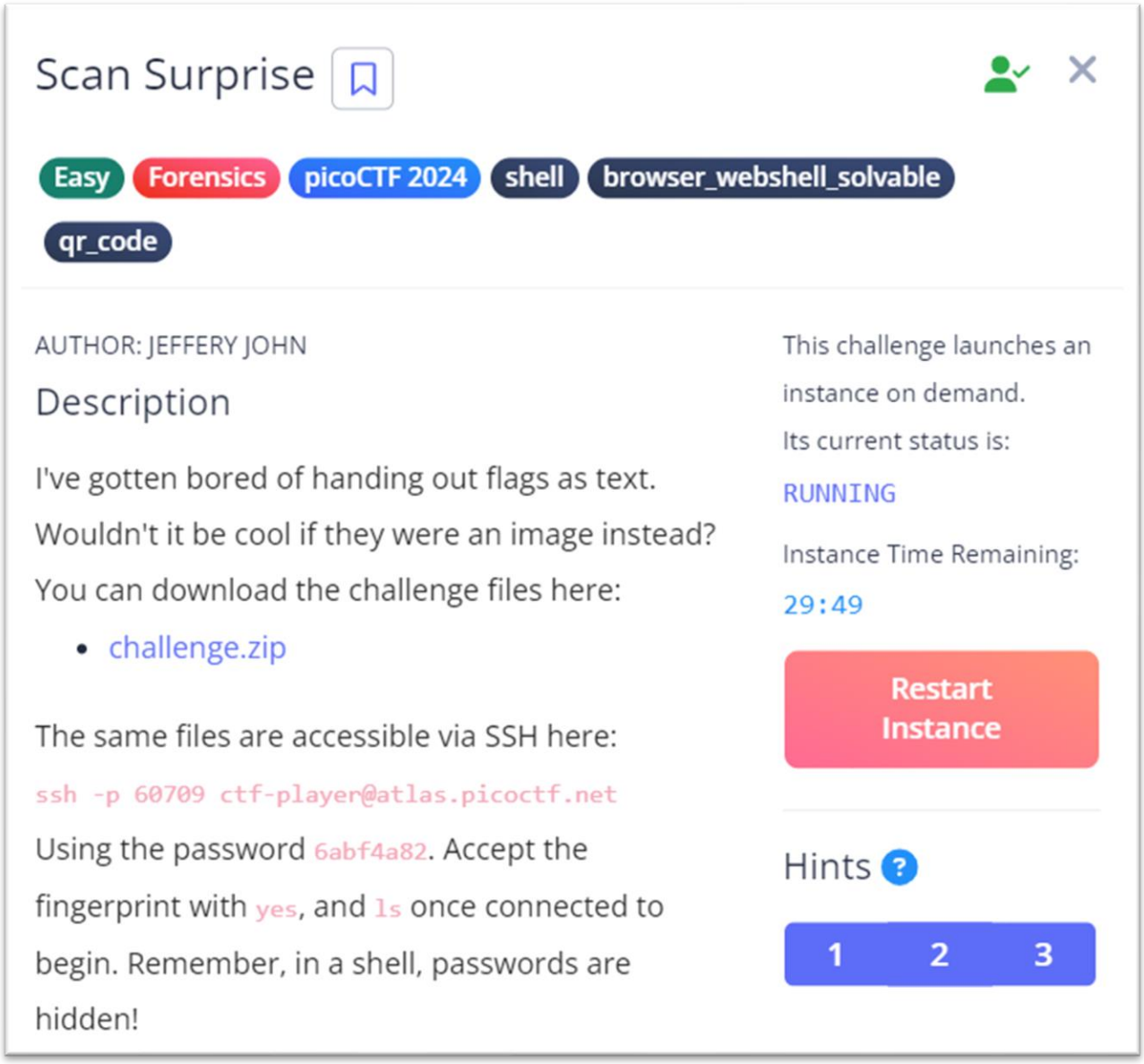

PICO GYM

Name: Scan Surprise (easy)

Downloadable Files:

[No need to download other files]

Solution

> After Launching the Instance, I used the ssh command to connect to it.

$ ssh -p 60709 ctf-player@atlas.picoctf.net

Password: 6abf4a82

> Once I connected, a qr code pop up inside the terminal

> Now I could use my phone, scar the qr code, and see what it says. But I wanted to see if there are other ways to see whats inside in a forensic way.

> The first thing I did is use the exiftool to see if the flag is hidden in the metadata. However the exiftool is not installed in this instance.

```
ctf-player@challenge:~/drop-in$ ls
flag.png
ctf-player@challenge:~/drop-in$ exiftool flag.png
rbash: exiftool: command not found
ctf-player@challenge:~/drop-in$
```

> The next thing I did is see if I could use cat on it. However I only see gibberish

```
ctf-player@challenge:~/drop-in$ cat flag.png
•PNG

IHDRcc••,•PLTE•••••tRNS••n••    pHYs

                                ••~••IDAT8•••1•
••ƀ`g•••• •8•••u=••AzsVv)•gfaδ•••••<;x•ER>•••p••••ƀ•PG••@•54 \ƀH•Ėk q••e@r••4]•Q••
                                                •N N•DqG•j•I•••\8••,+•-•l••S•
9(3) ••%P••z•••+•••JI••}•
```

> I then start looking up qr specific tools and here is where I found the command that will solve this problem:

https://medium.com/@sumitdhattarwal4444/creating-and-reading-qr-code-in-linux-5cfeb2d65063

> After verifying that it exists inside the instance, I used this command to get the flag:

$ zbarimg -q --raw flag.png

```
ctf-player@challenge:~/drop-in$ zbarimg --version
0.23
ctf-player@challenge:~/drop-in$ zbarimg -q --raw flag.png
Connection Error (Failed to connect to socket /var/run/dbus/system_bus_socket: No such file or directory)
Connection Null
picoCTF{p33k_@_b00_7843f77c}
ctf-player@challenge:~/drop-in$
```

The Flag is: picoCTF{p33k_@_b00_7843f77c}

Things I've learned:

- I learned of a new tool called zbarimg or zbar to read the qr code.
- I also learned qrencode to make a qrcode of a text
- I also learned that when creating a qrcode, you could have its name as a .txt instead of .png or .jpeg