

Solution Guide: Gathering Evidence

- The first step is to navigate into the `/03-student/day2/Gathering_Evidence/` folder on your VM. To do this, run the following command:
 - `cd /03-student/day2/Gathering_Evidence/`
- In the `Gathering_Evidence` Folder, make a directory called `Slugworth_evidence` by running:
 - `mkdir Slugworth_evidence`
- Next, move into the email directory:
 - `cd email`
- List the emails referencing Slugworth, and place the results in a file called `Slugworth_email_evidence` :
 - `grep -il slugworth * > slugworth_email_evidence`
- Next, add to the same file the number of emails that contain Slugworth:
`grep -il slugworth * | wc -l >> slugworth_email_evidence`
- The next step is to place into a new file called `slugworth_web_evidence` the following data:
 - Which web log file contains Slugworth's IP address.
 - The number of Slugworth IPs addresses found in this file.
 - Access the `web_logs` directory by going back a directory (`cd ..`), then:
 - `cd web_logs`
- To find the log files that have the IP address of `13.16.23.234` and place them in a new file called `slugworth_web_evidence` , run:
 - `grep -il 13.16.23.234 * > slugworth_web_evidence`
- Next, to append to this file the number of records that contain the IP address, run:
 - `grep -i 13.16.23.234 * | wc -l >> slugworth_web_evidence`
- Now we will move both of the evidence files over to the `Slugworth_evidence` directory that we created:
 - `cd ../../`
 - `mv ./Gathering_Evidence/email/slugworth_email_evidence ./Gathering_Evidence/Slugworth_evidence/`
 - `mv ./Gathering_Evidence/web_logs/slugworth_web_evidence ./Gathering_Evidence/Slugworth_evidence/`
- Next, navigate to the `Slugworth_evidence` directory, and concatenate the files into a single file called `Slugworth_evidence_for_authorities` :
 - `cd Gathering_Evidence/Slugworth_evidence/`
 - `cat slugworth_email_evidence slugworth_web_evidence > Slugworth_evidence_for_authorities`

- The last step is to confirm the file has the correct data for the authorities. Run:

- `cat Slugworth_evidence_for_authorities`

- The results should be: `email5 email7 email8 3 0518weblog 22` While this file contains all the data the authorities need, this is not obvious. In tomorrow's lesson we'll learn how to edit the contents of a file to further describe the evidence.