

# HackTheBox-Image Processing 101

原创

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# Misc

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## 概述

HackTheBox 网站CTF靶场杂项 (Misc) 相关题目Image Processing 101, 题目地址

<https://app.hackthebox.com/challenges/image-processing-101>, 主要考察图片的傅里叶变换知识点。

The screenshot shows the challenge page for 'Image Processing 101' on HackTheBox. The page is dark-themed and includes the following elements:

- Challenge Title:** Image Processing 101 (EASY)
- Difficulty:** EASY
- User Rating:** Represented by a bar chart.
- Points:** 0 POINTS
- Navigation:** NO CONNECTION REQUIRED, INFORMATION (selected), ACTIVITY, CHANGELOG, SHARE RESULTS
- Download Files:** Necessary files to play the challenge.
- Submit Flag:** Submit a flag to this challenge.
- Add To-Do List:** Add this challenge to your list.
- Challenge Description:** Check all the domains. Don't be a script kiddie...
- Challenge Rating:** 600 (thumbs up) and 137 (thumbs down)
- User Solves:** 2400
- Category:** Stego
- Footer:** CSDN @galaxy3000

## 解题

### 题目概述

下载Image Processing 101.zip, 解压缩得到cheeki\_breki.png

使用 `file` 命令查看文件类型，为png图片

```
→ Desktop file cheeki_breeki.png
cheeki_breeki.png: PNG image data, 564 x 492, 8-bit/color RGB, non-interlaced
```

## 解题过程

使用 `exiftool` 查看图片信息

```
→ Desktop exiftool cheeki_breeki.png
ExifTool Version Number      : 11.42
File Name                    : cheeki_breeki.png
Directory                   : .
File Size                    : 368 kB
File Modification Date/Time  : 2019:09:26 08:40:18+08:00
File Access Date/Time       : 2022:02:19 13:08:30+08:00
File Inode Change Date/Time  : 2022:02:19 12:30:12+08:00
File Permissions             : rwxr-xr-x
File Type                   : PNG
File Type Extension         : png
MIME Type                   : image/png
Image Width                 : 564
Image Height                : 492
Bit Depth                   : 8
Color Type                  : RGB
Compression                 : Deflate/Inflate
Filter                     : Adaptive
Interlace                   : Noninterlaced
Modify Date                 : 2018:05:31 13:34:09
Image Size                  : 564x492
Megapixels                  : 0.277
```





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使用StegSolve等工具尝试没有结果，回头查看题目描述，从**Check all the domains**中**domains**一词联想到离散傅里叶变换，使用现成的CTF解图片傅里叶题目的工具**FFTStegPic**。

master 2 branches 0 tags

Go to file

Code

 Oxcomposure	Create requirements.txt	af08ae8 on 18 Oct 2019	4 commits
	FFTStegPic.py	Create FFTStegPic.py	2 years ago
	README.md	Update README.md	2 years ago
	requirements.txt	Create requirements.txt	2 years ago

README.md

## FFTStegPic

A python script for digital image steganography using Fast Fourier Transform. May be useful for some steganography CTF challenges.

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运行FFTStegPic.py

```
(pyenv3) → FFTStegPic git:(master) x python FFTStegPic.py
Enter the path of the image: ./cheeki_breeki.png
```

得到包含flag的图片

Figure 1

