Duale Hochschule Baden-Württemberg
Mannheim

Pentest Report

Pentesting Project X

Studiengang Cyber Security

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Abstract

Deutsche Version

Englische Version

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Abkürzungsverzeichnis

DUT   Device Under Testing

1 Introduction

1.1 Scope

Who gave the assignment? What is the Device under Test (DUT)? What have you received for the test (hardware, information, etc.)? Add email with hash sum of the mail to the report.

1.2 Severities

For each vulnerability you uncover in your testing, you typically provide: The likelihood of exploitation, taking into account how easy it is to discover and exploit The impact on the control you get once exploited Suggested remediation Suggested validation of remediation effectiveness

Low Moderate High Severe Critical

1.3 Classification

1.4 Effort to Fix

Low Moderate High

2 Management Summary

Short Summary for non technical people. what are key takeeaways and recommendations? how urgent is acting neccessary?

3 Technical Summary

summery for technical people

3.1 Findings Overview

table that contains the findings you'll describe later, sorted by severity Helps quickly triage results

3.2 Used Tools

4 Findings

4.1 Finding 1 - Exact OpenSSH-Version can be determined

Classification: Information Disclosure **CVE:** **Severity:** Low

4.1.1 Finding Description

A nmap port scan reveils the exact version of the running OpenSSH-Server on the Device Under Testing (DUT). The version used on the DUT is **"OpenSSH 8.4p1 Debian 5+deb11u1"** and can be accessed via port 22.

4.1.2 Finding Impact

This information can be used by an attacker to find known vulnerabilities in this specific OpenSSH-Version to exploit the DUT.

4.1.3 Finding Cause

This finding is caused by OpenSSH itself. There is no configuration option to hide the version of the SSH-Server. The version-banner can be found in the sshd binary.

4.1.4 Finding Details

```
1 $ nmap -A 172.16.0.29
2 Starting Nmap 7.91 ( https://nmap.org ) at 2023-03-06 09:30 CEST
3 Nmap scan report for 172.16.0.29
4 Host is up (0.00051s latency).
5 PORT STATE SERVICE VERSION
6 22/tcp open ssh OpenSSH 8.4p1 Debian 5+deb11u1 (protocol 2.0)
```

4.1.5 Evaluation of Results

Effort to Fix: Medium

To fix this finding the OpenSSH Binary has to be changed. By default the binary can be found at '/usr/sbin/sshd'. Change the binary with hexedit and search for the version banner. After removing the version banner restart the ssh service wit 'systemctl restart sshd.service'. Due to the fact of the risk of working on the binary itself, this finding is rated as medium effort to fix.

5 Results