Scooby CTF Cheat Sheet

BACK IN A BIT:

HINT 1: Built-In Python Functions: https://docs.python.org/2/library/functions.html

HINT 2: Bitwise Ops Shortcuts (<<, >>, %):

A << B = A * 2^B. For example, 20 << 2 = 20 * 2^2 = 20 * 4 = 80.

A >> B = A / 2^B. For example, 20 >> 2 = 20 / 2^2 = 20 / 4 = 5.

A % B = Remainder of A / B. For example, 100 % 10 = 0, since 100 / 9 = 11 with R = 1

HINT 3: Bitwise Ops Shortcuts (&, ^, |): https://stackoverflow.com/questions/3319974/do-bitwise-operators-other-than-shifts-make-any-mathematical-sense-in-base-10

A PICTURE WORTH A THOUSAND:

HINT 1: Analyze Contents of an Image: http://www.makeuseof.com/tag/exif-photo-data-find-understand/

SCRAPPY TELL EM:

HINT 1: A file exists called robots.txt, that sets access permissions for hidden files. If you can open it, you may be able to find the name of the hidden file and in turn locate the flag.

PYTHON PLAYGROUND:

HINT 1: Basic Shell Commands: https://www.liquidweb.com/kb/new-user-tutorial-basic-shell-commands/

HINT 2: Try using exec to import.

HINT 3: Hostname Command: http://www.linfo.org/hostname_command.html

WHERE IT AT:

HINT 1: You really want to upload a PHP file but the system only excepts JPG files.

HINT 2: Sometimes, you can upload a file with a different extension to bypass the validations.

HINT 3: You can technically create a file with multiple extensions like filename.php.jpg.

CRYPTOGRAPHY:

HINT 1: MD5: http://www.miraclesalad.com/webtools/md5.php

HINT 2: Base 64: https://www.base64decode.org/

HINT 3: Atbash Cipher: http://rumkin.com/tools/cipher/atbash.php

HINT 4: Baconian Cipher: http://rumkin.com/tools/cipher/baconian.php