

Level 12

Help!?

Bandit Level 12 → Level 13

Level Goal

The password for the next level is stored in the file **data.txt**, which is a hexdump of a file that has been repeatedly compressed. For this level it may be useful to create a directory under /tmp in which you can work. Use **mkdir** with a hard to guess directory name. Or better, use the command **"mktemp -d"**. Then copy the datafile using **cp**, and rename it using **mv** (read the manpages!)

Commands you may need to solve this level

grep, sort, uniq, strings, base64, tr, tar, gzip, bzip2, xxd, mkdir, cp, mv, file

```
ssh bandit12@bandit.labs.overthewire.org -p 2220
```

Password: 7×16WNeHli5YklhWsfFlqoognUTyj9Q4

```
C:\Users\MY PC>ssh bandit12@bandit.labs.overthewire.org -p 2220
```



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

```
bandit12@bandit.labs.overthewire.org's password:  
Permission denied, please try again.  
bandit12@bandit.labs.overthewire.org's password:
```



```
www. ver he ire.org
```

```

GZIP(1)                                General Commands Manual

NAME
    gzip, gunzip, zcat - compress or expand files

SYNOPSIS
    gzip [ -acdfhklLnNrtvV19 ] [-S suffix] [ name ... ]
    gunzip [ -acdfhklLnNrtvV ] [-S suffix] [ name ... ]
    zcat [ -fhLV ] [ name ... ]

DESCRIPTION
    The gzip command reduces the size of the named files using Lempel-Ziv
    compression. The file is replaced by one with the extension .gz, while keeping the same
    modification times. (The default extension is z for MSDOS, OS/2 FAT, Windows
    specified, or if a file name is "-", the standard input is compressed to
    stdout. The gunzip command will only attempt to compress regular files. In particular, it will
    not attempt to compress files that are already compressed.)

    If the compressed file name is too long for its file system, gzip truncates
    the file name. It truncates only the parts of the file name longer than 3 characters. (A path
    consisting of small parts only, the longest parts are truncated. For example,
    characters, gzip.msdo.exe is compressed to gzi.msdo.exe.gz. Names are
    have a limit on file name length.

    By default, gzip keeps the original file name and timestamp in the compressed
    file. This is useful when the compressed file is transferred.

    Compressed files can be restored to their original form using gzip -d or
    gunzip. If the file name in the compressed file is not suitable for its file system, a new

```

```

bandit12@bandit:~$ ls
data.txt
bandit12@bandit:~$ cat data.txt
00000000: 1f8b 0808 dfcd eb66 0203 6461 7461 322e .....f..data2.
00000010: 6269 6e00 013e 02c1 fd42 5a68 3931 4159 bin..>...BZh91AY
00000020: 2653 59ca 83b2 c100 0017 7fff dfff f4a7 &SY.....
00000030: fc9f fefe f2f3 cffe f5ff ffdd bf7e 5bfe .....~[.
00000040: faff dfbe 97aa 6fff f0de edf7 b001 3b56 .....o.....;V
00000050: 0400 0034 d000 0000 0069 a1a1 a000 0343 ...4.....i....C
00000060: 4686 4341 a680 068d 1a69 a0d0 0068 d1a0 F.CA....i...h..
00000070: 1906 1193 0433 5193 d4c6 5103 4646 9a34 .....3Q...Q.FF.4
00000080: 0000 d320 0680 0003 264d 0346 8683 d21a ... ..&M.F....
00000090: 0686 8064 3400 0189 a683 4fd5 0190 001e ...d4....O....
000000a0: 9034 d188 0343 0e9a 0c40 69a0 0626 4686 .4...C...@i...&F.
000000b0: 8340 0310 d340 3469 a680 6800 0006 8d0d .@...@4i..h....
000000c0: 0068 0608 0d1a 64d3 469a 1a68 c9a6 8030 .h....d.F..h...0
000000d0: 9a68 6801 8101 3204 012a ca60 51e8 1cac .hh...2...*.'Q...
000000e0: 532f 0b84 d4d0 5db8 4e88 e127 2921 4c8e S/....].N..')!L.
000000f0: b8e6 084c e5db 0835 ff85 4ffc 115a 0d0c ...L...5...O..Z..
00000100: c33d 6714 0121 5762 5e0c dbf1 aef9 b6a7 .=g...!Wb^.....
00000110: 23a6 1d7b 0e06 4214 01dd d539 af76 f0b4 #..{..B...9.v..
00000120: a22f 744a b61f a393 3c06 4e98 376f dc23 ./tJ....<.N.7o.#
00000130: 45b1 5f23 0d8f 640b 3534 de29 4195 a7c6 E._#...d.54.)A...
00000140: de0c 744f d408 4a51 dad3 e208 189b 0823 ..t0..JQ.....#
00000150: 9fcc 9c81 e58c 9461 9dae ce4a 4284 1706 .....a...JB...
00000160: 61a3 7f7d 1336 8322 cd59 e2b5 9f51 8d99 a..}.6..Y...Q..
00000170: c300 2a9d dd30 68f4 f9f6 7db6 93ea ed9a ..*...0h...}....
00000180: dd7c 891a 1221 0926 97ea 6e05 9522 91f1 .|...!.&.n..".
00000190: 7bd3 0ba4 4719 6f37 0c36 0f61 02ae dea9 {...G.o7.6.a....
000001a0: b52f fc46 9792 3898 b953 36c4 c247 ceb1 ./F..8..S6..G..

```

The file contains

a ton of different text. But only **one line** in the file is **human-readable text** (the password).

some of the text is

compressed or encrypted.

```
bandit12@bandit:~$ man xxd
bandit12@bandit:~$ mkdir /tmp/krithi
bandit12@bandit:~$ cp data.txt /tmp/krithi
bandit12@bandit:~$ ls
data.txt
bandit12@bandit:~$ xxd -r data.txt > data
-bash: data: Permission denied
bandit12@bandit:~$ cd krithi
-bash: cd: krithi: No such file or directory
bandit12@bandit:~$ ls
data.txt
bandit12@bandit:~$ cd
bandit12@bandit:~$ cd /tmp/krithi
bandit12@bandit:/tmp/krithi$ ls
data.txt
bandit12@bandit:/tmp/krithi$ xxd -r data.txt >data
bandit12@bandit:/tmp/krithi$ ls
data data.txt
bandit12@bandit:/tmp/krithi$ file data
```

Password: 8ZjyCRiBWFYkneahHwxCv3wb2a10RpYL

```

data data.txt
bandit12@bandit:/tmp/krithi$ file data
data: gzip compressed data, was "data2.bin", last modified: Thu Sep 19 07:08:15 2024, max compression, from Unix, original size modulo 2^32 574
bandit12@bandit:/tmp/krithi$ man gzip
bandit12@bandit:/tmp/krithi$ mv data file.gz
bandit12@bandit:/tmp/krithi$ gzip -d file.gz
bandit12@bandit:/tmp/krithi$ ls
data.txt file
bandit12@bandit:/tmp/krithi$ file file
file: bzip2 compressed data, block size = 900k
bandit12@bandit:/tmp/krithi$ mv file file.bz2
bandit12@bandit:/tmp/krithi$ man bzip2
bandit12@bandit:/tmp/krithi$ bzip2 -d file.bz2
bandit12@bandit:/tmp/krithi$ ls
data.txt file
bandit12@bandit:/tmp/krithi$ file file
file: gzip compressed data, was "data4.bin", last modified: Thu Sep 19 07:08:15 2024, max compression, from Unix, original size modulo 2^32 20480
bandit12@bandit:/tmp/krithi$ mv file file.gz
bandit12@bandit:/tmp/krithi$ gzip -d file.gz
bandit12@bandit:/tmp/krithi$ file file
file: POSIX tar archive (GNU)
bandit12@bandit:/tmp/krithi$ mv file file.tar
bandit12@bandit:/tmp/krithi$ tar xf file.tar
bandit12@bandit:/tmp/krithi$ ls
data5.bin data.txt file tar
bandit12@bandit:/tmp/krithi$ file data5.bin
data5.bin: POSIX tar archive (GNU)
bandit12@bandit:/tmp/krithi$ rm file.tar
bandit12@bandit:/tmp/krithi$ rm data
rm: cannot remove 'data': No such file or directory
bandit12@bandit:/tmp/krithi$ rm data.txt
bandit12@bandit:/tmp/krithi$ ls
data5.bin
bandit12@bandit:/tmp/krithi$ file file
file: cannot open 'file' (No such file or directory)
bandit12@bandit:/tmp/krithi$ file data5.bin
data5.bin: POSIX tar archive (GNU)
bandit12@bandit:/tmp/krithi$ mv data5.bin data.tar
bandit12@bandit:/tmp/krithi$ tar xf data.tar
bandit12@bandit:/tmp/krithi$ ls
data6.bin data tar

```

F05dwFsc0cbaliH0h8J2eUks2vdTDwAn

```

bandit12@bandit:~$ ls
data.txt
bandit12@bandit:~$ cd /tmp/krithi
bandit12@bandit:/tmp/krithi$ ls
data6.bin data tar
bandit12@bandit:/tmp/krithi$ file data6.bin
data6.bin: bzip2 compressed data, block size = 900k
bandit12@bandit:/tmp/krithi$ mv data6.bin data.bz2
bandit12@bandit:/tmp/krithi$ bzip2 -d data.bz2
bandit12@bandit:/tmp/krithi$ ls
data data tar
bandit12@bandit:/tmp/krithi$ file file
file: cannot open 'file' (No such file or directory)
bandit12@bandit:/tmp/krithi$ file data
data: POSIX tar archive (GNU)
bandit12@bandit:/tmp/krithi$ mv data data.tar
bandit12@bandit:/tmp/krithi$ ls
data tar
bandit12@bandit:/tmp/krithi$ tar xf data.tar
bandit12@bandit:/tmp/krithi$ ls
data8.bin data tar
bandit12@bandit:/tmp/krithi$ file data8.bin
data8.bin: gzip compressed data, was "data9.bin", last modified: Thu Sep 19 07:08:15 2024, max compression, from Unix, original size modulo 2^32 49
bandit12@bandit:/tmp/krithi$ mv data8.bin data.gz
bandit12@bandit:/tmp/krithi$ gzip -d data.gz
bandit12@bandit:/tmp/krithi$ ls
data data tar
bandit12@bandit:/tmp/krithi$ file data
data: ASCII text
bandit12@bandit:/tmp/krithi$ cat data
The password is F05dwFsc0cbaliH0h8J2eUks2vdTDwAn
bandit12@bandit:/tmp/krithi$

```