```
flerb@ubuntu:-/HTB/WeakRSA$ cat key.pub
----BEGIN PUBLIC KEY-----
MIIBHzANBgkqhkiG9w0BAQEFAAOCAQwAMIIBBwKBgQMwO3kPsUnaNAbUlaubn7ip
4pNEXjvUOxjvLwUhtybr6Ng4undLtSQPCPf7ygoUKh1KYeqXMpTmhKjRos3xioTy
23CZuOl3WIsLiRKSVYyqBc9d8rxjNMXuUIOiNO38ealcR4p44zfHI66INPuKmTG3
RQP/6p5hv1PYcWmErEeDewKBgGEXxgRIsTlFGrW2C2JXOSvakMcWD60eAH0W2PpD
qlqqOFD8JA5UFK0roQkOjhLWSVu8c6DLpWJQQlXHPqP702qIg/gx2o0bm4EzrCEJ
4gY06Ax+U7q6TOWhQpiBHnC0ojE8kUoqMhfALpUaruTJ6zmj8IA1e1M6bMqVF8sr
lb/N
-----END PUBLIC KEY-----
flerb@ubuntu:-/HTB/WeakRSA$ cat flag.enc
6_&vc[&&-&kZ&1&\(\bar{1}\)64&\(\bar{1}\)64&\(\bar{1}\)60\(\bar{1}\)60\(\bar{1}\)60\(\bar{1}\)60\(\bar{1}\)60\(\bar{1}\)60\(\bar{1}\)60\(\bar{1}\)60\(\bar{1}\)60\(\bar{1}\)60\(\bar{1}\)60\(\bar{1}\)60\(\bar{1}\)60\(\bar{1}\)60\(\bar{1}\)60\(\bar{1}\)60\(\bar{1}\)60\(\bar{1}\)60\(\bar{1}\)60\(\bar{1}\)60\(\bar{1}\)60\(\bar{1}\)60\(\bar{1}\)60\(\bar{1}\)60\(\bar{1}\)60\(\bar{1}\)60\(\bar{1}\)60\(\bar{1}\)60\(\bar{1}\)60\(\bar{1}\)60\(\bar{1}\)60\(\bar{1}\)60\(\bar{1}\)60\(\bar{1}\)60\(\bar{1}\)60\(\bar{1}\)60\(\bar{1}\)60\(\bar{1}\)60\(\bar{1}\)60\(\bar{1}\)60\(\bar{1}\)60\(\bar{1}\)60\(\bar{1}\)60\(\bar{1}\)60\(\bar{1}\)60\(\bar{1}\)60\(\bar{1}\)60\(\bar{1}\)60\(\bar{1}\)60\(\bar{1}\)60\(\bar{1}\)60\(\bar{1}\)60\(\bar{1}\)60\(\bar{1}\)60\(\bar{1}\)60\(\bar{1}\)60\(\bar{1}\)60\(\bar{1}\)60\(\bar{1}\)60\(\bar{1}\)60\(\bar{1}\)60\(\bar{1}\)60\(\bar{1}\)60\(\bar{1}\)60\(\bar{1}\)60\(\bar{1}\)60\(\bar{1}\)60\(\bar{1}\)60\(\bar{1}\)60\(\bar{1}\)60\(\bar{1}\)60\(\bar{1}\)60\(\bar{1}\)60\(\bar{1}\)60\(\bar{1}\)60\(\bar{1}\)60\(\bar{1}\)60\(\bar{1}\)60\(\bar{1}\)60\(\bar{1}\)60\(\bar{1}\)60\(\bar{1}\)60\(\bar{1}\)60\(\bar{1}\)60\(\bar{1}\)60\(\bar{1}\)60\(\bar{1}\)60\(\bar{1}\)60\(\bar{1}\)60\(\bar{1}\)60\(\bar{1}\)60\(\bar{1}\)60\(\bar{1}\)60\(\bar{1}\)60\(\bar{1}\)60\(\bar{1}\)60\(\bar{1}\)60\(\bar{1}\)60\(\bar{1}\)60\(\bar{1}\)60\(\bar{1}\)60\(\bar{1}\)60\(\bar{1}\)60\(\bar{1}\)60\(\bar{1}\)60\(\bar{1}\)60\(\bar{1}\)60\(\bar{1}\)60\(\bar{1}\)60\(\bar{1}\)60\(\bar{1}\)60\(\bar{1}\)60\(\bar{1}\)60\(\bar{
```

https://security.stackexchange.com/questions/177829/how-weak-rsa-key-is-decrypted
https://crypto.stackexchange.com/questions/6713/low-public-exponent-attack-for-rsa
https://crypto.stackexchange.com/questions/18031/how-to-find-modulus-from-a-rsa-public-key

https://base64.guru/converter/decode/hex + vim to break it into hex.

The public key is only 388 characters long.

```
30 82 01 1f 30 0d 06 09
                         2a 86 48 86 f7 0d 01 01
01 05 00 03 82 01 0c 00
                         30 82 01 07 02 81 81 03
30 3b 79 0f b1 49 da 34
                         06 d4 95 ab 9b 9f b8 a9
e2 93 44 5e 3b d4 3b 18 ef 2f 05 21 b7 26 eb e8
d8 38 ba 77 4b b5 24 0f
                         08 f7 fb ca 0a 14 2a 1d
4a 61 ea 97 32 94 e6 84
                         a8 d1 a2 cd f1 8a 84 f2
db 70 99 b8 e9 77 58 8b
                         0b 89 12 92 55 8c aa 05
cf 5d f2 bc 63 34 c5 ee
                         50 83 a2 34 ed fc 79 a9
5c 47 8a 78 e3 37 c7 23
                         ae 88 34 fb 8a 99 31 b7
45 03 ff ea 9e 61 bf 53
                         d8 71 69 84 ac 47 83 7b
02 81 80 61 17 c6 04 48
                         b1 39 45 1a b5 b6 0b 62
57 a1 2b da 90 c0 96 0f
                         ad 1e 00 7d 16 d8 fa 43
aa 5a aa 38 50 fc 24 0e
                         54 14 ad 2b a1 09 0e 8e
12 d6 49 5b bc 73 a0 cb
                         a5 62 50 42 55 c7
                                           3e a3
fb d3 6a 88 83 f8 31 da
                         8d 1b 9b 81 33 ac 21 09
e2 06 28 e8 0c 7e 53 ba
                         ba 4c e5 a1 42 98 81 1e
70 b4 a2 31 3c 91 4a 2a
                         32 17 c0 2e 95 1a ae e4
c9 eb 39 a3 f0 80 35 7b 53 3a 6c ca 95 17 cb 2b
95 bf cd
```

```
[remv] | final-pubmata:-rdffnewSetAs, python3. | Python3. | Python3. | Align | Cefault, Jun | 2 2021, 18:49:15 | [GCC 9.4.0] on Linux | Python 3.8.10 | Gefault, Jun | 2 2021, 18:49:15 | [GCC 9.4.0] on Linux | Python | S.10.0 | Gefault, Jun | 2 2021, 18:49:15 | [GCC 9.4.0] on Linux | Python | S.10.0 | Gefault, Jun | 2 2021, 18:49:15 | [GCC 9.4.0] on Linux | Python | S.10.0 | Gefault, Jun | 2 2021, 18:49:15 | [GCC 9.4.0] on Linux | Python | S.10.0 | Gefault, Jun | 2 2021, 18:49:49:15 | [GCC 9.4.0] on Linux | Python | S.10.0 | Gefault, Jun |
```

As riveting as finding primes might be, others have already done the work:

https://github.com/Ganapati/RsaCtfTool



