

PENETRATION TEST REPORT

Example, Inc.

Example Pentest

yyyy-mm-dd (1.0)

This report is for the sole information and use of Example, Inc.

Secure By Default, Inc.

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Executive Summary

Example, Inc. (i.e. the customer) engaged Secure By Default, Inc. to conduct a penetration test on their systems. In accordance with the customer the following types of penetration tests have been conducted:

- pentest against IP hosts
- pentest against web applications

Vulnerabilities with severity scores between 6 and 9.8 (on a scale from 0–10) have been found (see Table 1). A detailed list thereof, including descriptions on how they were found, and recommendations for mitigations, can be found in Section 2.

Table 1: The vulnerability classes, the highest severity, and the number of issues per class.

Class	Severity	Issues
Class A		2
Class B		1
Total		3

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Contents

1 Introduction 4

1.1 Personnel 4

1.2 Scope 4

1.3 Methodology 4

1.4 Requirements 4

1.5 Provided Information 5

1.6 Limitations 5

1.7 Tools 5

2 Results 6

2.1 Lorem Ipsum Dolor sit Amet 7

2.1.1 Evidence 7

2.1.2 Affected Assets 7

2.1.3 Severity 7

2.1.4 Recommendations 8

2.1.5 References 8

2.1.6 Images 9

2.2 Aenean Gravida Pulvinar Lacus 10

2.2.1 Evidence 10

2.2.2 Affected Assets 10

2.2.3 Severity 10

2.2.4 Recommendations 10

2.2.5 References 10

2.3 [EXAMPLE] Lorem Ipsum Dolor sit Amet 11

2.3.1 Evidence 11

2.3.2 Affected Assets 11

2.3.3 Severity 11

2.3.4 Recommendations 12

2.3.5 References 12

2.3.6 Images 12

1 Introduction

Example, Inc. (i.e. the customer) engaged Secure By Default, Inc. to conduct a penetration test on their systems. In accordance with the customer the following types of penetration tests have been conducted:

- pentest against IP hosts
- pentest against web applications

1.1 Personnel

The following people were involved in this penetration test:

- Customer (customer@example.com)
- Software Engineer (se@example.com)
- Project Lead (lead@sbd.local)
- Pentester (hacker@sbd.local)

1.2 Scope

Between yyyy-mm-dd and yyyy-mm-dd the following components have been analyzed:

- `example.com` (application server)
- `https://example.com/` (web application + API)

All test-related IP traffic originates from the following addresses:

- `192.168.0.0/24`

1.3 Methodology

This section explains how Secure By Default conducts a penetration test (e.g. OSSTMM 3). It also introduces vulnerability scoring systems (e.g. CVSS, DREAD).

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1.4 Requirements

Secure By Default required the following from the customer:

- technical contact personnel: fulfilled
- user accounts (at least two per type) for the web application: fulfilled
- API access token: fulfilled
- OpenAPI Specification document for the API: none provided

1.5 Provided Information

The customer has provided the following additional information:

- source code of the web application
- Apache config

1.6 Limitations

Due to the time-constrained nature of audits, it is common to encounter coverage limitations. The following limitations were identified during this engagement. Secure By Default recommends further review and/or retesting of the affected systems/components.

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1.7 Tools

The following tools have been used during the engagement:

- Nmap: network scanner
- cURL: command-line tool for transferring data using various network protocols
- testssl.sh: TLS scanning tool
- Nessus: vulnerability scanner
- Burp Suite: web application security scanner
- Git: collaboration tool
- L^AT_EX: document preparation

2 Results

Table 2: Vulnerabilities and their severity.

Vulnerability	Severity
Lorem Ipsum Dolor sit Amet	<div><div></div></div> 9.8
Aenean Gravida Pulvinar Lacus	<div><div></div></div> 6

Table 3: Vulnerabilities and their severity (component “EXAMPLE”).

Vulnerability	Severity
[EXAMPLE] Lorem Ipsum Dolor sit Amet	<div><div></div></div> 6.4

2.1 Lorem Ipsum Dolor sit Amet

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2.1.1 Evidence

2.1.1.1 vulnerable.example.com

Repellat corporis aut odio veniam non autem vel. Repudiandae rerum et unde. Accusamus quae et repellat. Quod deserunt facilis voluptate dignissimos quidem ut iste.

```
$ curl -iks https://vulnerable.example.com/ | grep -i 'server:'  
Server: Apache 2.14
```

You can link to images: see Figure 1.

Severity: critical

2.1.1.2 POST api.example.com/v2/resource

Possimus facilis aliquid consequatur consequuntur quos perferendis quia. Magni eveniet quas omnis culpa assumenda doloribus voluptas. Vero repellat sed vero facere error ducimus et.

You can also link to other issues: see Section 2.3.

Severity: low

2.1.2 Affected Assets

- vulnerable.example.com
- api.example.com

2.1.3 Severity



Attack Vector

 Adjacent Local Physical

Attack Complexity

 High

Privileges Required

 Low High

User Interaction

 Required

Scope

 Changed

Confidentiality

None Low

Integrity

None Low

Availability

None Low

2.1.4 Recommendations

- Alias velit cumque sit.
- Ut quisquam et a cupiditate.
- Ut nemo ratione fugiat.

2.1.5 References

- Reference A
- Reference B
- Reference C

2.1.6 Images



Figure 1: Vero repellat sed vero facere error ducimus et.

2.2 Aenean Gravida Pulvinar Lacus

Nullam gravida urna eget massa sagittis sodales. Aenean venenatis convallis diam. Nulla eu nulla eget ligula bibendum placerat in vel nisi. Class aptent taciti sociosqu ad litora torquent per conubia nostra, per inceptos himenaeos.

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2.2.1 Evidence

2.2.1.1 GET api.example.com/v2/resource

Lorem ipsum dolor sit amet, consectetur adipiscing elit. Integer ac massa non sapien congue hendrerit vel ac augue. Pellentesque eros mi, sagittis in metus vestibulum, pretium iaculis est.

Severity: medium

2.2.2 Affected Assets

- api.example.com

2.2.3 Severity



Damage	Low	Medium	High
Reliability	Low	Medium	High
Exploitability	Low	Medium	High
Affected Users	Low	Medium	High
Discoverability	Low	Medium	High

2.2.4 Recommendations

- Mauris at nisi finibus velit.
- Sed ut ligula hendrerit orci elementum luctus.
- Fusce dignissim nisi non dolor suscipit mattis.

2.2.5 References

- Example Reference
- Another Reference

2.3 [EXAMPLE] Lorem Ipsum Dolor sit Amet

Repellat corporis aut odio veniam non autem vel. Repudiandae rerum et unde. Accusamus quae et repellat. Quod deserunt facilis voluptate dignissimos quidem ut iste. Accusantium sed et maiores deleniti. Officia eaque ad est amet.

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Omnis

Dolorem omnis unde itaque sit architecto autem sequi. Ut nemo ratione fugiat. Veniam incidunt voluptatum cumque aut. Rerum est odio cupiditate id esse sed rerum.

2.3.1 Evidence

2.3.1.1 vulnerable.example.com

Repellat corporis aut odio veniam non autem vel. Repudiandae rerum et unde. Accusamus quae et repellat. Quod deserunt facilis voluptate dignissimos quidem ut iste.

```
$ curl -iks https://vulnerable.example.com/ | grep -i 'server:'
Server: Apache 2.14
```

Ut quisquam et a cupiditate (see Figure 2).

Severity: critical

2.3.1.2 POST api.example.com/v2/resource

Possimus facilis aliquid consequatur consequuntur quos perferendis quia. Magni eveniet quas omnis culpa assumenda doloribus voluptas. Vero repellat sed vero facere error ducimus et.

Severity: low

2.3.2 Affected Assets

- vulnerable.example.com
- api.example.com

2.3.3 Severity



Access VectorLocal Adjacent Network **Access Complexity**High Medium **Authentication**Multiple Single **Confidentiality Impact**None Complete**Integrity Impact**None Complete**Availability Impact** Partial Complete**2.3.4 Recommendations**

- Alias velit cumque sit.
- Ut quisquam et a cupiditate.
- Ut nemo ratione fugiat.

2.3.5 References

- Reference A
- Reference B
- Reference C

2.3.6 Images

Figure 2: Vero repellat sed vero facere error ducimus et.