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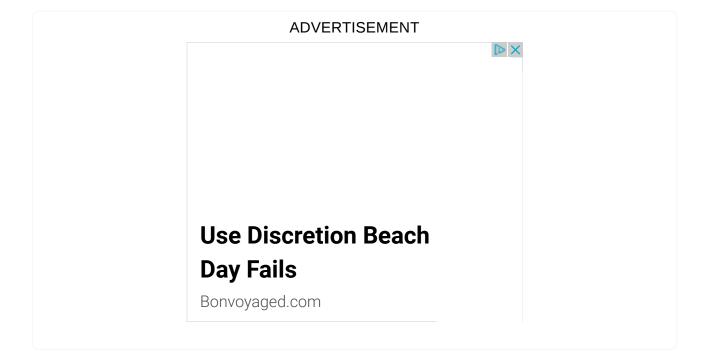
# Linux Delete Folder Recursively Command

Author: Vivek Gite • Last updated: January 31, 2021 • 8 comments

ow do I delete folder recursively under Linux operating systems using a bash command line options?



You need to use the rm command to remove files or directories (also known as folders) recursively. The rmdir command removes only empty directories. So you need to use rm command to delete folder recursively under Linux.



# rm command syntax to delete directories recursively

The syntax is as follows:

Tutorial details	
Difficulty level	<u>Easy</u>
Root privileges	No
Requirements	None
Est. reading time	2m

rm -r dirName ## OR ## rm -r folderName ## OR ## rm -rf folderName

#### Did you know?

Everything is a file in Linux and Unix-like systems. In other words, your pictures, documents, directories/folders, SSD/hard-drives, NIC, USB devices, keyboards, printers, and some network communications all are files.

### Examples that examples how to delete folder recursively

In this example, recursively delete data folder in the current home directory:

rm -r /home/vivek/data/

The specified /home/vivek/data/ will first be emptied of any subdirectories including their subdirectories and files and then data directory removed. The user is prompted for removal of any write-protected files in the directories unless the -f (force) option is given on command line:

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rm -rf dirname-here		
OR		
<pre>rm -r -f /path/to/folder/</pre>		
To remove a folder whose name starts with a -, for example 'dsaatia one of these commands:	ʻ, use	
rm -rfdsaatia		
OR		
<pre>rm -rf ./dsaatia</pre>		

We can add the -v option to see verbose outputs. In other words, the rm command will explain what is being done to our files and folders on Linux. For instance:

```
rm -rfv /path/to/dir1
rm -r -f -v /home/vivek/oldpartpics
```

## Removing folders with names containing strange characters

Your folders and files may have while spaces, semicolons, backslashes and other chracters in Linux. For example:

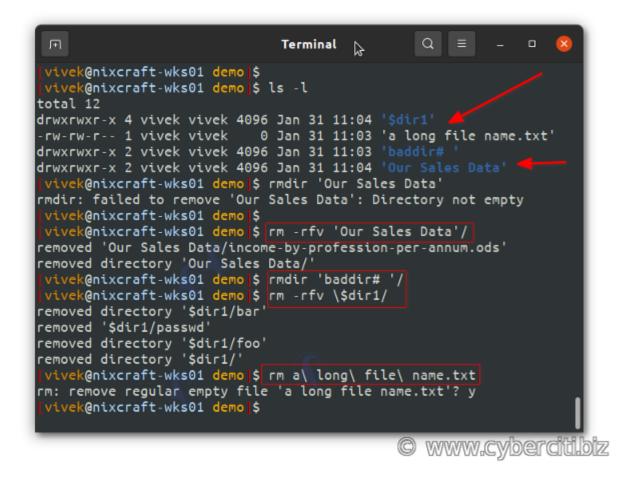
ls -l

Let us say we have a folder named "Our Sales Data" and "baddir#" or "dir2 ;# ". So how do we delete those directories with special names containing strange characters? The answer is simple. We try to enclose our troublesome filename or folder name in quotes. For example:

```
rm 'Our Sales Data'
rm -rfv '/path/to/Dir 1 ;'
rm -r -f -v "baddir#"
rm a\ long \dir1 \name
```

Sometimes, we need insert a backslash (  $\bigcirc$  ) before the meta-character in your filename or folder name:

rm \\$dir1



Deleting folder recursively command summary

rm command options for removing dirs/folders recursively	
Command and options	Description
-f	Forceful option. Ignore nonexistent files and argume
-r	remove directories and their contents recursively
-v	Verbose output
rm '-dir1'	Remove a dir/file whoes name start with a ''
rm ./-dir1	Same as above
rm -rfv 'dir name here'	Enclose your troublesome filename/folder in quotes
<pre>rm -rfv \\$dirname1</pre>	Same as above

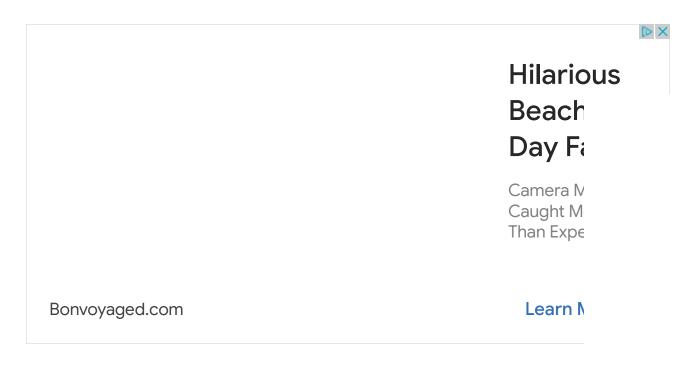
See Linux rm(1) command man page or rm command example page for more <u>information</u>:

man rm rm --help

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#### Thota Madhu Sudhan • Mar 11, 2013 @ 18:11

What is the significance of -r in the code ?

rm -r dirname

what is the difference in using -rf and -r?

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K-hole • Mar 18, 2014 @ 14:34

- -r :recursive
- \_\_\_\_\_ :force (no prompt)

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WP Dev • Jan 31, 2021 @ 6:02

You can combine [-f], [-i], [-v] and all other such options per your needs.

we can see a list of all options by running bash command

rm --help

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tuunga • Jul 9, 2013 @ 13:42

# rm -r dirName

on centos ask every file to be deleted

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script • Jan 30, 2021 @ 22:09

you have to use "rm -rf dirName" if you not want that system ask you every file to be deleted

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Miloslav Havrda • Jan 22, 2016 @ 11:54

Thank you very much.

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Dima • Feb 10, 2016 @ 1:21

Thanks. Great article.

I have a question. How can I delete all subfolders /wp-content/cache/\* in all folders in /home/ directory?

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#### WP Dev • Jan 31, 2021 @ 5:59

#### cd into /home/

cd /home/

ls -l

#### Then go to /wp-content/cache/:

```
cd /wp-content/cache/
rm -rfv *
```

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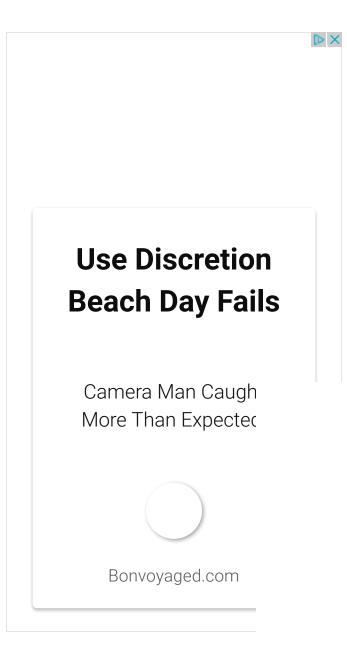
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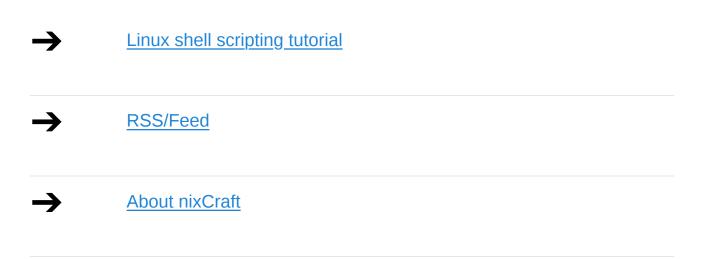
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