File type

the text file is archived multiple times using different algorithms. Recursively unzipping the archives using the respective tools should have ended with a text

Enter your picoCTF username: lakshit

Enter your picoCTF password (characters will be hidden):

==========================================================================

Welcome to the picoCTF webshell!

💻 The webshell is intended only for solving picoCTF challenges. Any

other usage is a violation of our terms and conditions.

📹 Sessions are monitored and logged to prevent abuse. Please do not

enter any sensitive information into the webshell.

🗄 Files stored outside of your home directory will not persist between

webshell sessions.

🌐 Network connectivity and resources are limited. Some limits can be

checked by typing usage.

😴 Idle sessions will automatically log out after 15 minutes.

📚 For more information and a beginner's guide, type less ~/README.txt.

==========================================================================

lakshit-picoctf@webshell:~$ wget "https://artifacts.picoctf.net/c/80/Flag.pdf"

--2023-11-10 18:17:03-- https://artifacts.picoctf.net/c/80/Flag.pdf

Resolving artifacts.picoctf.net (artifacts.picoctf.net)... 3.160.22.16, 3.160.22.43, 3.160.22.92, ...

Connecting to artifacts.picoctf.net (artifacts.picoctf.net)|3.160.22.16|:443... connected.

HTTP request sent, awaiting response... 200 OK

Length: 5161 (5.0K) [application/octet-stream]

Saving to: 'Flag.pdf.2'

Flag.pdf.2 100%[==================================================================================================================>] 5.04K --.-KB/s in 0s

2023-11-10 18:17:04 (36.4 MB/s) - 'Flag.pdf.2' saved [5161/5161]

lakshit-picoctf@webshell:~$ ls Flag.pdf

Flag.pdf

lakshit-picoctf@webshell:~$ file Flag.pdf

Flag.pdf: shell archive text

lakshit-picoctf@webshell:~$ sh Flag.pdf

x - created lock directory \_sh00046.

x - SKIPPING flag (file already exists)

x - removed lock directory \_sh00046.

lakshit-picoctf@webshell:~$ ls

Flag.pdf Flag.pdf.1 Flag.pdf.2 README.txt \_flag.extracted cookies.txt flag fun server.py

lakshit-picoctf@webshell:~$ binwalk flag

DECIMAL HEXADECIMAL DESCRIPTION

--------------------------------------------------------------------------------

32 0x20 bzip2 compressed data, block size = 900k

lakshit-picoctf@webshell:~$ binwalk -e flag

DECIMAL HEXADECIMAL DESCRIPTION

--------------------------------------------------------------------------------

32 0x20 bzip2 compressed data, block size = 900k

lakshit-picoctf@webshell:~$ ls

Flag.pdf Flag.pdf.1 Flag.pdf.2 README.txt \_flag-0.extracted \_flag.extracted cookies.txt flag fun server.py

lakshit-picoctf@webshell:~$ ls \*.ex\*

\_flag-0.extracted:

20

\_flag.extracted:

20

lakshit-picoctf@webshell:~$ \_flag.extracted$ ls

-bash: \_flag.extracted$: command not found

lakshit-picoctf@webshell:~$ cd \_flag.extracted

lakshit-picoctf@webshell:~/\_flag.extracted$ ls

20

lakshit-picoctf@webshell:~/\_flag.extracted$ file 20

20: gzip compressed data, was "flag", last modified: Thu Mar 16 01:40:15 2023, from Unix, original size modulo 2^32 328

lakshit-picoctf@webshell:~/\_flag.extracted$ mv 20 20.gz

lakshit-picoctf@webshell:~/\_flag.extracted$ gunzip 20.gz

lakshit-picoctf@webshell:~/\_flag.extracted$ ls

20

lakshit-picoctf@webshell:~/\_flag.extracted$ file 20

20: lzip compressed data, version: 1

lakshit-picoctf@webshell:~/\_flag.extracted$ mv 20 20.gz

lakshit-picoctf@webshell:~/\_flag.extracted$ lunzip 20.gz

-bash: lunzip: command not found

lakshit-picoctf@webshell:~/\_flag.extracted$ mv 20 20.lz

mv: cannot stat '20': No such file or directory

lakshit-picoctf@webshell:~/\_flag.extracted$ file 20

20: cannot open `20' (No such file or directory)

lakshit-picoctf@webshell:~/\_flag.extracted$ cd

lakshit-picoctf@webshell:~$ cd \_flag.extracted

lakshit-picoctf@webshell:~/\_flag.extracted$ ls

20.gz

lakshit-picoctf@webshell:~/\_flag.extracted$ file 20.gz

20.gz: lzip compressed data, version: 1

lakshit-picoctf@webshell:~/\_flag.extracted$ mv 20 20.lz

mv: cannot stat '20': No such file or directory

lakshit-picoctf@webshell:~/\_flag.extracted$ mv 20.gz 20.gz.lz

lakshit-picoctf@webshell:~/\_flag.extracted$ lunzip 20.gz.lz

-bash: lunzip: command not found

lakshit-picoctf@webshell:~/\_flag.extracted$ ls

20.gz.lz

lakshit-picoctf@webshell:~/\_flag.extracted$ cd

lakshit-picoctf@webshell:~$ ^C

lakshit-picoctf@webshell:~$ cd \_flag-0.extracted

lakshit-picoctf@webshell:~/\_flag-0.extracted$ ls

20

lakshit-picoctf@webshell:~/\_flag-0.extracted$ file 20

20: gzip compressed data, was "flag", last modified: Thu Mar 16 01:40:15 2023, from Unix, original size modulo 2^32 328

lakshit-picoctf@webshell:~/\_flag-0.extracted$ mv 20 20.gz

lakshit-picoctf@webshell:~/\_flag-0.extracted$ gunzip 20.gz

lakshit-picoctf@webshell:~/\_flag-0.extracted$ ls

20

lakshit-picoctf@webshell:~/\_flag-0.extracted$ file 20

20: lzip compressed data, version: 1

lakshit-picoctf@webshell:~/\_flag-0.extracted$ mv 20 20.lz

lakshit-picoctf@webshell:~/\_flag-0.extracted$ lunzip 20.lz

-bash: lunzip: command not found

lakshit-picoctf@webshell:~/\_flag-0.extracted$ ls

20.lz

lakshit-picoctf@webshell:~/\_flag-0.extracted$

lakshit-picoctf@webshell:~/\_flag-0.extracted$ sudo apt-get update

-bash: sudo: command not found

lakshit-picoctf@webshell:~/\_flag-0.extracted$ sudo apt-get install lzip

-bash: sudo: command not found

lakshit-picoctf@webshell:~/\_flag-0.extracted$ gunzip

gzip: compressed data not read from a terminal. Use -f to force decompression.

For help, type: gzip -h

lakshit-picoctf@webshell:~/\_flag-0.extracted$ gzip

gzip: compressed data not written to a terminal. Use -f to force compression.

For help, type: gzip -h

lakshit-picoctf@webshell:~/\_flag-0.extracted$ lzip

lzip: (stdout): I won't write compressed data to a terminal.

lakshit-picoctf@webshell:~/\_flag-0.extracted$ lunzip

-bash: lunzip: command not found

lakshit-picoctf@webshell:~/\_flag-0.extracted$ lzip 20.lz

lzip: Input file '20.lz' already has '.lz' suffix.

lakshit-picoctf@webshell:~/\_flag-0.extracted$ lzip 20

lzip: 20: Can't open input file: No such file or directory

lakshit-picoctf@webshell:~/\_flag-0.extracted$ ^C

[lakshit-picoctf@webshell:~/\_flag-0.extracted$](mailto:lakshit-picoctf@webshell:~/_flag-0.extracted$)

─$ lzip -d 20

└─$ chmod +x 20.out

└─$ lz4 -d 20.lz4

Decoding file 20

20.lz4 : decoded 264 bytes

└─$ lzma -d 20.lzma

└─$ unxz 20.xz

7069636f4354467b66316c656e406d335f6d406e3170756c407431306e5f6630725f3062326375723137795f39353063346665657d0a

picoCTF{f1len@m3\_m@n1pul@t10n\_f0r\_0b2cur17y\_950c4fee}