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## Super Dubs World

Challenge of BKCTF

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MISC

POLYGLOT FILE

## Super Dubs World

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### Description

Dubs recently started learning about ASCII art and decided to make a self-portrait! He says it's inspired by his favorite game franchise and his trips around the world.

The result is a single file that's... unique, to say the least. Dubs seems very proud of it!

Looks like he ate something strange, too. Maybe look into that?

### Analyse the attachment

First, let's analyze the file:

```
$ file dubs.pdf
```

```
dubs.pdf: MS Windows icon resource - 1 icon, 256x256 with PNG image data, 250 x 219, 8-bit
```

```
$ binwalk dubs.pdf
```

	DECIMAL	HEXADECIMAL	DESCRIPTION
	27	0x1B	PDF document, version: "1.4"
1	11615	0x2D5F	YAFFS filesystem root entry, big endian, type symlink, v1 ro
1	11766	0x2DF6	PNG image, 250 x 219, 8-bit/color RGBA, non-interlaced
1	11807	0x2E1F	Zlib compressed data, best compression
1	181164	0x2C3AC	PDF document, version: "1.4"
1	181350	0x2C466	Zlib compressed data, default compression
1	200983	0x31117	Zlib compressed data, default compression
1	207930	0x32C3A	Zlib compressed data, default compression
1	208387	0x32E03	Zlib compressed data, default compression
1	212846	0x33F6E	Zlib compressed data, default compression
1	213481	0x341E9	Zlib compressed data, default compression
2	218079	0x353DF	Zlib compressed data, default compression
2	218605	0x355ED	Zlib compressed data, default compression
2	222758	0x36626	Zlib compressed data, default compression
2	223250	0x36812	Zlib compressed data, default compression
2	224545	0x36D21	Zlib compressed data, default compression
2	227476	0x37894	Zip archive data, at least v2.0 to extract, compressed size:
2	327615	0x4FFBF	End of Zip archive. footer length: 22

From the output we can clearly see that the file contains multiple embedded formats.

So this is very likely a **polyglot file**.

We can identify different file types inside it:

- Zip archive
- PDF document
- PNG image
- MP4 file

# Solve

## First part

Opening the file as a normal PDF, we can find the first part of the flag:

```
| bkctf{
```

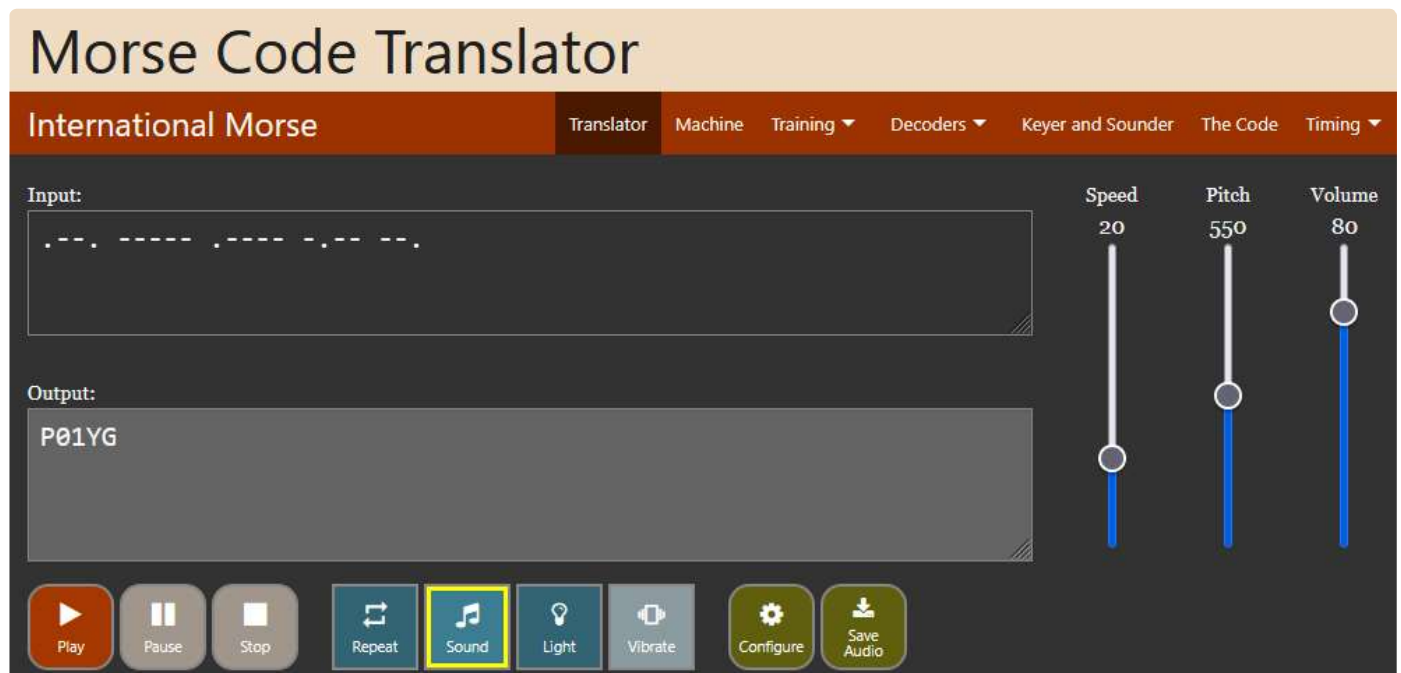
## Second part – MP4 / Audio (Morse Code)

By changing the file extension from `.pdf` to `.mp4`, we discover that the file also contains a valid media stream.

Listening to the audio, it clearly resembles Morse code. By analyzing the spectrogram (for example using Audacity), we can visually read the Morse sequence and decode it.

Morse code:

`.-.-. -.-.-. -.-.-. -.-.-.`



Decoded:

P01YG

## Third part – PNG

Next, we extract the PNG image from the polyglot file (using `binwalk -e` or by carving it manually).

Inside the image we can find another portion of the flag:



L0ts\_

## Fourth part – ZIP archive

From the `binwalk` output, we saw that a ZIP archive is embedded in the file.

By renaming the file to `.zip` and extracting it, we obtain a PDF file. Inside that PDF, we find the fourth part of the flag:

```
..+FICHER#-
.  ---+###-
.  .+++.++-
... .++###+--
.+-----+###BESTAND-
.+++.+...+###+--+
-#+-
.++..[4:l0v3_]...
.#. ....-###-
-#+-
+#+-+--+
++###ФАЙЛ+
. ....
```

l0v3\_

## Final part

The last portion of the flag can be found again by extracting and analyzing the PNG content from the polyglot file.



```
DUB5!}
```

## Final Flag

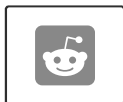
Putting everything together and converting everything to lowercase:

```
bkctf{p01ygl0ts_l0v3_dub5!}
```

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