

picoCTF 2022 Mini

runme.py



5 points



Tags:

Category: General Skills

Python

AUTHOR: SUJEET KUMAR

Hints

Description

1

2

3

4

Run the `runme.py` script to get the flag. Download the script with your browser or with `wget` in the webshell.

[Download runme.py Python script](#)

3,615 solves / 4,799 attempts (75%)



73% Liked



picoCTF{FLAG}

Submit Flag

```
→ picoCTFmini2022_playground python3 runme.py
picoCTF{run_s4n1ty_run}
```

```
→ picoCTFmini2022_playground
```

Desktop

runme.py

ncme



10 points



Tags:

Category: General Skills

nc

AUTHOR: LT 'SYREAL' JONES

Hints

Description

1

2

3

Connect to a remote computer using `nc` and get the flag.

```
$ nc saturn.picoctf.net 57688
```

3,318 solves / 3,827 attempts (87%)

77%
Liked

picoCTF{FLAG}

Submit
Flag

```
no port[s] to connect to
→ picoCTFmini2022_playground nc saturn.picoctf.net 57688
picoCTF{s4n1ty_c4t}
```

```
→ picoCTFmini2022_playground
```

Documents

1/23/22, 1:14 PM

picoCTF - Evernote

convertme.py

15 points

Tags:

Category: General Skills

base

Python

AUTHOR: LT 'SYREAL' JONES

Hints

Description

1

2

3

4

Run the Python script and convert the given number from decimal to binary to get the flag.

[Download Python script](#)

3,183 solves / 4,814 attempts (66%)

71% Liked

picoCTF{FLAG}

Submit Flag

Using CyberChef

Last build: 5 months ago

Options

About / Support

Recipe

From Decimal

Delimiter

Space

☐

Support signed values

To Binary

Delimiter

Space

Byte Length

8

Input

length: 2

lines: 1

61

Output

time: 1ms

length: 8

lines: 1

00111101

```
→ picoCTFmini2022_playground python3 convertme.py
If 61 is in decimal base, what is it in binary base?
Answer: 00111101
That is correct! Here's your flag: picoCTF{4ll_y0ur_b4535_e2a58836}
→ picoCTFmini2022_playground
```

Codebook



20 points

Tags: **Category: General Skills** shell Python

AUTHOR: LT 'SYREAL' JONES

Hints

Description

1

2

Run the Python script `code.py` in the same directory as `codebook.txt`.

- [Download code.py](#)
- [Download codebook.txt](#)

2,885 solves / 3,305 attempts (87%)

51%
Liked

picoCTF{FLAG}

Submit
Flag

```
→ picoCTFmini2022_playground python3 code.py
picoCTF{c0d3b00k_455157_8100c7c1}
→ picoCTFmini2022_playground
```

fixme1.py



25 points

Tags: **Category: General Skills** Python

AUTHOR: LT 'SYREAL' JONES

Hints

Description

1

2

3

4

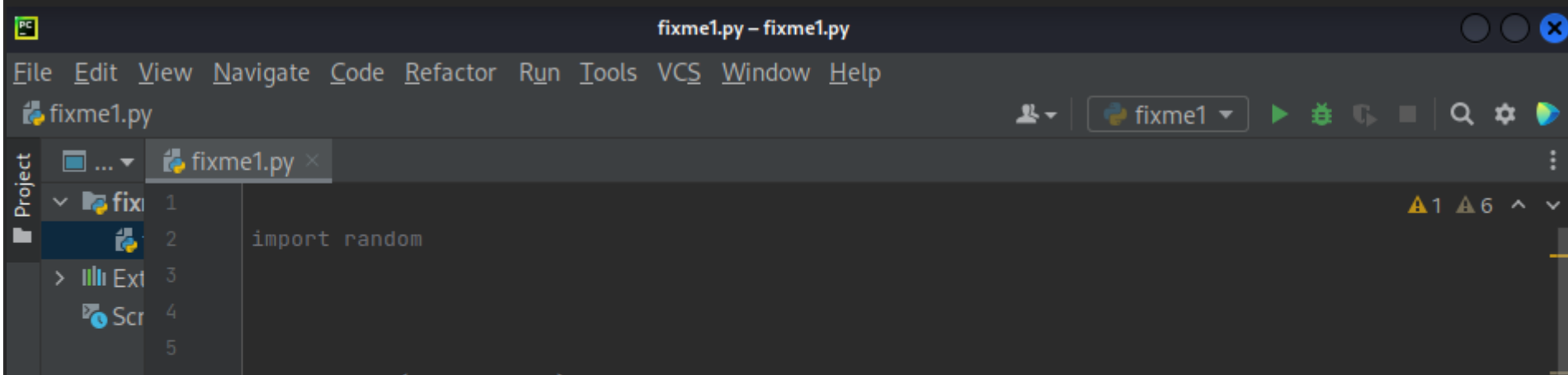
Fix the syntax error in this Python script to print the flag.

[Download Python script](#)

3,101 solves / 3,826 attempts (81%)

78%
Liked

picoCTF{FLAG}

Submit
Flag

```
def str_xor(secret, key):
    #extend key to secret length
    new_key = key
    i = 0
    while len(new_key) < len(secret):
        new_key = new_key + key[i]
        i = (i + 1) % len(key)
    return "".join([chr(ord(secret_c) ^ ord(new_key_c)) for (secret_c, new_key_c) in zip(secret, new_key)])

flag_enc = chr(0x15) + chr(0x07) + chr(0x08) + chr(0x06) + chr(0x27) + chr(0x21) + chr(0x23) + chr(0x06)

/home/biddion/Documents/GitHub/picoCTF/fixme1.py
flag_enc: str = chr(0x15) + chr(0x07) + chr(0x08) + chr(0x06) + chr(0x27) + chr(0x21) + chr(0x23) + chr(0x06)

print('That is correct! Here\'s your flag: ' + flag)
```

Run: fixme1 x

```
/usr/bin/python3.9 /home/biddion/Documents/GitHub/picoCTF/fixme1.py
That is correct! Here's your flag: picoCTF{1nd3nt1ty_cr1515_09ee727a}
```

Process finished with exit code 0

fixme2.py

Tags: Category: General Skills Python

AUTHOR: LT 'SYREAL' JONES

Description

Fix the syntax error in the Python script to print the flag.

[Download Python script](#)

Hints

1 2 3 4

Are equality and assignment the same symbol?

3,008 solves / 3,339 attempts (90%)

87% Liked

picoCTF{FLAG}

Submit Flag

```

1
2 import random
3
4
5
6 def str_xor(secret, key):
7     #extend key to secret length
8     new_key = key
9     i = 0
10    while len(new_key) < len(secret):
11        new_key = new_key + key[i]
12        i = (i + 1) % len(key)
13    return "".join([chr(ord(secret_c) ^ ord(new_key_c)) for (secret_c,new_key_c) in zip(se
14
15    secret_c: Any
16
17
18
19 flag_enc = chr(0x15) + chr(0x07) + chr(0x08) + chr(0x06) + chr(0x27) + chr(0x21) + chr(0x2
20
21
22 flag = str_xor(flag_enc, 'enkidu')
23
24 # Check that flag is not empty
25 if flag != "":
26     print('String XOR encountered a problem, quitting.')
27
28
29 if flag

```

Run: fixme1 x

```

/usr/bin/python3.9 /home/biddion/Documents/GitHub/picoCTF/fixme1.py
That is correct! Here's your flag: picoCTF{1nd3nt1ty_cr1515_09ee727a}
Process finished with exit code 0

```

PW Crack 1

25 points

Tags: **Category: General Skills** password_cracking

AUTHOR: LT 'SYREAL' JONES

Description

Can you crack the password to get the flag?

Download the password checker [here](#) and you'll need the encrypted [flag](#) in the same directory too.

Hints

1 2 3

2,846 solves / 3,503 attempts (81%)

78% Liked

picoCTF{FLAG}

Submit Flag

```

def level_1_pw_check():
    user_pw = input("Please enter correct password for flag: ")
    if( user_pw == "691d"):
        print("Welcome back... your flag, user:")
        decryption = str_xor(flag_enc.decode(), user_pw)
        print(decryption)

```

```
return
print("That password is incorrect")
```

```
(biddion@kali)-[~/Documents/GitHub/picoCTF]
$ python3 level1.py level1.flag.txt.enc
Please enter correct password for flag: 691d
Welcome back... your flag, user:
picoCTF{545h_r1ng1ng_56891419}
```

Glitch Cat

30 points

Category: General Skills

nc

shell

Python

AUTHOR: LT 'SYREAL' JONES

Description

Our flag printing service has started glitching!

\$ nc saturn.picoctf.net 52026

2,655 solves / 5,763 attempts (46%)

63% Liked

picoCTF{FLAG}

Submit Flag

Hmmm I took the file from [fixme1.py](#) and inserted

```
flag_enc = chr(0x62) + chr(0x65) + chr(0x63) + chr(0x66) + chr(0x33) + chr(0x38) + chr(0x36) + chr(0x31)
```

And changed the string to the proper

level1.py

level1.py

External Libraries

Scratches and Consoles

1

2

3

4

5

6

7

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9

10

11

12

13

14

15

16

17

18

19

20

21

22

```
import random

def str_xor(secret, key):
    #extend key to secret length
    new_key = key
    i = 0
    while len(new_key) < len(secret):
        new_key = new_key + key[i]
        i = (i + 1) % len(key)
    return "".join([chr(ord(secret_c) ^ ord(new_key_c)) for (secret_c,new_key_c) in zip(secret,new_key)])

flag_enc = chr(0x62) + chr(0x65) + chr(0x63) + chr(0x66) + chr(0x33) + chr(0x38) + chr(0x36) + chr(0x31)

flag = str_xor(flag_enc, 'enkidu')
print('picoCTF{gl17ch_m3_n07_' + flag + '}' )
```

glitchcat

/usr/bin/python3.9 /home/biddion/Documents/GitHub/picoCTF/glitchcat.py

picoCTF{gl17ch_m3_n07_00WMS_}

Process finished with exit code 0

and got

picoCTF{gl17ch_m3_n07_WMS_}

but this isn't working when I enter the flag 😞

5	0x05	␣	ENQ	37	0x25	7	69	0x45	E	101	0x65	e
6	0x06	␣	ACK	38	0x26	&	70	0x46	F	102	0x66	f
7	0x07	•	BEL	39	0x27	'	71	0x47	G	103	0x67	g
8	0x08	␣	BS Backspace	40	0x28	(	72	0x48	H	104	0x68	h
9	0x09	○	TAB It	41	0x29	)	73	0x49	I	105	0x69	i
10	0x0A	␣	LF Line Feed In	42	0x2A	*	74	0x4A	J	106	0x6A	j
11	0x0B	♂	VT	43	0x2B	+	75	0x4B	K	107	0x6B	k
12	0x0C	♀	FF Form Feed	44	0x2C	,	76	0x4C	L	108	0x6C	l
13	0x0D	♪	CR Carriage Return \r	45	0x2D	-	77	0x4D	M	109	0x6D	m
14	0x0E	♪	SO	46	0x2E	.	78	0x4E	N	110	0x6E	n
15	0x0F	⚙	SI	47	0x2F	/	79	0x4F	O	111	0x6F	o
16	0x10	▶	DLE	48	0x30	0	80	0x50	P	112	0x70	p
17	0x11	◀	DC1	49	0x31	1	81	0x51	Q	113	0x71	q
18	0x12	‡	DC2	50	0x32	2	82	0x52	R	114	0x72	r
19	0x13	!!!	DC3	51	0x33	3	83	0x53	S	115	0x73	s
20	0x14	¶	DC4	52	0x34	4	84	0x54	T	116	0x74	t
21	0x15	§	NAK	53	0x35	5	85	0x55	U	117	0x75	u
22	0x16	▬	SYN	54	0x36	6	86	0x56	V	118	0x76	v
23	0x17	‡	ETB	55	0x37	7	87	0x57	W	119	0x77	w
24	0x18	↑	CAN	56	0x38	8	88	0x58	X	120	0x78	x
25	0x19	↓	EM	57	0x39	9	89	0x59	Y	121	0x79	y
26	0x1A	→	SUB (EOF)	58	0x3A	:	90	0x5A	Z	122	0x7A	z
27	0x1B	←	ESC (Escape)	59	0x3B	;	91	0x5B	[	123	0x7B	{
28	0x1C	⌞	FS	60	0x3C	<	92	0x5C	\	124	0x7C	|
29	0x1D	↔	GS	61	0x3D	=	93	0x5D	]	125	0x7D	}
30	0x1E	▲	RS	62	0x3E	>	94	0x5E	^	126	0x7E	~
31	0x1F	▼	US	63	0x3F	?	95	0x5F	_	127	0x7F	DEL

```
(biddion@kali)-[~/Documents/GitHub/picoCTF]
$ python3 level2.py level2.flag.txt.enc
Please enter correct password for flag: 4ec9
Welcome back... your flag, user:
picoCTF{tr45h_51ng1ng_9701e681}
```

HashingJobApp

40 points

Category: General Skills hashing nc shell Python

AUTHOR: LT 'SYREAL' JONES

Description

If you want to hash with the best, beat this test!

nc saturn.picoctf.net 65352

Hints

1 2

2,684 solves / 3,135 attempts (86%)

77% Liked

picoCTF{FLAG}

Submit Flag

Hmmm. I'm not sure exactly what they want here despite my experience with md5sum

Serpentine

50 points

Category: General Skills Python

AUTHOR: LT 'SYREAL' JONES

Description

Hints

Description

Find the flag in the Python script!

[Download Python script](#)

2,581 solves / 3,159 attempts (82%)

85% Liked

picoCTF{FLAG}

Submit Flag

I'll come back to this later

PW Crack 3

75 points

Tags:

Category: General Skills

password_cracking

hashing

AUTHOR: LT 'SYREAL' JONES

Description

Can you crack the password to get the flag?

Download the password checker [here](#) and you'll need the encrypted [flag](#) and the [hash](#) in the same directory too.

There are 7 potential passwords with 1 being correct. You can find these by examining the password checker script.

Hints

1

2

3

2,371 solves / 2,658 attempts (89%)

85% Liked

picoCTF{FLAG}

Submit Flag

Having installed bvi to system
bvi level3.hash.bin

```
biddion@kali: ~/Documents/GitHub/picoCTF
File Actions Edit View Help
00000000  F 60 45 8C C6 42 43 BA 3B 88 F8 BF CF A2 69 EB  .`E..BC.;.....i.
~
```

What is this? .`E.ÆBC°;ø¿İ❏ië

Having opened the script I find:

```
0# The strings below are 7 possibilities for the correct password.
0# (Only 1 is correct)
pos_pw_list = ["8799", "d3ab", "1ea2", "acaf", "2295", "a9de", "6f3d"]
```

After manually bruteforcing

```
(biddion@kali)-[~/Documents/GitHub/picoCTF]
$ python3 level3.py level3_flag.txt enc
```

```
python3 levels.py levels.flag.txt.enc
Please enter correct password for flag: 1ea2
Welcome back... your flag, user:
picoCTF{m45h_fl1ng1ng_6f98a49f}
```

I wish I knew a better way.

PW Crack 4



🔊 | 👤 | 85 points ✕

Tags: **Category: General Skills** password_cracking hashing

AUTHOR: LT 'SYREAL' JONES

Description

Can you crack the password to get the flag?

Download the password checker [here](#) and you'll need the encrypted [flag](#) and the [hash](#) in the same directory too.

There are 100 potential passwords with only 1 being correct. You can find these by examining the password checker script.

Hints

1 2

2,076 solves / 2,469 attempts (84%)

👍 86% Liked 👍

🚩 picoCTF{FLAG}

Submit Flag

Again, I don't know how to do this yet. 😞 I'll ask my friend for help soon. 😊

I did find the 100 passwords and put them in a txt thinking I can use something like john to break; all my googlefoo attempts brought me to python scripts to do the breaking, not how to break a script. Looking at the hint, it seems I need to do a "for loop" which I can only do loops that print fruits hahaha!

PW Crack 5



🔊 | 👤 | 100 points ✕

Tags: **Category: General Skills** password_cracking hashing

AUTHOR: LT 'SYREAL' JONES

Description

Can you crack the password to get the flag?

Download the password checker [here](#) and you'll need the encrypted [flag](#) and the [hash](#) in the same directory too. Here's a [dictionary](#) with all possible passwords based on the password conventions we've seen so far.

Hints

1 2 3

solves / 2,246 attempts (81%)

👍 71% Liked 👍

picoCTF{FLAG}

Submit Flag

