Level 11 🡪 Level 12:

I started the level, got a weird line of text:



Now I tried a bunch of things, by checking the man but nothing I could get would help in converting by 13 values. Therefore, I sought to the internet, to help in this conundrum.

In the end, I found a decrypter of this type of encryption and then proceeded to decrypt the password.

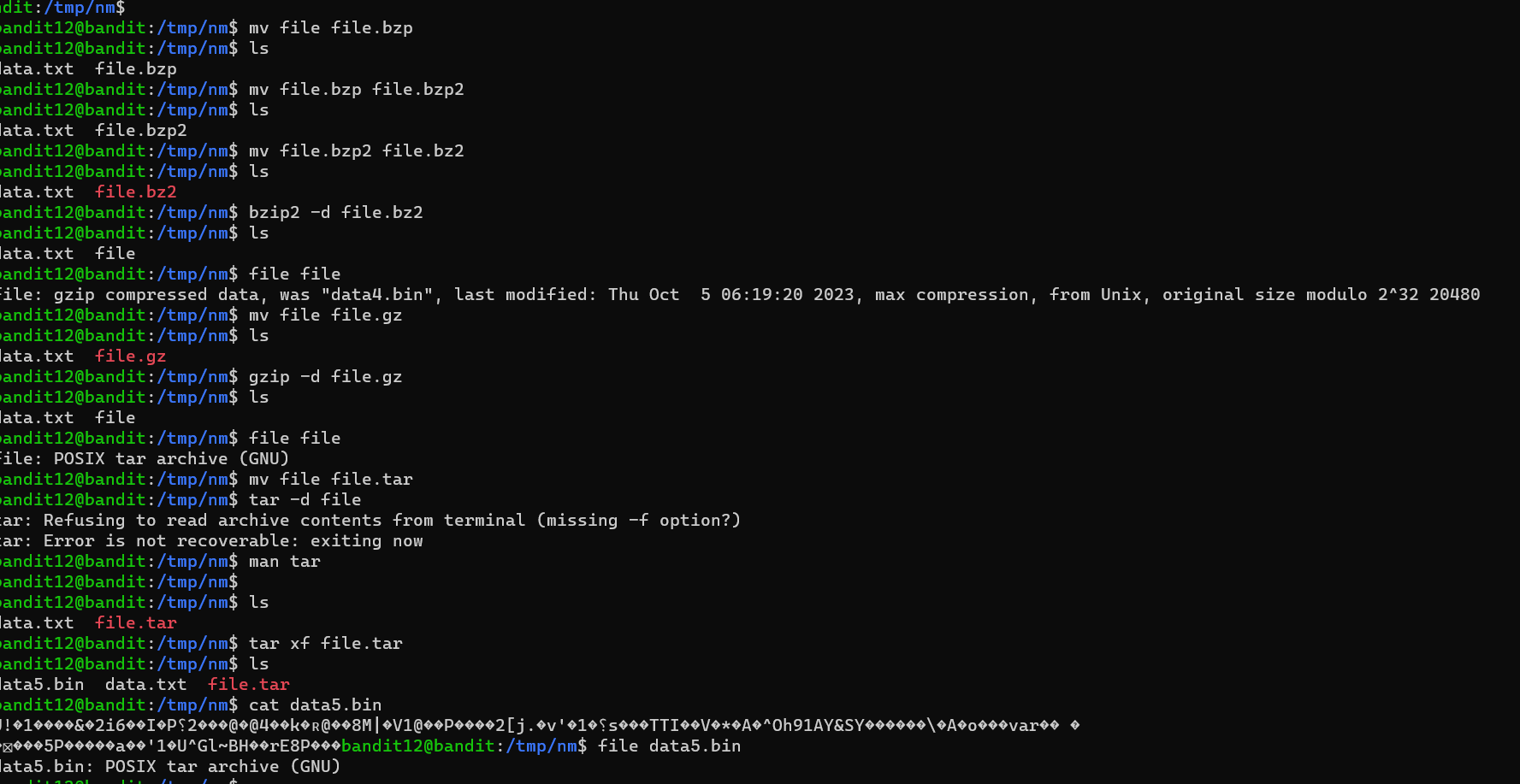
<https://en.wikipedia.org/wiki/ROT13>

<https://www.dcode.fr/rot-13-cipher>

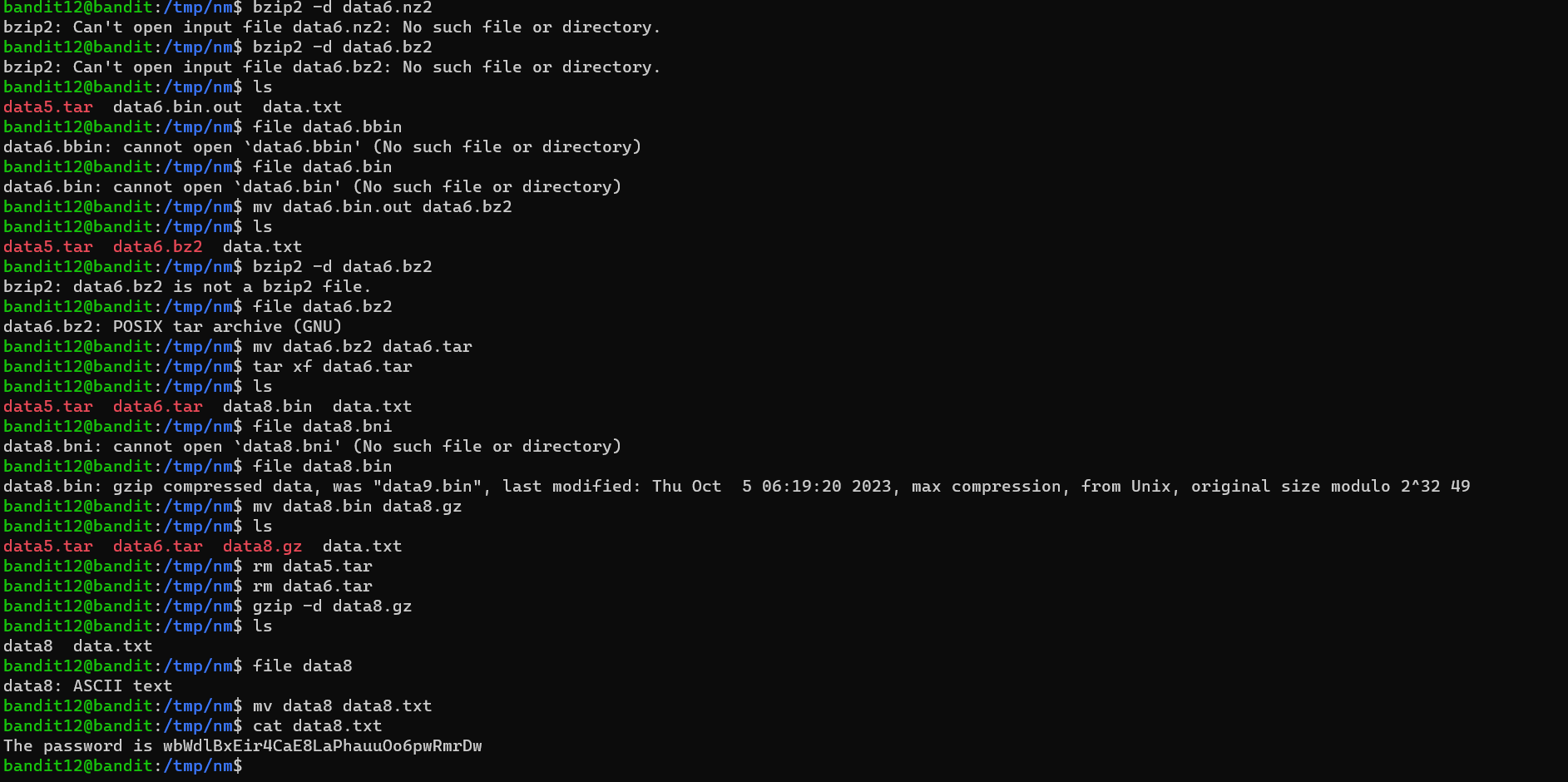
Password: JVNBBFSmZwKKOP0XbFXOoW8chDz5yVRv

Level 12 🡪 Level 13:

Whoa, what the hell was this level. It is so bloody confusing, I had to refer to the YouTube tutorial once more. I learnt on how to make a new directory via bash and also learnt about how to copy files into a directory as well as the different ways of basic directory manipulation. With the various methods of compression and decomprehension. It was slightly difficult to navigate through everything. However, once getting a hang of the problems, it slowly became easier to understand the video as well as to predict the next steps of decompression. Learnt how to change from one file type to another. I also learnt how to remove files from a directory as well as how to move from one to another.



In the end, the decompression procees started looking like this. After a long series of decompressions, it finally came as an answer:



<https://www.youtube.com/watch?v=n4tROT45ipU>

Password: wbWdlBxEir4CaE8LaPhauuOo6pwRmrDw

Level 13 🡪 Level 14:

What?

Why was this so painful ;-;? I mean, I finally managed to crack it after 30 mins of trying to understand how a private key works, but dear god was it bad : (. I finally got the password after multiple trial and errors and reading through multiple man texts. I finally found how to enter into a private ssh and then use that port to get into the main password.

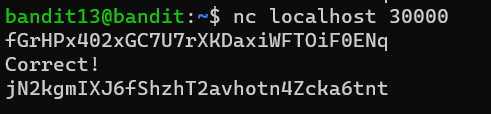
<https://help.ubuntu.com/community/SSH/OpenSSH/Keys>

<https://www.youtube.com/watch?v=q1c8yiMu_24>

Password: fGrHPx402xGC7U7rXKDaxiWFTOiF0ENq

Level 14 🡪 Level 15:

It took one man read and then it was cracked.



Password: jN2kgmIXJ6fShzhT2avhotn4Zcka6tnt

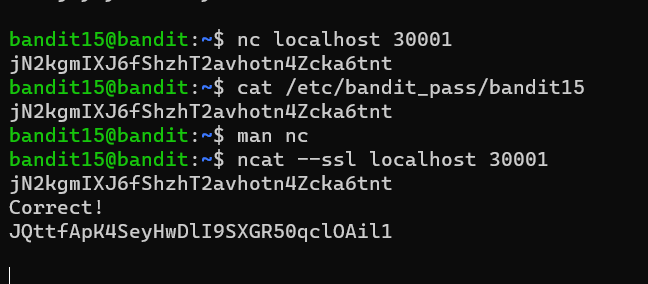
Level 15 🡪 Level 16:

As the levels slowly progress more and more further, I feel like I am further and further straying away from my humanity. I had no choice but to rely on YouTube on this one, because my mental sanity had hit the roof at this point.

<https://www.youtube.com/watch?v=q1c8yiMu_24&t=300s>

<https://en.wikipedia.org/wiki/Transport_Layer_Security#SSL_1.0,_2.0,_and_3.0>

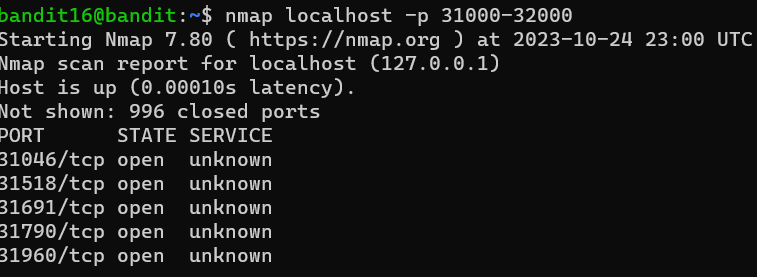
<https://www.feistyduck.com/library/openssl-cookbook/online/>



Password: JQttfApK4SeyHwDlI9SXGR50qclOAil1

Level 16 🡪 Level 17:

I tried with this, why are there four domains that are open:



Sorry, there are five which are open. Why are all of them open?

After looking at the tutorial, I realized that there was only one open, therefore, I had to use that one only.

MIIEogIBAAKCAQEAvmOkuifmMg6HL2YPIOjon6iWfbp7c3jx34YkYWqUH57SUdyJ

imZzeyGC0gtZPGujUSxiJSWI/oTqexh+cAMTSMlOJf7+BrJObArnxd9Y7YT2bRPQ

Ja6Lzb558YW3FZl87ORiO+rW4LCDCNd2lUvLE/GL2GWyuKN0K5iCd5TbtJzEkQTu

DSt2mcNn4rhAL+JFr56o4T6z8WWAW18BR6yGrMq7Q/kALHYW3OekePQAzL0VUYbW

JGTi65CxbCnzc/w4+mqQyvmzpWtMAzJTzAzQxNbkR2MBGySxDLrjg0LWN6sK7wNX

x0YVztz/zbIkPjfkU1jHS+9EbVNj+D1XFOJuaQIDAQABAoIBABagpxpM1aoLWfvD

KHcj10nqcoBc4oE11aFYQwik7xfW+24pRNuDE6SFthOar69jp5RlLwD1NhPx3iBl

J9nOM8OJ0VToum43UOS8YxF8WwhXriYGnc1sskbwpXOUDc9uX4+UESzH22P29ovd

d8WErY0gPxun8pbJLmxkAtWNhpMvfe0050vk9TL5wqbu9AlbssgTcCXkMQnPw9nC

YNN6DDP2lbcBrvgT9YCNL6C+ZKufD52yOQ9qOkwFTEQpjtF4uNtJom+asvlpmS8A

vLY9r60wYSvmZhNqBUrj7lyCtXMIu1kkd4w7F77k+DjHoAXyxcUp1DGL51sOmama

+TOWWgECgYEA8JtPxP0GRJ+IQkX262jM3dEIkza8ky5moIwUqYdsx0NxHgRRhORT

8c8hAuRBb2G82so8vUHk/fur85OEfc9TncnCY2crpoqsghifKLxrLgtT+qDpfZnx

SatLdt8GfQ85yA7hnWWJ2MxF3NaeSDm75Lsm+tBbAiyc9P2jGRNtMSkCgYEAypHd

HCctNi/FwjulhttFx/rHYKhLidZDFYeiE/v45bN4yFm8x7R/b0iE7KaszX+Exdvt

SghaTdcG0Knyw1bpJVyusavPzpaJMjdJ6tcFhVAbAjm7enCIvGCSx+X3l5SiWg0A

R57hJglezIiVjv3aGwHwvlZvtszK6zV6oXFAu0ECgYAbjo46T4hyP5tJi93V5HDi

Ttiek7xRVxUl+iU7rWkGAXFpMLFteQEsRr7PJ/lemmEY5eTDAFMLy9FL2m9oQWCg

R8VdwSk8r9FGLS+9aKcV5PI/WEKlwgXinB3OhYimtiG2Cg5JCqIZFHxD6MjEGOiu

L8ktHMPvodBwNsSBULpG0QKBgBAplTfC1HOnWiMGOU3KPwYWt0O6CdTkmJOmL8Ni

blh9elyZ9FsGxsgtRBXRsqXuz7wtsQAgLHxbdLq/ZJQ7YfzOKU4ZxEnabvXnvWkU

YOdjHdSOoKvDQNWu6ucyLRAWFuISeXw9a/9p7ftpxm0TSgyvmfLF2MIAEwyzRqaM

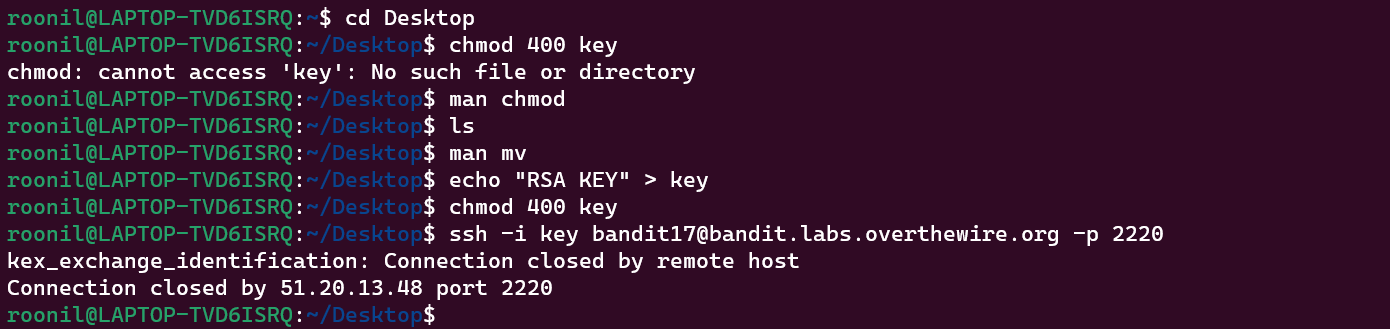
77pBAoGAMmjmIJdjp+Ez8duyn3ieo36yrttF5NSsJLAbxFpdlc1gvtGCWW+9Cq0b

dxviW8+TFVEBl1O4f7HVm6EpTscdDxU+bCXWkfjuRb7Dy9GOtt9JPsX8MBTakzh3

vBgsyi/sN3RqRBcGU40fOoZyfAMT8s1m/uYv52O6IgeuZ/ujbjY=

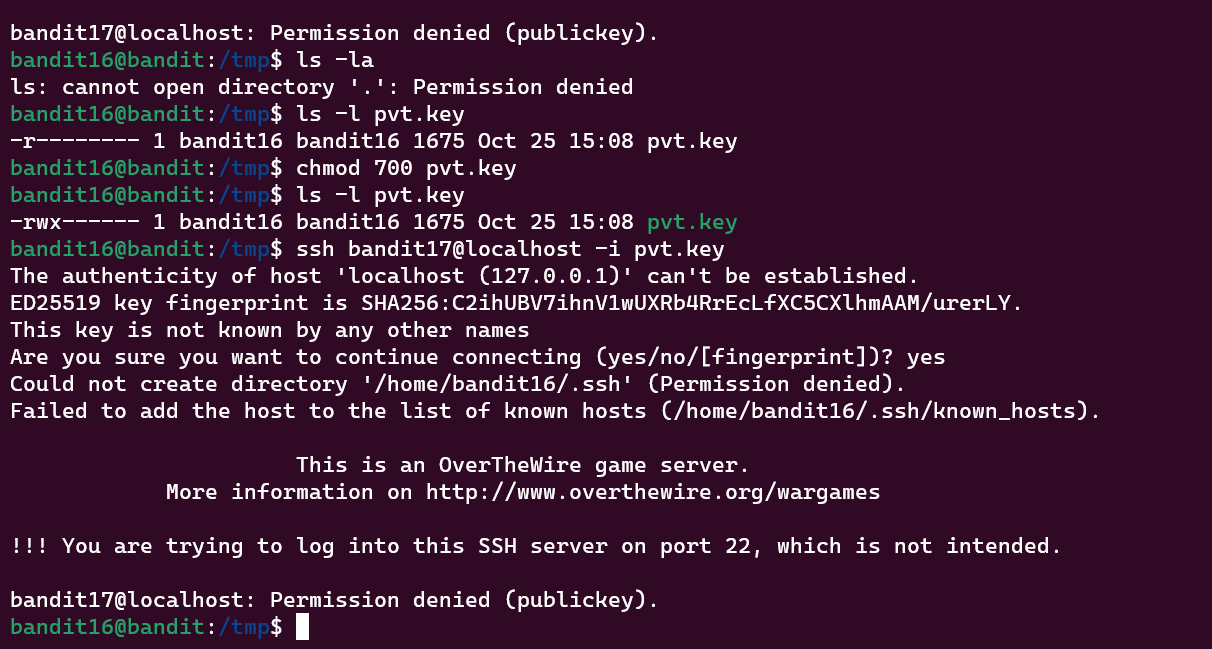
I ended up with this, which I am now very confused as to what the hell this even is?

How am I supposed to continue on to the next level with this encrypted thing?

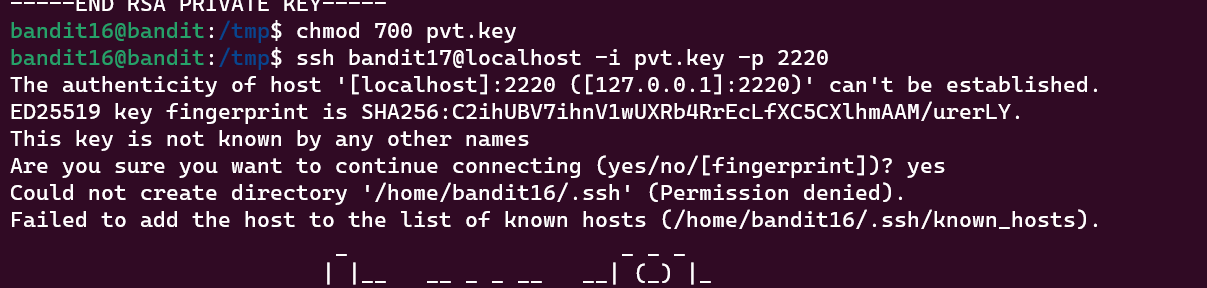


I am still stuck with this. Again and again, what am I supposed to be doing?

Let me restart everything.



Dammit, it’s still not working.



Oh my f##king god. This was bloody insane. After like 18 tries and multiple silly errors, I finally got into the 17th level.

<https://www.youtube.com/watch?v=-s1wonOYovM>

<https://www.youtube.com/results?search_query=over+the+wire+bandit+level+16+to+17>

<https://www.youtube.com/watch?v=q1c8yiMu_24&t=300s>

Level 17 🡪 Level 18:

This level was a somewhat breather from the absolute mess that was last level. Hopefully there is nothing that goes wrong with this level.

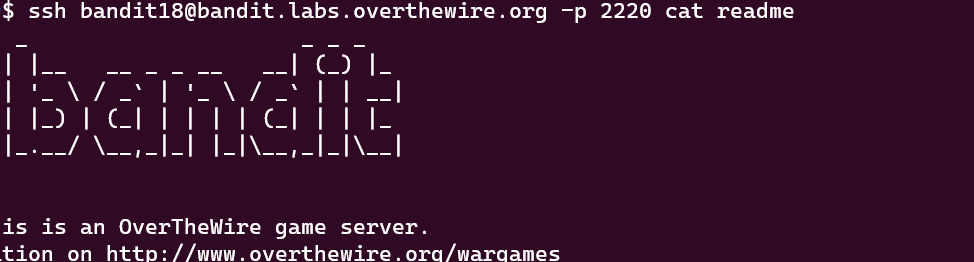
Password: hga5tuuCLF6fFzUpnagiMN8ssu9LFrdg

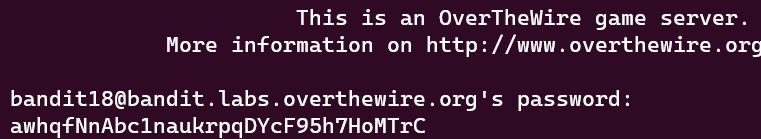
Level 18 🡪 Level 19:

Nice, getting logged out as soon as I try to get into the port. This is a little annoying.

After reading through the ssh man, I learnt that I could add a new command at the end of the ssh port for faster computing. That is what I am guessing is the use of it. Well, it helps me in my case, for finding out the password, since I could just cat the file and get the value that way in the end.

In the end, it looked like this:





<https://www.youtube.com/watch?v=xhZ9lp2uAL8>

Password: awhqfNnAbc1naukrpqDYcF95h7HoMTrC

Level 19 🡪 Level 20:



I somehow managed it. I still have no idea how I managed to pull it off in the end.

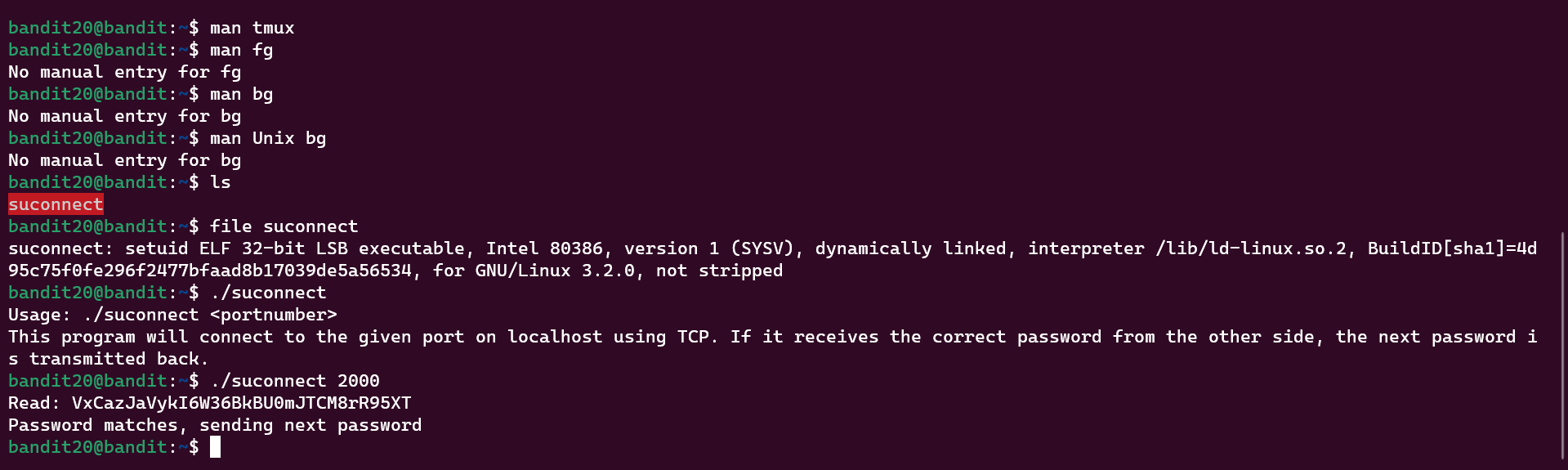
Password: VxCazJaVykI6W36BkBU0mJTCM8rR95XT

Level 20 🡪 Level 21:

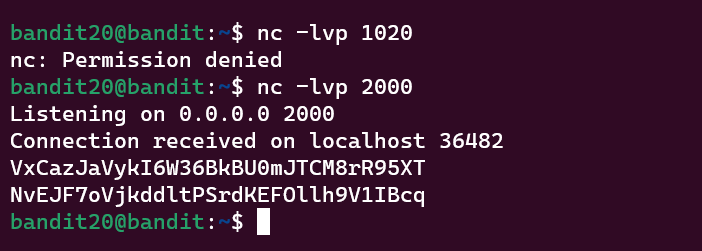
I just read through the description of the problem. I have no words to just comprehensively restate what is given in those lines. Now I genuinely feel like I am learning some sort of new language.

In the end, I ended up using a YouTube tutorial for the last problem, since I was not getting anywhere with the way I was moving. Since I wasn’t used to using two terminals at the same time to get a particular password, I had to learn how the two terminals communicate with each other.

Terminal 1:



Terminal 2:



<https://en.wikipedia.org/wiki/Setuid>

<https://www.youtube.com/watch?v=hlAQQPfSew0>

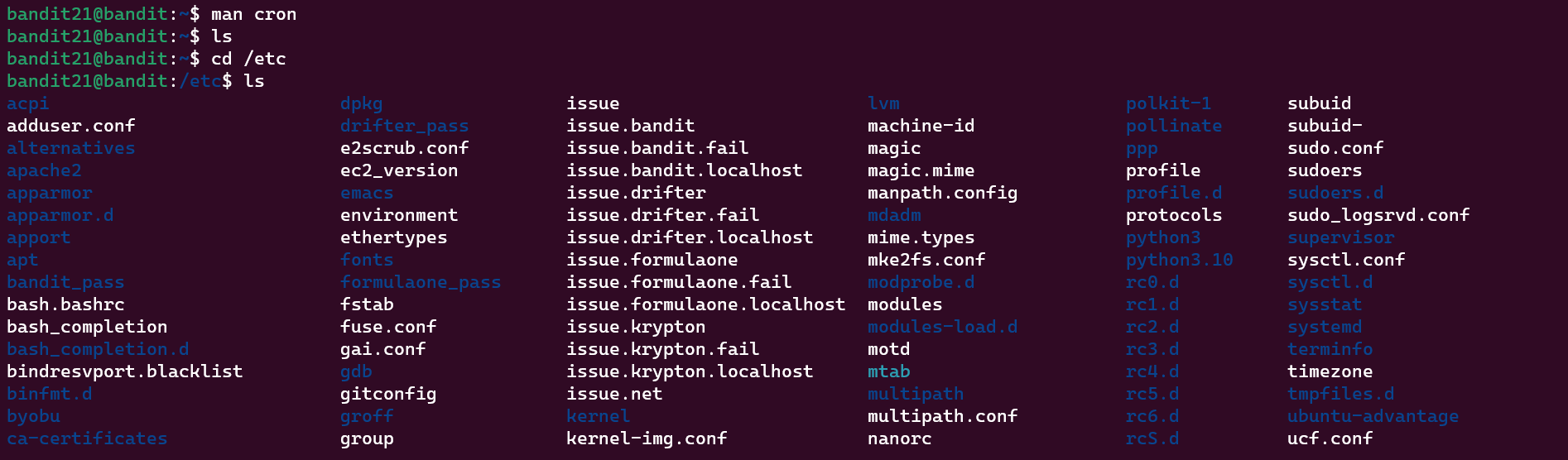
Password: NvEJF7oVjkddltPSrdKEFOllh9V1IBcq

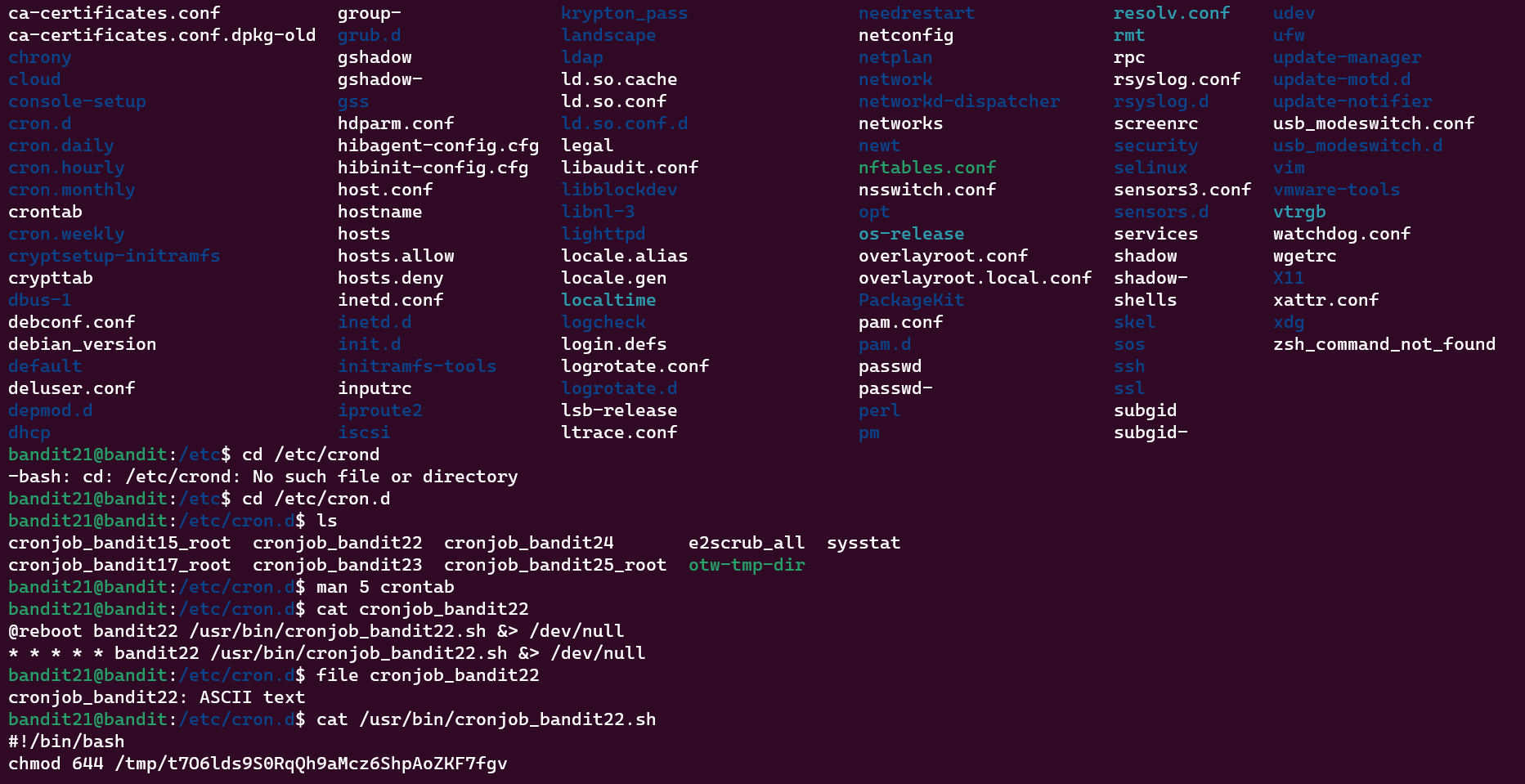
ssh bandit21@bandit.labs.overthewire.org -p 2220

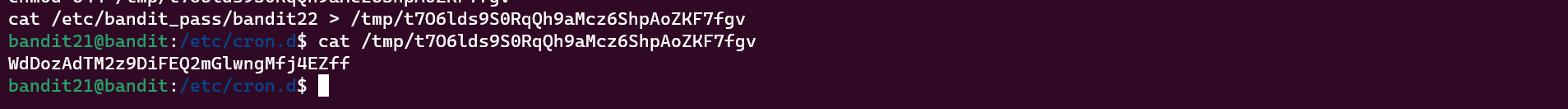
Level 21 🡪 Level 22:

I just gave this last one a try, because I didn’t want to be put in the position where I have done all levels but one. It does not hurt to do an extra level, does it?

As I state that, I immediately get stuck with a new conundrum, which is how cronjob works. I have no idea, I just randomly typed things and somethings came. In the end, I have still no idea how any of this shit works.







Password: WdDozAdTM2z9DiFEQ2mGlwngMfj4EZff

ssh bandit22@bandit.labs.overthewire.org -p 2220