

## **Misc: Layouts**

Description: Sherlock found a huge pile of evidence, but it was difficult for him to

analyze them. Help him.

Attachment: RWtm7A5f

## **Solution:**

First download the attachment «Rwtm7A5f». Using «file» against the file show us its a zip archive.

```
root@kali:~/Téléchargements/layouts# file RWtm7A5f
RWtm7A5f: Zip archive data, at least v2.0 to extract
```

Trying to extract it but it ask for password, trying the name of the zip as password worked, but it seem to be a loop, cause there is another zip protected with the file name as password again and again. So i make a little bash script for automate the process.

## #!bin/sh

zipfile="RWtm7A5f" #Give the value of the first zip to extract as zipfile variable.

#Make a while who unzip the archive "zipfile" with the zip file name as password while unzip -P "\$zipfile" "\$zipfile"; do

next\_zipfile="\$(unzip -Z1 "\$zipfile" | head -n1)" #Take the next zip file name zipfile="\$next\_zipfile" #Overwrite the zipfile variable and put the next zip file instead done

Give the script execution right with «chmod +x» then run it. At the end it will extract an archive named «flag».

```
Archive: kSPrXQjZ
extracting: flag
Archive: flag
End-of-central-directory signature not found. Either this file is not
a zipfile, or it constitutes one disk of a multi-part archive. In the
latter case the central directory and zipfile comment will be found on
the last disk(s) of this archive.
unzip: cannot find zipfile directory in one of flag or
flag.zip, and cannot find flag.ZIP, period.
rootakali:~/Téléchargements/layouts#
```

Extract the «flag» archive, and we get a directory with many sub-directory.

```
| Nontalkali : ~/Téléchargements/layouts/flag (1)/flags# ls |
| 112 | 126 | 14 | 153 | 167 | 180 | 194 | 207 | 220 | 234 | 248 | 31 | 45 | 59 | 72 | 86 | |
| 10 | 113 | 127 | 140 | 154 | 168 | 181 | 195 | 208 | 221 | 235 | 249 | 32 | 46 | 6 | 73 | 87 |
| 100 | 114 | 128 | 141 | 155 | 169 | 182 | 196 | 209 | 222 | 236 | 25 | 33 | 47 | 60 | 74 | 88 |
| 101 | 115 | 129 | 142 | 156 | 17 | 183 | 197 | 21 | 223 | 237 | 250 | 34 | 48 | 61 | 75 | 89 |
| 102 | 116 | 13 | 143 | 157 | 170 | 184 | 198 | 210 | 224 | 238 | 251 | 35 | 49 | 62 | 76 | 9 |
| 103 | 117 | 130 | 144 | 158 | 171 | 185 | 199 | 211 | 225 | 239 | 252 | 36 | 5 | 63 | 77 | 90 |
| 104 | 118 | 131 | 145 | 159 | 172 | 186 | 2 | 212 | 226 | 24 | 253 | 37 | 50 | 64 | 78 | 91 |
| 105 | 119 | 132 | 146 | 16 | 173 | 187 | 20 | 213 | 227 | 240 | 254 | 38 | 51 | 65 | 79 | 92 |
| 106 | 12 | 133 | 147 | 160 | 174 | 188 | 200 | 214 | 228 | 241 | 255 | 39 | 52 | 66 | 8 | 93 |
| 108 | 121 | 135 | 149 | 162 | 176 | 19 | 202 | 216 | 23 | 242 | 26 | 4 | 53 | 67 | 80 | 94 |
| 108 | 121 | 135 | 149 | 162 | 176 | 19 | 203 | 217 | 230 | 244 | 28 | 41 | 55 | 69 | 82 | 96 |
| 11 | 123 | 137 | 150 | 164 | 178 | 191 | 204 | 218 | 231 | 245 | 29 | 42 | 56 | 7 | 83 | 97 |
| 110 | 124 | 138 | 151 | 165 | 179 | 192 | 205 | 219 | 232 | 246 | 3 | 43 | 57 | 70 | 84 | 98 |
| 111 | 125 | 139 | 152 | 166 | 18 | 193 | 206 | 22 | 233 | 247 | 30 | 44 | 58 | 71 | 85 | 99 |

| 111 | 125 | 139 | 152 | 166 | 18 | 193 | 206 | 22 | 233 | 247 | 30 | 44 | 58 | 71 | 85 | 99 |

| 111 | 125 | 139 | 152 | 166 | 18 | 193 | 206 | 22 | 233 | 247 | 30 | 44 | 58 | 71 | 85 | 99 |

| 111 | 125 | 139 | 152 | 166 | 18 | 193 | 206 | 22 | 233 | 247 | 30 | 44 | 58 | 71 | 85 | 99 |

| 111 | 125 | 139 | 152 | 166 | 18 | 193 | 206 | 22 | 233 | 247 | 30 | 44 | 58 | 71 | 85 | 99 |

| 111 | 125 | 139 | 152 | 166 | 18 | 193 | 206 | 22 | 233 | 247 | 30 | 44 | 58 | 71 | 85 | 99 |

| 111 | 122 | 136 | 15 | 165 | 179 | 192 | 205 | 219 | 232 | 246 | 3 | 247 | 30 | 44 | 58 | 71 | 85 | 99 |

| 111 | 122 | 134 | 134 | 134 | 134 | 13
```

I used tree for see exactly which content have this «flag» directory.

As we can note, we get many directory, the directory have number as name, inside few directory, we have some empty files, there name is number too, but we can note the file are the number 1 to 21.

So taking the directory name as file order and we get a string of numbers.

For exemple, if file «1» is inside the folder «58» and file «2» is inside the folder «120» our string will start by «58 120 ...».

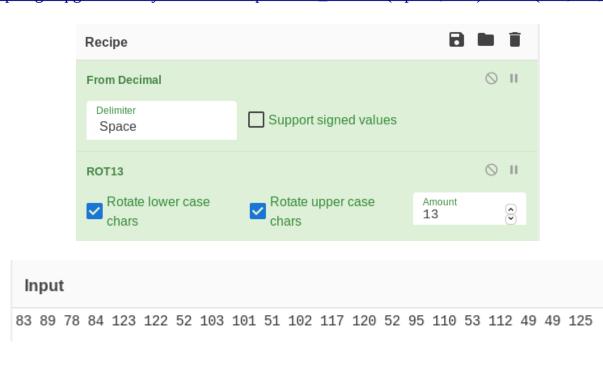
Complete string in order:

83 89 78 84 123 122 52 103 101 51 102 117 120 52 95 110 53 112 49 49 125

Searching a while on google for decode that strings and i found the cipher was a combination of «From decimal and Rot 13», i used cyber chef for do that.

## Source:

https://gchq.github.io/CyberChef/#recipe=From Decimal('Space',false)ROT13(true,true,13)





Flag: FLAG{m4tr3shk4\_a5c11}