



T-SEC-600 : Socat

Pré-Msc – mai 2024

What is this about?

- Project Socat :
- **Groups of 3 students**
- **4 weeks project**
- Web and network based
- Inspired by real-life scenarios
- On our new platform: TryHackMe!



Why TryHackMe ?

- Online Capture The Flag (CTF)
 - Web
 - Windows / Linux
 - Networking
 - Cryptography
- **Learning platform**
- Over 1 million users with 500+ rooms



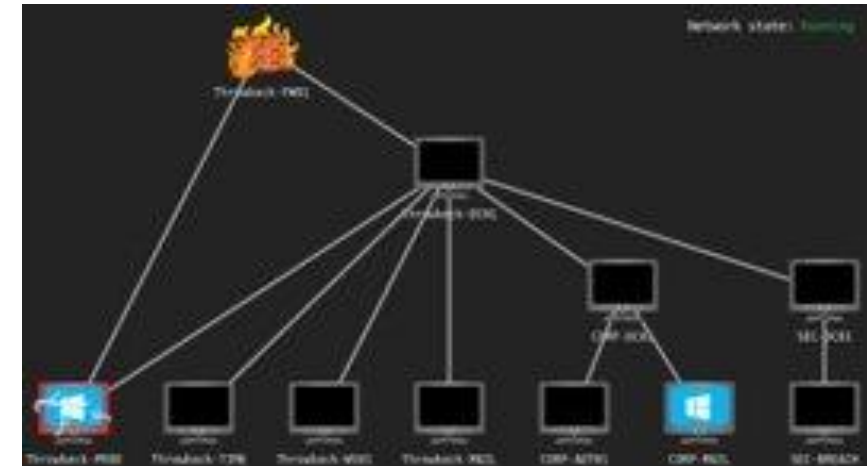
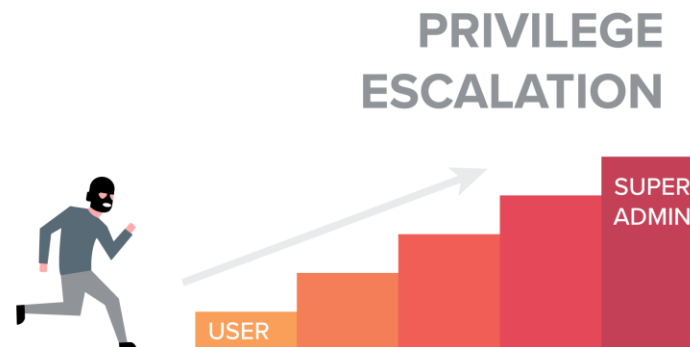
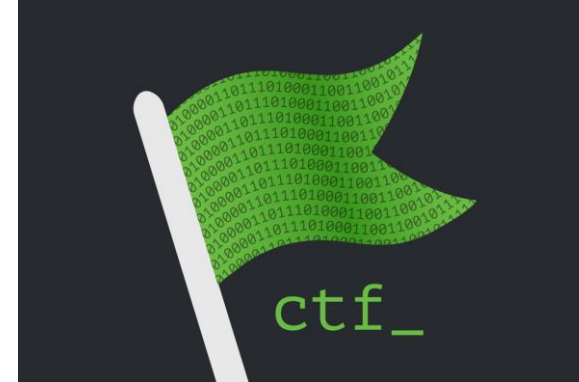
Socat : Content

Complex multi-services VM

- Web, SSH, FTP, RDP, SMB ...

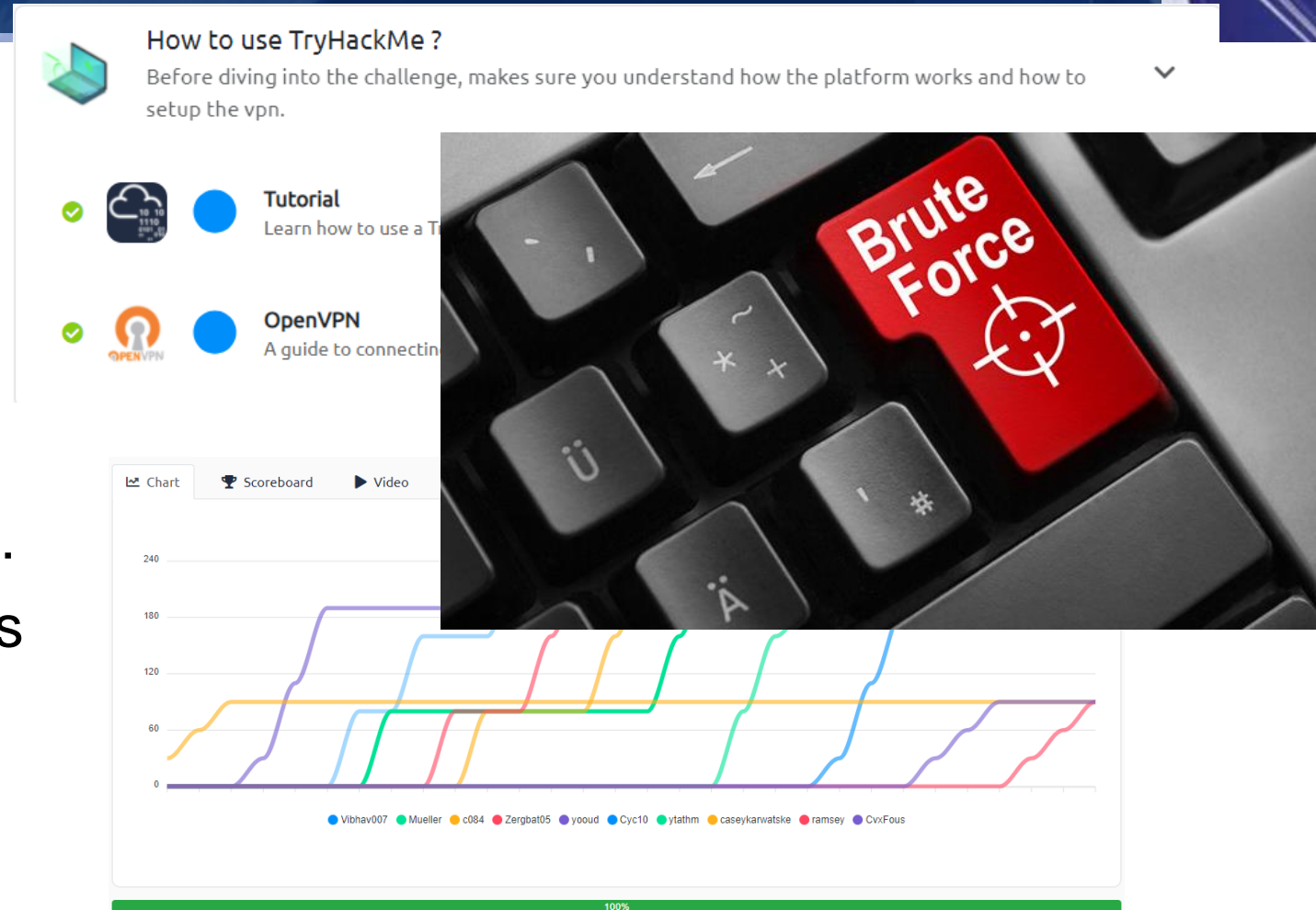
Privilege escalation

- Go from user to root
- Get the flags



How does it work ?

- Set of rooms on TryHackMe
- One VM / user / challenge
- Connect with OpenVPN
- Realistic challenges
- Different themes:
 - Python, CVE, Reversing...
 - Tunneling, hidden services
- Hack all rooms
 - Find flags, get points



Project Defense

- Review in front of the pedagogical team
 - The usual Keynote presentation
- THEN
 - Explanation of challenges
- 1 challenge / student
 - The teacher will choose which challenge
- This defense is **MANDATORY** to validate the module



Bonuses

- 1-month free subscription to TryHackMe
 - Over 500+ rooms
 - Faster machines
 - Access to networks



The background of the slide is a deep blue color with abstract, sharp, geometric shapes that resemble facets of a crystal or the body panels of a car. These shapes are highlighted with lighter blue and white reflections, creating a sense of depth and movement. The overall effect is modern and high-tech.

Questions ?