

PicoCTF Cryptography: Interencdec Writeup

This challenge is called interencdec and the description is as follows.

Description

Can you get the real meaning from this file.

Download the file [here](#).

We download the file and then open it in Visual Studio Code. We are then presented with the following base64 string.

```
YidkM0JxZGtwQlRYdHFhR3g2YUhsZmF6TnFlVGwzWROclgyeG90akJzTURCcGZRPT0nCg==
```

We can use CyberChef to decode this. The output is as follows.

```
b'd3BqdkpBTXtqaGx6aHlfazNqeTl3YTNrX2xoNjBsMDBpfQ=='
```

This presents us with a byte literal string. This is useful in Python for encoding or decoding strings. However, we can just copy and paste the base64 string itself.

```
wpjvJAM{jhlzhy_k3jy9wa3k_lh60l00i}
```

We get a string in the style of a flag, however, we can see that it is shifted as we need the first characters to be 'PicoCTF' followed by the flag. This means that we can try to copy and paste this into a Caesar cipher brute forcer.

```
→7 (←19) picoCTF{caesar_d3cr9pt3d_ea60e00b}
```

We find that the text that was shifted by 7 is the final correct flag. We submitted the flag and it was correct.

Hurray! You have solved this challenge correctly again.

