{EPITECH}

SOCAT

BOOT2ROOT CHALLENGES

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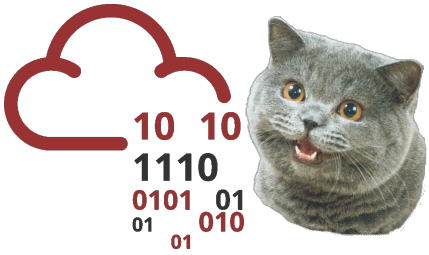
As the name suggests, **Boot2Root** just means “boot it to root it”, which is a kind of challenge involving launching VMs to connect to a specific service, find weaknesses to access the system, then escalate your privileges to become root.

The Socat project is composed of 12 different challenges that get gradually harder.
You can use any tools / techniques you want to solve the challenges, although none of them require Metasploit.

As a variant of the **Capture-The-Flag**, you must find tokens in the VMs to validate the challenge. They look like `EPI{Th1s_iS_4_T0k3N}`.

All of the challenges are loosely based on privilege escalation, common vulnerabilities exposures, reversing, bruteforcing, pivoting with tools such as Gobuster, hashes, CVE, John the Ripper or `Socat`.

The challenge are sorted by difficulty, be sure to do the easier ones first before moving onto the harder ones.



You can join our custom learning path on the **Socat interface** on TryHackMe (a website specifically designed to learn and practice hacking in all kind of shapes and forms).

If you don’t have a TryHackMe account, you will need to register on the platform **using your epitech email**.
If you already have an account and you want to keep it, just make sure that you your email address on TryHackMe is your epitech email.

Each time you start a machine, it takes around 1-3 minutes to boot, be patient!

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Make sure to respect the following rules and ethical guidelines:

- ✓ **the challenges need to be completed by at least one member of the team**.
- ✓ you MUST NOT submit write-ups, solutions, or flags anywhere online
- ✓ you MUST be able to explain every challenge that you succeed
- ✓ you MUST NOT share flags between teams, it will be considered cheating
- ✓ you MUST abide by the site rules (no attacking the main platform, no DDOS or whatsoever)

You will have to explain the ins and outs of your project during the **Final Defense** in which each of you will have to detail the resolutoin of a random challenge you solved.

Do your best to shine in this competition!

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