Welcome to ConfigShell

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About

Welcome to *ConfigShell*. *ConfigShell* offers you scripts and helper routines that were created over the last 40 years. The first bits were started still on SunOS, Ultrix, Xenix, and Microport UNIX. Some of you might still remember...

The scripts are supposed to run under Linux, OSX, Free-, Open-, and NetBSD, and other UNIX variants. These days, the scripts are only tested with Linux and OSX.

ConfigShell supports 3 major areas denoted here.

Security Notice

ConfigShell is script-only.

I.e., it contains only scripts and / or configuration files. There are no binaries included in the ConfigShell repository. So, you shall be able to see what every bit does.

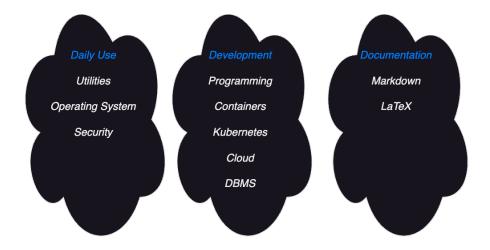


Figure 1: 3 major modules

This is different for the optional git submodules such as ConfigLinux and ConfigDarwin. ConfigShell can be used without the git submodules.

License

This collection is under the MIT license.

Modular, Optional Extensions

Overall, all *ConfigShell* elements are under the MIT license. Furthermore, it splits into multiple parts. These parts are realised using git submodules:

- 1. The basic ConfigShell is appropriate for all UNIXTM-like operating systems
- 2. A special git sub-module for Linux-specifics called ConfigLinux
- 3. A special git sub-module for OSX-specifics called ConfigDarwin
- 4. A git sub-module called PowerlineFonts

Again, the basic ConfigShell can be used without the sub-modules. These sub-modules may also contain binaries.

Benefits of ConfigShell

Daily Use Support

ConfigShell offers Daily Use shell support for the shells:

- 1. bash (https://www.gnu.org/software/bash/) GPLv3 license
- 2. fish (https://fishshell.com/) GPLv2 based

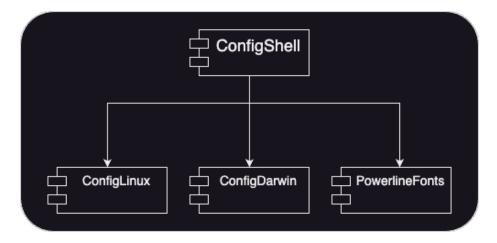


Figure 2: ConfigShell Modules

3. zsh (https://zsh.org) MIT license, parts with GPL

Documentation Support

Development Support

- 1. Documentation and version control support
 - 1. LaTeX, Markdown, and Marp scripts. You can check the /opt/ConfigShell/doc directory. It contains one Markdown file. It is formatted using classical Markdown and LaTeX. Please, watch the difference. Both PDF files are created using a Makefile. If you want to try, just change the README.md a bit and say make (with ConfigShell: it is just an m) in the /opt/ConfigShell/doc directory. Afterwards, the reset everything just say: cd /opt/ConfigShell # make sure that you are in ConfigShell git reset --hard
 - git icsct nai
- 2. git abbreviations2. Development-specific support
 - 1. Utilities for go programming
 - 2. Script for creating container images and EKS (AWS K8s) support
 - 3. Kubernetes (K8s) utilities
 - 4. Versioning support (based on bumpversion)
- 3. Connectivity and generic shell scripts
 - 1. tmux scripts
 - 2. route53 (AWS DNS) utility
 - Additional helper routines like eir, rmbak, 8601, 11, 11a, 11ad, and many others

Individual documents exist to introduce these enhancements. Please feel free to

comment and to suggest improvements.

ConfigLinux

The ConfigLinux sub-module is to be installed as /opt/ConfigShell/ConfigLinux. It contains enhancements like:

- 1. Binaries
 - 1. signfile
 - 2. fast SHA256 calculator
- 2. Terminal support
 - 1. gnome-terminal configurations
 - icons for JetBrains applications for Linux X11/Wayland environments.

ConfigDarwin

The ConfigDarwin sub-module is to be installed as /opt/ConfigShell/ConfigDarwin. It contains enhancements like:

- 1. Binaries
 - 1. signfile
 - 2. fast SHA256 calculator
- 2. Terminal support
 - 1. Mac Terminal Profiles
 - 2. iTerm profiles
- 3. Keyboard Maestro macro files for Unicode support to allow for typing Nordic or German letters and math-symbols like:
 - 1. \rightarrow becomes to \rightarrow , and many more like this including \leadsto
 - 2. \ae becomes to \a"
 - 3. \"a also becomes to an ä
 - 4. \(c) becomes to a ©
 - 5. ...

Installation of ConfigShell

Original Repository

The original ConfigShell can be found at https://github.com/engelch/ConfigShell

Installation to /opt/ConfigShell

First check, if you can create a directory /opt/ConfigShell. You can do this by executing:

mkdir /opt/ConfigShell

If this fails because of permissions, either speak with your system administrator for help or if you also have this role, do:

```
sudo mkdir /opt/ConfigShell
sudo chown <<yourUserName>> /opt/ConfigShell
```

Now, you should be able to install ConfigShell using the command:

```
git clone https://github.com/engelch/ConfigShell /opt/ConfigShell
```

Case Sensitivity ConfigShell requires that it is installed as /opt/ConfigShell. Of course, this file can also be a symbolic link (s-link) to another directory.

The combination of upper- and lower-case characters is important. A more generic version existed before but as it increased the complexity of many scripts, this flexibility was removed.

Install Shell Integration

To install the shell integration just execute:

/opt/ConfigShell/installDotFiles2home

This command is understood to be idempotent, i.e. you can run it multiple times.

Automatic Upgrade of ConfigShell We installed ConfigShell on many hosts. But, how to keep it up-to-date? Luckily, ConfigShell helps you with that. Just run the commands:

```
cd
[ ! -d .bashrc.d ] && mkdir .bashrc.d
cd .bashrc.d
ln -sf /opt/ConfigShell/bin/upgradeConfigShell.sh .
```

~/.bashrc.d/*.sh are executed by fish AND bash. They are run in a sub-shell. Note: ~/.bashrc.d/*.rc are sourced by bash only. This approach was chosen to avoid duplication of installation steps for bash and fish.

Now, every time you log in, it is checked whether this command was executed in the last 4 hours. If so, it just terminates. Otherwise, it pulls the actual version of ConfigShell.

Verifying Installation If possible, log in to the host with a new terminal. On the local system, just open another shell.

Contact

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