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Task

<https://docs.google.com/document/d/1AGgMRb5SiQ8UKUZygwWZc0ldwRAJowVZKBxjsAOfMRk/edit>

Step by step

1)First we created the haystack directory in the home directory (~)

`mkdir haystack`

2)Then we created 500 folders

`mkdir ~/haystack/folder{1..500}`

3)Then we created 100 files inside each of the the 500 folders while in haystack directory

`Touch folder {1..500}/file{1..100}`

4)Then we tested if each folder had 100 files by changing directory by going into one of the 500 folders and pressing ls. And there were 100 files there as expected.

`cd folder54`

`ls`

5)Then we ran the command as instructed by the task `touch ./haystack/folder$(shuf -i 1-500 -n 1)/needle.txt`

to create a needle.txt file in one of the 500 folders randomly.

6) While in the haystack directory, we tried to find a command and locate needle.txt. We did this by using the commands

`locate needle.txt` and `find needle.txt`

Both commands didn't work. Then we decided to google it and google taught us that you have to install locate.

<https://www.tecmint.com/install-locate-command-to-find-files-in-centos/>

So we installed locate by using the command

`sudo apt install mlocate`

7) Lastly, we found the needle.txt by using the command `locate needle.txt` while in the haystack directory

For me it was folder 65

Or

There is also another way we found by pressing the command

`find . -iname needle.txt`

while in the haystack directory

Summary of results

After finding the answer we agreed both answers can find and locate work because both approaches were able to find needle.txt.

Which folder our needle.txt file is located in?

Bishajit Lodh - 65

Dilobar Irisova - 391

Ulyana (Lana) Omelyash - home/ekz/haystack/folder28/needle.txt

Franklin Ordonez - 231

Denzel Gustave - 500

EXTRA

Why create a haystack in the home directory and not the root directory?

-permissions

-the task showed to create in the home directory

What does `touch ./haystack/folder$(shuf -i 1-500 -n 1)/needle.txt` mean?

Touch to create a folder

./ means current working directory

/ means its in the root directory

haystack means haystack directory

folder\$ it substitutes \$ momentarily with a file in a random haystack directory folder

shuf generate a random permutations

-i means input range from low to high

-n means (head count=Count) or output at most Count lines

needle.txt lastly is just the file that put into one of the random folder of the 500 folders

What's the difference between locate and find command

https://www.google.com/search?q=difference+between+find+and+locate&rlz=1C1CHBF_enUS751US751&oq=difference+between++find+and+locate&aqs=chrome..69j57.8759j0j1&sourceid=chrome&ie=UTF-8

Locate is not normally in outputs in our virtual machine because it uses a previous built database. So you have to install it. They are both similar but find has more configurations and is in the current database.