

AES / Rijndael

Table of Contents	
▪ AES / Rijndael	
▪ AESEncryptCtr / AESDecryptCtr	
▪ Usage	
▪ See Also	

Usually, you should use [PyCrypto](#) from the [python-crypto](#) package. But if you want to code in Python3, there's no fast hybrid¹⁾ implementation of such a library.

Using Google, you will most probably stumble on [Bram Cohen's Rijndael implementation](#) in pure Python.²⁾ I took his code and made it Python3 ready by replacing all `xrange()` by `range()`, all divisions `(/)` by integer-divisions `(//)` and made the `string.join()` working. There were no more changes necessary.

See the working Python class here: [rijndael.py](#) (10.69 KiB, 1285 downloads)

Another Rijndael implementation I found was [pyRijndael](#). After changing the two `long()` to `int()` and adding parentheses to all the `prints` at the end of the file, it worked fine with Python3.

AESEncryptCtr / AESDecryptCtr

[Chris Veness](#) had created a [JavaScript](#) implementation of AES in counter operation mode some time ago. He also ported this script to [PHP](#) so that you can interchange information between those two systems.

I ported the same library to Python to let Python talk to a [PHP](#) server in an encrypted way.

Download it here: [aes.py](#) (7.59 KiB, 1021 downloads)

Usage

```
import aes
text = "Hello, world!"
password = "itsmysecret"
blocksize = 256 # can be 128, 192 or 256
crypt = aes.encrypt( text, password, blocksize )
# do something
decrypted = aes.decrypt( crypt, password, blocksize )
```

See Also

- [AES / Rijndael](#) — JavaScript implementation of this algorithm
- [AES / Rijndael](#) — PHP implementation of this algorithm

AROUND THE WEB



Must Have Appliances Being sold For Next To Nothing [LifeFactopia](#)



Top 10 Turn-Offs for Women [Lifescript](#)



50 Best Pizzas in America: One from Every State [Zagat](#)



12 Celebrities You Didn't Know Were Asian [Answers.com](#)

5 Comments [mbirth's Wiki](#)

[Login](#)

Sort by Newest ▾

Share Favorite



Join the discussion...



Gabor • a year ago

Resolved. The error was in my code...



Gabor • a year ago

Hello

Welcome to mbirth's Wiki

- + Willkommen auf mbirth's Wi
- + Know-How
- + Code Snippets
 - + apache
 - + AutoHotkey
 - + C#
 - + CMD/BAT
 - + CSS
 - + Excel
 - + Java
 - + JavaScript
 - + PHP
 - + Python
 - + AES / Rijndael
 - + TrayIcon with wxWidg
 - + SH
 - + VBA
 - + Software

Other pages

- [Homepage](#)
- [Piwik](#)
- [SiteBar Bookmarks](#)



1

[Flattr](#)

NetApp®
Unbound
Cloud

[netapp.com/Cloud](#)

Download Our Cloud
Study & Learn A New
Way to Manage Private
Cloud!



PMI®
Strategic
Initiative

Free IP
Address
Manager

Network
Security
Software

Django Web
Framework

I'm trying to use AESEncryptCtr / AESDecryptCtr in php / python by the following way:

I'm encrypting my string in php, and put that into a cookie:

```
$encrypted = AesCtr::encrypt($content,$password,256);
setrawcookie("user", $encrypted, time() + 3600);
```

Than I make a http request in python, read the content of the cookie, and try to decrypt like this:

```
import requests
import aes
...
r = requests.get(url)
encrypted = r.cookies["user"]
decrypted = aes.decrypt(encrypted,password,256)
```

the code runs without errors on both sides, but I get a meaningless "decrypted" string at the end. I know that data transfer by cookie is not very elegant - please don't comment that. I have debugged the

[see more](#)

^ | v • Reply • Share >

 **gadelat** • 2 years ago

your AESEncryptCtr / AESDecryptCtr does not work :(

```
gadelat@gadelat-Latitude-E6410:~/opera/temporary_downloads$ python3
Python 3.2.2 (default, Sep 5 2011, 21:17:14)
[GCC 4.6.1] on linux2
Type "help", "copyright", "credits" or "license" for more information.
>>> import aes
>>> text = "Hello, world!"
>>> password = "itsmysecret"
>>> blocksize = 256 # can be 128, 192 or 256
>>> crypted = aes.encrypt( text, password, blocksize )
Traceback (most recent call last):
File "<stdin>", line 1, in <module>
File "aes.py", line 148, in encrypt
key = Cipher(pwBytes, KeyExpansion(pwBytes))
File "aes.py", line 112, in KeyExpansion
w = [0] * Nb*(Nr+1)
TypeError: can't multiply sequence by non-int of type 'float'
```

1 ^ | v • Reply • Share >

 **Juan Fran Blanco** • 2 years ago

Great library, many thanks.

^ | v • Reply • Share >

 **Robert** • 3 years ago

Does this work on Windows too?

^ | v • Reply • Share >

 [Subscribe](#)

 [Add Disqus to your site](#)

DISQUS

¹⁾ i.e. mostly C-code, partly Python-code

²⁾ You know  Bram Cohen, don't you?