

Install NixOS directly from a remote flake

**WIP**

This tutorial has not been completed yet.

Unlike the previous tutorials (1; 2), the goal here is to near-fully automate our NixOS install using one command (see the next section).

How to install

Boot your computer from any NixOS install live CD ([Minimal ISO image](#) is sufficient), and then from the terminal run:

Flake template?

Move this template to [flake-parts/templates](#) and guide users as to how to [override](#) it (to set `system`, hostname and root user's authorized ssh key)?

```
# Assuming
# - your system is x86_64-linux
# - your harddrive device is /dev/sda
FLAKE="github:nixos-asia/website?dir=global/nixos-install-oneclick#oneclick"
DISK_DEVICE=/dev/sda
sudo nix \
  --extra-experimental-features 'flakes nix-command' \
  run github:nix-community/disko#disko-install -- \
  --flake "$FLAKE" \
  --write-efi-boot-entries \
  --disk main "$DISK_DEVICE"
```

Here, `"github:nixos-asia/website?dir=global/nixos-install-oneclick#oneclick"` is [our own sample configuration](#) flake. Feel free to substitute it with your own flake.

If everything goes well, you should see the installation successfully finish with a message like below:

```
...
Random seed file /boot/loader/random-seed successfully written (32 bytes).
Successfully initialized system token in EFI variable with 32 bytes.
Created EFI boot entry "Linux Boot Manager".
installation finished!
```

1. Take note of the IP address of your machine using `ifconfig`.
2. Reboot your computer (or VM)! Expect to boot into NixOS.
3. Test ssh access using `ssh root@<ip-addr>`

User management

The above flake is meant to be used on a server. As such, it authorizes root access through SSH keys.

- ☐ If you are setting up a desktop, you may have to ...

Making further changes to the flake

- ☐ After install, how do we make further changes to the flake and apply that configuration? Can we simplify this?

This worked:

```
[root@oneclick:~]# git clone https://github.com/nixos-asia/website.git
```

```
[root@oneclick:~]# cd website/global/nixos-install-oneclick/
```

```
[root@oneclick:~/website/global/nixos-install-oneclick]# sudo nixos-rebuild si
```



Links to this page

[NixOS Tutorial Series](#)

☐ [Install NixOS directly from a remote flake](#)

[Install NixOS with disko disk partitioning](#)

In this second tutorial, we will walk you through the process of installing NixOS. Unlike the first installation tutorial, we will use the command line to install NixOS manually, except for using `disko` [↗] to specify disk partitions declaratively in Nix itself. This is the first step toward our next tutorial, where we will automate the entire installation process.

You now have a reproducible disk partitioning scheme. This does come at the cost of a few extra manual steps, but you can automate them with a script. Which is what we will do in the next tutorial. We will use `nixos-anywhere` [↗] to automate the steps above and eliminate the need for a USB flash drive (assuming you have a working Linux system or are booted into a rescue image).

