

1. In this challenge we are given ppt file.

```
none@alpha:~/hck/ctf$ ls
chall.pptx
none@alpha:~/hck/ctf$
```

2. After opening it we will see an qr code, if we scan and we will be rick rolled, so don't do it.

3. Today let's try a very common tool called binwalk.

```
none@alpha:~/hck/ctf$ binwalk chall.pptx
```

DECIMAL	HEXADECIMAL	DESCRIPTION
0	0x0	Zip archive data, at least v2.0 to extract, compressed size: 3365, uncompressed size: 3365, name: [Content_Types].xml
3414	0xD56	Zip archive data, at least v2.0 to extract, compressed size: 225, uncompressed size: 591, name: _rels/.rels
3680	0xE60	Zip archive data, at least v2.0 to extract, compressed size: 489, uncompressed size: 1146, name: docProps/app.xml
4215	0x1077	Zip archive data, at least v2.0 to extract, compressed size: 381, uncompressed size: 791, name: docProps/core.xml
4643	0x1223	Zip archive data, at least v2.0 to extract, compressed size: 257, uncompressed size: 977, name: _rels/presentation.xml.rels
4961	0x1361	Zip archive data, at least v2.0 to extract, compressed size: 29632, uncompressed size: 49369, name: ppt/media/image1.png
34643	0x8753	Zip archive data, at least v2.0 to extract, compressed size: 164, uncompressed size: 303, name: ppt/presProps.xml
34854	0x8826	Zip archive data, at least v2.0 to extract, compressed size: 536, uncompressed size: 3135, name: ppt/presentation.xml
35440	0x8A70	Zip archive data, at least v2.0 to extract, compressed size: 177, uncompressed size: 309, name: ppt/slideLayouts/_rels/slideLayout1.xml.rels
35691	0x8B6B	Zip archive data, at least v2.0 to extract, compressed size: 177, uncompressed size: 309, name: ppt/slideLayouts/_rels/slideLayout10.xml.rels
35943	0x8C67	Zip archive data, at least v2.0 to extract, compressed size: 177, uncompressed size: 309, name: ppt/slideLayouts/_rels/slideLayout11.xml.rels
36195	0x8D63	Zip archive data, at least v2.0 to extract, compressed size: 177, uncompressed size: 309, name: ppt/slideLayouts/_rels/slideLayout12.xml.rels

After running binwalk, we saw that at last it should show the end signature but it's also showing a png file

4. Let's extract it with binwalk

```
none@alpha:~/hck/ctf$ binwalk -e -D="*" chall.pptx
```

DECIMAL	HEXADECIMAL	DESCRIPTION
0	0x0	Zip archive data, at least v2.0 to extract, compressed size: 3365, uncompressed size: 3365, name: [Content_Types].xml



