
Example Report

Demo Company

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Introduction

A pentest of the xyz application of Z GmbH was performed from November, 4th to November, 18th 2024. The pentest was performed over the internet against a dedicated pentest instance `pentest.xyz.com`. Additionally, root access to the underlying server of `pentest.xyz.com` as well as full access to the code of the XYZ application were granted. During a technical kick-off call, a detailed introduction into the architecture of the application was given.

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Scope

Customer

Test Inc.
Test Street 1
12345 Example City

- **Tim Customer**
 - tim@customer.com
-

Service Provider

Lauritz Holtmann
Südring 25
44787 Bochum

Project Team

- **Lauritz Holtmann**
 - pentest@lauritz-holtmann.de
-

Period: 2025-01-01 - 2025-01-12

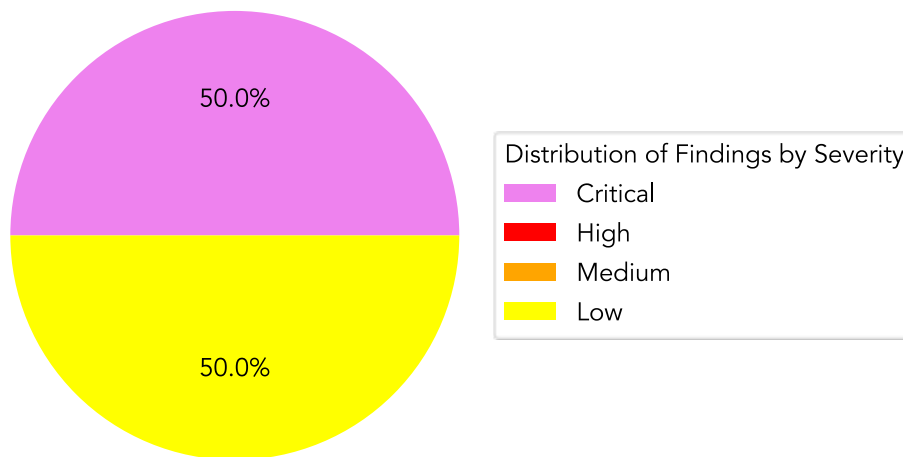
Assets

- Web-Application **Test Shop**
- Database Server **Test DB**

Technical Details

In this section, all identified vulnerabilities are described in detail.

During the pentest, 1 finding(s) with *critical* severity, 0 finding(s) with *high* severity, 0 finding(s) with *medium* severity and 1 finding(s) with *low* severity were identified.



- **Critical** #PEN20250001: XXE in Test Shop ([CWE-CWE-611](#))
- **Low** #PEN20250002: Open Redirect in Test Shop ([CWE-CWE-601](#))

Fixed Findings

The following findings have been addressed and are listed for completeness. They are excluded from statistics and charts above.

- **Fixed** #PEN20250001: XSS in Test Shop ([CWE-CWE-79](#))

#PEN20250001: XXE in Test Shop

Asset	CWE	Severity (CVSS v3.1 Base Score)	CVSS v3.1 Vector
Test Shop	CWE-611	Critical (9.1)	CVSS:3.1/AV:N/AC:L/PR:N/UI:N/S:U/C:H/I:H/A:N

Description

This type of vulnerability arises, if an application processes XML and is configured to support external entities.

Exemplary Payload:

```
<?xml version="1.0" encoding="UTF-8"?>
<!DOCTYPE abcd [ <!ENTITY xxe SYSTEM "file:///etc/passwd"> ]>
<example>
  <item>&xxe;</item>
</example>
```

Recommendation

It is recommended to completely disable external entities (DTDs). Further guidance can be found in OWASP's [XML External Entity Prevention Cheat Sheet](#).

References

- [OWASP: XML External Entity \(XXE\) Processing](#)

#PEN20250002: Open Redirect in Test Shop

Asset	CWE	Severity (CVSS v3.1 Base Score)	CVSS v3.1 Vector
Test Shop	CWE-601	Low (3.1)	CVSS:3.1/AV:N/AC:H/PR:N/UI:R/S:U/C:N/I:L/A:N

Description

This type of vulnerability arises, if an application redirects to untrusted URLs.

Exemplary Request:

```
GET /redirect?to=https://lhq.at HTTP/1.1
Host: test.shop
```

Response:

```
HTTP/1.1 302 Found
Location: https://lhq.at
```

Recommendation

It is recommended to do not dynamically redirect to untrusted URLs. Further guidance can be found in OWASP's [Open Redirect Prevention Cheat Sheet](#).

References

- [OWASP: Open Redirect Prevention Cheat Sheet](#)

Conclusion

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Appendix

This chapter includes further supporting materials for this pentest report.

Used Tools

The following tools were used in the course of this pentest:

- [Caido: A lightweight web security auditing toolkit](#)
- [Burp Suite Professional: Intercepting Proxy](#)
- [nmap: Network Mapper](#)
- [Nikto: Web server scanner](#)
- [SQLmap: SQL injection and database tool](#)
- [Nuclei: Vulnerability scanner](#)
- [AuRA: Auth. Request Analyser](#)
- [ssllscan: SSL/TLS service scanner](#)
- [testssl: SSL/TLS service scanner](#)
- [metasploit: penetration testing framework](#)
- [Chromium: Web Browser + Development Tools](#)

Methodology

This penetration test was performed based on industry standards such as the *OWASP Web Security Testing Guide* and the *OWASP Top 10*. The *OWASP Top 10* is regularly updated and covers the most common and relevant threats for web applications. Pentests of mobile applications are additionally performed based on the *OWASP Mobile Security Testing Guide*. Further, pentests of single sign-on (SSO) solutions are performed based on best practices such as the *OAuth 2.0 Security Best Current Practice* as well as current research.

Timeline of a pentest

A typical timeline of a pentest execution could look as follows:

1. Organizational meeting to discuss the general conditions and the scope
2. Technical meeting to discuss which preparatory actions need to be taken
3. Execution of the pentest
 1. Continuous communications and status updates for all stakeholders, for instance via chat or e-mail
 2. Optional: Immediate access to results in a draft state, for instance via a shared folder or Git repository
4. Creation and submission of the detailed PDF report
5. Final meeting with a presentation of results

After the pentest results are shared, the remediation phase takes place. Optionally, during this phase further consulting can take place. After the identified issues are remediated, typically a retest is performed to verify that the applied measurements effectively address the identified vulnerabilities.

