Write Up CTF bsidesBOS

➤ Baseball

```
root@kali:~/Downloads# cat baseball
TzRaVUNVMlRNRTRIQTZMSFBGWkdTNVpTSzVZVU1ZSllIQk5ER00zREdKTkhBVTJWSkJHVkNWMllPRlVFS
zMyRE9GTUVNMkNaR0Y1RU1VUlpNUlNHS1JSWE9CQ1VVU1pZSk4ySEFWVFVPVTJGQzJDJDV000WlUyUVNHSl
pBVFNNUT0=root@kali:~/Downloads#
```

File baseball berisikan string yang kurang lebih berbentuk encrypt base64 lalu gunakan magic cyber chef untuk melakukan decrypt

Dan hasilnya setelah menggunakan magic cyber chef dari github

From_Base64('A-Za-z0-9+/=',true) From_Base32('A-Z2-7=',false) From_Base58('123456789ABCDEFGHJKLMNPQ RSTUVWXYZabcdefghijkmnopqrstuvwxyz',f alse)	flag{wow_you_hit_a_homerun_and_really _ran_the_bases_there}	Valid UTF8 Entropy: 4.01

➤ Read The Rules

Buka https://bsidesbos.ctf.games/rules lalu inspect element dan dibagian bawah terdapat note berisikan flag untuk challenges ini

```
</p>
<!-- Thank you for reading the rules! Your flag is: -->
<!--        flag{its_time_to_hack}          -->
```
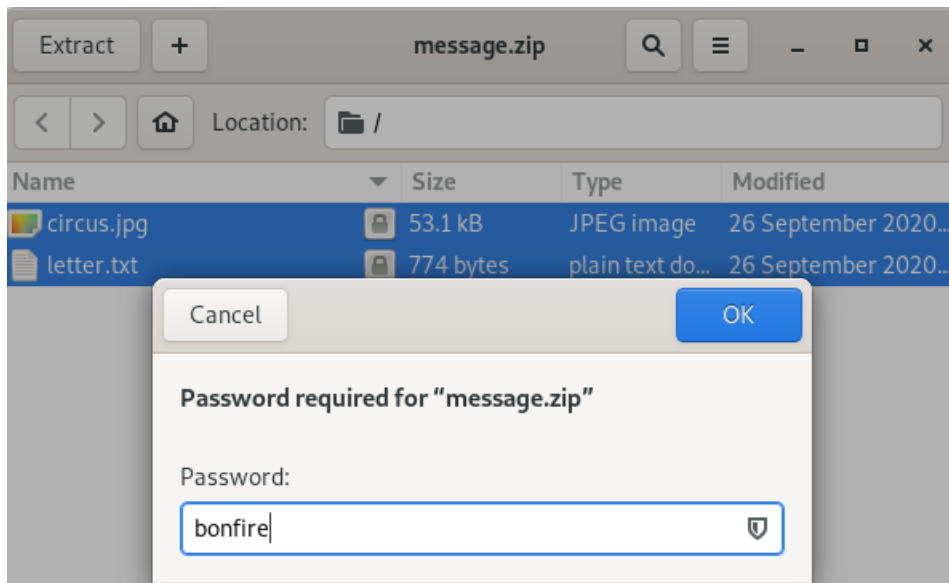
➤ Secret Romance

Dalam file yang dapat didownload kita unzip berisikan 2 yaitu file note.txt dan message.zip

```
root@kali:~/Downloads# unzip dropped_note.zip -d CTF/secretromance/
Archive:  dropped_note.zip
  inflating: CTF/secretromance/message.zip
  inflating: CTF/secretromance/note.txt
```

Untuk note.txt berisikan informasi tentang key untuk file zip lainnya dikarenakan zip tersebut tidak dapat di extract tanpa key dan dari Wikipedia mengatakan bahwa penghubung ke circus adalah pusat api unggun lalu kita masukan bonfire sebagai key untuk unzip file tersebut

```
root@kali:~/Downloads/CTF/secretromance# cat note.txt
You will find the key at the center of Le Cirque des Rêves.
root@kali:~/Downloads/CTF/secretromance#
```

aspects from the inside. Mr. A.H- trains his orphan ward with books in the ways of glyphs and sympathetic magic and illusory worlds that exist only in the mind of the beholder. Marco takes a position as an assistant to the producer of the circus—he works from the outside in, connected to the circus via a magical link to the `central` bonfire, but not a part of it. The two beguile the circus goers and each other with nightly wonders, soon falling in love despite being magically bound to a deadly competition with rules neither understands.

Dalam message.zip terdapat 2 file yaitu circus.jpg dan letter.txt


```
root@kali:~/Downloads/CTF/secretromance# cat letter.txt
Secrets have power. And that power diminishes when they are shared, so they are b
est kept and kept well.
Sharing secrets, real secrets, important ones, with even one other person, will c
hange them.
Writing them down is worse, because who can tell how many eyes might see them ins
cribed on paper,
no matter how careful you might be with it. So it's really best to keep your secr
ets
when you have them, for their own good, as well as yours.


Your secret admirer,
- erinmorgenstern


root@kali:~/Downloads/CTF/secretromance#
```

Lalu extract menggunakan steghide dengan password erinmorgenstern untuk mendapatkan flag.txt yang diembed kedalam file circus.jpg

```
root@kali:~/Downloads/CTF/secretromance# steghide extract -sf circus.jpg -p erinmorgenstern
wrote extracted data to "flag.txt".
root@kali:~/Downloads/CTF/secretromance# cat flag.txt
flag{the_night_circus}
root@kali:~/Downloads/CTF/secretromance#
```

> Saving The World

Dalam photo yang didownload terdapat informasi mengenai angka2.

6 2 26 8 16 21 17 18 3 18 1 17 6 8 3 2 1 14 5 18 17 10 21 18 18 25 14 15 5 5 2 10 20 25 14 13 18 17 10 22 7 21 5 14 22 1 10 14 7 18 5 15 18 6 22 17 18 7 21 18 10 21 22 7 18 16 21 22 16 24 18 1 6 7 21 18 3 14 6 6 10 2 5 17 22 6 7 10 18 25 25 22 16 24 25 2 6 18 6 16 7 2

Angka-angka tersebut di ubah menjadi huruf dengan 1 = a, 2 = b, dan seterusnya. Maka angka tersebut berubah menjadi

Fbzhpuqrcraqfhcbanerqjurryoneebjtynmrqjvguenvajngreorfvqrgurjuvgrpuvpxrafgurcnffjbeqvfgjryyvpx ybfrfpgb

Lalu gunakan vigenere decrypt bruteforce dan hasilnya adalah seperti ini


```
       somuchdependsuponaredwheelbarrowglazedw
 NN    ithrainwaterbesidethewhitechickensthepa
       sswordistwellicklosescto
```
```
root@kali:~/Downloads/CTF/savingtheworld# cat vigenere.txt
so much depends upon a red wheelbarrow glazed with rain water beside the white chickens the password is twellick losescto
root@kali:~/Downloads/CTF/savingtheworld#
```

Dalam pesan tersebut berisikan bahwa passwordnya adalah twellick losescto. Lalu gunakan steghide kembali dengan password tersebut.

```
root@kali:~/Downloads/CTF/savingtheworld# steghide extract -sf menu.jpg -p twellicklosescto
wrote extracted data to "flag.txt".
root@kali:~/Downloads/CTF/savingtheworld# cat flag.txt
flag{take_care_of_whiterose}
root@kali:~/Downloads/CTF/savingtheworld#
```

> Kiddie Pool

Gunakan efek whirl pada aplikasi photoshop atau bisa menggunakan photo editor online lalu putar hingga mendapatkan flagnya.