
Python

unknown

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HISTORY

```
class keyrings.alt.file.Encrypted
```

```
    Bases: object
```

```
    PyCryptodome-backed Encryption support
```

```
    block_size = 32
```

```
    scheme = '[PBKDF2] AES256.CFB'
```

```
    version = '1.0'
```

```
class keyrings.alt.file.EncryptedKeyring
```

```
    Bases: keyrings.alt.file.Encrypted, keyrings.alt.file_base.Keyring
```

```
    PyCryptodome File Keyring
```

```
    decrypt(password_encrypted, assoc=None)
```

```
        Given a password encrypted by a previous call to encrypt, and assoc (byte string, optional), return the original byte string.
```

```
        assoc provides associated data (typically: service and username)
```

```
    encrypt(password, assoc=None)
```

```
        Given a password (byte string) and assoc (byte string, optional), return an encrypted byte string.
```

```
        assoc provides associated data (typically: service and username)
```

```
    filename = 'crypted_pass.cfg'
```

```
    keyring_key
```

```
        Much like the property builtin, but only implements __get__, making it a non-data property, and can be subsequently reset.
```

```
        See http://users.rcn.com/python/download/Descriptor.htm for more information.
```

```
>>> class X:
...     @NonDataProperty
...     def foo(self):
...         return 3
>>> x = X()
>>> x.foo
3
>>> x.foo = 4
>>> x.foo
4
```

```
priority = 0.6
```

```
pw_prefix = b'pw:'  
class keyrings.alt.file.PlaintextKeyring  
    Bases: keyrings.alt.file_base.Keyring  
    Simple File Keyring with no encryption  
    decrypt(password_encrypted, assoc=None)  
        Directly return encrypted password, ignore associated data.  
    encrypt(password, assoc=None)  
        Directly return the password itself, ignore associated data.  
    filename = 'keyring_pass.cfg'  
    priority = 0.5  
        Applicable for all platforms, but not recommended  
    scheme = 'no encryption'  
    version = '1.0'  
class keyrings.alt.Gnome.Keyring  
    Bases: keyring.backend.KeyringBackend  
    Gnome Keyring  
    KEYRING_NAME = None  
        Name of the keyring in which to store the passwords. Use None for the default keyring.  
    delete_password(service, username)  
        Delete the password for the username of the service.  
    get_password(service, username)  
        Get password of the username for the service  
    property keyring_name  
    property priority  
        Each backend class must supply a priority, a number (float or integer) indicating the priority of the backend  
        relative to all other backends. The priority need not be static – it may (and should) vary based attributes of  
        the environment in which is runs (platform, available packages, etc.).  
  
        A higher number indicates a higher priority. The priority should raise a RuntimeError with a message  
        indicating the underlying cause if the backend is not suitable for the current environment.  
  
        As a rule of thumb, a priority between zero but less than one is suitable, but a priority of one or greater is  
        recommended.  
    set_password(service, username, password)  
        Set password for the username of the service  
class keyrings.alt.Google.DocsKeyring(credential, source, crypter, collection=None, client=None,  
    can_create=True, input_getter=<built-in function input>)  
    Bases: keyring.backend.KeyringBackend  
    Backend that stores keyring on Google Docs. Note that login and any other initialisation is deferred until it is  
    actually required to allow this keyring class to be added to the global _all_keyring list.  
    CONFLICT = -1  
    FAIL = 0  
    OK = 1  
    property client
```

property collection**delete_password**(*service, username*)

Delete the password for the username of the service.

If the backend cannot store passwords, raise `NotImplementedError`.**get_password**(*service, username*)

Get password of the username for the service

keyring_title = 'GoogleKeyring'**property priority**

Each backend class must supply a priority, a number (float or integer) indicating the priority of the backend relative to all other backends. The priority need not be static – it may (and should) vary based attributes of the environment in which is runs (platform, available packages, etc.).

A higher number indicates a higher priority. The priority should raise a `RuntimeError` with a message indicating the underlying cause if the backend is not suitable for the current environment.

As a rule of thumb, a priority between zero but less than one is suitable, but a priority of one or greater is recommended.

set_password(*service, username, password*)

Set password for the username of the service

class `keyrings.alt.Google.EnvironCredential`Bases: `keyring.credentials.EnvironCredential`

Retrieve credentials from specifically named environment variables

class `keyrings.alt.Google.KeyczarDocsKeyring`Bases: `keyrings.alt.Google.DocsKeyring`

Google Docs keyring using keyczar initialized from environment variables

supported()

Return if this keyring supports current environment: -1: not applicable

0: suitable 1: recommended

class `keyrings.alt.keyczar.BaseCrypter`Bases: `keyring.backend.Crypter`

Base Keyczar keyset encryption and decryption. The keyset initialisation is deferred until required.

property crypter

The actual keyczar crypter

decrypt(*value*)

Decrypt the value.

encrypt(*value*)

Encrypt the value.

abstract property encrypting_keyset_locationLocation for the encrypting keyset. Use `None` to indicate that the main keyset is not encrypted**abstract property keyset_location**

Location for the main keyset that may be encrypted or not

class `keyrings.alt.keyczar.Crypter`(*keyset_location, encrypting_keyset_location=None*)Bases: `keyrings.alt.keyczar.BaseCrypter`

A Keyczar crypter using locations specified in the constructor

property encrypting_keyset_location

Location for the encrypting keyset. Use None to indicate that the main keyset is not encrypted

property keyset_location

Location for the main keyset that may be encrypted or not

class keyrings.alt.keyczar.**EnvironCrypter**

Bases: *keyrings.alt.keyczar.BaseCrypter*

A Keyczar crypter using locations specified by environment vars

ENC_KEYSET_ENV_VAR = 'KEYRING_KEYCZAR_ENCRYPTING_LOCATION'

KEYSET_ENV_VAR = 'KEYRING_KEYCZAR_ENCRYPTED_LOCATION'

property encrypting_keyset_location

Location for the encrypting keyset. Use None to indicate that the main keyset is not encrypted

property keyset_location

Location for the main keyset that may be encrypted or not

keyrings.alt.keyczar.has_keyczar()**class** keyrings.alt.multi.**MultipartKeyringWrapper**(*keyring, max_password_size=512*)

Bases: *keyring.backend.KeyringBackend*

A wrapper around an existing keyring that breaks the password into smaller parts to handle implementations that have limits on the maximum length of passwords i.e. Windows Vault

delete_password(*service, username*)

Delete the password for the username of the service.

If the backend cannot store passwords, raise `NotImplementedError`.

get_password(*service, username*)

Get password of the username for the service

priority = 0**set_password**(*service, username, password*)

Set password for the username of the service

class keyrings.alt.pyfs.**BasicKeyring**(*crypter, filename=None, can_create=True, cache_timeout=None*)

Bases: *keyring.backend.KeyringBackend*

BasicKeyring is a Pyfilesystem-based implementation of keyring.

It stores the password directly in the file, and supports encryption and decryption. The encrypted password is stored in base64 format. Being based on Pyfilesystem the file can be local or network-based and served by any of the filesystems supported by Pyfilesystem including Amazon S3, FTP, WebDAV, memory and more.

property config

load the passwords from the config file

decrypt(*password_encrypted*)

Decrypt the password.

delete_password(*service, username*)

Delete the password for the username of the service.

If the backend cannot store passwords, raise `NotImplementedError`.

encrypt(*password*)

Encrypt the password.

file_path

Much like the property builtin, but only implements `__get__`, making it a non-data property, and can be subsequently reset.

See <http://users.rcn.com/python/download/Descriptor.htm> for more information.

```
>>> class X:
...     @NonDataProperty
...     def foo(self):
...         return 3
>>> x = X()
>>> x.foo
3
>>> x.foo = 4
>>> x.foo
4
```

property filename

The filename used to store the passwords.

get_password(service, username)

Read the password from the file.

property priority

Each backend class must supply a priority, a number (float or integer) indicating the priority of the backend relative to all other backends. The priority need not be static – it may (and should) vary based attributes of the environment in which is runs (platform, available packages, etc.).

A higher number indicates a higher priority. The priority should raise a `RuntimeError` with a message indicating the underlying cause if the backend is not suitable for the current environment.

As a rule of thumb, a priority between zero but less than one is suitable, but a priority of one or greater is recommended.

set_password(service, username, password)

Write the password in the file.

```
class keyrings.alt.pyfs.EncryptedKeyring(crypter, filename=None, can_create=True,
                                         cache_timeout=None)
```

Bases: `keyrings.alt.pyfs.BasicKeyring`

Encrypted Pyfilesystem Keyring

```
class keyrings.alt.pyfs.KeyczarKeyring
```

Bases: `keyrings.alt.pyfs.EncryptedKeyring`

Encrypted Pyfilesystem Keyring using Keyczar keysets specified in environment vars

```
class keyrings.alt.pyfs.PlaintextKeyring(filename=None, can_create=True, cache_timeout=None)
```

Bases: `keyrings.alt.pyfs.BasicKeyring`

Unencrypted Pyfilesystem Keyring

```
keyrings.alt.pyfs.has_pyfs()
```

Does this environment have pyfs 1.x installed? Should return `False` even when Mercurial's Demand Import allowed import of `fs.*`.

```
class keyrings.alt.Windows.EncryptedKeyring
```

Bases: `keyrings.alt.file_base.Keyring`

A File-based keyring secured by Windows Crypto API.

decrypt(*password_encrypted*, *assoc=None*)
Decrypt the password using the CryptAPI.

encrypt(*password*, *assoc=None*)
Encrypt the password using the CryptAPI.

filename = 'wincrypto_pass.cfg'

property priority
Preferred over file.EncryptedKeyring but not other, more sophisticated Windows backends.

version = '1.0'

class `keyrings.alt.Windows.RegistryKeyring`

Bases: `keyring.backend.KeyringBackend`

RegistryKeyring is a keyring which use Windows CryptAPI to encrypt the user's passwords and store them under registry keys

delete_password(*service*, *username*)
Delete the password for the username of the service.

get_password(*service*, *username*)
Get password of the username for the service

property priority
Preferred on Windows when pywin32 isn't installed

set_password(*service*, *username*, *password*)
Write the password to the registry

`keyrings.alt.Windows.has_wincrypto()`

Does this environment have wincrypto? Should return False even when Mercurial's Demand Import allowed import of `_win_crypto`, so accesses an attribute of the module.

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