Diff Command in Linux

diff is a command-line utility that allows you to compare two files line by line. It can also compare the contents of directories.

The diff command is most commonly used to create a patch containing the differences between one or more files that can be applied using the patch command.

How to Use the diff Command

The syntax for the diff command is as follows:

diff [OPTION]... FILES

Copy

The diff command can display the output in several formats with the normal, context, and unified format being the most common ones. The output includes information about which lines in the files must be changed so that they become identical. If the files match, no output is produced.

To save the command output to a file, use the redirection operator:

diff file1 file2 > patch

we'll use the following two files to explain how the diff command works:

file1

Ubuntu

Arch Linux

Debian

CentOS

Fedora

Copy

file2

Kubuntu

Ubuntu

Debian
Arch Linux
Centos
Fedora
Сору
Normal Format
In its simplest form when the diff command is run on two text files without any option, it produces an output in the normal format:
diff file1 file2
Сору
The output will look something like this:
0a1
> Kubuntu
2d2
< Arch Linux
4c4,5
< CentOS
> Arch Linux
> Centos
The normal output format consists of one or more sections that describe the differences. Each section looks like this:
change-command
< from-file-line

