nginx_passwd

Release 2.7.1

Gene C

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CONTENTS:

NGINX-PASSWD

1.1 Overview

Basic Auth Password Manager. Manages basic auth password files. This replaces the functionality provided by htpasswd from Apache. It also provides modern hash functions, such as argon2 and pbkdf2_sha512, which are far superior.

- All git tags are signed with arch@sapience.com key which is available via WKD or download from https://www.sapience.com/tech. Add the key to your package builder gpg keyring. The key is included in the Arch package and the source= line with *?signed* at the end can be used to verify the git tag. You can also manually verify the signature

1.2 New Or Interesting

- PEP-8, PEP-257, PEP-484 and PEP 561

- Refactor code

- Add pytests

- add python-bcrypt dependency to Arch PKBUILD

- For simplicity, make argon2 required instead of optional

TWO

GETTING STARTED

2.1 nginx_passwd application

2.1.1 Usage

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

```
nginx-passwd -f <password_file> <user>
```

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

The supported algortithms are:

```
* Modern : argon2, pbkdf2_sha512, pbkdf2_sha256
* Active : sha512, sha256, bcrypt
* Deprecated: md5,  apr_md5/apr1
```

and sha256 is the default.

These older and now deprecated algorithms (*md5*, *apr_md5*) are still supported but should be replaced by one of the active ones.

Aside, *apr_md5* also known as *apr1*, is the ancient apache variant of md5.

2.1.2 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
* Deprecated: 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

APPENDIX

3.1 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

3.2 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)

3.3 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[1][2].

3.4 License

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

- SPDX-License-Identifier: MIT

- SPDX-FileCopyrightText: © 2023-present Gene C <arch@sapience.com>

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[1] https://github.com/google/googletest
[2] https://abseil.io/about/philosophy#upgrade-support

CHANGELOG

4.1 Tags

```
0.9.0 (2023-04-17) -> 2.7.1 (2025-05-15)
42 commits.
```

4.2 Commits

- 2025-05-15 : **2.7.1**

```
            Add missing PKGBUILD dependencies so pytest does not fail
              Fixes issue #5 thanks to @SoLoR1
2025-05-14    update Docs/Changelogs Docs/${my_name}.pdf
```

- 2025-05-14 : **2.6.0**

```
            * PEP-8, PEP-257, PEP-484 and PEP 561
            * Refactor code
            * Add pytests
            * add python-bcrypt dependency to Arch PKBUILD
2024-12-31    update Docs/Changelog.rst Docs/nginx_passwd.pdf
```

- 2024-12-31 : **2.5.2**

```
            Git tags are now signed.
            Update SPDX tags
            Add git signing key to Arch Package
            Bump python vers
2024-10-13    update Docs/Changelog.rst Docs/nginx_passwd.pdf
```

- 2024-10-13 : **2.5.1**

```
            Minor readme update
2024-04-04    update Docs/Changelog.rst Docs/nginx_passwd.pdf
```

- 2024-04-04 : **2.5.0**

```
            update Docs/Changelog.rst Docs/nginx_passwd.pdf
            Fix bug deleting last entry in password file.
                Thanks to solsticedhive for finding and providing patch.
```

```
                         Fixes https://github.com/gene-git/nginx_passwd/issues/3
             Bug : if no user given then it is set to "None".
                         Thanks to @olsticedhiver
                         Fixes https://github.com/gene-git/nginx_passwd/issues/4
2024-04-02   update Docs/Changelog.rst Docs/nginx_passwd.pdf
             tweak readme
```

- 2024-04-02 : **2.4.0**

```
             update Docs/Changelog.rst Docs/nginx_passwd.pdf
             update Docs/Changelog.rst
             Fix passlib bcrrypt warning when can happen if python-bcyrpt is used.
                 The python bcrypt module is optional for passlib.
                 Fixes https://github.com/gene-git/nginx_passwd/issues/2 brought by
                 @solsticedhiver
2024-02-04   update Docs/Changelog.rst
```

- 2024-02-04 : **2.3.1**

```
tweak readme
update Docs/Changelog.rst
```

- 2024-02-04 : **2.3.0**

```
             Add support for argon2,pbkdf2_sha512  and pbkdf2_sha256
             Optional depends python-argon2_cffi for argon2 support
2023-11-27   update Docs/Changelog.rst
```

- 2023-11-27 : **2.2.0**

```
             Change python backend from poetry to hatch
2023-09-27   update Docs/Changelog.rst
```

- 2023-09-27 : **2.1.0**

```
             Reorganize documents and migrate to restructured text
2023-09-20   update CHANGELOG.md
```

- 2023-09-20 : **2.0.3**

```
             Small README tidy ups
2023-09-18   update CHANGELOG.md
```

- 2023-09-18 : **2.0.2**

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

- 2023-09-18 : **2.0.1**

```
             Change hashing code. Remove openssl and use python passlib.
             Default algo is sha256
2023-05-18   update CHANGELOG.md
```

- 2023-05-18 : **1.1.0**

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

- 2023-05-18 : **1.0.2**

```
            PKGBUILD: build wheel back to using python -m build instead of poetry
2023-05-17  update CHANGELOG.md
```

- 2023-05-17 : **1.0.1**

```
            Simplify Arch PKGBUILD and more closely follow arch guidelines
2023-04-17  small readme chg
            typo
            tweak readme
            update CHANGELOG.md
```

- 2023-04-17 : **1.0.0**

```
Add --verify to check password
update CHANGELOG.md
```

- 2023-04-17 : **0.9.0**

```
Initial Commit
```

FIVE

MIT LICENSE

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>. 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.

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INDICES AND TABLES

- genindex
- modindex
- search