

# [ACTF新生赛2020]frequency

原创

wangjin7356 于 2022-01-14 10:42:23 发布 115 收藏

分类专栏: [CTF](#) 文章标签: [安全](#)

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## 题目链接

[https://buuoj.cn/challenges#\[ACTF%E6%96%B0%E7%94%9F%E8%B5%9B2020\]frequency](https://buuoj.cn/challenges#[ACTF%E6%96%B0%E7%94%9F%E8%B5%9B2020]frequency)

## 解题过程

题目 [解题快手榜](#) ×

# [ACTF新生赛 2020]frequency 1

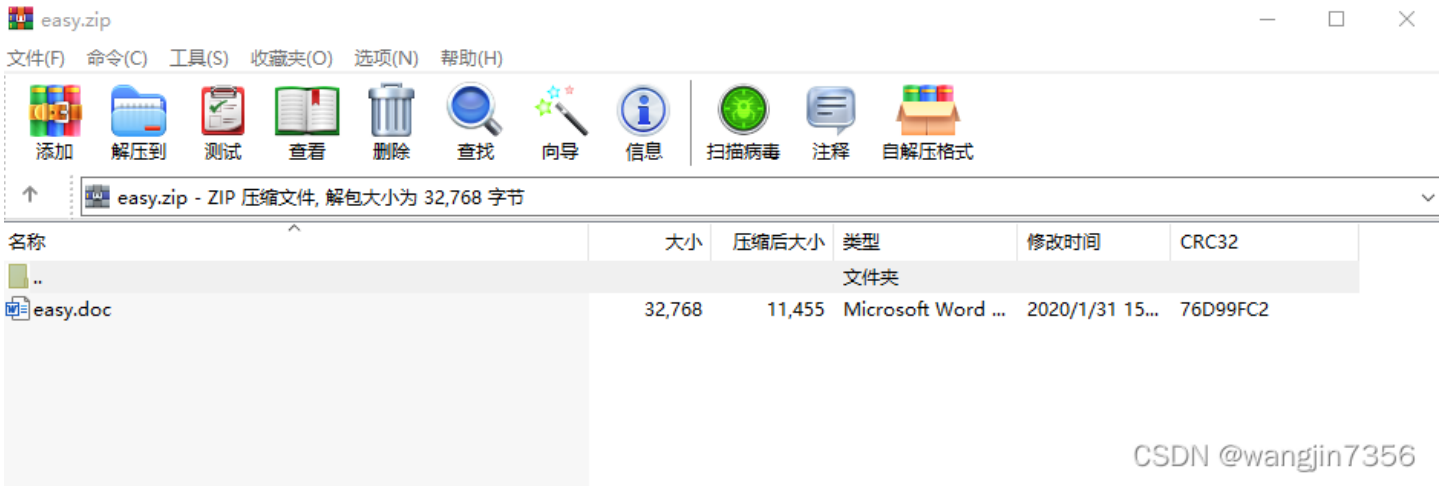
得到的 flag 请包上 flag{} 提交。

[attachment.tar](#)

Flag

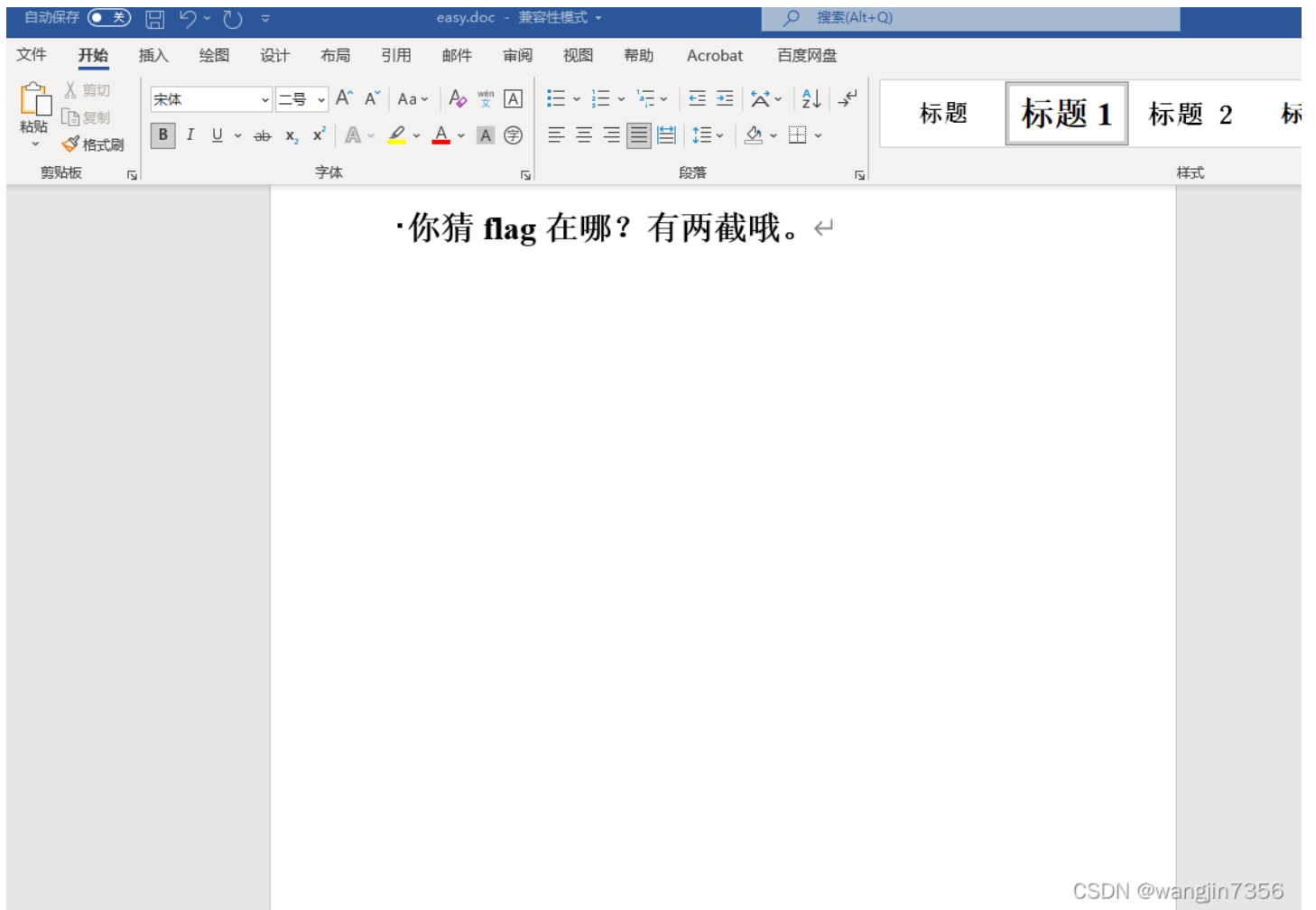
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压缩包里有 doc 文档: easy.doc



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打开文档好像没有什么东西



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打开文件-选项-显示，勾选“隐藏文字”

更改文档内容在屏幕上的显示方式和在打印时的显示方式。

**页面显示选项**

- 在页面视图中显示页面间空白(W) ⓘ
- 显示突出显示标记(H) ⓘ
- 悬停时显示文档工具提示(L)

**始终在屏幕上显示这些格式标记**

- 制表符(T) →
- 空格(S) ...
- 段落标记(M) ↵
- 隐藏文字(D) 空^
- 可选连字符(Y) 一
- 对象位置(O) ⚓
- 可选分隔符(Q) 0
- 显示所有格式标记(A)

**打印选项**

- 打印在 Word 中创建的图形(R) ⓘ
- 打印背景色和图像(B)
- 打印隐藏内容(H)

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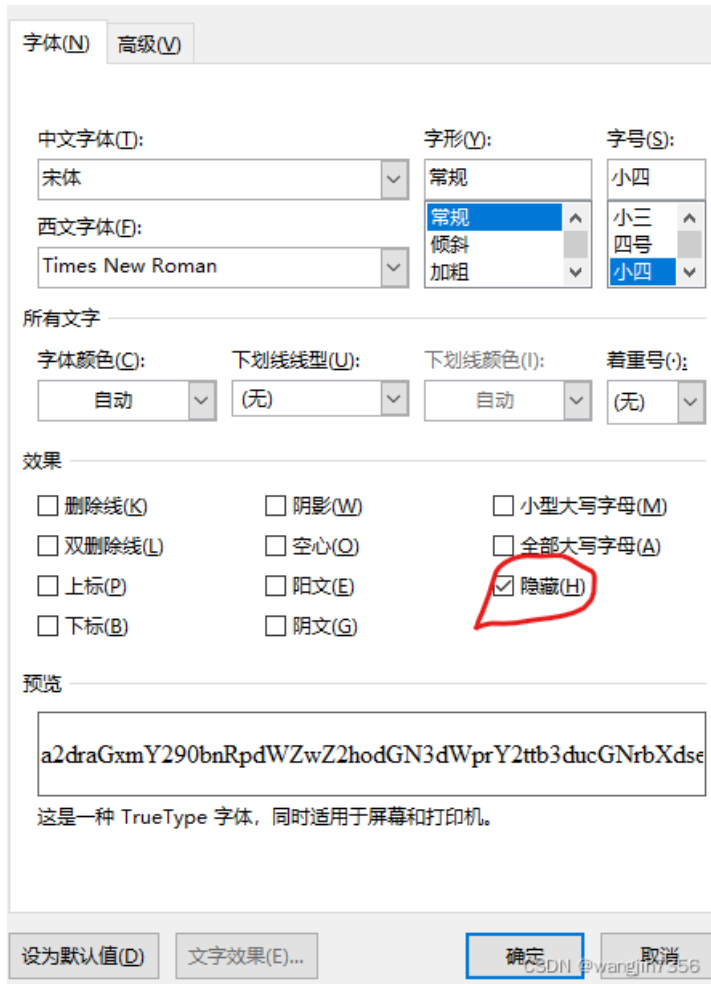
文档隐藏内容显示出来

## ·你猜 flag 在哪？有两截哦。←

a2draGxmY290bnRpdWZwZ2hodGN3dWprY2ttb3ducGNrbXdseWd0bHBZmtneW  
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bXRqdWZvZWt5bXRsaW14ZGlqanB4eW10YWJwbWt1Y2NubGtwb2V0Z2NkY3B  
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0Z2FsaGFmYW1vYXlvc291bm5hZmlhdGNodG13b29sYWNva2N1YWRwdXRreW

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把文档隐藏属性去掉，把文档复制出来



a2draGxmY290bnRpdWzZ2hodGN3dWprY2ttb3ducGNrbXdseWd0bHBtZmtneWfhaWh1Y2RsYXRveXVjb2lnZ3JwbGt2a2Ftcmt0cXp4ZW1taXdr  
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amZsbmJvcGNsY3hjdWlnb3hja3JiYwxyWwVidGFhcm1

文档里提示flag有两部分，在文档属性里找到了另一部分

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转换

### 兼容模式

与旧版本的 Office 一起使用时，某些新功能被禁用，以防止出现问题。转换此文件将启用这些功能，但可能会导致布局更改。



保护文档

### 保护文档

控制其他人可以对此文档所做的更改类型。



检查问题

### 检查文档

在发布此文件之前，请注意其是否包含：

- 文档属性和作者的姓名
- 页脚
- 以隐藏文字为格式的字符
- 自定义 XML 数据
- 由于当前的文件类型而无法检查辅助功能问题的内容



管理文档

### 管理文档

没有任何未保存的更改。

### 属性

|        |                                |
|--------|--------------------------------|
| 大小     | 32.0KB                         |
| 页数     | 2                              |
| 字数     | 11                             |
| 编辑时间总计 | 13 分钟                          |
| 标题     | 添加标题                           |
| 标记     | 添加标记                           |
| 备注     | <u>0ZWZtemNxaWRvZmd0ZnF...</u> |

### 相关日期

|        |                 |
|--------|-----------------|
| 上次修改时间 | 2020/1/31 15:23 |
| 创建时间   | 2017/5/3 19:43  |
| 上次打印时间 |                 |

### 相关人员

|       |          |
|-------|----------|
| 作者    | hesicong |
|       | 添加作者     |
| 上次修改者 | mitu     |

### 相关文档

[打开文件位置](#)[显示所有属性](#)

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```
0ZWZtemNxaWRvZmd0ZnFnYmFkawNubWhvdGlvbm9iZn1ubGdvenRkYXZ2aW14b2JvdG1ra2Z4d2lyb3JwZmNjdXpob3BoZmRjaWVrY2p5b211amt  
jZ2Zmam51bmhvcGFkdGZndG1sdA==
```

两部分合在一起，通过在线base64解码网站解码：

# Base64 在线解码、编码

常规Base64

CSS Base64

DES加密/解密

3DES加密/解密

AES加密/解密

RSA加密/解密

```
a2draGxmY290bnRpdWZwZ2hodGN3dWprY2ttb3ducGNrbXdseWd0bHBtZmtnWFhaWh1Y2RsYXRveXVjb2lnZ3JwbGt2a2Ftcmt0cXp4ZW1taXdrbGh1Y
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```

编码源格式： 文本  Hex 解码结果： 自动检测

中文编码： UTF-8

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acngduvxtnthjaepau)klahpcmvzickpaaphocgiogtjvptgjhdonunlpaolndqbfqdbpjjjoxbomlikiyuiipnxqzciforahheuytzhjutgfwtulrjcfx
oiagyjfbpjiaqgytbfnpfpqwtidqnitvvauidjlfjiorymvfxmgoricyodfhoebbyflatirjdidadqvikjociyfdzhrongnyibkgnnvhmjlolavwf
ijcggfktkpgcqfafayaitymacvkqpylhbbubhxluzcyvlcriptlpflcuicpnfshiyxvkkbcjyukotalfciphodgxi ftkl dgopj smurtyj yphbkbfnbw
sofiaxtluhpmrfdakulupeapvryxmaephaynexzflnevjmibworithhxbypmmabobfnfojttcrkjmgirvmisunfluhtentz
kvvnulung{lmltalphoufjpialcflfydvfydofkhaiyawllwcjoarqvzjlffglctclb1pkbsflhrtjdaowprdbcbubf1yoybh
mstknuihobfeefkkakynackkoduamgsvnphctfgernroehvndbfiomqfmxmbiilulavogfkgaciikaamprrljfmpjcuaasck
vfxglzpopjdgchjujlnkfwtpnjfpaerckptfhcsjgripcerfedalznhonfdcohosfhoheakntitmjflnbopolcxcuigoxckrbal
tfqgbadicmhotionobfynlgoztdavvimxobotikkfxwirorpfccuzhophfdeicekjyomejkgffjnnunhopadtfgtmt
```

当前编码：[ASCII]   
数据长度：3,160 Bytes  
插件数：18，耗时：3ms

CSDN @wangjin7356

得到解码后的数据：



kgkhlfcotntiufpghtcwujckmownpckmwygtlpmfkgyaaihucdlatoyucoigrplkvkamrktqzxmimiwlhuaekeolpocfmtahmgfmavajnb  
cpmltjtpufjcapctojpgbfbjwhualgyjnamcbfyacjbaxkixlmmqiksmptqyojertfektdxxtbrxcangymsihvuwktexsgrltpgaktbmfu  
cgvnmjtufokymtlimxdijjpxyitabpmkucnlpkpoetgdcposkizvyxrtzrxtnoihqcxfoaaalpaajyckekbycfvjomllkajygmfdcrpeqklf  
scmejicpjikcppacxyevfkycppbkdczfllikqnitckbhjorndhsomftyahpqqoxryimhflchcmkoretmrotkarcjthmftiljnykutihbztumsn  
gftlmbfflftwcnjmfatlfbzlokltlplmficokppnacmfugmpundvtomwevcjsgajgfequupaietyfnfbbpjslvynaftmlppdktttofuzijixitb  
firmovpzekirbsfjsgzlukolyvohmvgcpkthsfzmmbnmldzyuicdvkmzbaybtorcfortdamcncbnprngxlcypfyfncexbvdnlkogoyilprlonsh  
tkjtxnbjhlmbpdcmhkjinlmtgjnjakrizllpmmalpxamuninupkpdiasmvdjvgiyodumpnapljkjbcfhthskiokpgttyhnnssxkqjzvdos  
epoigytmnavctopyixvbdosobmcubiaujxhyfkrvkrzgcuyilpvawaynaaplkwiiixrctctlkxfjleamjnjaujcouifmwikfimroaqtctcfm  
aubgagokarfqfhemorsyfopukudcaaimhdfoghnkrclpcatctpyjlavoklgclatlmtzygpehfkzhtzngmofcizlvnxtnluaajttovcjajubza  
tpehfhknnggplylivfeaidrmyjtacamxckfystwfnflnbnmkckarxaispjlkvctvklxuncfpxviriqeypmuvulvljckcypptvetoxhmipbiln  
jeowkwuctoknafpwoapftclzhphxcatthumvwhzomafwqqnlsoyabutlzpiatfmmajkrdvlczwpsspoabifiphkochtatkafeonybfivecl  
zofatetgalhafamoayosounafiatcjtiiwoolacrkuadputkylpybgfepwpsncwkcwllaryjscanbwpdpzbtutnlnopwpi t blotllzifklaau  
rjpiajfpkfmxpbsucvjsgmcalantrscbkuyfgaakfacnlduvqetyjgjmnaeacngaxcnamjmigkkiumlndwckmuananvrrbfzzyuehonemlcj  
zuvoajufdgjjjcgmnpftuucubctjhamlolfhoifvbkazcpozcyucbrgojbpnahcgyuttdvmttvwmhbsjmbbavcdlyhojqompcpvhtkoairvtmk  
ffyatkmptuoooolgpnuelhfhvvisukwynmiacnllumhtjekuauuplrxkiepuxjlicfkcבחmgnglplihmycrnsomawufuoomuunhdoarudamoa  
mohqoocfupjuiabxuvyvnosouovaklcfktyrfagfayvpufvpbgtafekipicovtftnuxsjavjdqkvfuiklmdkbbnkpafxrqpfqctvasucjjcuc  
huazciumttdnawihmmoifbhxvmtfbbfhtviwlaueogppmjspcalfhcarklbisptjpanhlisntskkcljggkcztfhnecnptifftrdmtjfeffitk  
asdgnelpubhfimpucbkkcmxlfkpiijvhtjksylzroofacxclpjhnbircydtcljdbolyrymatghifojmjjsekoomofcactavfcyfmufxhstjwup  
bjkyognyryplypqlaymoxtanqdpurbwzpllokkhhmandjnaticblcotgluttwbdatarmazprvawzjxfhjtdkikurllclcjoghmlwtamddccnq  
urorakcyoblarzacmnqcmettuayuyivsmfknannlctmigfrgabiptnthmmutpibyirathjcgchfmlvpcntqpeozlotdkeiocfcivuyllzbjoox  
csacngduvxtnthjaepau}klahpcmvzickpaaphocgiogjtvptgjhdonunlpaolndqbqfmdbjjoxbomlikyuipnxqzcfiorahheuytzhjutgfw  
tulrjcfxoiagyjfbpjiajgytbfnpflfpqwtidqnitvvauidjlijfjiorymvfxmxgoricycdfhofbbygflatirjdidadqvikjociyfdzhrognyyibk  
gnnvhmjlolavwifjcgfkipkpgcqafafaysitymacvkkpyllhbubhxluzcyvloriptlplcuicpnfshiyxvkkbcjyukotalfciphcdgxi ftkldgo  
pjsmurtyjyphbkbfbnbwsofiaxtluhpmrfdakulupeaprvyxaephaynexzflnevjmibworithxbyppmmabobfnfcojttcrkjmgirvmisunfluh  
tentrhteojkchkpfaesgwglqdkvvnulunq{lm1talphoufjpialcflfydvfwyodofkhaiyawllwcjoarqvzjlffglctclblpkbsflhrtjdaowprd  
bcubflyoybhvhfwoeitgnxbznifp1lxmstknuihobfeefkakaynnackkduamgsvnphctfgsrnoehvendbfiomqfmxmbiilulavogfkgacikaa  
mpprljfmpjcauasckiuqifcibjlutcmpatojrjvfxglzpopjdgchjujlnfwtpnjfpacrkptfhcsjgriprcfdalznhonfcdchosfhoheakntitm  
jflnbopclcxcuigoxckrbalraebtaaritefmzqcidoftgfbgbadicnmhotionobfynlgoztdavvimxobotikkfxwirorpfccuzhophfdciekcyj  
mejkcgffjnunhopadftgtmlt

根据题目“frequency”的提示，进行在线字频统计：

| Character | Count | Percentage |        |
|-----------|-------|------------|--------|
| 6         | 1     | 170        | 5.3797 |
| 7         | o     | 164        | 5.1899 |
| 8         | k     | 159        | 5.0316 |
| 9         | m     | 152        | 4.8101 |
| 10        | i     | 145        | 4.5886 |
| 11        | j     | 139        | 4.3987 |
| 12        | n     | 133        | 4.2089 |
| 13        | u     | 128        | 4.0506 |
| 14        | h     | 116        | 3.6709 |
| 15        | b     | 109        | 3.4494 |
| 16        | y     | 106        | 3.3544 |
| 17        | g     | 100        | 3.1646 |
| 18        | v     | 92         | 2.9114 |
| 19        | r     | 87         | 2.7532 |
| 20        | d     | 79         | 2.5    |
| 21        | x     | 73         | 2.3101 |
| 22        | e     | 68         | 2.1519 |
| 23        | s     | 61         | 1.9304 |
| 24        | z     | 54         | 1.7089 |
| 25        | w     | 48         | 1.519  |
| 26        | q     | 41         | 1.2975 |
| 27        | {     | 1          | 0.0316 |
| 28        | }     | 1          | 0.0316 |

得到flag:

```
actf{plokmiijnuhbygvrdeszwq}
```

```
flag{plokmiijnuhbygvrdeszwq}
```

## 小结

1. 知识点：word隐藏文字、base64解码、词频统计。



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