Unknown

Description: Is this file a binary in disguise?

Author : 0xrakesh **File** : challenge

Analysis the file:

file challenge

```
→ pybyte git:(master) x file challenge challenge: ELF 64-bit LSB executable, x86-64, version 1 (SYSV), dynamically linked, interpreter /lib64/ld-linux-x86-64.so.2 , BuildID[sha1]=f6af5bc244c001328c174a6abf855d682aa7401b, for GNU/Linux 2.6.32, stripped
```

It is elf binary, dynamically linked and stripped.

Strings challenge

Nothing interest

readelf -S challenge

The challenge binary contain pydata section. So it is python file that compile to elf. So decompile this file by using pyinstxtractor.

Pyinstxtractor.py challenge

It gives python bytecode file.

Uncompyle6 challenge.pyc

Now we get the python file

The lines are encode by bytearray and execute by using eval(). To decode the line, we just replace the eval() to print().

```
-/ctframict_2.0pybyte/script.py - Sublime Text (UNREGISTERED)

-/ctframict_2.0pybyte/script.pytex.pytex.pytex.pytex.pytex.pytex.pytex.pytex.pytex.pytex.pyte
```

Output:

```
pybyte git:(master) x ./script.py
time.sleep(0) if cringe[3] == '_' else idfc()
time.sleep(0) if cringe[11] == '_' else idfc()
time.sleep(0) if cringe[21] == '_' else idfc()
time.sleep(0) if cringe[26] == '_' else idfc()
time.sleep(0) if cringe[-1] == '?' else idfc()
time.sleep(0) if base64.b64encode(cringe[4:11].encode('utf-8')).decode() == "cjN2M3JTZQ==" else idfc()
time.sleep(1) if base64.b16encode(cringe[27:].encode('utf-8')).decode() == '74416C336E54346E543F' else idfc()
time.sleep(1) if cringe[:3] + cringe[22:26] == 'aRel3s5' else idfc()
bytearray(b"\'.join([ chr(ord(i)^2) for i in cringe[12:21] ])")
time.sleep(1) if enigd == 'gLeklgGp7' else idfc()
print("Correct password!!!!\n")
input("Enter the password: ")
udkncdi(dfjic) if len(dfjic) == 37 else print("\nWrong flag\n")
```

There are some condition which check the password. Make a script.

Execute the script:

```
pybyte git:(master) x ./flag.py
aRe_r3v3rSe_eNgIneEr5_l3s5_tAl3nT4nT?
pybyte git:(master) x
```

Run the binary with this password:

```
→ pybyte git:(master) x ./challenge

----- Welcome to TamilCTF -----

Enter the password : aRe_r3v3rSe_eNgIneEr5_l3s5_tAl3nT4nT?

Wait for few second

Correct password!!!!
```

Yeah !!! We found the correct password.