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# direnv: manage dev environments

direnv (along with nix-direnv<sup>♂</sup>) allows one to persist <sup>1</sup> nix development shell environments and share them seamlessly with text editors and IDEs. It obviates having to run nix develop manually every time you open a new terminal. The moment you cd into your project directory, the devshell is automatically activated, thanks to direnv.

### **Starship**

It is recommended to use **starship** along with nix-direnv, because it gives a visual indication of the current environment. For example, if you are in a Nix Shell, your terminal prompt automatically changes to something like this:

```
srid on nixos haskell-template on \  \  \, \  \  \,  master [!] via \  \  \, \lambda 9.2.6 via \  \  \,  impure \  \  \,
```

## Setup



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If you use home-manager, both nix-direnv and starship can be installed using the following configuration:

```
# home.nix
programs.direnv = {
  enable = true;
  nix-direnv.enable = true;
};
programs.starship = {
  enable = true;
};
```

### **♦ Newcomer Tip**

If you have never used home-manager before, we recommend that you set it up by following the instrutions at https://github.com/juspay/nixos-unified-template (which is based on nixos-unified , thus works on macOS and Linux).

## Text Editor configuration

### **VSCode**

For VSCode, use Martin Kühl's direnv extension .

### Doom Emacs

Doom Emacs has the :tools direnv module of to automatically load the devshell environment when you open the project directory.

## Add a .envrc

To enable direnv on Flake-based projects, add the following to your .envrc:

```
use flake
```

Now run **direnv** allow to authorize the current .envrc file. You can now cd into the project directory in a terminal and the devshell will be automatically activated.

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## Reload automatically when some files change

### Haskell - when .cabal files change

Since both nixpkgs and haskell-flake use Nix expressions that read the .cabal file to get dependency information, you will want the devshell be recreated every time a .cabal file changes. This can be achieved using the watch\_file function. Modify your .envrc to contain:

```
watch_file *.cabal
use flake
```

As a result of this whenever you change a .cabal file, direnv will reload the environment. If you are using VSCode, you will see a notification that the environment has changed, prompting you to restart it (see example.)

## External Links

Effortless dev environments with Nix and direnv<sup>™</sup>

#### Footnotes

1.

nix-direnv prevents garbage collection of the devshell, so you do not have to re-download things again. direnv also enables activating the devshell in your current shell, without needing to use a customized bash.



### Links to this page

### **VSCode**

Setup direnv and install the direnv VSCode extension .

If you use direnv, it is rather simple to get setup with VSCode:

### Using home-manager to manage dotfiles, packages, services

Among the various examples, we will showcase how to configure Neovim declaratively in Nix, and have it work across platforms. In addition, we will show how to use direnv to develop projects uniformly across different machines.

### Nix for Development

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