hydra tool ppt

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Research on THC-HYDRA

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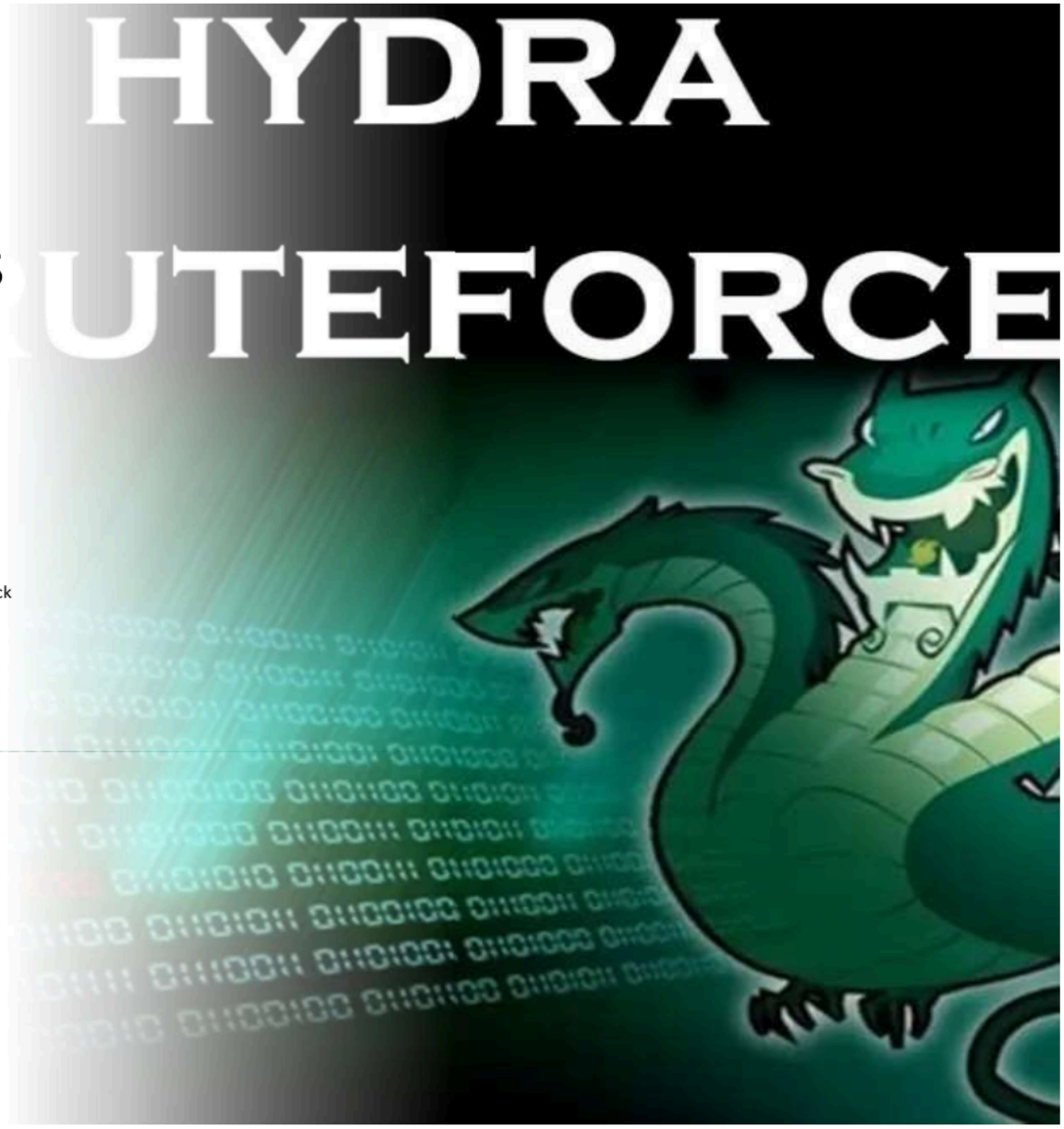
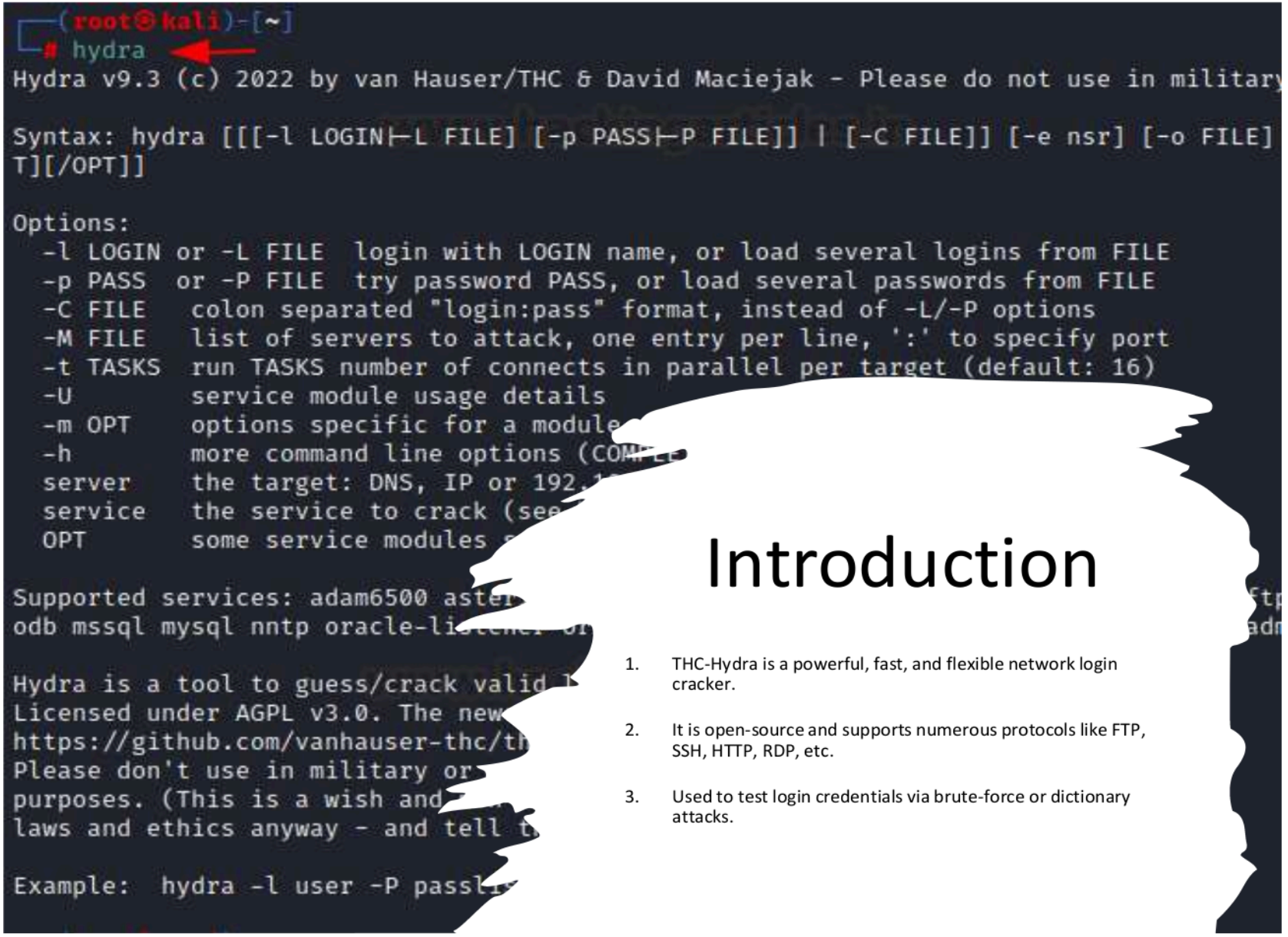
Module: Security and Forensics Tools

Table of Contents



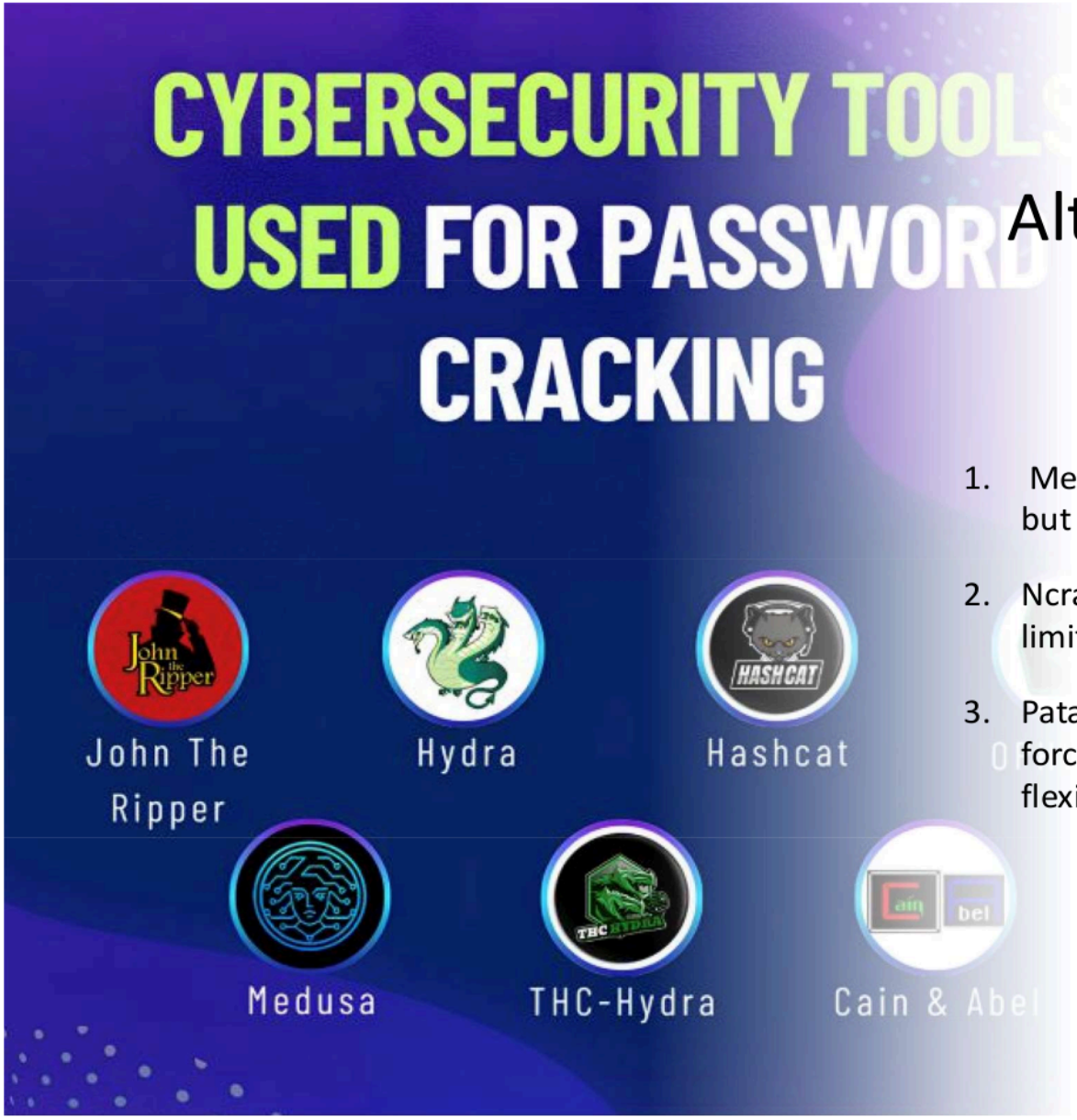


Introduction

1. THC-Hydra is a powerful, fast, and flexible network login cracker.
2. It is open-source and supports numerous protocols like FTP, SSH, HTTP, RDP, etc.
3. Used to test login credentials via brute-force or dictionary attacks.

Purpose and Applicability

1. Main purpose: Identify weak login credentials.
2. Used by ethical hackers, penetration testers, and security auditors.
3. Applicable for login security tests in multiple network environments.



Alternatives

1. Medusa - Similar to Hydra but older and less active.
2. Ncrack - Built for SSH/RDP, limited protocol support.
3. Patator - Modular brute-force tool, slower but flexible.

Comparison with Medusa and Ncrack

1. Hydra: High-speed, protocol-rich, command-line based.
2. Medusa: Similar speed, less active development.
3. Ncrack: Specialized for SSH/RDP, fewer options, simpler interface.

Strengths

1. Supports wide range of protocols.
2. Highly customizable and scriptable.
3. Parallel connections for fast cracking.
4. Regularly updated and widely used.

vanhauser-thc/thc-hydra

#921 **RDP brute force failed with correct password**

vanhauser-thc/thc-hydra

#619 **Missing GET parameters and Hydra never ends**

vanhauser-thc/thc-hydra

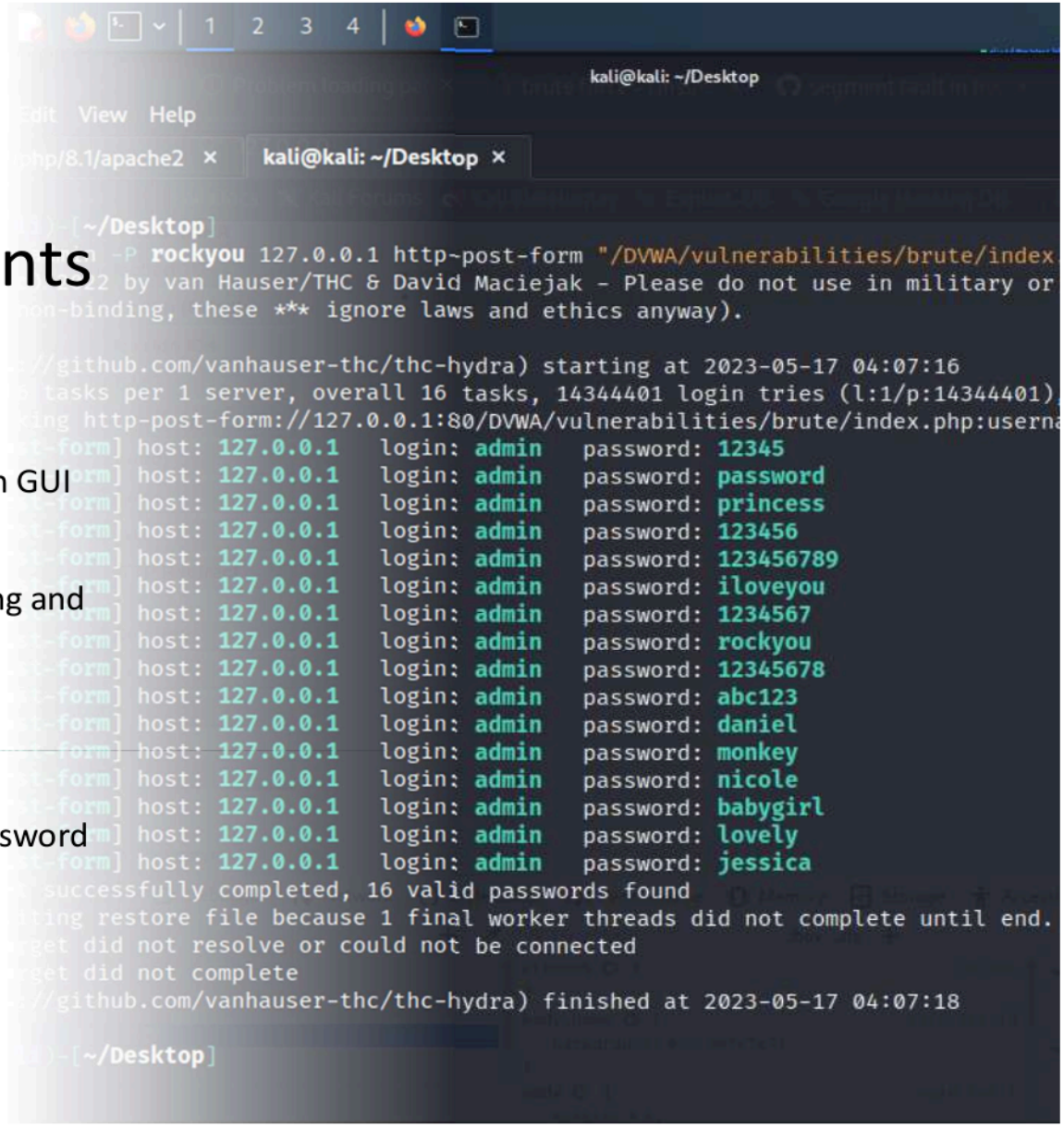
#339 **Hydra marks password as valid,while it isn't**

Weaknesses and Limitations

- No GUI (command-line only).
- May trigger IDS/IPS during scan.
- Requires quality wordlists to be effective.
- No built-in reporting or result visualization.

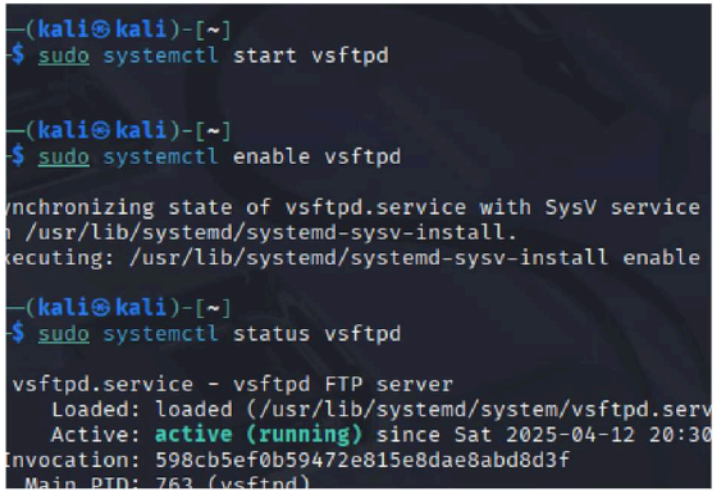
Future Enhancements

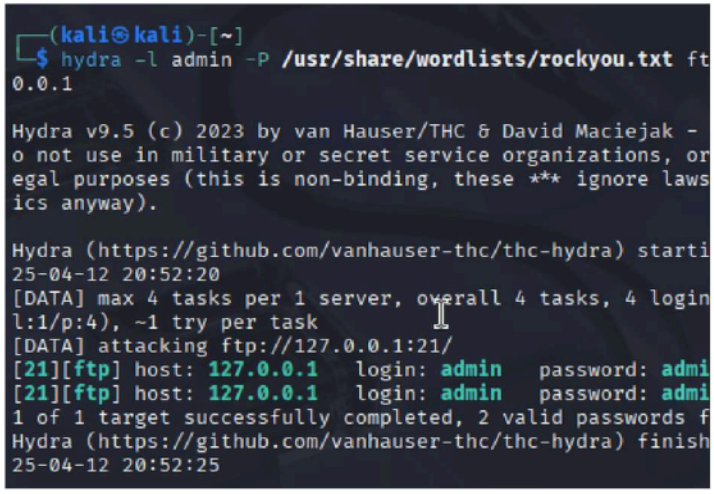
1. Add a cross-platform GUI frontend.
2. Improve log reporting and export formats.
3. Introduce detection evasion modes.
4. Integrate leaked password databases for smart guessing.



Demonstration and Case study

- Target: Local FTP server.
- Command: hydra -l admin -P rockyou.txt ftp://127.0.0.1
- Hydra uses a dictionary to try logins.
- Output shows success when password is found.
- This demonstrates Hydra's capability for credential testing.






Will I Use THC-Hydra?
• YES – it's fast, reliable, and feature-rich.
• Ideal for red team and internal security testing.
• Powerful tool when used ethically and legally.

Conclusion and Recommendation

1. Hydra is a vital tool for network security testing.
2. Despite some CLI limitations, its power is unmatched.
3. Continued development ensures future-proof capability.
4. Highly recommended for professional use.

Useful Pentesting Tool

HYDRA

in Kali linux machine

References

1. https://github.com/vanhauser-thc/thc-hydra
2. https://sectools.org/tool/hydra/
3. https://null-byte.wonderhowto.com/how-to/use-hydra-crack-remote-authentication-servers-0149619/
4. https://linuxhint.com/hydra_tool_examples/


Thank you

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