

Matryoshka dolls are a set of wooden dolls of decreasing size placed one inside another. What's the final one? Image: this

So use binwalk to get the embedded zip and unzip it to get the next picture

binwalk -e dolls.jpg

DECIMAL	HEXADECIMAL	DESCRIPTION

0	0x0	PNG image, 594 x 1104, 8-bit/color RGBA, non-interlaced
3226	0xC9A	TIFF image data, big-endian, offset of first image directory: 8
272492	0x4286C	Zip archive data, at least v2.0 to extract, compressed size: 378952, uncompressed size: 383937, name: base_images/2_c.jpg
651610	0x9F15A	End of Zip archive, footer length: 22

cd dolls.jpg.extracted/

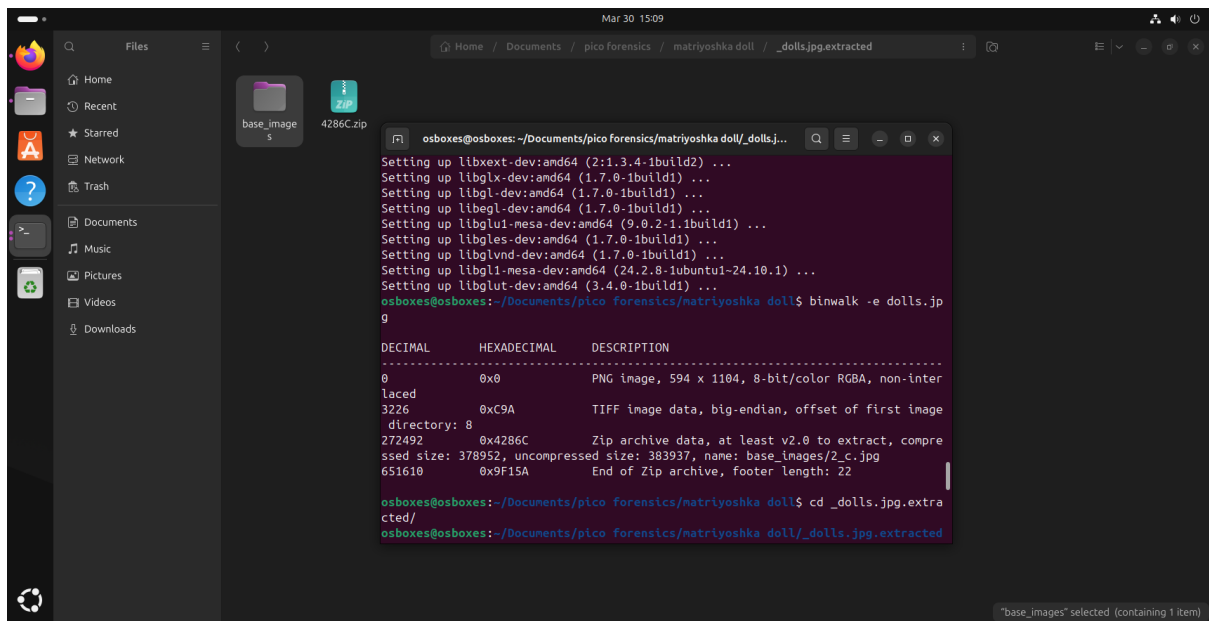
unzip 4286C.zip

binwalk -e 2_c.jpg

DECIMAL	HEXADECIMAL	DESCRIPTION

0	0x0	PNG image, 526 x 1106, 8-bit/color RGBA, non-interlaced
3226	0xC9A	TIFF image data, big-endian, offset of first image directory: 8
187707	0x2DD3B	Zip archive data, at least v2.0 to extract, compressed size: 196042, uncompressed size: 201444, name: base_images/3_c.jpg
383804	0x5DB3C	End of Zip archive, footer length: 22
383915	0x5DBAB	End of Zip archive, footer length: 22

Just continue for 4 times and you will get the flag



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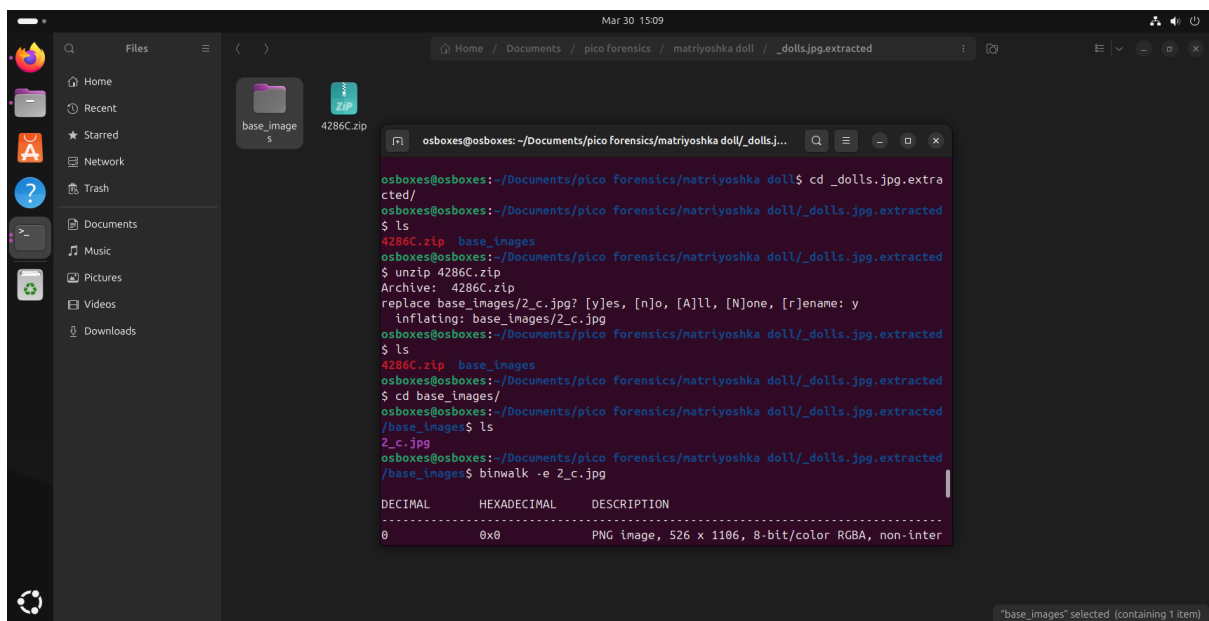
Home / Documents / pico forensics / matriyoshka doll / _dolls.jpg.extracted

```
osboxes@osboxes: ~/Documents/pico forensics/matriyoshka doll/_dolls.jpg.extracted
Setting up libxext-dev:amd64 (2:1.3.4-1build2) ...
Setting up libglx-dev:amd64 (1.7.0-1build1) ...
Setting up libgl-dev:amd64 (1.7.0-1build1) ...
Setting up libegl-dev:amd64 (1.7.0-1build1) ...
Setting up libglu1-mesa-dev:amd64 (9.0.2-1.1build1) ...
Setting up libgles-dev:amd64 (1.7.0-1build1) ...
Setting up libglvnd-dev:amd64 (1.7.0-1build1) ...
Setting up libgll-mesa-dev:amd64 (24.2.8-1ubuntu1-24.10.1) ...
Setting up libglut-dev:amd64 (3.4.0-1build1) ...
osboxes@osboxes:~/Documents/pico forensics/matriyoshka doll$ binwalk -e dolls.jpg.extracted

DECIMAL      HEXADECIMAL  DESCRIPTION
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0             0x0          PNG image, 594 x 1104, 8-bit/color RGBA, non-interlaced
3226          0xC9A        TIFF image data, big-endian, offset of first image directory: 8
272492        0x4286C      Zip archive data, at least v2.0 to extract, compressed size: 378952, uncompressed size: 383937, name: base_images/2_c.jpg
651610        0x9F15A      End of Zip archive, footer length: 22

osboxes@osboxes:~/Documents/pico forensics/matriyoshka doll$ cd _dolls.jpg.extracted/
osboxes@osboxes:~/Documents/pico forensics/matriyoshka doll/_dolls.jpg.extracted
```

"base_images" selected (containing 1 item)



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Home / Documents / pico forensics / matriyoshka doll / _dolls.jpg.extracted

```
osboxes@osboxes:~/Documents/pico forensics/matriyoshka doll/_dolls.jpg.extracted$ cd _dolls.jpg.extracted/
osboxes@osboxes:~/Documents/pico forensics/matriyoshka doll/_dolls.jpg.extracted$ ls
4286C.zip  base_images
osboxes@osboxes:~/Documents/pico forensics/matriyoshka doll/_dolls.jpg.extracted$ unzip 4286C.zip
Archive: 4286C.zip
replace base_images/2_c.jpg? [y]es, [n]o, [A]ll, [N]one, [r]ename: y
  inflating: base_images/2_c.jpg
osboxes@osboxes:~/Documents/pico forensics/matriyoshka doll/_dolls.jpg.extracted$ ls
4286C.zip  base_images
osboxes@osboxes:~/Documents/pico forensics/matriyoshka doll/_dolls.jpg.extracted$ cd base_images/
osboxes@osboxes:~/Documents/pico forensics/matriyoshka doll/_dolls.jpg.extracted/base_images$ ls
2_c.jpg
osboxes@osboxes:~/Documents/pico forensics/matriyoshka doll/_dolls.jpg.extracted/base_images$ binwalk -e 2_c.jpg

DECIMAL      HEXADECIMAL  DESCRIPTION
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0             0x0          PNG image, 526 x 1106, 8-bit/color RGBA, non-interlaced
```

"base_images" selected (containing 1 item)

