

home-manager

Capitole du Libre 2023

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Guilhem Saurel

Disponible à

[https://homepages.laas.fr/gsaurel/talks/
home-manager.pdf](https://homepages.laas.fr/gsaurel/talks/home-manager.pdf)

Source

[https://gitlab.laas.fr/gsaurel/talks :
home-manager.md](https://gitlab.laas.fr/gsaurel/talks/home-manager.md)

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Nix (gestionnaire de paquets)

Utilisons un paquet !

`/nix/store/7jxy9m61jh5br3kcc1vmix5lqyyixln2-vlc-3.0.`

```
├─ bin/
│   ├── [...]
│   ├── vlc
│   └── vlc-wrapper
├─ include/
│   └── vlc/
│       ├── deprecated.h
│       └── libvlc.h
├─ [...]
├─ lib/
│   ├── libvlc.so ⇒ libvlc.so.5.6.1
│   └── libvlc.so.5.6.1
├─ [...]
```

Nix (langage)

- domain-specific
- declarative
- pure
- functional

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- declarative
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to launch bash commands

Nixpkgs

<https://github.com/NixOS/nixpkgs/>

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avec 88 678 projets



```

--- pkgs/development/python-modules/eigenpy/default.
+++ pkgs/development/python-modules/eigenpy/default.
@@ -10,14 +10,14 @@
     stdenv.mkDerivation (finalAttrs: {
       pname = "eigenpy";
-     version = "3.1.2";
+     version = "3.1.3";

       src = fetchFromGitHub {
         owner = "stack-of-tasks";
         repo = finalAttrs.pname;
         rev = "v${finalAttrs.version}";
         fetchSubmodules = true;
-       hash = "sha256-U2EXh6Foz/TH+vSrimrn2hDPTA++GLFL";
+       hash = "sha256-8UuJA96pkXXRKDzQTj0z7w8TQrS5+nfl";
     };

```

NixOS

```
{ config, pkgs, ... }: {  
  imports = [ ./hardware-configuration.nix ];  
  environment.systemPackages = [  
    pkgs.firefox  
    pkgs.git  
    pkgs.vim  
    pkgs.wget  
  ];  
  networking.hostName = "exampleos";  
  networking.networkmanager.enable = true;  
  time.timeZone = "Europe/Paris";  
  sound.enable = true;  
  users.users.nim = {  
    shell = pkgs.fish;  
    isNormalUser = true;  
    description = "Guilhem Saurel";  
  };  
}
```

```
$ file /bin/sh
/bin/sh: symbolic link to /nix/store/kxkdrxvc3da2d...\
-bash-interactive-5.2-p15/bin/bash
$ file /usr/bin/env
/usr/bin/env: symbolic link to /nix/store/j4fwy5gi...\
-coreutils-9.1/bin/env
$ file /etc/passwd
/etc/passwd: symbolic link to /nix/store/6ilgn50da...\
-base-system/etc/passwd
```


- fully declarative

- fully declarative
- atomic upgrades

- fully declarative
- atomic upgrades
- rollbacks

- fully declarative
- atomic upgrades
- rollbacks
- community

- ça change

- ça change
- le wiki pas aussi bon qu'Arch

Home manager

<https://github.com/nix-community/home-manager>


```
{ config, pkgs, ... }:  
{  
  home.packages = [  
    pkgs.htop  
    pkgs.fortune  
  ];  
  
  programs.vim = {  
    enable = true;  
    defaultEditor = true;  
    plugins = [ pkgs.vimPlugins.ale ];  
    settings.tabstop = 8;  
  };  
}
```

```
{ config, pkgs, ... }:  
{  
  home.file = {  
    ".config/dfc/dfcrc".source = ../dfc/dfcrc;  
    ".xinitrc".text = "exec i3";  
  };  
  
  home.sessionVariables = {  
    SHELL = "${pkgs.fish}/bin/fish";  
  };  
}
```

Environnement de développement

```
{ pkgs ? import <nixpkgs> {} }:  
pkgs.mkShell {  
  nativeBuildInputs = [  
    pkgs.rustc  
    pkgs.cargo  
    pkgs.gcc  
    pkgs.rustfmt  
    pkgs.clippy  
  ];  
}
```

Puis

```
$ nix-shell
```

Merci de votre attention !