

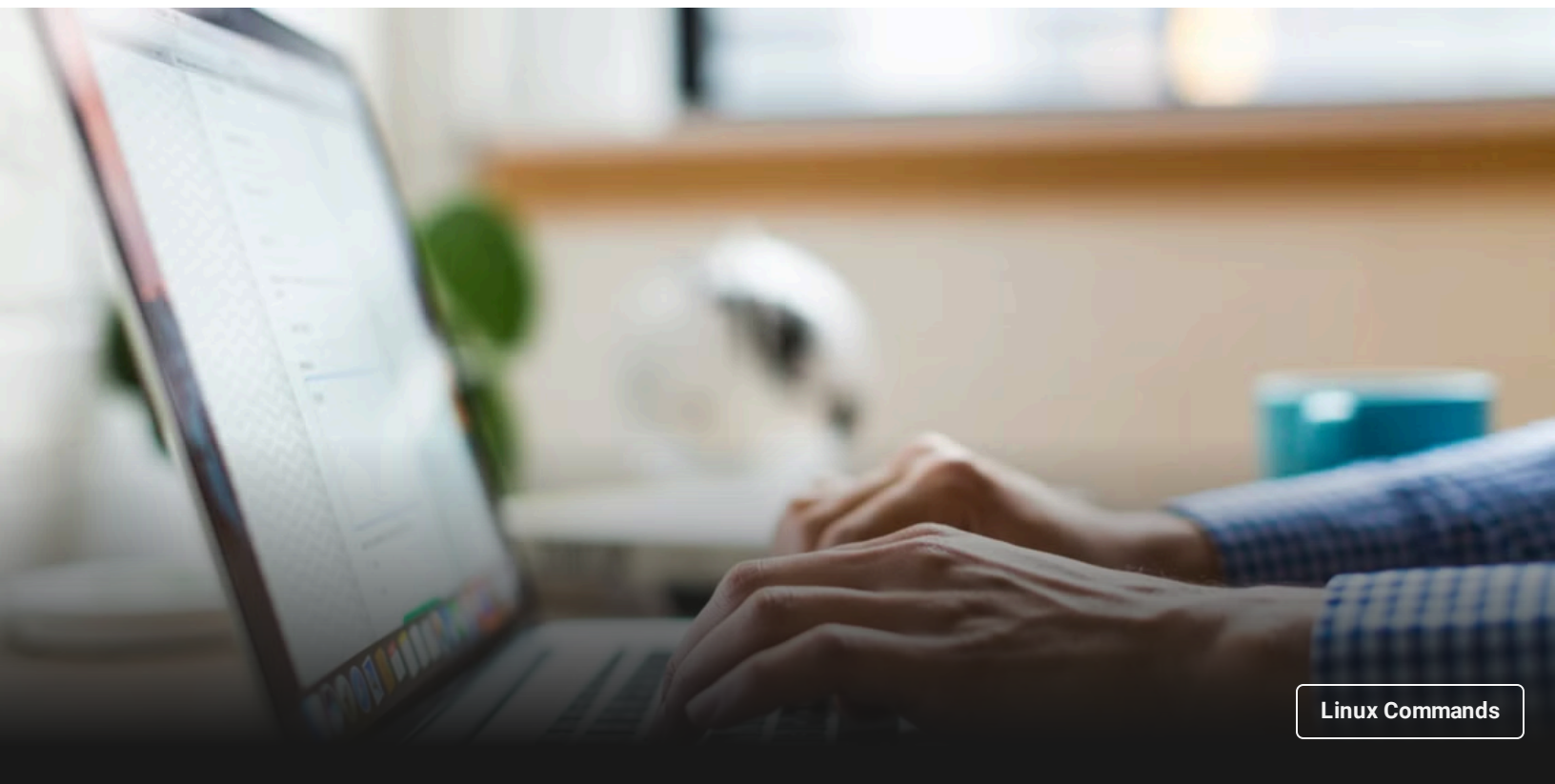


Sign In Now 

How to Install and Use doas: A Minimalistic Alternative to sudo



By David Delony — Published Nov 13, 2021



Linux Commands



Follow



Share

On a lot of Linux systems, you can perform tasks as root by running commands with `sudo`. The OpenBSD project has developed a minimalistic alternative, `doas`.

So, how do you use `doas` to execute Linux commands as another user, and will it ever replace `sudo`?

What is doas?
Link copied to clipboard

doas is a utility that allows standard users to perform tasks as root, the same way sudo does. It's been developed by the OpenBSD project as a minimalistic alternative to sudo, and as a result, the program is much smaller than sudo.

While it's developed as a part of OpenBSD, a portable version is available that works with other Unix-like systems, including Linux.

How to Install doas

doas is available on most official distro repositories and you can easily install it using your distribution's package manager. To install doas on Debian-based distros like Ubuntu:

```
sudo apt install doas
```

Note that the package is only present in the Ubuntu 21.04 repository and not in the 20.04 LTS release.

To install it on Arch, just use pacman:

```
sudo pacman -S opendoas
```

On Fedora and CentOS, use DNF to install doas:

Link copied to clipboard

opendoas

Configuring doas

doas takes some more setup than sudo because most distros still don't include it by default, but the configuration is much easier to understand than sudo. All you have to do is edit the **/etc/doas.conf** file as root.

Here is an example of doas that mimics the behavior of sudo, and lets you run any command as root. Using doas, you also get a grace period where you don't have to enter your password for several minutes after running successive doas commands.

```
permit persist username as root
```

The **username** in the aforementioned command is the user you want to enable. Many systems have users in a certain group such as "admin" or "wheel" that can use sudo. You can also duplicate this with doas by preceding group names by a colon.

```
permit persist :wheel as root
```

You can also specify Linux commands with doas. Suppose you only want a particular user to be able to run APT to update the system. The **cmd** option lets you specify a list of individual commands and **nopass** will let you run root commands without a password.

Link copied to clipboard

```
er cmd apt apt-get as root
```

Using Doas

You use doas at the command line just as you would run sudo:

```
doas apt update
```

RELATED:

How To Change Between Users On Linux

What About sudo?

Despite the arrival of doas, sudo will be around for a while. Although sudo has a convoluted configuration file, it offers a lot of fine-grained control. Plus, doas is not yet available in all distro repositories. You'll likely have to use sudo until either more repositories add it or distros start replacing sudo with doas as the default administrative program.

Apart from doas and sudo, there are several other programs that you can install to run commands as another user. Many Linux distros including Arch Linux ship with su as the default utility to switch between users.

Linux

Linux Commands

★ Follow



Link copied to clipboard

MakeUseOf. When you make a purchase using links on our site, we may earn an affiliate commission. [Read More](#).

RECOMMENDED



Sudo vs. su: Which Command Should You Use?

On Linux, there are two commands to get superuser access: su and sudo. Which one...

Aug 8, 2021



6 Reasons Why Your Next Laptop Should Be a Chromebook

If you're in the market for a new laptop, have you considered buying a Chromebook? If not,...

Aug 8, 2024



If You're Leaving Spotify, This Is How You Export Your Playlists

You can use this free service to transfer your Spotify playlists to another service.

23 hours ago



Nintendo's New App Is a Streaming Service for Video Game Soundtracks

It isn't the long-anticipated Switch 2, but Nintendo Music will be music to many people's ears.

22 minutes ago



Did You Know You've Agreed to These 5 Things By Using Facebook?

Here are five things you agreed to when signing up for Facebook.

2 days ago



How to Make the Most of Your iPhone's Photo Editing App for Better...

Unlock your iPhone's editing powers for photos that pop.

2 days ago



Link copied to clipboard

[Join Our Team](#)
[Our Audience](#)
[About Us](#)
[Press & Events](#)
[Contact Us](#)

Follow Us



[Advertising](#)
[Careers](#)
[Terms](#)
[Privacy](#)
[Policies](#)

MUO is part of the **Valnet Publishing Group**

Copyright © 2024 Valnet Inc.