

IPENCRYPTER.COM

Protect Python Scripts - Intellectual Property

ipepycrypter

ipencrypter.com

Contents

Contents..... 1

 IPEPYCRYPTER..... 2

ipepycrypt 2

ipepython 2

 ENCRYPT PYTHON SCRIPT 2

 Process of creating encrypted script through *ipepycrypt*: 2

 EXECUTE PYTHON SCRIPT 3

 Process to execute encrypted scripts 3

 OS SUPPORT..... 4

IPEPYCRYPTER

ipepycrypter is a suite that helps protect python scripts. This is accomplished by hiding script implementation through encryption. The encrypted script is executed by enhanced python interpreter. *ipepycrypter* consists of encryption tool *ipepycrypt* and python interpreter *ipepython*

ipepycrypt

ipepycrypt is an application to encrypt python script.

ipepython

ipepython is an enhanced python interpreter to execute the encrypted python script. It also executes non-encrypted python script.

ENCRYPT PYTHON SCRIPT

Script author can use *ipepycrypt* to encrypt python script. The encrypted script hides the contents from its users by making it unreadable.

Process of creating encrypted script through *ipepycrypt*:

- Create python script.
- Run *ipepycrypt* to generate encrypted script.
 - Note: Don't overwrite your original script with the encrypted script. The encrypted script cannot be decrypted by this application.

***ipepycrypt* command syntax for encryption:**

```
ipepycrypt --infile <input> --outfile <output>
```

Arguments:

```
--help          produce help message
-I [ --infile ] arg    input file to encrypt
-O [ --outfile ] arg   output file encrypted
-A [ --author ] arg (=ipepycrypt)  author name
-U [ --author_info ] arg (=http://ipencrypter.com) author information
-F [ --force ]        force overwrite
```

Create Python Script

Here is a simple factorial example (factorial.py).

```
# Comment it to use default value
num = int(input("Enter a number: "))

factorial = 1
```

```

# check the number: negative, positive or zero
if num < 0:
    print("Error: factorial does not exist for negative numbers")
elif num == 0:
    print("The factorial of 0 is 1")
else:
    for i in range(1,num + 1):
        factorial = factorial*i
    print("The factorial of",num,"is",factorial)

```

Run *ipepycrypt* to generate encrypted script

Command: `ipepycrypt -l factorial.py -O factorial_e.py`

The generated encrypted script looks like:

```

#ipepy protect begin_protected
#ipepy protect version=2
#ipepy protect encrypt_agent="ipecrypt"
#ipepy protect encrypt_agent_info="http://ipencrypt.com Version 2017.04.0"
#ipepy protect author="ipepycrypt"
#ipepy protect author_info="http://ipencrypt.com"
#ipepy protect data_method="aes128-cbc"
#ipepy protect begin_toolblock
#ipepy protect key_keyowner="ipepython"
#ipepy protect key_method="rsa"
#ipepy protect key_keyname="ipepython_key1"
#ipepy protect rights_digest_method="sha256"
#ipepy protect key_block
OHDgPIfziOzV2VS+Df1YJd74FS6mlK45s0DTou7EvDXZa9NDk/sBrCSBx7wsW0D
xg5cvkCbO6pL/teHYs2RVhwcA9Xf0ro+rgV+L78+XAMooqxIPcUycz6TN7C0D4HU
tO8hZSpCsTWCpCfYmjj0oirfGjftEV2+msxGqlc53knrYaYm6AH6/IFR0xjz3kM
rwsLQnhlCnITkly4coRgKgrkn6m5wRlzyAxEltdPTKFwZGx5LrVHEscBl2baj5yX
z/XPwo/aBPCd1BiVfF3nG68z6SG89TjjDMwJIMhLFxx+n1J2X9jdlziZgSqnm3xG
/6JeuLSuoVaYUnaLmdBreg==
#ipepy protect end_toolblock="PDwirOzNOUNkmrFYyJAtVhiW5ZYz5z0CJicFlzw/93A="
#ipepy protect data_block
aw9NKFsLVmx7whhSuNV2zUS/mxYhm4beaJ2r8wYW8Pa4USvCT6WI/3W2wqJCfne
QCZ9sdRBqCol60vhWosYjF422HrwCiPLpGJByiWtXefvYqYotKtcfJBdRneKU6vl
PbOOF1qhuycOzBh/ghbPT6YdD/UjMQLeujzXmVLQoT56zc7MWLwWYgmdpp8uoNam
CF3Hiurt1QLTTivc0g2DpLAsgc1+R4G9foBqLM0TxFjGp04vrJ5nIP52+NFK132
4wrTKkaWVSpPjCByg7muz6xnQRR9UgbN7W8o8v6gRgeOVw0sPUdQ5oUnexyN/CWT
PS9bBqBMlBjkCu6gZUq3BOEuNKfB3X2+uzV3ABWYv0z7GhwR8b68uH8e7Fag7fWv
437pdpMUqYogvgidnulSuaNerw+13h7mXzeVatQ0l4jh3zdXQi0fgps3Xnvl2Glf
MOfc2vzZIAP/G+yfxE/ju6yF1wmk/UXa+SV8ONhma0btjzb96Se++AhHtJldkLuC
vfwXzk3V5DFzlyH8Jrgqd1KDr8ho9mF0Tr8pZDdbckaDwYIsrF0zCS9i43RNzQ
#ipepy protect end_protected

```

EXECUTE PYTHON SCRIPT

ipepython is an enhanced python interpreter to execute the script encrypted by *ipepycrypt*. It handles non-encrypted scripts also.

Process to execute encrypted scripts

```

Command: ipepython factorial_e.py
$ ipepython factorial_e.py
Enter a number: 7
The factorial of 7 is 5040

```

OS SUPPORT

ipepycrypter is supported on Linux (64-bit) and Windows-10 (64-bit) operating systems.