Finding Files and Folders

The "find" command allows you to search for files for which you know the approximate filenames. The simplest form of the command searches for files in the current directory and recursively through its subdirectories that match the supplied search criteria. You can search for files by name, owner, group, type, permissions, date, and other criteria.

find .

The dot after "find" indicates the current directory.

To find files that match a specific pattern, use the "-name" argument. You can use filename metacharacters (such as "*"), but you should either put an escape character ("\") in front of each of them or enclose them in quotes.

find . -name pro*

All files in the current directory starting with "pro" are listed.

➢ **Basic Find Commands for Finding Files with Names**

1. Find Files Using Name in Current Directory

   Find all the files whose name is **tecmint.txt** in a current working directory.

   find . -name tecmint.txt

   ./tecmint.txt

2. Find Files Under Home Directory

   Find all the files under **/home** directory with name **tecmint.txt**.

   find /home -name tecmint.txt

   /home/tecmint.txt

3. Find Files Using Name and Ignoring Case

   Find all the files whose name is **tecmint.txt** and contains both capital and small letters in**/home** directory.

   find /home -iname tecmint.txt

   ./tecmint.txt

./Tecmint.txt

➤ **Find Files Based on their Permissions**

1. Find Files With 777 Permissions

    Find all the files whose permissions are **777**(read, write, execute)

    find . -type f -perm 0777 -print

2. Find Read Only Files

    Find all **Read Only** files.

    find / -perm /u=r

3. Find Executable Files

    Find all **Executable** files.

    find / -perm /a=x

4. Find all Empty Files

    To file all empty files under certain path.

    find /tmp -type f -empty

5. File all Hidden Files

    To find all hidden files, use below command.

    find /tmp -type f -name ".*"

➤ **Search Files Based On Owners and Groups**

1. Find Single File Based on User

    To find all or single file called **tecmint.txt** under **/** root directory of owner root.

    find / -user root -name tecmint.txt

2. Find all Files Based on Group

    To find all files that belongs to group **Developer** under **/home** directory.

    find /home -group developer

➤ **Find Files and Directories Based on Date and Time**

1. Find Last 50 Days Modified Files

    To find all the files which are modified **50** days back.

find / -mtime 50

2. Find Last 50 Days Accessed Files

   To find all the files which are accessed **50** days back.

   find / -atime 50

3. Find Modified Files in Last 1 Hour

   To find all the files which are modified in last **1 hour**.

   find / -mmin -60