Needle In a Haystack Solution

Group Members:

- Kawang: /home/kawang/haystack/folder118/needle.txt

- Zach: ./folder302/needle.txt

- Xavier: ./folder280/needle.txt

- Toshaya: ./folder298/needle.txt

Goal Statement:

Locate or find the "needle.txt" file within the 500 folders within the haystack directory.

Steps to recreate:

1. Create a single haystack directory with 500 folders and 100 blank files within each folder.

   a. mkdir haystack && touch folder{1..500}/file{1..100}.txt

      i. Makes a directory named haystack and then generates folders 1-500 with files1-100 within each

2. Generate the needle file

   a. $touch ./haystack/folder$(shuf -i 1-500 -n 1)/needle.txt

      i. $() is referencing a variable

      ii. - i = rangeT

      iii. -n = number of times

Answer:

1. find ./ -name needle.txt

   a. The find commands allows one to locate a file within a specific path

   b. -name options tells the command that the search is case sensitive

2. Alternative answer:

a. find /home/$USER/haystack/ -name needle.txt

    i. Works regardless of user

    ii. **Note:** the command will not allow you to view a document from another user on the same PC.