

# 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
<b>Total</b>		<b>3</b>

Quisque ut finibus mauris. Etiam mattis nisl nulla, eu iaculis urna tincidunt vitae. Etiam pellentesque metus vel luctus malesuada. Phasellus auctor scelerisque nisi sed semper. Aliquam vel molestie nulla, nec lacinia mi. In a feugiat erat, at laoreet lorem.

Nunc sit amet tristique sem. Fusce arcu erat, mollis sit amet velit ac, tincidunt porta lorem. Suspendisse at augue aliquet, sodales tellus et, molestie lorem. Phasellus id pharetra tellus. Phasellus vel condimentum justo. Maecenas sem ligula, tincidunt quis scelerisque quis, ultrices ut quam.

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# 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).

Ex cumque unde ipsum molestias. Perferendis aut veritatis quas cum fugiat ea. Eligendi consequatur cupiditate excepturi. Aliquam blanditiis non nihil hic exercitationem unde.

Optio magni quasi nulla nobis adipisci. Consequuntur placeat omnis impedit dolorum id. Eum assumenda nam in earum ea. Ipsa aliquam facilis cupiditate eos. Nam est neque ipsam quis voluptatum.

Adipisci quo architecto ex fugit dolorem. Inventore soluta perspiciatis minus dolores dolore ipsam iste tempora. Vel et sunt suscipit praesentium vitae voluptatem sequi inventore.

## 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.

### Dapibus

In dapibus est nec elit fermentum, et lacinia ipsum auctor. Praesent rhoncus, metus a tempor ultricies, ex ligula consequat elit, non sollicitudin massa libero vel odio. Duis blandit cursus metus. Quisque ac tincidunt lorem. Cras laoreet urna sed mi sagittis, et sagittis enim mattis. Praesent porttitor, dolor sagittis egestas hendrerit, ex neque sagittis sapien, vel tincidunt dui libero et sem. Fusce a odio faucibus, finibus augue non, aliquam augue.

### Convallis

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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<sup>A</sup>T<sub>E</sub>X: 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

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.

### Blanditiis

Blanditiis reprehenderit aspernatur aliquam qui. Ut quisquam et a cupiditate. Eum quaerat adipisci in cum esse reiciendis laborum.

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

### Laudantium

Qui quia et aut officiis laudantium possimus possimus. Alias velit cumque sit. Et hic ipsum dolores et porro voluptatem. Non sunt quaerat sit cum error dolorem sapiente.

### 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.

#### 2.1.1 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**

<input type="checkbox"/> Network	<input type="checkbox"/> Adjacent	<input type="checkbox"/> Local	<input type="checkbox"/> Physical
----------------------------------	-----------------------------------	--------------------------------	-----------------------------------

**Scope**

<input type="checkbox"/> Unchanged	<input type="checkbox"/> Changed
------------------------------------	----------------------------------

**Attack Complexity**

<input type="checkbox"/> Low	<input type="checkbox"/> High
------------------------------	-------------------------------

**Confidentiality**

<input type="checkbox"/> None	<input type="checkbox"/> Low	<input type="checkbox"/> High
-------------------------------	------------------------------	-------------------------------

**Privileges Required**

<input type="checkbox"/> None	<input type="checkbox"/> Low	<input type="checkbox"/> High
-------------------------------	------------------------------	-------------------------------

**Integrity**

<input type="checkbox"/> None	<input type="checkbox"/> Low	<input type="checkbox"/> High
-------------------------------	------------------------------	-------------------------------

**User Interaction**

<input type="checkbox"/> None	<input type="checkbox"/> Required
-------------------------------	-----------------------------------

**Availability**

<input type="checkbox"/> None	<input type="checkbox"/> Low	<input type="checkbox"/> High
-------------------------------	------------------------------	-------------------------------

**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.

### Curibatur

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### Rhoncus

Aenean rhoncus rhoncus elit. 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. Ut euismod tortor in quam iaculis tempus. Vestibulum sed consequat sem.

### 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.
- Do something specific, not mentioned in the issue template.

### 2.2.5 References

- Example Reference
- Another Reference
- Some Additional Reference Not Mentioned in the Issue Template

## 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.

### Blanditiis

Blanditiis reprehenderit aspernatur aliquam qui. Ut quisquam et a cupiditate. Eum quaerat adipisci in cum esse reiciendis laborum.

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

### Laudantium

Qui quia et aut officiis laudantium possimus possimus. Alias velit cumque sit. Et hic ipsum dolores et porro voluptatem. Non sunt quaerat sit cum error dolorem sapiente.

### 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 Vector**

Local    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.