

Safe Opener 2

```
prasanth@prasanth: ~/safe_o x + v
prasanth@prasanth:~/safe_opener.2$ file *
SafeOpener.class: compiled Java class data, version 52.0 (Java 1.8)
prasanth@prasanth:~/safe_opener.2$ cat SafeOpener.class
◆◆◆◆◆◆
0CDE FG
0H
0I
0J FN
0P
0Q
0R
0S
0T
0U
0VW
0X
0Y
0Z
0[
0]
R'ab00<init>00()V00Code00LineNumberTable00LocalVariableTable00this00
LSafeOpener;00main00([Ljava/lang/String;)V00isOpen00Z00arg
s00[Ljava/lang/String;keyboard00Ljava/io/BufferedReader;00encoder00Encoder00
InnerClasses00Ljava/util/Base64$Encode
r;0
StackMapTable*Dcd0Lang/String;00key00i00i0
ExceptionseopenSafe00(Ljava/lang/String;)Zpassword0
SourceFile0SafeOpener.java
0000java/io/BufferedReader00java/io/InputStreamReaderf
gh
0i
0jk
0m0
8°C
Mostly cloudy
12:54 PM
3/14/2023
```

```
prasanth@prasanth: ~/safe_o x + v
InnerClasses00Ljava/util/Base64$Encode
r;0
StackMapTable*Dcd0Lang/String;00key00i00i0
ExceptionseopenSafe00(Ljava/lang/String;)Zpassword0
SourceFile0SafeOpener.java
0000java/io/BufferedReader00java/io/InputStreamReaderf
gh
0i
0jk
0m0
no00Enter password for the safe: p
qr
std
uv
wx
yr
>?00java/lang/StringBuilder0
You have
z{
z|00 attempt(s) left
}t0,picoCTF{SAf3_0p3n3rr_y0u_solvd_it_040868fe}
~0
Sesame open00Password is incorrect
0
SafeOpener00java/lang/Object00java/util/Base64$Encoder00java/lang/String00java/io/IOException00java/lang/System00in00Ljava/i
o/InputStream;00(Ljava/io/InputStream;)V00(Ljava/io/Reader;)V00java/util/Base640
getEncoder00()Ljava/util/Base64$Encoder;00out00Ljava/io/PrintStream;00java/io/PrintStream00print00(Ljava/lang/String;)VreadL
ine00()Ljava/lang/String;getBytes00()[B00encodeToString00([B)Ljava/lang/String;00println00append0-(Ljava/lang/String;)Ljava/la
ng/StringBuilder;00(I)Ljava/lang/StringBuilder;toString00Equals00(Ljava/lang/Object;)Z!00000000 /000*000!000"
00#$ %00 0<0x00Y0000000L00MN:00600000T0 0
8°C
Mostly cloudy
12:53 PM
3/14/2023
```

Reverse

```
prasanth@prasanth: ~/reverse x + v
{hello}:80
{message}
prasanth@prasanth:~$ mkdir reverse
prasanth@prasanth:~$ cd reverse
prasanth@prasanth:~/reverse$ ls
prasanth@prasanth:~/reverse$ wget https://artifacts.picoctf.net/c/368/ret
--2023-03-14 10:55:51-- https://artifacts.picoctf.net/c/368/ret
Resolving artifacts.picoctf.net (artifacts.picoctf.net)... 18.155.181.17, 18.155.181.7, 18.155.181.28, ...
Connecting to artifacts.picoctf.net (artifacts.picoctf.net)|18.155.181.17|:443... connected.
HTTP request sent, awaiting response... 200 OK
Length: 16888 (16K) [application/octet-stream]
Saving to: 'ret'

ret                                     100%[=====] 16.49K --.-KB/s in 0s

2023-03-14 10:55:52 (39.1 MB/s) - 'ret' saved [16888/16888]

prasanth@prasanth:~/reverse$ file *
ret: ELF 64-bit LSB pie executable, x86-64, version 1 (SYSV), dynamically linked, interpreter /lib64/ld-linux-x86-64.so.2, B
uildID[sha1]=936ffedb312ba57a05ea3136c17b3ea2f7d9a419, for GNU/Linux 3.2.0, not stripped
prasanth@prasanth:~/reverse$ chmod +x ret
prasanth@prasanth:~/reverse$ ls
ret
prasanth@prasanth:~/reverse$ ./ret
Enter the password to unlock this file: lsasa
You entered: lsasa
Access denied
prasanth@prasanth:~/reverse$ strings ret
/lib64/ld-linux-x86-64.so.2
libc.so.6
__isoc99_scanf
```

```
prasanth@prasanth: ~/reverse x + v
Enter the password to unlock this file: lsasa
You entered: lsasa
Access denied
prasanth@prasanth:~/reverse$ strings ret
/lib64/ld-linux-x86-64.so.2
libc.so.6
__isoc99_scanf
puts
__stack_chk_fail
printf
__cxa_finalize
strcmp
__libc_start_main
GLIBC_2.7
GLIBC_2.4
GLIBC_2.2.5
_ITM_deregisterTMCloneTable
__gmon_start__
_ITM_registerTMCloneTable
u+UH
picoCTF{H
3lf_r3v3H
r5ing_suH
cce55fulH
_362575aH
[]A\A]A^A_
Enter the password to unlock this file:
You entered: %s
Password correct, please see flag: picoCTF{3lf_r3v3r5ing_succe55ful_362575a1}
Access denied
:*3$"
```