




When I decompressed the file with this command :
unzip instagram.ipa

The first file that jumped in my eyes was this one :

```
inflating: Instagram_f.ipa/Payload/Instagram.app/hi.lproj/NumberFormatConfig.json
inflating: Instagram_f.ipa/Payload/Instagram.app/hi.lproj/CurrencyFormatConfig.json
creating: Instagram_f.ipa/Payload/Instagram.app/d/
inflating: Instagram_f.ipa/Payload/Instagram.app/d/instructions.txt
```

So I read the file. There was a base64 and this is the decoded message : **Go to SC_Info and obtain the next step.**

There are 3 folders of this name :

	SC_Info Date modified: 4/24/2020 1:40 PM	C:\Users\zamfi\Desktop\Instagram_f.ipa\Payload\Instagram.app
	SC_Info Date modified: 10/15/2019 1:51 AM	C:\Users\zamfi\Desktop\Instagram_f.ipa\Payload\Instagram.app\Frameworks\FBSharedFramework.framework
	SC_Info Date modified: 10/15/2019 1:51 AM	C:\Users\zamfi\Desktop\Instagram_f.ipa\Payload\Instagram.app\Frameworks\InstagramAppCoreImplFramework...

In the first one you will find a file named **Manifest.plist**. There you will find the message :
<key> The next step is found in<key>
<key>\$2a\$05\$4M7egAOggmDx1ROqu8bX2.zrp9rrmF4y/tl1dOzx2GFR9.gjcEhc6<key>

This is a bcrypt. We can crack this with the following command :
hashcat -m 3200 -a 0 hash.txt rockyou.txt

Short comment :

```
-m 0 # MD5
-m 100 # SHA1
-m 1400 # SHA256
-m 1800 # SHA512
-m 3200 # bcrypt
```

This is what we got :
\$2a\$05\$4M7egAOggmDx1ROqu8bX2.zrp9rrmF4y/tl1dOzx2GFR9.gjcEhc6:asterix

Now, if we search **asterix** in our archive we get an image. Now, I uploaded this image on AperiSolve and at strings I got this **BrainFuck** code (it's a programming language) :

```
++++[++++>---<]>+.-.->[--->+<]>--.-[>++++<]>.-.-----[>+<]>.-[>++++<]>
.[>+<]>+++++.-----[>+<]>.-.-[----->+<]>--.-.-----...--..[>+<]>+.+[>+<]
]>+.+.+.+.-----[>+<]>.-.+[>+<]>++++.--[>+<]>.-.-----[>+<]>+++++.---.+++
-----[>+<]>.-.+[>+<]>++++.--[>+<]>.-.+++.[>+<]>+.-----[>+<]>.-[>+<]
<]>+.+[>+<]>.[>+<]>+++++.-----[>+<]>.-.+[>+<]>+.-----[>+<]>.[>+<]
>++++.+++-----.[>+<]>.[>+<]>--.++++.-.--[>+<]>.-.+[>+<]>+++++.-----[
>+<]>+.+[>+<]>.-.-----.-[--->+<]>+.+[>+<]>+.+.-----.+++++.+++.--.-----
[>+<]>.-[>+<]>+.++++.>--[>+<]>
```

If we upload this on <https://www.dcode.fr/brainfuck-language> we will get the answer

THE FLAG :

ECSC{b6dc933311bc2357cc5fc636a4dbe41a01b7a33b583d043a7f870f3440697e27}

~Z4que