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# **pgpasslib**

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pgpasslib is a library for retrieving passwords from a PostgreSQL password file, either from a location specified in the `PGPASSFILE` environment variable or in the `.pgpass` file in the current user's home directory.



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# Installation

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pgpasslib may be installed via the Python package index with the tool of your choice. I prefer pip:

```
pip install pgpasslib
```





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## Requirements

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There are no requirements outside of the Python standard library.



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## API Documentation

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`pgpasslib.getpass()` will attempt to return the password for the specified host, port, database name, and user-name from the PostgreSQL Password file.

The password file from the `.pgpass` file in the current user's home directory or as specified by the `PGPASSFILE` environment variable or on Windows the `pgpass.conf` file in the `%APPDATA%\postgresql` folder.

Example:

```
import pgpasslib

password = pgpasslib.getpass('localhost', 5432, 'postgres', 'postgres')
if not password:
    raise ValueError('Did not find a password in the .pgpass file')
```

**exception `pgpasslib.FileNotFound`**

Raised when the password file specified in the `PGPASSFILE` environment variable or `.pgpass` file in the user's home directory does not exist.

**exception `pgpasslib.InvalidEntry`**

Raised when the password file can not be parsed properly due to errors in the entry format.

**exception `pgpasslib.InvalidPermissions`**

Raised when the password file specified in the `PGPASSFILE` environment variable or `.pgpass` file in the user's home directory has group or world readable permission bits set.

**exception `pgpasslib.PgPassException`**

Base exception for all `pgpasslib` exceptions

`pgpasslib.getpass(host='localhost', port=5432, dbname='docs', user='docs')`

Return the password for the specified host, port, dbname and user. `None` will be returned if a password can not be found for the specified connection parameters.

If the password file can not be located, a `FileNotFound` exception will be raised.

If the password file is group or world readable, the file will not be read, per the specification, and a `InvalidPermissions` exception will be raised.

If an entry in the password file is not parsable, a `InvalidPermissions` exception will be raised.

**Parameters**

- **host** (*str*) – PostgreSQL hostname
- **port** (*int or str*) – PostgreSQL port
- **dbname** (*str*) – Database name

- **user** (*str*) – Database role/user

**Return type** *str*

**Raises** FileNotFoundError

**Raises** InvalidPermissions

**Raises** InvalidEntry

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## Version History

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See history



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### Issues

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Please report any issues to the Github project at <https://github.com/gmr/pgpasslib/issues>





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### Source

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pgpasslib source is available on Github at <https://github.com/gmr/pgpasslib>



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### License

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pgpasslib is released under the [3-Clause BSD license](#).



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