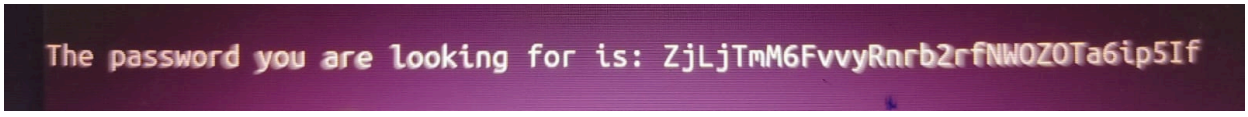
LEVEL 0
the first task is to login using the ssh so basically ssh is a secure type of communication just like two persons talking privately if password is entered correctly you will  be connected to a remote machine
syntax : ssh username @ host name  -port number
the host ,username and port as specified as 2220
after logging in i entered the given password

LEVEL 0 to 1
after logging into the first level  using the pwd command  we will be able to show the current directory that we are in that is the the home directory to get the contents of home directory use ls
it will show all the files present not the hidden ones  there is only file named read me to get the content of the file we need to use another command cat and it displayed the password for logging  into the next level

COMMANDS USED : pwd ,ls,cat
syntax : pwd
ls  directory name
cat  file name

Password




LEVEL 1 to 2

after logging through ssh our task is to find the password that is hidden in the file " -" for that we cannot simply use the cat command it will not display so we need to type cat  ./-
COMMANDS :cat

Password

LEVEL 2 to 3
after logging to level 3 form the password obtained the task is to find password from the spaces in the file name so we use the cat command as we do commonly cat spaces in this file
would be interpreted as 4 different files in the system and shows not found or some error
so we need to use cat command as cat/spaces/in/this file
COMMANDS : cat

Password


LEVEL 3 to 4
after logging using the password our task is to find the password that in the hidden file located in the inhere directory
so after logging we will be usually in the home directory so in order to move directory use the cd command and it goes to inhere directory then use ls -la to display the whole directory contents and use cat command to extract and we get the password
COMMANDS : cd ,ls, cat
syntax :cd directory name

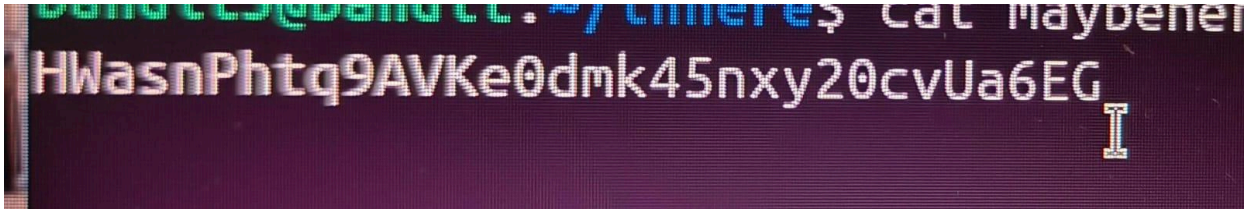
Password


LEVEL 4 to 5
after logging with the new password obtained cd to go to inhere directory after that using ls display the contents, there may be files we have to manually extract each file using the command cat./- file name and we get the password form the file
Commands : cd,ls,cat

Password


LEVEL 5 to 6
after logging in we have to find password in a file that has some properties, must be human readable 1033 bytes and not executable
first cd to go to directory the ls command,there might be 18 or 19 files in order to filter out the correct file containing password we use the find command
find . -readable -size 1033 c ! -executable
we need to specify the c along with 1033 to specify that size is in bytes and obtain the password
COMMANDS : cd,ls,find
syntax find.conditions

Password



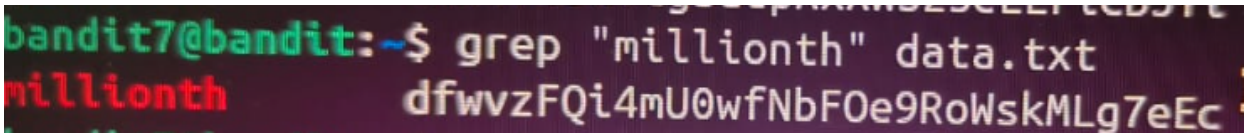

LEVEL 6 to 7
after logging in we have to find password in a file that is located in the server which have some properties owned by user bandit 7,owned by group bandit 6 and 33 bytes in size so for getting file as per the conditions ,first we use ls -la to display all the contents then we use the find command and by modifying the find command as find /-type f -user bandit 7 -group bandit 6 -size 33 c and we obtain the required password
type f - specifies we are looking or regular files not any other directory or something ,c denotes the byte
COMMANDS -ls -la ,find

Password

LEVEL 7 to 8
after logging in our password is stored in data.txt and is near to the word millonth so first use ls command and then cat to display the contents there will be many lines in order to get the line with the word millonth we use the command grep
grep millionth filename.txt

we get the line and the password along with it
grep is the command  used for searching strings
COMMANDS: ls,grep ,cat

Password

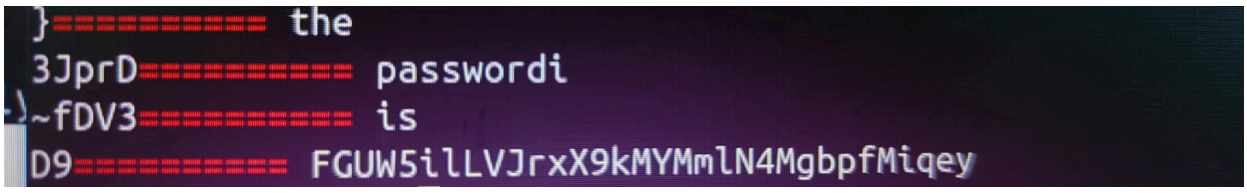



LEVEL 8 to  9
after logging in our task is to find password in file data.txt and the password is a unique line so in order to take that we need to use  sort and the uniq command
sort data.txt | uniq -u
uniq command compares the previous and the next line with the current line  and decides whether the current is uniq and it goes on till the unique line is found that is our password
COmmands: ls ,sort,uniq

Passwords


LEVEL 9 to 10
after logging in our task is to find password from the file data.txt which is precceded by several " ==" characters,so we us the string manipulation command that is the grep command ,we have used in the level 8 first  use ls then use cat command as
cat data.txt  |strings | grep " = "
this would give us the password  for unlocking the next level
COMMANDS :ls ,grep cat

Password



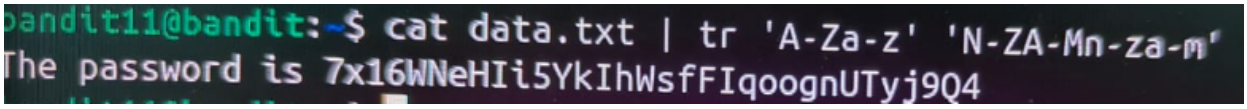

LEVEL 10 to 11

after logging in we need to get password form data.txt,first use the ls to display the contents of the directory than reading the entire file base64 is something that converts  binary code into a-z or 0-9 etc
by using the cat command with d we get the required password
cat data.txt  | base64 -d
COMMNADS: ls ,cat

Password


LEVEL 11 to 12
after logging in we need to extract password form data.txt but by using the cat command we get a string but that is not the password
it is mentioned that it has undergone rot 13 cipher meaning  A becomes n and so on for that we need to get how it is orginally changed and we pass this onto the tr command and this would give us the password for the next level
commands used : tr ,cat
syntax  :tr translation set

Password




LEVEL 12 TO 13
we need to get password from data.txt ,when we take directory it would show us a hexadump of file
first we need to create a temporary directory
then copy the the file data.txt into the directory and using the cd command we move into the newly created  directory  and extract the file contents  using ls
and using thee xxd -r  we  reverse the hexadump file data.txt  and copy the reverted into a new file called data and using the file command we can determine the file type from that we can know that data is  a gzipfile compresses from data 2.bin for decompressing the gzip file we can use the gunzip file and extract the content into file named file
using the file command we check the file type of the file  after that we can understand that it is a bzip compressed file and ten we decompress it using the bzip2 -d command  so our file contains the extract but our aim is to get a ascii file format so in order  to obtain that we need to check the format of file again ,it was again an

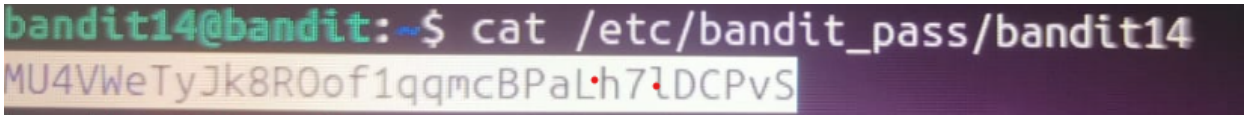
compressed gzip file and we extracted using  gzip -d command ,then again checking the file  it is now an posix archive so in order to extract the file we need to change the extension and we do it by the mv command  after that using the tar xf command we can extract the file then we check the newly added  data5.bin file format  it is again a tar file using mv change the format and extracted using the early process and obtained a new file data6.bin extracting this file gives us a new compressed bzip file and repeat the above process for decompressing (bzip2 -d)
and we get a new file data that is again a posix tar archive for extracting change it into tar file using mv and decompressing it we get a new file data8.bin which is again a gzip compressed file and after decompressing we get the new file  named data  which is finally our desired ASCII format file ,we extract the file content using the cat function and get the password for next level

xxd command help us to reverse the hexadecimal
COMMANDS : ls ,mv ,tar xf , bzip2 -d

Password


LEVEL 13 TO 14
for this level we will login using the password obtained  from the lvl 13 instead of this we get private  ssh key  instead of the password  and by using the ls command we get the  ssh key
Commands : ssh ,ls

Passwords




LEVEL 14 TO 15
after logging in we get the password by connecting  to a  local host on port 30000 and after entering the current password we get the password that is required to login o the next level
COMMANDS USED :nc

Password

```
bandit14@bandit:~$ nc localhost 30000
MU4VWeTyJk8ROof1qqmcBPaLh7lDCPvS
Correct!
8xCjnmgoKbGLhHFAZlGE5Tmu4M2tKJQo
```

LEVEL 15 to 16
we have to uses ssl encryption for this level and connect using the
port 30001 and pasting the current level password will give us the new password

Passwords

```
bandit15@bandit:~$ ncat --ssl localhost 30001
8xCjnmgoKbGLhHFAZlGE5Tmu4M2tKJQo
Correct!
kSkvUpMQ7lBYyCM4GBPvCvT1BfWRy0Dx
```