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# nginx\_passwd

*Release 2.4.0*

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## **NGINX-PASSWD**

### **1.1 Overview**

### **1.2 Key features**

Basic Auth Password Manager. Manages basic auth password files. This replaces the functionality provided by ht-passwd from Apache.



## GETTING STARTED

### 2.1 Installation

#### Available on

- [Github](#)
- [Archlinux AUR](#)

On Arch you can build using the PKGBUILD provided in packaging directory or from the AUR package. To build manually, clone the repo and do:

Listing 1: Manual Install

```
rm -f dist/*
/usr/bin/python -m build --wheel --no-isolation
root_dest="/"
./scripts/do-install $root_dest
```

When running as non-root then set root\_dest a user writable directory

### 2.2 nginx\_passwd application

#### 2.2.1 Usage

To add or modify a user and write the resulting password file: .. code:: bash

```
nginx_passwd -f <password_file> <user>
```

If file is not specified, then the result is written to stdout.

The supported algorithms are:

```
* Modern : argon2, pbkdf2_sha512, pbkdf2_sha256
* Active  : sha512, sha256, bcrypt
* Deprecated: md5, md5_apr1
```

and sha256 is the default.

These older and now deprecated algorithms are still supported but should be replaced by one of the active ones:

```
md5 and md5_apr1
```

where *md5\_apr1*, also known as *apr1*, is the old apache variant of md5.

## 2.2.2 Options

The options are given below and *nginx\_passwd -h* provides a help summary.

Positional Argument:

- *username*  
required argument.
- *(-h, -help)*  
show help message and exit
- *(-f, -passwd\_file) <password\_file>*  
Write to this Password file
- *(-a, -algo) <algorithm>*  
Default is sha256. Can be one of:

```
* Modern : argon2, pbkdf2_sha512, pbkdf2_sha256
* Active  : sha512, sha256, bcrypt
* Deprecatd: md5, md5_apr1
```

- *(-p, -passwd) <password>*  
Password as an option. Without this it will be read from stdin.
- *(-D, -delete)*  
Delete this user from the password file.
- *(-v, -verify)*  
Checks that the provided password matches that in the password file



## 3.1 Dependencies

- Run Time :
  - python (3.9 or later)
  - passlib

*NB* versions 1.1 and earlier used openssl - all newer version now use python passlib library.

- Building Package:
  - git
  - hatch (aka python-hatch)
  - wheel (aka python-wheel)
  - build (aka python-build)
  - installer (aka python-installer)
  - rsync
- Optional for building docs:
  - sphinx
  - texlive-latexextra (archlinux packaguing of texlive tools)

## 3.2 Philosophy

We follow the *live at head commit* philosophy. This means we recommend using the latest commit on git master branch. We also provide git tags.

This approach is also taken by Google<sup>12</sup>.

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<sup>1</sup> <https://github.com/google/googletest>

<sup>2</sup> <https://abseil.io/about/philosophy#upgrade-support>

## 3.3 License

Created by Gene C. It is licensed under the terms of the MIT license.

- SPDX-License-Identifier: MIT
- Copyright (c) 2023, Gene C

## CHANGELOG

### [2.4.0] — 2024-04-02

Fix passlib bcrypt warning when can happen **if** python-bcrypt **is** used.  
The python bcrypt module **is** optional **for** passlib.  
Fixes [https://github.com/gene-git/nginx\\_passwd/issues/2](https://github.com/gene-git/nginx_passwd/issues/2) brought by @solsticedhiver  
update Docs/Changelog.rst

### [2.3.1] — 2024-02-04

tweak readme  
update Docs/Changelog.rst

### [2.3.0] — 2024-02-04

Add support **for** argon2,pbkdf2\_sha512 **and** pbkdf2\_sha256  
Optional depends python-argon2\_cffi **for** argon2 support  
update Docs/Changelog.rst

### [2.2.0] — 2023-11-27

Change python backend **from** poetry to hatch  
update Docs/Changelog.rst

### [2.1.0] — 2023-09-27

Reorganize documents **and** migrate to restructured text  
update CHANGELOG.md

### [2.0.3] — 2023-09-20

Small README tidy ups  
update CHANGELOG.md

### [2.0.2] — 2023-09-18

Fix typo **in** PKGBUILD file  
update CHANGELOG.md

### [2.0.1] — 2023-09-18

Change hashing code. Remove openssl **and** use python passlib.  
Default algo **is** sha256  
update CHANGELOG.md

[1.1.0] — 2023-05-18

install: switch **from** **pip** to python installer package. This adds optimized bytecode  
update CHANGELOG.md

[1.0.2] — 2023-05-18

PKGBUILD: build wheel back to using python -m build instead of poetry  
update CHANGELOG.md

[1.0.1] — 2023-05-17

Simplify Arch PKGBUILD **and** more closely follow arch guidelines  
small readme chg  
typo  
tweak readme  
update CHANGELOG.md

[1.0.0] — 2023-04-17

Add --verify to check password  
update CHANGELOG.md

[0.9.0] — 2023-04-17

Initial Commit

## MIT LICENSE

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## HOW TO HELP WITH THIS PROJECT

Thank you for your interest in improving this project. This project is open-source under the MIT license.

### 6.1 Important resources

- [Git Repo](#)

### 6.2 Reporting Bugs or feature requests

Please report bugs on the issue tracker in the git repo. To make the report as useful as possible, please include

- operating system used
- version of python
- explanation of the problem or enhancement request.

### 6.3 Code Changes

If you make code changes, please update the documentation if it's appropriate.





## **CONTRIBUTOR COVENANT CODE OF CONDUCT**

### **7.1 Our Pledge**

In the interest of fostering an open and welcoming environment, we as contributors and maintainers pledge to making participation in our project and our community a harassment-free experience for everyone, regardless of age, body size, disability, ethnicity, sex characteristics, gender identity and expression, level of experience, education, socio-economic status, nationality, personal appearance, race, religion, or sexual identity and orientation.

### **7.2 Our Standards**

Examples of behavior that contributes to creating a positive environment include:

- Using welcoming and inclusive language
- Being respectful of differing viewpoints and experiences
- Gracefully accepting constructive criticism
- Focusing on what is best for the community
- Showing empathy towards other community members

Examples of unacceptable behavior by participants include:

- The use of sexualized language or imagery and unwelcome sexual attention or advances
- Trolling, insulting/derogatory comments, and personal or political attacks
- Public or private harassment
- Publishing others' private information, such as a physical or electronic address, without explicit permission
- Other conduct which could reasonably be considered inappropriate in a professional setting

### **7.3 Our Responsibilities**

Maintainers are responsible for clarifying the standards of acceptable behavior and are expected to take appropriate and fair corrective action in response to any instances of unacceptable behavior.

Maintainers have the right and responsibility to remove, edit, or reject comments, commits, code, wiki edits, issues, and other contributions that are not aligned to this Code of Conduct, or to ban temporarily or permanently any contributor for other behaviors that they deem inappropriate, threatening, offensive, or harmful.

## 7.4 Scope

This Code of Conduct applies both within project spaces and in public spaces when an individual is representing the project or its community. Examples of representing a project or community include using an official project e-mail address, posting via an official social media account, or acting as an appointed representative at an online or offline event. Representation of a project may be further defined and clarified by project maintainers.

## 7.5 Enforcement

Instances of abusive, harassing, or otherwise unacceptable behavior may be reported by contacting the project team at [<arch@sapience.com>](mailto:arch@sapience.com). All complaints will be reviewed and investigated and will result in a response that is deemed necessary and appropriate to the circumstances. The Code of Conduct Committee is obligated to maintain confidentiality with regard to the reporter of an incident. Further details of specific enforcement policies may be posted separately.

## 7.6 Attribution

This Code of Conduct is adapted from the Contributor Covenant, version 1.4, available at <https://www.contributor-covenant.org/version/1/4/code-of-conduct.html>

## 7.7 Interpretation

The interpretation of this document is at the discretion of the project team.

## INDICES AND TABLES

- `genindex`
- `modindex`
- `search`