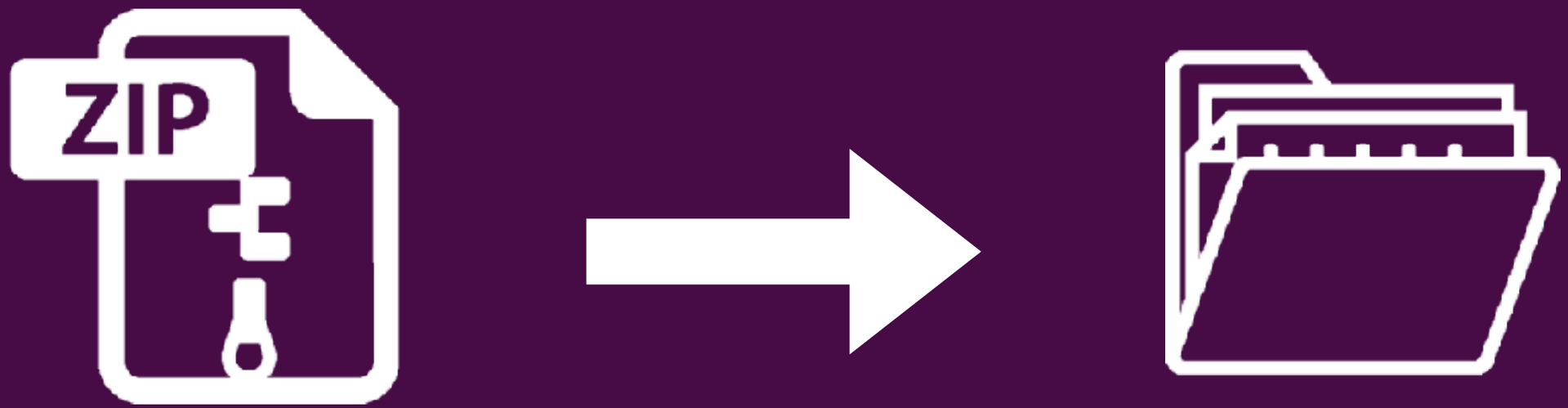
WHAT IS A ZIP BOMB?

@KKOPPENHAVER



ALPHA PARTICLE

KEANAN@ALPHAPARTICLE.COM



RELATIVELY SMALL

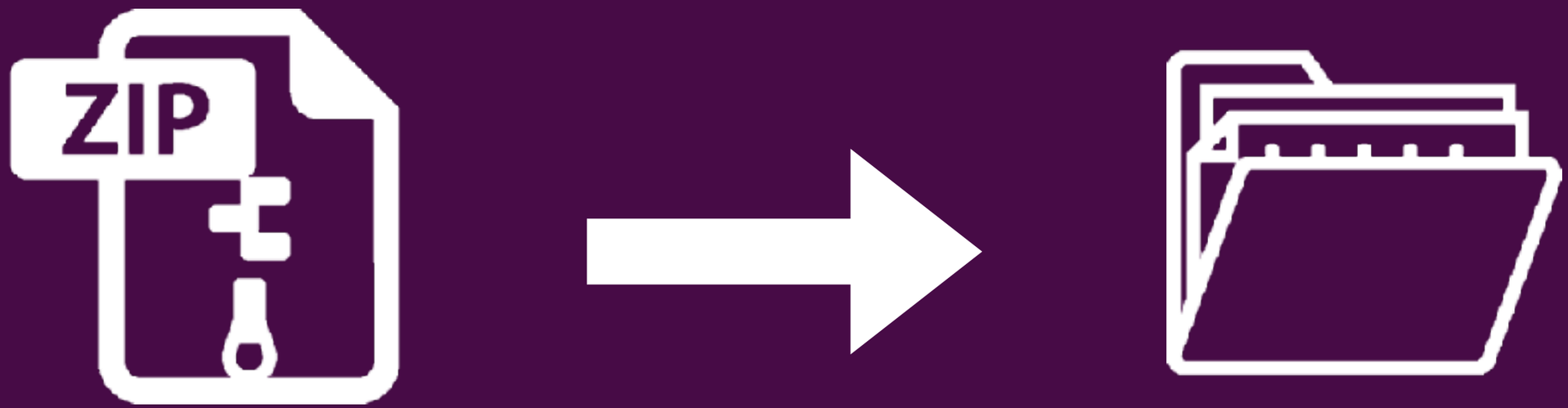
(EMAIL-ABLE, DOWNLOAD-ABLE)

FREAKIN' HUGE

(👋 BYE BYE HARD DRIVE)

@KKOPPENHAVER

ICONS MADE BY FREEPIK AND SMASHICONS
FROM WWW.FLATICON.COM AND LICENSED BY CC 3.0 BY



46MB

(PENTESTING_AZURE_APPLICATIONS.MOBI)

4.5PB

(~60K HD MOVIES)

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SOURCE: NEW ZIP BOMB STUFFS 4.5PB OF DATA INTO 46MB FILE
HOW LARGE IS A PETABYTE?

WHY?

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IT’S A WEIRD CHALLENGE

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PEOPLE LIKE TO TROLL ONLINE

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IT CAN BREAK ANTIVIRUS IN WEIRD WAYS

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HOW DOES IT DO THIS?

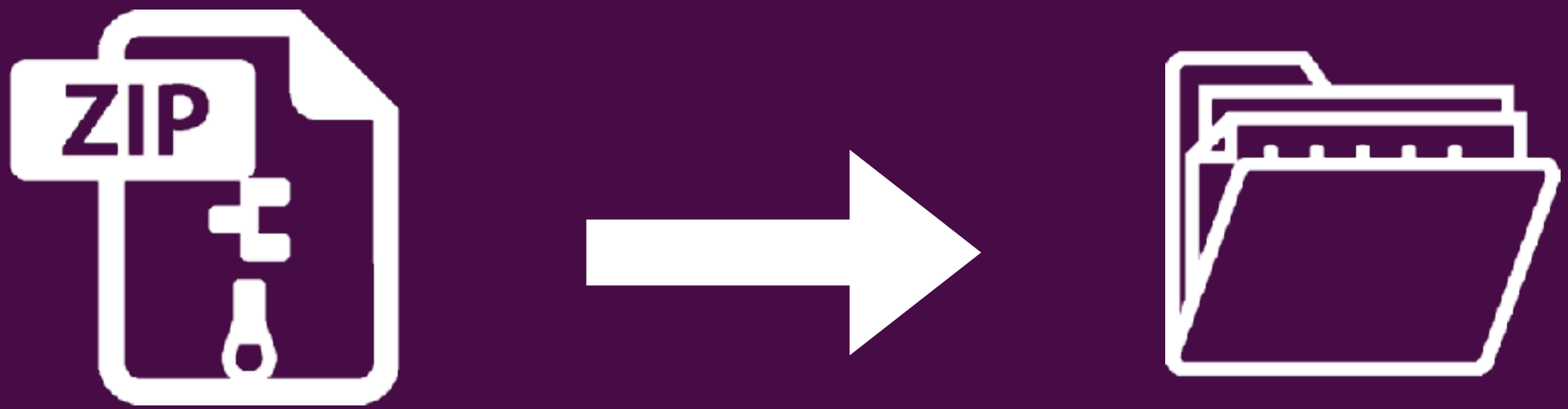
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42.ZIP: WHERE IT ALL STARTED

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42KB

(20 PAGE WORD DOC)

4.5PB

(~60K HD MOVIES)

42.zip

Click here to download 42.zip(42.374 bytes zipped)

The file contains 16 zipped files, which again contains 16 zipped files, which again contains 16 zipped files, which again contains 16 zipped, which again contains 16 zipped files, which contain 1 file, with the size of 4.3GB.

So, if you extract all files, you will most likely run out of space :-)

```
16 x 4294967295       = 68.719.476.720 (68GB)
16 x 68719476720      = 1.099.511.627.520 (1TB)
16 x 1099511627520    = 17.592.186.040.320 (17TB)
16 x 17592186040320   = 281.474.976.645.120 (281TB)
16 x 281474976645120  = 4.503.599.626.321.920 (4,5PB)
```

Password: 42

HTTPS://WWW.UNFORGETTABLE.DK/



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NEW VERSION == NO RECURSION

(DON'T WORRY, STILL DETECTABLE)

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OK, SO HOW DOES IT WORK?

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01 01 01 01 01 01 01 01 01 01 01 01 01 01 01 01 01 01
01 01 01 01 01 01 01 01 01 01 01 01 01 01 01 01 01 01
01 01 01 01 01 01 01 01 01 01 01 01 01 01 01 01 01 01
01 01 01 01 01 01 01 01 01 01 01 01 01 01 01 01 01 01

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01 01 01 01 01 01 01 01 01 01 01 01 01 01 01 01 01 01
01 01 01 01 01 01 01 01 01 01 01 01 01 01 01 01 01 01
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01 01 01 01 01 01 01 01 01 01 01 01 01 01 01 01 01 01
01 01 01 01 01 01 01 01 01 01 01 01 01 01 01 01 01 01
01 01 01 01 01 01 01 01 01 01 01 01 01 01 01 01 01 01
01 01 01 01 01 01 01 01 01 01 01 01 01 01 01 01 01 01

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150 X 01

@KKOPPENHAVER

150 X 01 150 X 01 150 X 01

10 X 150 X 01

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VERY QUICKLY REACHES LARGE LEVELS OF COMPRESSION

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NO LEGIT CONTENT EVER REACHES THESE LEVELS OF COMPRESSION

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REAL LIFE CONTENT IS MUCH MORE VARIED

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FURTHER READING

THE MOST CLEVER 'ZIP BOMB' EVER MADE EXPLODES A 46MB FILE TO 4.5 PETABYTES

ZIP BOMB (WIKIPEDIA)

@KKOPPENHAVER

THANKS!

@KKOPPENHAVER

KEANAN@ALPHAPARTICLE.COM