Level 11 → Level 12:

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

```
bandit11@bandit:~$ cat data.txt
Gur cnffjbeq vf WIAOOSFzMjXXBC0KoSKBbJ8puQm5lIEi
bandit11@bandit:~$ man xxd
```

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.

```
dit:/tmp/nm$
andit12@bandit:/tmp/nm$ mv file file.bzp
andit12@bandit:/tmp/nm$ ls
ata.txt  file.bzp
andit12@bandit:/tmp/nm$ mv file.bzp file.bzp2
andit12@bandit:/tmp/nm$ ls
ata.txt  file.bzp2
andit12@bandit:/tmp/nm$ mv file.bzp2 file.bz2
andit12@bandit:/tmp/nm$ ls
ata.txt  file.bz2
andit12@bandit:/tmp/nm$ bzip2 -d file.bz2
andit12@bandit:/tmp/nm$ ls
ata.txt  file
andit12@bandit:/tmp/nm$ file file
ile: gzip compressed data, was "data4.bin", last modified: Thu Oct  5 06:19:20 2023, max compression, from Unix, original size modulo 2^32 20480
andit12@bandit:/tmp/nm$ mv file file.gz
andit12@bandit:/tmp/nm$ ls
ata.txt  file.gz
andit12@bandit:/tmp/nm$ gzip -d file.gz
andit12@bandit:/tmp/nm$ ls
ata.txt  file
andit12@bandit:/tmp/nm$ file file
ile: POSIX tar archive (GNU)
andit12@bandit:/tmp/nm$ mv file file.tar
andit12@bandit:/tmp/nm$ tar -d file
ar: Refusing to read archive contents from terminal (missing -f option?)
ar: Error is not recoverable: exiting now
andit12@bandit:/tmp/nm$ man tar
andit12@bandit:/tmp/nm$
andit12@bandit:/tmp/nm$ ls
ata.txt  file.tar
andit12@bandit:/tmp/nm$ tar xf file.tar
andit12@bandit:/tmp/nm$ ls
ata5.bin  data.txt  file.tar
andit12@bandit:/tmp/nm$ cat data5.bin
)!◆1◆◆◆◆&◆2i6◆◆I◆P♀2◆◆◆@◆@4◆◆k◆ʀ@◆◆8M|◆V1@◆◆P◆◆◆◆◆2[j.◆v'◆1◆♀s◆◆◆TTI◆◆V◆◆◆A◆^Oh91AY&SY◆◆◆◆◆◆\◆A◆o◆◆◆var◆◆ ◆
⊠◆◆◆5P◆◆◆◆◆a◆◆'1◆U^Gl~BH◆◆rE8P◆◆◆bandit12@bandit:/tmp/nm$ file data5.bin
ata5.bin: POSIX tar archive (GNU)
```

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

```
bandit12@bandit:/tmp/nm$ bzip2 -d data6.nz2
bzip2: Can't open input file data6.nz2: No such file or directory.
bandit12@bandit:/tmp/nm$ bzip2 -d data6.bz2
bzip2: Can't open input file data6.bz2: No such file or directory.
bandit12@bandit:/tmp/nm$ ls
data5.tar  data6.bin.out  data.txt
bandit12@bandit:/tmp/nm$ file data6.bbin
data6.bbin: cannot open `data6.bbin' (No such file or directory)
bandit12@bandit:/tmp/nm$ file data6.bin
data6.bin: cannot open `data6.bin' (No such file or directory)
bandit12@bandit:/tmp/nm$ mv data6.bin.out data6.bz2
bandit12@bandit:/tmp/nm$ ls
data5.tar  data6.bz2  data.txt
bandit12@bandit:/tmp/nm$ bzip2 -d data6.bz2
bzip2: data6.bz2 is not a bzip2 file.
bandit12@bandit:/tmp/nm$ file data6.bz2
data6.bz2: POSIX tar archive (GNU)
bandit12@bandit:/tmp/nm$ mv data6.bz2 data6.tar
bandit12@bandit:/tmp/nm$ tar xf data6.tar
bandit12@bandit:/tmp/nm$ ls
data5.tar  data6.tar  data8.bin  data.txt
bandit12@bandit:/tmp/nm$ file data8.bni
data8.bni: cannot open `data8.bni' (No such file or directory)
bandit12@bandit:/tmp/nm$ file data8.bin
data8.bin: gzip compressed data, was "data9.bin", last modified: Thu Oct  5 06:19:20 2023, max compression, from Unix, original size modulo 2^32 49
bandit12@bandit:/tmp/nm$ mv data8.bin data8.gz
bandit12@bandit:/tmp/nm$ ls
data5.tar  data6.tar  data8.gz  data.txt
bandit12@bandit:/tmp/nm$ rm data5.tar
bandit12@bandit:/tmp/nm$ rm data6.tar
bandit12@bandit:/tmp/nm$ gzip -d data8.gz
bandit12@bandit:/tmp/nm$ ls
data8  data.txt
bandit12@bandit:/tmp/nm$ file data8
data8: ASCII text
bandit12@bandit:/tmp/nm$ mv data8 data8.txt
bandit12@bandit:/tmp/nm$ cat data8.txt
The password is wbWdlBxEir4CaE8LaPhauuOo6pwRmrDw
bandit12@bandit:/tmp/nm$
```

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.

```
bandit13@bandit:~$ nc localhost 30000
fGrHPx402xGC7U7rXKDaxiWFTOiF0ENq
Correct!
jN2kgmIXJ6fShzhT2avhotn4Zcka6tnt
```

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/

```
bandit15@bandit:~$ nc localhost 30001
jN2kgmIXJ6fShzhT2avhotn4Zcka6tnt
bandit15@bandit:~$ cat /etc/bandit_pass/bandit15
jN2kgmIXJ6fShzhT2avhotn4Zcka6tnt
bandit15@bandit:~$ man nc
bandit15@bandit:~$ ncat --ssl localhost 30001
jN2kgmIXJ6fShzhT2avhotn4Zcka6tnt
Correct!
JQttfApK4SeyHwDlI9SXGR50qclOAil1
```

Password: JQttfApK4SeyHwDlI9SXGR50qclOAil1

Level 16 → Level 17:

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

```
bandit16@bandit:~$ nmap localhost -p 31000-32000
Starting Nmap 7.80 ( https://nmap.org ) at 2023-10-24 23:00 UTC
Nmap scan report for localhost (127.0.0.1)
Host is up (0.00010s latency).
Not shown: 996 closed ports
PORT      STATE SERVICE
31046/tcp open  unknown
31518/tcp open  unknown
31691/tcp open  unknown
31790/tcp open  unknown
31960/tcp open  unknown
```

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

d8WErYOgPxun8pbJLmxkAtWNhpMvfe0050vk9TL5wqbu9AlbssgTcCXkMQnPw9nC
YNN6DDP2lbcBrvgT9YCNL6C+ZKufD52yOQ9qOkwFTEQpjtF4uNtJom+asvlpmS8A
vLY9r60wYSvmZhNqBUrj7lyCtXMIu1kkd4w7F77k+DjHoAXyxcUp1DGL51sOmama
+TOWWgECgYEA8JtPxPOGRJ+IQkX262jM3dEIkza8ky5moIwUqYdsxONxHgRRhORT
8c8hAuRBb2G82so8vUHk/fur85OEfc9TncnCY2crpoqsghifKLxrLgtT+qDpfZnx
SatLdt8GfQ85yA7hnWWJ2MxF3NaeSDm75Lsm+tBbAiyc9P2jGRNtMSkCgYEAypHd
HCctNi/FwjulhttFx/rHYKhLidZDFYeiE/v45bN4yFm8x7R/b0iE7KaszX+Exdvt
SghaTdcGOKnyw1bpJVyusavPzpaJMjdJ6tcFhVAbAjm7enCIvGCSx+X3l5SiWgOA
R57hJglezIiVjv3aGwHwvlZvtszK6zV6oXFAuOECgYAbjo46T4hyP5tJi93V5HDi
Ttiek7xRVxUl+iU7rWkGAXFpMLFteQEsRr7PJ/lemmEY5eTDAFMLy9FL2m9oQWCg
R8VdwSk8r9FGLS+9aKcV5PI/WEKlwgXinB3OhYimtiG2Cg5JCqIZFHxD6MjEGOiu
L8ktHMPvodBwNsSBULpG0QKBgBAplTfC1HOnWiMGOU3KPwYWt0O6CdTkmJOmL8Ni
blh9elyZ9FsGxsgtRBXRsqXuz7wtsQAgLHxbdLq/ZJQ7YfzOKU4ZxEnabvXnvWkU
YOdjHdSOoKvDQNWu6ucyLRAWFuISeXw9a/9p7ftpxmOTSgyvmfLF2MIAEwyzRqaM
77pBAoGAMmjmIJdjp+Ez8duyn3ieo36yrttF5NSsJLAbxFpdlc1gvtGCWW+9Cq0b
dxviW8+TFVEBl1O4f7HVm6EpTscdDxU+bCXWkfjuRb7Dy9GOtt9JPsX8MBTakzh3
vBgsyi/sN3RqRBcGU4OfOoZyfAMT8s1m/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?

```
roonil@LAPTOP-TVD6ISRQ:~$ cd Desktop
roonil@LAPTOP-TVD6ISRQ:~/Desktop$ chmod 400 key
chmod: cannot access 'key': No such file or directory
roonil@LAPTOP-TVD6ISRQ:~/Desktop$ man chmod
roonil@LAPTOP-TVD6ISRQ:~/Desktop$ ls
roonil@LAPTOP-TVD6ISRQ:~/Desktop$ man mv
roonil@LAPTOP-TVD6ISRQ:~/Desktop$ echo "RSA KEY" > key
roonil@LAPTOP-TVD6ISRQ:~/Desktop$ chmod 400 key
roonil@LAPTOP-TVD6ISRQ:~/Desktop$ ssh -i key bandit17@bandit.labs.overthewire.org -p 2220
kex_exchange_identification: Connection closed by remote host
Connection closed by 51.20.13.48 port 2220
roonil@LAPTOP-TVD6ISRQ:~/Desktop$
```

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

```
bandit17@localhost: Permission denied (publickey).
bandit16@bandit:/tmp$ ls -la
ls: cannot open directory '.': Permission denied
bandit16@bandit:/tmp$ ls -l pvt.key
-r-------- 1 bandit16 bandit16 1675 Oct 25 15:08 pvt.key
bandit16@bandit:/tmp$ chmod 700 pvt.key
bandit16@bandit:/tmp$ ls -l pvt.key
-rwx------ 1 bandit16 bandit16 1675 Oct 25 15:08 pvt.key
bandit16@bandit:/tmp$ ssh bandit17@localhost -i pvt.key
The authenticity of host 'localhost (127.0.0.1)' can't be established.
ED25519 key fingerprint is SHA256:C2ihUBV7ihnV1wUXRb4RrEcLfXC5CXlhmAAM/urerLY.
This key is not known by any other names
Are you sure you want to continue connecting (yes/no/[fingerprint])? yes
Could not create directory '/home/bandit16/.ssh' (Permission denied).
Failed to add the host to the list of known hosts (/home/bandit16/.ssh/known_hosts).

                 This is an OverTheWire game server.
            More information on http://www.overthewire.org/wargames

!!! You are trying to log into this SSH server on port 22, which is not intended.

bandit17@localhost: Permission denied (publickey).
bandit16@bandit:/tmp$
```

Dammit, it's still not working.

```
-----END RSA PRIVATE KEY-----
bandit16@bandit:/tmp$ chmod 700 pvt.key
bandit16@bandit:/tmp$ ssh bandit17@localhost -i pvt.key -p 2220
The authenticity of host '[localhost]:2220 ([127.0.0.1]:2220)' can't be established.
ED25519 key fingerprint is SHA256:C2ihUBV7ihnV1wUXRb4RrEcLfXC5CXlhmAAM/urerLY.
This key is not known by any other names
Are you sure you want to continue connecting (yes/no/[fingerprint])? yes
Could not create directory '/home/bandit16/.ssh' (Permission denied).
Failed to add the host to the list of known hosts (/home/bandit16/.ssh/known_hosts).
          _                          _ _ _
         | |__     __ _ _ __      __| (_) |_
```

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:

```
$ ssh bandit18@bandit.labs.overthewire.org -p 2220 cat readme
```

is is an OverTheWire game server.
tion on http://www.overthewire.org/wargames

                    This is an OverTheWire game server.
          More information on http://www.overthewire.org

bandit18@bandit.labs.overthewire.org's password:
awhqfNnAbc1naukrpqDYcF95h7HoMTrC

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

Password: awhqfNnAbc1naukrpqDYcF95h7HoMTrC

Level 19 → Level 20:

```
bandit19@bandit:~$ ls
bandit20-do
bandit19@bandit:~$ man setuid
bandit19@bandit:~$ man setuid
bandit19@bandit:~$ file bandit20-do
bandit20-do: setuid ELF 32-bit LSB executable, Intel 80386, version 1 (SYSV), dynamically linked, interpreter /lib/ld-linux.so.2, BuildID[sha1]=
037b97b430734c79085a8720c90070e346ca378e, for GNU/Linux 3.2.0, not stripped
bandit19@bandit:~$ setuid bandit20-do
Command 'setuid' not found, but can be installed with:
apt install super
Please ask your administrator.
bandit19@bandit:~$ man ./
man: ./: Is a directory
No manual entry for ./
bandit19@bandit:~$ ./bandit20-do id
uid=11019(bandit19) gid=11019(bandit19) euid=11020(bandit20) groups=11019(bandit19)
bandit19@bandit:~$ ./bandit20-do ls /etc/bandit_pass
bandit0   bandit11  bandit14  bandit17  bandit2   bandit22  bandit25  bandit28  bandit30  bandit33  bandit6  bandit9
bandit1   bandit12  bandit15  bandit18  bandit20  bandit23  bandit26  bandit29  bandit31  bandit4   bandit7
bandit10  bandit13  bandit16  bandit19  bandit21  bandit24  bandit27  bandit3   bandit32  bandit5   bandit8
bandit19@bandit:~$ ./bandit20-do file /etc/bandit_pass
/etc/bandit_pass: directory
bandit19@bandit:~$ ./bandit20-do cat /etc/bandit_pass/bandit20
VxCazJaVykI6W36BkBU0mJTCM8rR95XT
bandit19@bandit:~$ ./bandit20-do cat /etc/bandit_pass/bandit21
cat: /etc/bandit_pass/bandit21: Permission denied
bandit19@bandit:~$
```

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:

```
bandit20@bandit:~$ man tmux
bandit20@bandit:~$ man fg
No manual entry for fg
bandit20@bandit:~$ man bg
No manual entry for bg
bandit20@bandit:~$ man Unix bg
No manual entry for bg
bandit20@bandit:~$ ls
suconnect
bandit20@bandit:~$ file suconnect
suconnect: setuid ELF 32-bit LSB executable, Intel 80386, version 1 (SYSV), dynamically linked, interpreter /lib/ld-linux.so.2, BuildID[sha1]=4d
95c75f0fe296f2477bfaad8b17039de5a56534, for GNU/Linux 3.2.0, not stripped
bandit20@bandit:~$ ./suconnect
Usage: ./suconnect <portnumber>
This program will connect to the given port on localhost using TCP. If it receives the correct password from the other side, the next password i
s transmitted back.
bandit20@bandit:~$ ./suconnect 2000
Read: VxCazJaVykI6W36BkBU0mJTCM8rR95XT
Password matches, sending next password
bandit20@bandit:~$
```

Terminal 2:

```
bandit20@bandit:~$ nc -lvp 1020
nc: Permission denied
bandit20@bandit:~$ nc -lvp 2000
Listening on 0.0.0.0 2000
Connection received on localhost 36482
VxCazJaVykI6W36BkBU0mJTCM8rR95XT
NvEJF7oVjkddltPSrdKEFOllh9V1IBcq
bandit20@bandit:~$ 
```

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.

```
bandit21@bandit:~$ man cron
bandit21@bandit:~$ ls
bandit21@bandit:~$ cd /etc
bandit21@bandit:/etc$ ls
acpi                    dpkg                issue                   lvm                 polkit-1        subuid
adduser.conf            drifter_pass        issue.bandit            machine-id          pollinate       subuid-
alternatives            e2scrub.conf        issue.bandit.fail       magic               ppp             sudo.conf
apache2                 ec2_version         issue.bandit.localhost  magic.mime          profile         sudoers
apparmor                emacs               issue.drifter           manpath.config      profile.d       sudoers.d
apparmor.d              environment         issue.drifter.fail      mdadm               protocols       sudo_logsrvd.conf
apport                  ethertypes          issue.drifter.localhost mime.types          python3         supervisor
apt                     fonts               issue.formulaone        mke2fs.conf         python3.10      sysctl.conf
bandit_pass             formulaone_pass     issue.formulaone.fail   modprobe.d          rc0.d           sysctl.d
bash.bashrc             fstab               issue.formulaone.localhost modules          rc1.d           sysstat
bash_completion         fuse.conf           issue.krypton           modules-load.d      rc2.d           systemd
bash_completion.d       gai.conf            issue.krypton.fail      motd                rc3.d           terminfo
bindresvport.blacklist  gdb                 issue.krypton.localhost mtab                rc4.d           timezone
binfmt.d                gitconfig           issue.net               multipath           rc5.d           tmpfiles.d
byobu                   groff               kernel                  multipath.conf      rc6.d           ubuntu-advantage
ca-certificates         group               kernel-img.conf         nanorc              rcS.d           ucf.conf
```

```
ca-certificates.conf          group-                krypton_pass          needrestart           resolv.conf      udev
ca-certificates.conf.dpkg-old grub.d                landscape             netconfig             rmt              ufw
chrony                        gshadow               ldap                  netplan               rpc              update-manager
cloud                         gshadow-              ld.so.cache           network               rsyslog.conf     update-motd.d
console-setup                 gss                   ld.so.conf            networkd-dispatcher   rsyslog.d        update-notifier
cron.d                        hdparm.conf           ld.so.conf.d          networks              screenrc         usb_modeswitch.conf
cron.daily                    hibagent-config.cfg   legal                 newt                  security         usb_modeswitch.d
cron.hourly                   hibinit-config.cfg    libaudit.conf         nftables.conf         selinux          vim
cron.monthly                  host.conf             libblockdev           nsswitch.conf         sensors3.conf    vmware-tools
crontab                       hostname              libnl-3               opt                   sensors.d        vtrgb
cron.weekly                   hosts                 lighttpd              os-release            services         watchdog.conf
cryptsetup-initramfs          hosts.allow           locale.alias          overlayroot.conf      shadow           wgetrc
crypttab                      hosts.deny            locale.gen            overlayroot.local.conf shadow-         X11
dbus-1                        inetd.conf            localtime             PackageKit            shells           xattr.conf
debconf.conf                  inetd.d               logcheck              pam.conf              skel             xdg
debian_version                init.d                login.defs            pam.d                 sos              zsh_command_not_found
default                       initramfs-tools       logrotate.conf        passwd                ssh
deluser.conf                  inputrc               logrotate.d           passwd-               ssl
depmod.d                      iproute2              lsb-release           perl                  subgid
dhcp                          iscsi                 ltrace.conf           pm                    subgid-
bandit21@bandit:/etc$ cd /etc/crond
-bash: cd: /etc/crond: No such file or directory
bandit21@bandit:/etc$ cd /etc/cron.d
bandit21@bandit:/etc/cron.d$ ls
cronjob_bandit15_root  cronjob_bandit22  cronjob_bandit24        e2scrub_all  sysstat
cronjob_bandit17_root  cronjob_bandit23  cronjob_bandit25_root   otw-tmp-dir
bandit21@bandit:/etc/cron.d$ man 5 crontab
bandit21@bandit:/etc/cron.d$ cat cronjob_bandit22
@reboot bandit22 /usr/bin/cronjob_bandit22.sh &> /dev/null
* * * * * bandit22 /usr/bin/cronjob_bandit22.sh &> /dev/null
bandit21@bandit:/etc/cron.d$ file cronjob_bandit22
cronjob_bandit22: ASCII text
bandit21@bandit:/etc/cron.d$ cat /usr/bin/cronjob_bandit22.sh
#!/bin/bash
chmod 644 /tmp/t7O6lds9S0RqQh9aMcz6ShpAoZKF7fgv
```

```
cat /etc/bandit_pass/bandit22 > /tmp/t7O6lds9S0RqQh9aMcz6ShpAoZKF7fgv
bandit21@bandit:/etc/cron.d$ cat /tmp/t7O6lds9S0RqQh9aMcz6ShpAoZKF7fgv
WdDozAdTM2z9DiFEQ2mGlwngMfj4EZff
bandit21@bandit:/etc/cron.d$ █
```

Password: WdDozAdTM2z9DiFEQ2mGlwngMfj4EZff

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