTTP security headers that provide protection against attacks like Clickjacking and XSS.

Remediation:

Configure the web server to send strict security headers (CSP, HSTS, X-Frame-Options).

88. [Low] Missing Security Header

URL: http://localhost:8081/jwt-none

Description:

The application is missing common HTTP security headers that provide protection against attacks like Clickjacking and XSS.

Remediation:

Configure the web server to send strict security headers (CSP, HSTS, X-Frame-Options).

89. [Low] Missing Security Header

URL: http://localhost:8081/jwt-none

Description:

The application is missing common HTTP security headers that provide protection against attacks like Clickjacking and XSS.

Remediation:

Configure the web server to send strict security headers (CSP, HSTS, X-Frame-Options).

90. [Low] Missing Security Header

URL: http://localhost:8081/jwt-none

Description:

The application is missing common HTTP security headers that provide protection against attacks like Clickjacking and XSS.

Remediation:

Configure the web server to send strict security headers (CSP, HSTS, X-Frame-Options).

91. [Low] Insecure Cookie Flags

URL: http://localhost:8081/jwt-none

Param: session_id

Description:

Sensitive cookies are missing 'Secure', 'HttpOnly', or 'SameSite' flags.

Remediation:

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Set Secure=True, HttpOnly=True, and SameSite=Strict/Lax for all session cookies.

Fix Snippet:

```
# Python (Flask)
response.set_cookie('session', value, secure=True, httponly=True, samesite='Lax')
```

92. [Low] Insecure Cookie Flags

URL: http://localhost:8081/jwt-none

Param: auth_token

Description:

Sensitive cookies are missing 'Secure', 'HttpOnly', or 'SameSite' flags.

Remediation:

Set Secure=True, HttpOnly=True, and SameSite=Strict/Lax for all session cookies.

Fix Snippet:

```
# Python (Flask)
response.set_cookie('session', value, secure=True, httponly=True, samesite='Lax')
```
