

Solution Guide: Internal Investigation: Finding the Kit Cat Burglar

- First, navigate into the `/03-student/day1/find_kit_cat_burglar` folder on your VM. To do this, run the following commands:
 - `cd /03-student/day1/`
 - `cd find_kit_cat_burglar`
- This directory has folders for evidence gathered from Henry and Ruth.
- Within Henry and Ruth's directories are sub-directories for:
 - Emails
 - Files
 - Logs
 - Other
- To preview all the files in each of these directories and find those that can be used as evidence, you can use `more` , `less` , or `head` .
 - The files that contain "evidence" to provide to the authorities are:
 - `/03-student/day1/find_kit_cat_burglar/ruth/emails/emailA`
 - `/03-student/day1/find_kit_cat_burglar/ruth/files/sd.txt`
 - `/03-student/day1/find_kit_cat_burglar/henry/emails/email1`
 - `/03-student/day1/find_kit_cat_burglar/henry/emails/email4`
 - `/03-student/day1/find_kit_cat_burglar/henry/logs/log1`
 - `/03-student/day1/find_kit_cat_burglar/henry/logs/log2`
 - `/03-student/day1/find_kit_cat_burglar/henry/other/top_secret/recipe_for_sugarplum`
 - `/03-student/day1/find_kit_cat_burglar/henry/other/top_secret/recipe_for_sweetums`
- Next, go back to the `find_kit_cat_burglar` directory, and make a directory called `Evidence_for_authorities` . Run the following command:
 - `mkdir Evidence_for_authorities`
- Copy all the evidence files found into this directory. To do this, run the following commands using absolute paths:

```
cp /03-student/day1/findkitcatburglar/ruth/emails/emailA /03-student/day1/findkitcatburglar/Evidenceforauthorities cp /03-student/day1/findkitcatburglar/ruth/files/sd.txt /03-student/day1/findkitcatburglar/Evidenceforauthorities cp /03-student/day1/findkitcatburglar/henry/emails/email1 /03-student/day1/findkitcatburglar/Evidenceforauthorities cp /03-student/day1/findkitcatburglar/henry/emails/email4 /03-student/day1/findkitcatburglar/Evidenceforauthorities cp /03-student/day1/findkitcatburglar/henry/logs/log1 /03-student/day1/findkitcatburglar/Evidenceforauthorities cp /03-student/day1/findkitcatburglar/henry/logs/log2 /03-student/day1/findkitcatburglar/Evidenceforauthorities cp /03-student/day1/findkitcatburglar/henry/other/topsecret/recipeforsugarplum /03-student/day1/findkitcatburglar/Evidenceforauthorities cp /03-student/day1/findkitcatburglar/henry/other/topsecret/recipeforsweetums /03-student/day1/findkitcatburglar/Evidenceforauthorities
```

- The last step is to concatenate all the files together. Move into `Evidence_for_authorities` and run:

- `cat emailA sd.txt email1 email4 log1 log2 recipe_for_sugarplum recipe_for_sweetums > Wonka-evidence.txt`

Bonus

- The hidden files are `lp.txt` , `dj.txt` , `bb.txt` and `b7.txt` in Ruth's `files` directory.
- To change the file extension from .txt to .jpg, run:
- `mv lp.txt lp.jpg`
- `mv dj.txt dj.jpg`
- `mv bb.txt bb.jpg`
- `mv b7.txt b7.jpg`
- Open the file to display the images.