

Terminal commands Dan Richter 07 Sep 2020

Let's start taking a look at some of the terminal commands used in Linux. If you are familiar with some of the dos/Windows commands, I will reference their counterparts for each of them.

Navigating the file system

pwd

pwd stands for Print Work Directory. It does exactly what you think it would do, it tells you where you are in the file system.

```
dan@dan-home:~/Documents

File Edit View Search Terminal Help

[dan@dan-home Documents]$ pwd
/home/dan/Documents
[dan@dan-home Documents]$
```

If you have ever used the 'dir' command in dos/Windows, this is the Linux equivalent. It will give you the contents of the directory that you are in.

```
dan@dan-home:~/Documents
                  Search
                          Terminal
File
      Edit
           View
                                    Help
[dan@dan-home Documents]$ ls
fdhomewp.zip
                               rcsc8s11.zip
'GTA San Andreas User Files'
                               rcsc8s1w.zip
'linux1 - why and how.odt'
                               tiger1wp.zip
'linux2 - file system.odt'
[dan@dan-home Documents]$
```

cd

This works exactly the same as the 'cd' command in dos/Windows. It allows you to change from one directory to another. In the following example, the 'cd' command was used to go back (up) to the previous directory. In this case, from Downloads to Home.

```
dan@dan-home:~

File Edit View Search Terminal Help

[dan@dan-home Downloads]$ cd ..

[dan@dan-home ~]$
```

As 'cd' is one of the most used commands, I wanted to give you a little more information about it. First of all, there are some shortcuts that can be used. One of which, I used in the previous example. Instead of typing 'cd /home/dan' to go back to the home directory, I typed in 'cd ..' which will take you back one directory, in this case from /home/dan/Documents to /home/dan. Another way this could be done is to use the '~' key. This represents your /home directory. So, I could have typed 'cd ~' and would have been taken to the home directory as well. Or, I could have typed in 'cd' by itself, and Linux would take me back to the home directory. All of these are very useful and quick ways to move around in the Linux file system.

mkdir

This command is used for creating a new directory. It is similar to the 'md' command in dos/Windows. As you can see if the following example, the temp2 directory did not contain anything. After running the 'mkdir temp', there was a sub-directory called temp inside of the directory.

```
dan@dan-home:~/temp2

File Edit View Search Terminal Help

[dan@dan-home temp2]$ ls
[dan@dan-home temp2]$ ls
temp
[dan@dan-home temp2]$ 

[dan@dan-home temp2]$ ]$
```

rmdir

This is the opposite of the last command, as it will remove a directory from the command line. This time, in the example, you can see the 'temp' sub-directory was there, and after running the 'rmdir temp' command, it was removed.

```
dan@dan-home:~/temp2

File Edit View Search Terminal Help

[dan@dan-home temp2]$ ls

temp
[dan@dan-home temp2]$ rmdir temp
[dan@dan-home temp2]$ ls
[dan@dan-home temp2]$ ls
```

lsblk

If you need to look and see a list of the block devices on your system, you can use this 'lsblk' command. In this example, it shows a tree structure of the block devices on my system.

```
dan@dan-home:~/temp2
File
      Edit
            View
                    Search Terminal
[dan@dan-home temp2]$ lsblk
            MAJ:MIN RM SIZE RO TYPE MOUNTPOINT
                           1.8T
                                 0 disk
             8:1 0 195.3G 0 part
8:2 0 1.6T 0 part /run/media/dan/89ff22eb-755c-4c6e-aec7-145ced1cbb18
 -sda1
sdb
∟sdb1
             8:17 0 3.6T 0 part /run/media/dan/Seagate
             11:0 1 3.9G 0 rom /run/media/dan/GTA_SA
sr0
nvmeOn1 259:0 0 476.9G 0 disk
nvmeOn1p1 259:1 0 300M 0 part /boot/
nvmeOn1p2 259:2 0 467.8G 0 part /
nvmeOn1p3 259:3 0 8.8G 0 part [SWAP]
                                 0 part /boot/efi
[dan@dan-home temp2]$
```

mount

If you need to manually mount a drive in Linux, the 'mount' command is used.

df

This is one of the most important commands that can be used in the terminal. This will show you the available space on each of the drives mounted on your system.

```
dan@dan-home:~/temp2
      Edit View Search
                         Terminal
                                   Help
[dan@dan-home temp2]$ df
Filesystem
              Size Used Avail Use% Mounted on
       7.8G 1.6M 7.8G
run
tmpfs 7.8G 93M 7.7G 2%/dev/shm
tmpfs 7.8G 0 7.8G 0%/sys/fs/cgroup
tmpfs 7.8G 47M 7.7G 1%/tmp
                                 1% /boot/efi
                                 1% /run/user/1000
tmpfs 1.6G 48K 1.6G
/dev/sr0
/dev/sdb1
              4.0G 4.0G 0 100% /run/media/dan/GTA_SA
              3.7T 302G 3.4T 9% /run/media/dan/Seagate
/dev/sda2
              1.6T 136G 1.4T 9% /run/media/dan/89ff22eb-755c-4c6e-aec7-145ced1cbb18
pCloud.fs 500G 71G 430G 15% /home/dan/pCloudDrive
[dan@dan-home temp2]$
```

As this is already getting a bit lengthy, I'll stop here. In the next update, we'll take a look at some more commands that will give you a lot of power on a Linux system.