



# can i make an iso from a fully installed garuda linux system on a nvme drive?

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## Answer

### Creating an ISO Image of a Fully Installed Garuda Linux System on an NVMe Drive

Garuda Linux, a rolling release distribution based on Arch Linux, offers users the flexibility to create an ISO image of their fully installed system. This can be particularly useful for creating backups, reinstalling the system on new hardware, or distributing your customized setup to others. Here's a step-by-step guide on how to achieve this using the `dd` command and `genisoimage` (or `mkisofs`) utility.

### Prerequisites

Before proceeding, ensure you have the following:

- A fully installed Garuda Linux system on an NVMe drive.
- Basic understanding of Linux commands.

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```
sudo fdisk -l /dev/nvme0n1 # Replace 'nvme0n1' with your NVMe device name if dif
```

Look for the Garuda Linux partition (it might be named `/``, `/home``, or another mount point) and note down its start sector (`Starting Sector``) and end sector (`End Sector``).

## 2. Create a raw image of the partition

Now, use the `dd`` command to create a raw image of the Garuda Linux partition:

```
sudo dd if=/dev/nvme0n1pX of=garuda_image.img bs=64K conv=noerror,sync status=pro
```

This command will create a raw image file named `garuda_image.img`` in the current directory. The `conv=noerror,sync`` option ensures that the copy process continues even if there are read errors, and `status=progress`` displays a progress bar.

## 3. Create an ISO image from the raw image

Next, use the `genisoimage`` (or `mkisofs``) utility to create an ISO image from the raw image file:

```
sudo apt-get install genisoimage # Install genisoimage if not already installed  
sudo genisoimage -o garuda_image.iso -b isolinux/isolinux.bin -c isolinux/boot.ca
```

This command will create an ISO image named `garuda_image.iso`` in the current directory. The options used here are specific to Garuda Linux and ensure that the resulting ISO can be booted using both BIOS and UEFI systems.

## Additional Notes

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installation, consider following the official Garuda Linux installation manual



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```
sudo dd if=garuda_image.img of=/dev/nvme0n1 bs=64K conv=noerror,sync status=p
```

- **Creating an ISO from a live system:** If you want to create an ISO image of the Garuda Linux live environment, use the ``live-system-image`` tool provided by the Garuda Linux project. Refer to their [wiki page] <sup>14</sup> for more information.

1

: [https://garudalinux.org/wiki/Installation\\_Manual](https://garudalinux.org/wiki/Installation_Manual) <sup>2</sup>:  
[https://garudalinux.org/wiki/Download\\_Garuda\\_Linux#Garuda\\_USB\\_Bootable\\_Drive](https://garudalinux.org/wiki/Download_Garuda_Linux#Garuda_USB_Bootable_Drive) <sup>3</sup>: <https://superuser.com/questions/50874/create-an-image-file-of-a-running-linux-system>

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# Are there any other tools available to create an ISO image of a Garuda Linux system besides ``dd`` and ``genisoimage``?



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# Creating an ISO Image of Garuda Linux: Beyond `dd` and `genisoimage`

Garuda Linux, known for its unique blend of features and customization options, offers several methods to create an ISO image of your current system. While `dd` and `genisoimage` are common tools used for this purpose, there are indeed other tools and methods available that can streamline the process or offer additional functionality.

## 1. Garuda Tools: The Official Way

Garuda Linux provides its own set of tools, `garuda-tools`, designed specifically to build Garuda images [1](#) [2](#). These tools simplify the process of creating an ISO image from your current system and ensure that the resulting image is compatible with Garuda's unique features.

- **Installation:** First, install `garuda-tools` using the following command:

```
sudo pacman -S garuda-tools
```

- **Usage:** Once installed, you can create an ISO image of your current system with a single command:

```
garuda-makensis
```

This command will generate an ISO file in your home directory [3](#).

## 2. Recommended Tools: `squashfs-tools` and `xorriso`

While `garuda-tools` is the recommended method for creating Garuda ISOs, you can also use a combination of other tools to achieve the same result

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```
mkdir /tmp/garuda_iso  
mount /dev/sda1 /tmp/garuda_iso # Replace /dev/sda1 with your root parti
```

2. Make a copy of the mounted filesystem using ``squashfs``:

```
mksquashfs /tmp/garuda_iso /tmp/garuda.sqsh
```

3. Create an ISO image using ``xorriso``:

```
xorriso -as mkisofs -r -V "Garuda Linux" -A "Garuda Linux" -J -l -b isoli
```

### 3. Using ``archiso`` for Customization

If you need more control over the ISO creation process or want to customize the ISO image, you can use the Arch Linux ISO building tools (``archiso``) along with Garuda's ``iso-profiles`` [6](#) [7](#).

- **Installation:** Install the required tools using:

```
sudo pacman -S archiso
```

- **Usage:** Clone the ``iso-profiles`` repository and build the ISO image following the instructions in the repository's README file.

### Conclusion

While ``dd`` and ``genisoimage`` can be used to create an ISO image of a Garuda Linux system, using the official ``garuda-tools`` or other recommended tools like ``squashfs-tools`` and ``xorriso`` offers a more streamlined and compatible process. For advanced customization, you can use ``archiso`` along with Garuda's ``iso-profiles``. Each method has its own advantages, so choose the one that best fits your needs.

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