Example Report

Demo Company

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Date 2022-08-19

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Introduction

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Scope

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Customer

Test Inc.
Test Street 1
12345 Test

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

Service Provider

Lauritz Holtmann
Test Street 5
12345 Test

Project Team

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

Period: 2022-01-01 - 2022-01-12

Assets

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

Technical Details

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

During the pentest, *12* findings with *high* severity, *3* findings with *medium* severity and one finding with informational severity were identified.

- **High**: Example
- **Informational**: Lorem
- **Informational**: Ipsum

#PEN20220001: XXE in Test Shop

Asset	CWE	Severity (CVSS v3.0 Base Score)	CVSS v3.0 Vektor
Test Shop	CWE-611	Critical (9.1)	*CVSS:3.0/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

#PEN20220002: XSS in Test Shop

Asset	CWE	Severity (CVSS v3.0 Base Score)	CVSS v3.0 Vektor
Test Shop	CWE-79	High (7.1)	*CVSS:3.0/AV:N/AC:L/PR:N/UI:R/S:U/C:H/I:L/A:N*

Description

A *Cross-Site Scripting* vulnerability has been identified.

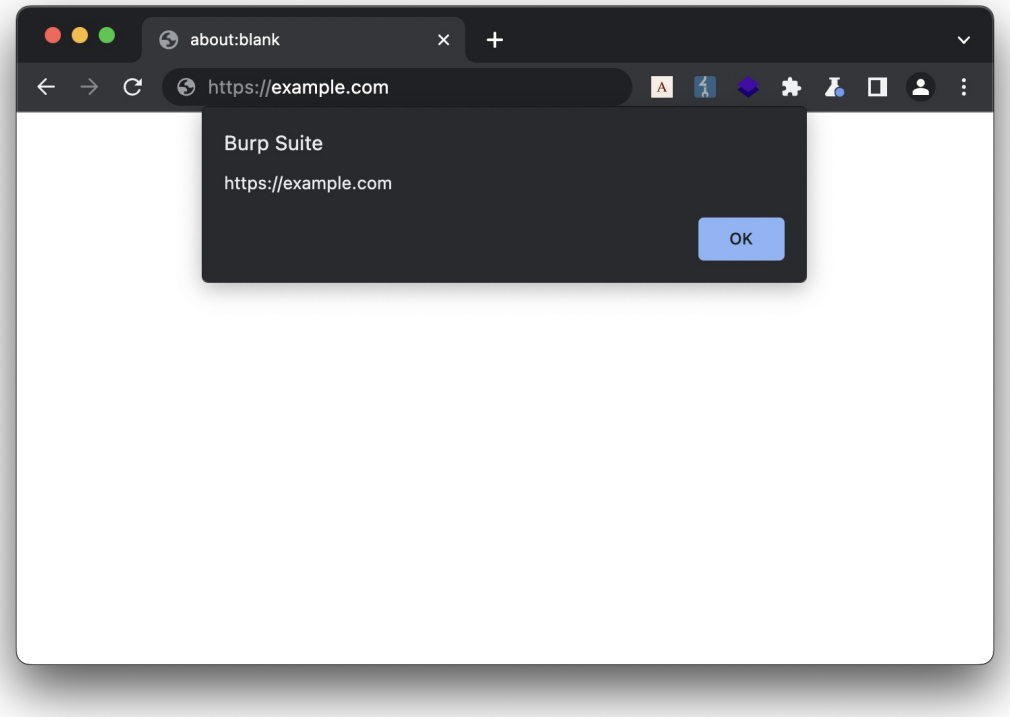
This type of vulnerability arises, if an application uses user-controlled inputs to generate dynamic outputs in an insecure manner.

Exemplary Payload:

```
<s>test</s>
```

JavaScript:

```
3   [...]
4   function demo() {
5       alert(1);
6   }
```



Recommendation

It is recommended to consider all input to the application as potentially dangerous. If user-controlled contents are embedded within the application, they need to be encoded and/or filtered in a *context aware* manner. If the contents are for instance reflected within the JavaScript Context, a different encoding and sanitization needs to be performed than for the HTML context. Further guidance can be found within OWASP's *Cross Site Scripting Prevention Cheat Sheet*.

References

- OWASP: Cross-Site Scripting (XSS)

Conclusion

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