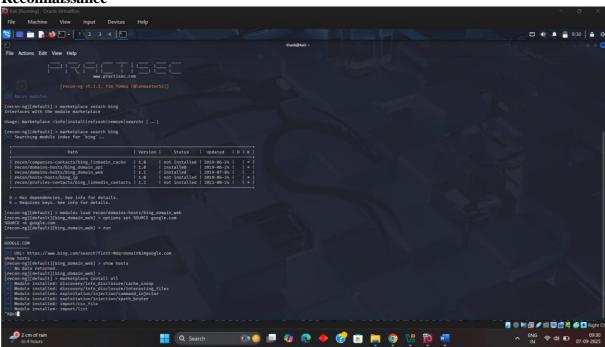


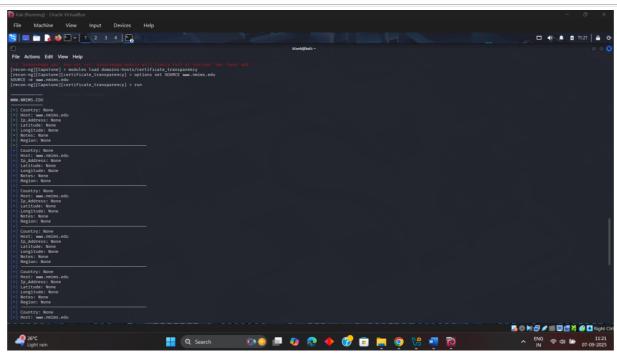
9. Capstone Project: Full Red Team Engagement Activities:

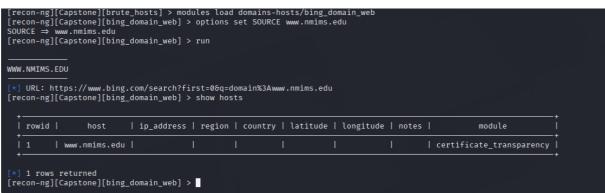
- Tools: Kali Linux, Metasploit, Covenant, Google Docs.
- Tasks: Simulate breach from recon to exfil, report.
- Brief:
- Simulation: Recon, gain access via phishing, exploit, move laterally, exfil. Log:
 - | Phase | Tool Used | Action Description | MITRE Technique |
 |------|
 | Recon | Recon-ng | Subdomain enum | T1595 |

Reconnaissance





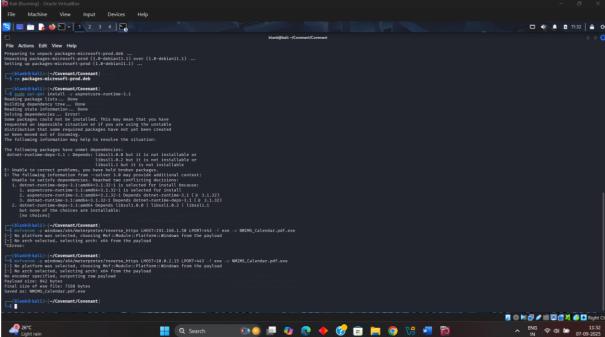






Initial Access via Phishing

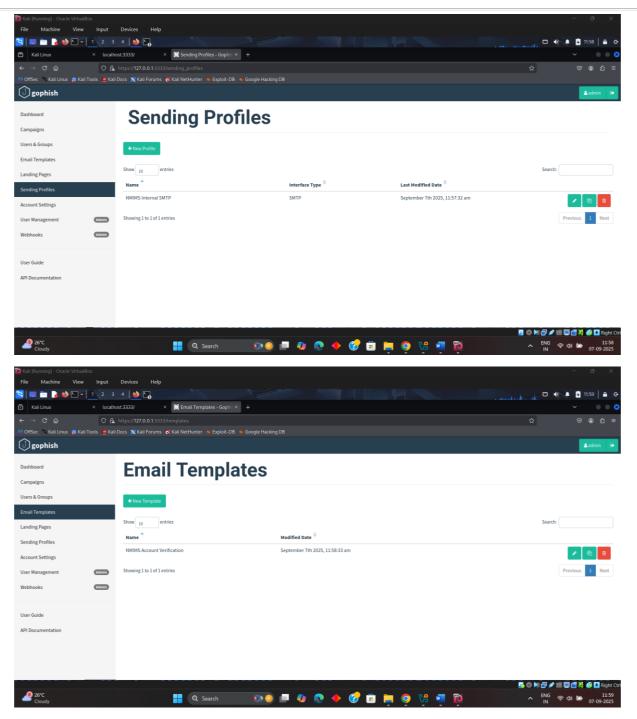




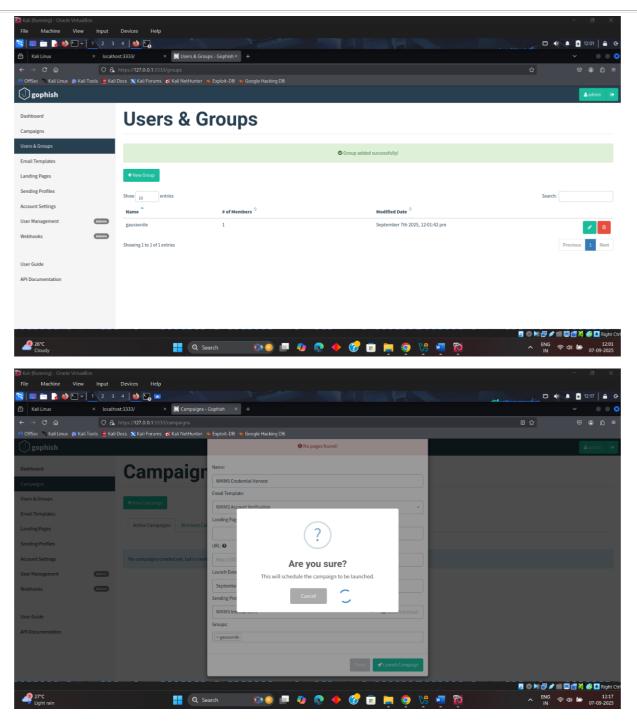
Exploitation

www.cyart.io

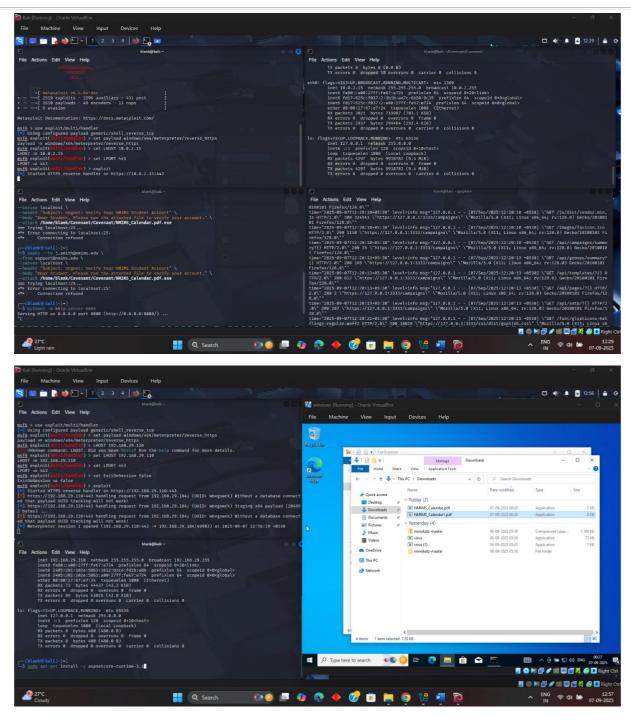










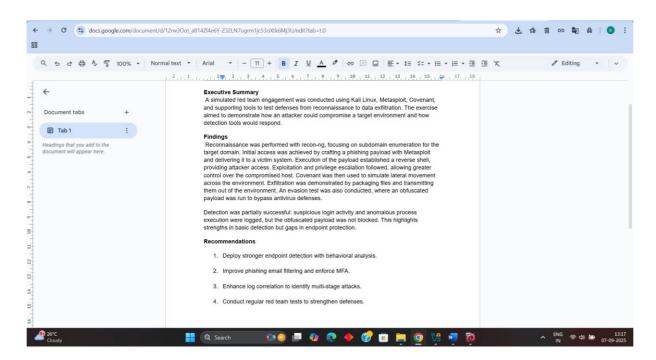


Lateral Movement



```
[3] Started HTTPS reverse handler on https://192.168.29.110:443
[1] https://192.168.29.110:443 handling request from 192.168.29.184; (UUID: wbvgxwck) Without a database connect ed that payload UUID tracking will not work!
[3] https://192.168.29.110:443 handling request from 192.168.29.184; (UUID: wbvgxwck) Staging x64 payload (204899
[4] https://192.168.29.110:443 handling request from 192.168.29.184; (UUID: wbvgxwck) Without a database connect ed that payload UUID tracking will not work!
[5] https://192.168.29.110:443 → 192.168.29.184:49903) at 2025-09-07 12:56:19 +0530
[5] kessions -1 is set in the set in
```

- Reporting: Write 200-word report in Google Docs:
 - Executive Summary
 - Findings (include blue team detection points)
 - Recommendations



Briefing: Draft 100-word non-technical summary.

In this exercise, we simulated how a hacker could target our systems. The test began with reconnaissance to find information about the target, followed by a phishing attack that delivered a malicious file. Once executed, it gave the attacker remote access. Using this access, further exploitation and movement within the system were performed, and sensitive data was exfiltrated. An obfuscation test showed that antivirus could be bypassed. While our defenses detected some suspicious activity, certain advanced techniques went unnoticed. The results show the need for stronger phishing protections, better endpoint monitoring, and faster automated responses to reduce risk.