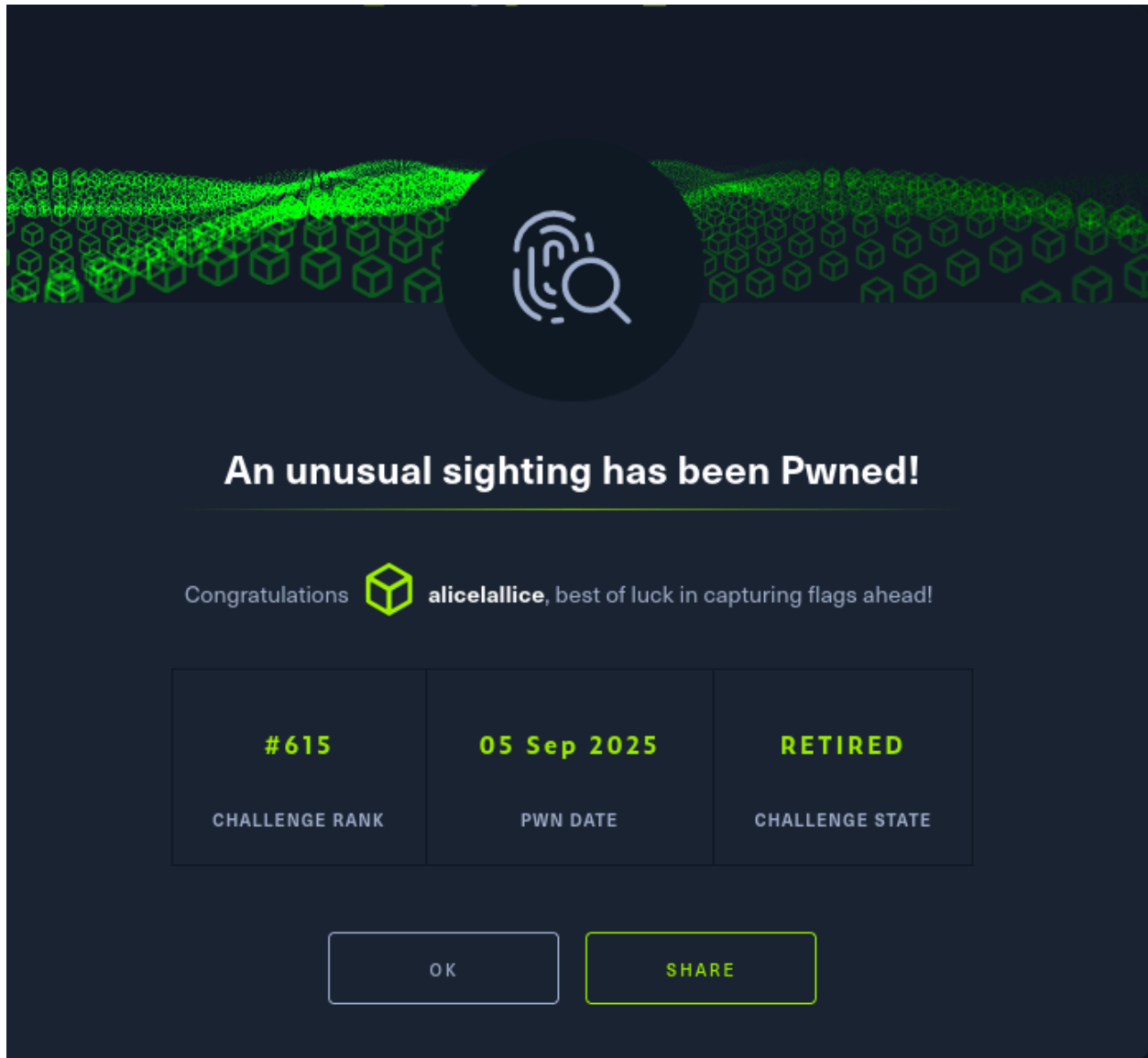



An unusual sighting

Types	forensic
CTF	HTB



An unusual sighting has been Pwned!

Congratulations  **alichelalice**, best of luck in capturing flags ahead!

#615	05 Sep 2025	RETIRED
CHALLENGE RANK	PWN DATE	CHALLENGE STATE

[OK](#) [SHARE](#)

What is the IP Address and Port of the SSH Server (IP:PORT)

> 100.107.36.130:2221

[+] Correct!

```
[2024-02-13 11:29:50] Connection from 100.81.51.199 port 63172 on 100.107.36.130 port 2221 rdomain "
```

What time is the first successful Login

> 2024-02-13 11:29:50

[+] Correct!

What is the Fingerprint of the attacker's public key

> OPkBSs6okUKraq8pYo4XwwBg55QSo210F09FCe1-yj4

[+] Correct!

```
[2024-02-19 04:00:14] Failed publickey for root from 2.67.182.119 port 60071 ssh2: ECDSA SHA256:OPkBSs6okUKraq8pYo4XwwBg55QSo210F09FCe1-yj4
```

all this we can see on sshd.log

What is the first command the attacker executed after logging in

> whoami

[+] Correct!

```
[2024-02-19 04:00:18] whoami
```

from bash_history.txt

What is the final command the attacker executed before logging out

> ./setup

[+] Correct!

[+] Here is the flag: HTB{4n_unusual_sighting_in_SSH_logs!}

```
[2024-02-19 04:12:02] Shred -zu latest.tar.gz
[2024-02-19 04:14:02] ./setup
[2024-02-19 04:14:13] ...
```

HTB{4n_unusual_s1ght1ng_1n_SSH_l0gs!}

Step-by-Step Guide: How to Read SSH Logs

◆ 1. Understand the Log Format

SSH logs typically follow this structure:

Code

```
[YYYY-MM-DD HH:MM:SS] <log message>
```

Each line includes:

- **Timestamp:** When the event occurred
- **Message:** What happened (connection, authentication, command, etc.)



Example:

Code

```
[2024-02-19 04:00:14] Accepted password for root from 2.67.182.119 port 60071 ssh2
```

◆ 2. Identify Key Event Types

Here are the most common log messages and what they mean:

 Log Message Type	 Meaning
Server listening on ...	SSH service started and is ready
Connection from <IP>	Someone tried to connect
Failed publickey/password for ...	Authentication attempt failed
Accepted password for ...	Successful login
Starting session: shell ...	Shell session began
Disconnected from user ...	User logged out or session ended

◆ 3. Track a Full Session

To analyze a full login session, follow this sequence:

1. Connection initiated

Code

```
Connection from 2.67.182.119 port 60071
```

2. Authentication attempts

Code

```
Failed publickey for root ...  
Accepted password for root ...
```

3. Session start

Code

```
Starting session: shell on pts/2 ...
```

4. Commands executed (from `bash_history.txt`)

Code

```
whoami  
uname -a  
./setup
```

5. Session end

Code

```
Disconnected from user root ...
```

◆ 4. Spot Suspicious Behavior

Look for patterns that stand out:

- **Unusual login times** (e.g. 04:00 AM)
- **Rare IP addresses** (only appear once)
- **Use of `root` account**
- **Failed logins followed by success**
- **Commands like `wget` , `shred` , `setup`** —often used in attacks

◆ 5. Correlate with Bash History

If you have access to `bash_history.txt`, match timestamps with logins to see what the user did after logging in.

Example:

Code

```
[2024-02-19 04:00:14] Accepted password for root ...  
[2024-02-19 04:00:18] whoami  
[2024-02-19 04:14:02] ./setup
```

This shows the attacker logged in, checked privileges, downloaded a file, and ran a setup script.