sCTF Problem Design Guide

- Problems should be written with the following in mind:

  - Problem Name
  - Description
  - Hint (not necessary)
  - Flag
  - Points
  - Problem Type
  - Required Files (not necessary)

- File structure should be sent in the following form within a compressed file:

  - problem_name.zip
    - description.txt
    - hint.txt *(optional)*
    - flag.txt
    - point_value_number
    - problem_type_number
    - author_name
    - files.zip *(optional)*

  - *description.txt* should contain the description of the problem.
  - *hint.txt* should contain the problem hint, if there is one. If not, do not include a *hint.txt* file.
  - *flag.txt* should contain the flag to the problem.
  - *files.zip* should be a compressed file containing any files/folders necessary to complete the problem. If there are none, do not include a *files.zip* file.
  - *point_value_number* should simply be an empty file without an extension named like so, in which *30* is the point value for the problem: **point_value_30**
    - Point values are to be done in increments of 5 or 10, with the introduction problem or survey being worth 5 points. This is an estimated point value, and problems will be reassessed after all are turned in to determine the actual point values based on the comparative difficulty to other problems.
  - *problem_type_number* should simply be an empty file without an extension named like so, in which *5* is the problem type of the problem: **problem_type_5**
    - Reference of problem type numbers:
      - 1 – Web
      - 2 – Cryptography
      - 3 – Forensics
      - 4 – Pwning
      - 5 – Recon
      - 6 – Reversing
      - 7 – Game
      - 8 – Algorithmic
  - *author_name* should simply be an empty file without an extension named like so, in which *arun_dunna* is the author of the problem: **arun_dunna**

- We are in need of all problem types, except for *game*, which will be done solely by Arun. When a problem is completed, email it to **adunna@sctf.io** with the subject line **"sCTF Problem"** with the compressed file attached.