The find command - Tryhackme

I. Overview

Use to search for files in a directory hierarchy

Syntax: find where what

- o where: specify the directory where to look
- o what : specify what to look for

II. Usage

1. Decentralization.

r: read - 100

w: write - 010

x: execute - 001

-: deny - 000

2. Some common Flag:

- type: specify type of target
 - o d: directory
 - o f: file
- name: specify a name or pattern (-name abc.xyz)
 - o If use wildcards, need to enclose your pattern in quotes ("*.xyz")
 - -iname: use the same as –name, but case insensitive
- - user: specify username of owner of file. (-user s0vvn –name vl.txt)
- size: specify size of a file.
 - Prefix: "- ", "+",
 - -n: size < n
 - +n : size > n
 - n : size =n
 - Suffix:
 - c: bytes
 - k: KB
 - m: MB
- - perm: specify permission

Prefix:

- "-": return files with at least the permissions you specify.
- "/": return files that match **any** of the permissions you have set
- time-related: e.g: -amin -30 (find file was accessed < 30' ago)
 - min: minutes
 - time: days
 - a: accessed

- m: modified
- c: changed
- +,-,"": Use the same as size

III. Practice

1. Find all files owned by the user "kittycat":

All file => directory = / & -type f & '-user kittycat'

Find all files owned by the user "kittycat"

find / -type f -user kittycat

Correct Answer

2. Find all files that are exactly 150 bytes in size Directory: / & -type f & -size 150c

Find all files that are exactly 150 bytes in size

find / -type f -size 150c

Correct Answer

3. Find all files in the /home directory (recursive) with size less than 2 KiB's and extension ".txt"

Directory: /home & -type f & -size -2k && -name "*.txt"

Find all files in the /home directory (recursive) with size less than 2 KiB's and extension ".txt"

find /home -type f -size -2k -name "*.txt"

Correct Answer

4. Find all files that are exactly readable and writeable by the owner, and readable by everyone else (use octal format)

Directory: / &-type f & -perm (owner:6, g:4, other:4) 644

Find all files that are exactly readable and writeable by the owner, and readable by everyone else (use octal format)

find / -type f -perm 644

Correct Answei

5. Find all files that are **only** readable by anyone (use octal format) Dir: / & -type f & -perm /444

Find all files that are only readable by anyone (use octal format)

find / -type f -perm /444

Correct Answ

6. Find all files with write permission for the group "others", regardless of any other permissions, with extension ".sh" (use symbolic format)

Dir: / & -type f & -perm -o=w & -name "*.sh"

Find all files with write permission for the group "others", regardless of any other permissions, with extension ".sh" (use symbolic format)

find / -type f -perm -o=w -name "*.sh"

Correct Answer

7. Find all files in the /usr/bin directory (recursive) that are owned by root and have at least the SUID permission (use symbolic format)

Dir: /usr/bin & -type f & -user root & -perm -u=s(s): execute file as permission of owner)

Find all files in the /usr/bin directory (recursive) that are owned by root and have at least the SUID permission (use symbolic format)

find /usr/bin -type f -user root -perm -u=s

Correct Answe

8. Find all files that were not accessed in the last 10 days with extension ".png"

Dir: / & -type f & -atime -10 & -name "*.png"

Find all files that were not accessed in the last 10 days with extension ".png"

find / -type f -atime +10 -name "*.png"

Correct Answer

9. Find all files in the /usr/bin directory (recursive) that have been modified within the last 2 hours

Dir: $\frac{1}{20}$ /usr/bin & -type f & -mmin -120.

Find all files in the /usr/bin directory (recursive) that have been modified within the last 2 hours

find /usr/bin -type f -mmin -120

Correct Answe

IV. Have you found it?

#stdout:

- 1>....: redirect stdout
- Display result on terminal .

#stderr:

- 2>FILENAME : redirect erro
- Hiển thị ra các lỗi trong quá trình thực hiện một lệnh hoặc một công việc nào đó.
- Display erro during perform a command or a action.
- exec: runs the specified command on the selected files, but the command line is built by appending each selected file name at the end