

OSCP Exam Report

Offensive Security Certified Professional

Candidate Name: John Doe

OS-ID: OS-123456

Exam Date: May 15, 2025

Institute: Ethical Hacking Training Institute

Instructor: Mr. Aakash Sharma

Table of Contents

1. Introduction
2. Exam Environment and Setup
3. Exploitation Summary
4. Target Machines
 - 4.1 Machine 1 – Alpha
 - 4.2 Machine 2 – Bravo
 - 4.3 Machine 3 – Charlie
 - 4.4 Machine 4 – Delta
 - 4.5 Machine 5 – Buffer Overflow
5. Buffer Overflow Walkthrough
6. Privilege Escalation Techniques Used
7. Final Root Flag Summary
8. Lessons Learned
9. Tools Used
10. Screenshots
11. Conclusion

1. Introduction

This report provides a detailed account of the exploitation process performed during the OSCP 24-hour certification exam. Each target machine was attacked using manual methods, scripts, and tools, with privilege escalation achieved where required. Screenshots, flags, and supporting evidence are included in each section.

2. Exam Environment and Setup

- **Operating System:** Kali Linux 2024.4
- **Tools Used:** nmap, gobuster, metasploit (minimal), netcat, python, linpeas, smbclient
- **VPN Connection:** Established via .ovpn file provided by Offensive Security
- **Notes Tool:** CherryTree
- **Report Tool:** LibreOffice / Word (for export to PDF)

3. Exploitation Summary

Machine Name	IP Address	Initial Access	Privilege Escalation	Root Flag Found
Alpha	10.10.10.5	RFI	Sudo Misconfig	Yes
Bravo	10.10.10.6	SMB Null Share	Kernel Exploit	Yes
Charlie	10.10.10.7	WebShell	Cron Job Abuse	Yes
Delta	10.10.10.8	FTP Login	PATH Hijacking	Yes
BufferOverflow	10.10.10.9	BOF Exploit	Local System Access	Yes

4. Target Machines

4.1 Machine 1 – Alpha

- **IP:** 10.10.10.5
- **Initial Exploit:** RFI via vulnerable.php?page=../../etc/passwd
- **Privilege Escalation:** User had sudo access to /usr/bin/vim
- **Exploit:** Used sudo vim -c '!sh' to escalate to root
- **Root Flag:** 6d9ab3c3b23f1239...

Screenshot:

4.2 Machine 2 – Bravo

- **IP:** 10.10.10.6
- **Initial Exploit:** Anonymous SMB login; download of backup files
- **Exploit:** Discovered hardcoded credentials, SSH login
- **Privilege Escalation:** Kernel exploit using dirtycow.c
- **Root Flag:** 91d29fd1212bdabc...

4.3 Machine 3 – Charlie

- **IP:** 10.10.10.7
- **Initial Exploit:** LFI and reverse shell via vulnerable webapp
- **Privilege Escalation:** Found cronjob running script in /tmp
- **Exploit:** Replaced script with reverse shell
- **Root Flag:** f21cdac23183abc4...

4.4 Machine 4 – Delta

- **IP:** 10.10.10.8
- **Initial Exploit:** FTP login with default creds
- **Exploit:** Found .sh file executed by root via PATH hijacking
- **Root Flag:** 9a321cdef90123dd...

5. Buffer Overflow Walkthrough

Target: 10.10.10.9 (Buffer Overflow Machine)

- **Vulnerable Service:** Custom binary running on port 31337
- **Tool Used:** Immunity Debugger, mona.py
- **Steps:**
 1. Sent fuzzed payload to find crash offset
 2. Identified EIP offset (524)
 3. Controlled EIP with exact pattern

4. Verified bad characters
5. Generated shellcode using msfvenom
6. Final Payload:

```
junk = "A"*524      eip = "\xF3\x12\x17\x31"      nop = "\x90"*16
shellcode = [reverse shell payload]
```

- **Exploit Result:** Reverse shell as SYSTEM
- **Root Flag:** 7cd3bbd8fab3213...

Screenshot:

6. Privilege Escalation Techniques Used

Technique	Used On
Sudo Misconfiguration	Alpha
Kernel Exploit	Bravo
Cron Job Abuse	Charlie
PATH Variable Hijack	Delta
BOF to SYSTEM Shell	BOF Target

7. Final Root Flag Summary

Machine Root Flag

Alpha	6d9ab3c3b23f1239...
Bravo	91d29fd1212bdabc...
Charlie	f21cdac23183abc4...
Delta	9a321cdef90123dd...
BOF	7cd3bbd8fab3213...

8. Lessons Learned

- Automation helps, but manual enumeration is key
- Time management is crucial, especially during the last 8 hours

- Taking notes using CherryTree greatly aided report writing
- Practice buffer overflows thoroughly to avoid errors during exam

9. Tools Used

- nmap
- gobuster
- enum4linux
- metasploit (minimal use)
- linpeas
- msfvenom
- mona.py
- gdb
- netcat
- python3
- vim, nano

10. Screenshots

(Screenshots of each root flag, privilege escalation step, buffer overflow shell, and initial foothold)

11. Conclusion

All five machines were successfully exploited with root-level access, and all required flags were collected and documented as per Offensive Security guidelines. The Ethical Hacking Training Institute provided excellent preparation for the OSCP exam with hands-on lab simulations, expert mentorship, and structured reporting practice.