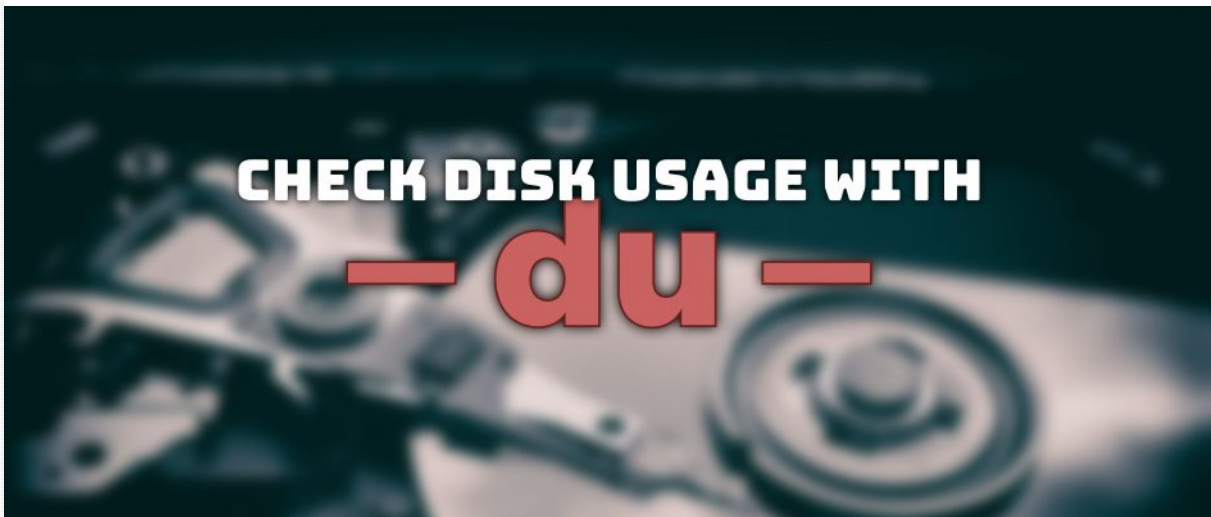


Linux_w0r1d

Check disk usage at the command line with du



End users and system administrators sometimes struggle to get exact disk usage numbers by folder (directory) or file. The *du* command can help. It stands for disk usage, and is one of the most useful commands to report disk usage. This utility ships in the *coreutils* package included by default in Fedora.

You can list the size of a file:

```
$ du anaconda-ks.cfg
4 anaconda-ks.cfg
```

The *-h* switch changes the output to use *human readable* numbers:

```
$ du -h anaconda-ks.cfg
4.0K anaconda-ks.cfg
```

In most cases, your goal is to find disk usage in and under a folder, or its contents. Keep in mind this command is subject to the file and folder permissions that apply to those contents. So if you're working with system folders, you should probably [use the `sudo` command](#) to avoid running into permission errors.

This example prints a list of contents and their sizes under the root (/) folder:

```
sudo du -shxc /*
```

Here's what the options represent:

- `-s` = summarize
- `-h` = human readable
- `-x` = one file system — don't look at directories not on the same partition. For example, on most systems this command will mainly ignore the contents of `/dev`, `/proc`, and `/sys`.
- `-c` = grand total

You can also use the `--exclude` option to ignore a particular directory's disk usage:

```
sudo du -shxc /* --exclude=proc
```

You can provide file extensions to exclude, like `.iso`, `.txt`, or `*.pdf`. You can also exclude entire folders and their contents:

```
sudo du -sh --exclude=*.iso
```

You can also limit the *depth* to walk the directory structure using `--max-depth`. You can print the total for a directory (or file, with `-all`) only if it is N or fewer levels below the command line argument. If you use `--max-depth=0`, you'll get the same result as with the `-s` option.

```
sudo du /home/ -hc --max-depth=2
```