

Nix Dendritic

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NixOS nix-darwin/Home Manager Nix use NixOS, btw Nix Dendritic btw¹

Nix

NixOS configuration.nix hardware-configuration.nix Nix NixOS

```
1 //
```

Nix import Nix import Nix a = import ./a.nix; a = <a.nix > Nix import Nix Nix Nixpkgs Nix

```
1 imports = [./another-module.nix];
```

Nix Nix Nix Nix Nix Nix GitHub Star Nix

NixOS & Flakes Book ryan4yin Nix TUI GUI .nix

```
1 nix-config/
2 |— flake.nix
3 |— hosts/
4 |   └─ laptop-01/
5 |       └─ configuration.nix # <-- NixOS
6 |           └─ home.nix     # <-- Home Manager
7 |
8 |— modules/                # <--
9 |   └─ nixos/
10 |       └─ desktop.nix
11 |           └─ server.nix
12 |               └─ ...
13 |
14 |— home/                   # <-- (Home Manager)
15 |   └─ linux/
16 |       └─ gui/
17 |           └─ vscode/
18 |               └─ default.nix
19 |                   └─ ...
20 |                       └─ ...
```

¹ Nix NixOS Nix NixOS NixOS & Flakes Book

flake-parts --flake-parts Nix
flake-parts --Dendritic

Dendritic

Dendritic flake-parts Nix .nix flake-parts
flake-parts Nix Nix flake flake Dendritic
flake-parts modules

Dendritic modules vic/import-tree

Nix Dendritic Nix Ryan Yin Nix
() NixOS Home Manager
NixOS Home Manager

DeaDBeeF KDE Plasma 6
Elisa home modules

```
1 # modules/nixos/desktop.nix
2 { pkgs, ... }: {
3   # ...
4   environment.plasma6.excludePackages = with pkgs.kdePackages; [
5     konsole # Ghostty
6     kdepim-runtime # Thunderbird
7     kate # VSCode
8     elisa # DeaDBeeF
9   ];
10 }
```

```
1 # home/linux/gui/thunderbird.nix
2 {
3   programs.thunderbird.enable = true;
4 }
```

Dendritic NixOS Home Manager

```
1 # modules/desktop/thunderbird.nix
2 {
3   flake.modules.nixos.desktop = {pkgs, ...}: {
4     environment.plasma6.excludePackages = with pkgs.kdePackages; [
5       kdepim-runtime # No needed if using Thunderbird.
6     ];
7   };
8
9   flake.modules.homeManager.desktop = _: {
10    programs.thunderbird = {
11      enable = true;
12    };
13  };
14 }
```



```

5   import-tree.url = "github:vic/import-tree";
6   nixpkgs.url = "github:NixOS/nixpkgs/nixos-unstable";
7 };
8
9   outputs = inputs:
10    inputs.flake-parts.lib.mkFlake {inherit inputs;} {
11      imports = [(inputs.import-tree ./modules)];
12    };
13 }

```

```

import-tree ./modules ./modules _ .nix imports =
[...]flake-parts Dendritic nixpkgs unstable

```

```

1 # modules/flake/default.nix
2 {inputs, ...}: {
3   imports = [inputs.flake-parts.flakeModules.modules]; # flake module
4   systems = ["x86_64-linux"]; # aarch64-darwin
5 }

```

```

1 # modules/flake/nixos.nix
2 {
3   inputs,
4   lib,
5   config,
6   withSystem,
7   ...
8 }: let
9   prefix = "hosts/"; # flake module
10  collectHostsModules = modules:
11    lib.filterAttrs
12      (name: _: lib.hasPrefix prefix name)
13      modules;
14  in {
15    flake.nixosConfigurations =
16      lib.pipe
17        (collectHostsModules config.flake.modules.nixos) # NixOS flake
18        module
19        [
20          # `hosts/abc` -> `abc`
21          (lib.mapAttrs' (
22            name: value: {
23              name = lib.removePrefix prefix name;
24              inherit value;
25            }
26          ))
27          # NixOS
28          (lib.mapAttrs' (
29            name: module: {
30              inherit name;
31              value = inputs.nixpkgs.lib.nixosSystem {
32                modules = [
33                  {networking.hostName = name;}

```

```
34         ];
35     }
36 }
37 ))
38 ];
39 }
```

flake module <hostname> NixOS
modules/hosts flake module

```
1 # modules/hosts/foobar.nix
2 {
3     flake.modules.nixos."hosts/foobar" = _: {
4         nixpkgs.system = "x86_64-linux";
5
6         imports = with config.flake.modules.nixos; [
7             # flake module
8             core
9             "hardware/cpu/intel"
10            "hardware/gpu/amd"
11            "services/caddy"
12            "services/ollama"
13            ...
14        ];
15
16        fileSystems."/" = {...};
17    };
18 }
```

modules/{core,hardware,services}/*.nix

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2025 2025

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