

Work & documentation notes of various wargames

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1 Bandit

1.1 Levels

1.1.1 bandit0

Password to enter: *bandit0*

Challenge: Solved using the **ssh** command, which included use of flags to set user & port.

```
ssh bandit0@bandit.labs.overthewire.org -p 2220
```

1.1.2 bandit1

Password to enter: *boJ9jbbUNNfktD78OOpsqOltutMc3MY1*

Challenge: Reading a file named '-', this was problematic due to many common shell commands using '-' to prefix an option or flag.

```
cat ./-
```

1.1.3 bandit2

Password to enter: *CV1DtqXWVFXTvM2F0k09SHz0YwRINYA9*

Challenge: With spaces in a filename, shell programs will interpret the input as several arguments (instead of one space-delimited string). This issue can be solved two ways.

```
cat 'spaced filename'
```

```
cat spaced\ filename
```

1.1.4 bandit3

Password to enter: *UmHadQclWmgdLOKQ3YNgjWxGoRmb5luK*

Challenge: The file is prepended by a '.', which causes it to be hidden from most views. The **-A** flag for **ls** will show all hidden files except '.' & '..', which are part of the directory itself.

```
ls -A1
```

1.1.5 bandit4

Password to enter: *pIwrPrtPN36QITSp3EQaw936yaFoFgAB*

Challenge: The file is hidden in one of ' /inhere/-file0,9'. They contain special characters that interfere with the terminal environment. The use of **less** aids, as it prompts before reading a binary file and provides somewhat of a sandbox to prevent the tty from being broken.

```
less ./-file0 [0-9]
```

Note: use :n when inside less to go the next file

1.1.6 bandit5

Password to enter: *koReBOKuIDDepwhWk7jZC0RTdopnAYKh*

Challenge: The file is within one of many sub-folders, with human readable encoding and a file size of '1033' bytes. The use of **ls** with the recursive flag **-R**, combined with **grep** to select the file with the given size solves this problem.

```
ls -Al -R | grep --color -C 5 -e '1033 '
```

1.1.7 bandit6

Password to enter: *DXjZPULLxYr17uwoI01bNLQbtFemEgo7*

Challenge: The file is somewhere on the server, so we should search recursively from the root of the drive. We are given the owner name, group name and size of the file, which we can plug into **find** to find the file.

```
find / -group bandit6 -size 33c 2>&1 | grep -v "
Permission denied"
```

Note: The use of a terminal redirect and grep remove the output of excessive file permission warnings

1.1.8 bandit7

Password to enter: *HKBPTKQnIay4Fw76bEy8PVxKEDQRKTzs*

Challenge: This level is a simple grep search for the word *millionth* in a large keyword text file.

1.1.9 bandit8

Password to enter: *cvX2JJa4CFALtqS87jk27qwqGhBM9plV*

Challenge: The password is the only line that occurs once within an unordered text file.

```
sort data.txt | uniq -u
```

Note: The -u flag of uniq ensures only lines of 1 occurrence are printed

1.1.10 bandit9

Password to enter: *UsvVyFSfZZWbi6wgC7dAFyFuR6jQQUhR*

Challenge: The given file is a binary encoded file, IE. it is not in plaintext or easy to read. **strings** will only print human-readable strings from a given input, and the use of **grep** will limit the output to a manageable size.

```
strings data.txt | grep -Ee [=]+
```

*Note: The [=]+ pattern of **grep** searches for one or more occurrences of = in each line, EG. =, ==== or =====*

1.1.11 bandit10

Password to enter: *truKLdjsbJ5g7yyJ2X2R0o3a5HQQJFuLk*

Challenge: The file is encoded in base 64, which can be encoded and decoded using the **base64** program.

```
base64 -d data.txt
```

1.1.12 bandit11

Password to enter: *IFukwKGsFW8MOq3IRFqrxE1hxTNEbUPR*

Challenge: The file is encoded in a ROT-13 cipher, meaning that all letters in the alphabet have been shifted 13 places. **tr** is a unix program which is used the **translate** various sets of text.

```
cat data.txt | tr "n-Za-mN-ZA-M" "a-zA-Z"
```

1.1.13 bandit12

Password to enter: *5Te8Y4drgCRfCx8ugdwuEX8KFC6k2EUu*

Challenge:

1.1.14 bandit14

Password to enter:

Challenge:

1.1.15 bandit14

Password to enter:

Challenge:

1.2 Links & resources

1. SSHPass: <https://askubuntu.com/questions/224181/how-do-i-include-a-password-with-ssh-command-want-to-make-shell-script>