rfslib

Release 1.0.22

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This is a documentation of rfslib.

To create a new development environment, it is recommended to create python virtual environment and install dependencies in requirements.txt

If you want to create a new pdf documentation, you are required to install also texlive on your system.

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RFSLIB.ABSTRACT_PCONNECTION MODULE

```
class rfslib.abstract_pconnection.PConnection(**args)
    Bases: abc.ABC
    __init__(**args)
    TODO
```

abstract _**exists**($remote\ path:\ str$) \rightarrow bool

Protected method which checks, whether a remote file exist.

KNOWN BUG: Behavior is undefined in case of broken symlinks.

Parameters remote_path – Path of a remote file.

Returns True, if remote file is exist. False, if remote file doesn't exist

abstract _**isdir**(*remote_path: str*) → bool

Protected method which checks, whether a remote file is a directory.

Parameters remote_path – A path of a directory.

Returns True, if remote file is folder. False, if it isn't a folder. Undefined if the file doesn't exist.

```
abstract _{lexists(remote\_path: str) \rightarrow bool}
```

Protected method which checks, whether a remote file exist.

KNOWN BUG: Behavior is undefined in case of broken symlinks.

Parameters remote_path – Path of a remote file.

Returns True, if remote file is exist. False, if remote file doesn't exist

```
abstract _listdir(remote_path: str) → List[str]
```

Protected method which returns a list of files in the folder including hidden files. Undefined if the remote file doesn't exist or isn't a folder.

Parameters remote_path – The remote path of a remote folder.

Returns List of files in the remote folder

```
abstract _mkdir(remote_path: str)
```

Protected method which creates a new directory. Behavior is undefined if remote folder already exist, or destination folder doesn't exist.

Parameters remote_path – A path of a new remote directory.

```
abstract _pull(remote_path: str, local_path: str)
```

- **remote_path** Path of a remote file to download.
- **local_path** Path of a local file, where to download/pull a remote file or local file already exists.

abstract _push(local_path: str, remote_path: str)

Protected method which uploads/pushes a file from a local storage to a remote storage in the binary form. Behavior is undefined if destination folder doesn't exist or remote file already exists.

Parameters

- local_path Path of a local file to upload.
- **remote_path** Path on the remote storage, where to upload/push a local file.

```
abstract _rename(old_name: str, new_name: str)
```

Protected method which renames/moves a file. Behavior is undefined, if *new_name* file exists or *old_name* file doesn't exist.

Parameters

- **old_name** Remote path a file to move.
- **new_name** Remote path to which move the file.

```
abstract _rmdir(remote_path: str)
```

Protected method which removes an empty remote directory. Behavior is undefined if remote directory doesn't exist or it isn't empty.

Parameters remote_path – Path of an empty remote directory to delete.

```
abstract _unlink(remote_path: str)
```

Protected method which removes a nondirectory file. Behavior is undefined if remote file doesn't exist or is a directory.

Parameters remote_path – Path of a remote regular file to delete.

abstract close()

Method to close the opened connection.

```
cp(old_names, new_name, recursive=False)
```

dcp(old_names, target_dir, recursive=False)

dmv(old_names, target_dir)

```
exists(remote\_path: str) \rightarrow bool
```

Method which checks, whether a remote file exist.

KNOWN BUG: Behavior is undefined in case of broken symlinks.

Parameters remote_path – Path of a remote file.

Returns True, if remote file is exist. False, if remote file doesn't exist

```
fcp(old_name, new_name)
```

find(remote_path, child_first=False)

fmv(old_name, new_name)

```
lexists(remote_path)
     Method which checks, whether a remote file exist.
     KNOWN BUG: Behavior is undefined in case of broken symlinks.
         Parameters remote_path – Path of a remote file.
         Returns True, if remote file is exist. False, if remote file doesn't exist
listdir(remote_path)
ls(remote_path)
mkdir(remote_path)
mv(old_names, new_name)
pmkdir(remote_path)
pull(remote_path, local_path)
push(local_path, remote_path)
rename(old_name, new_name)
rm(remote_path, recursive=False)
rmdir(remote_path)
rpull(remote_path, local_path)
rpush(local_path, remote_path)
touch(remote_path)
unlink(remote_path)
xls(remote_path)
```

RFSLIB.SFTP_PCONNECTION MODULE

class rfslib.sftp_pconnection.SftpPConnection(**arg)

Bases: rfslib.abstract_pconnection.PConnection

```
__init__(**arg)
TODO
```

_exists(remote path)

Protected method which checks, whether a remote file exist.

KNOWN BUG: Behavior is undefined in case of broken symlinks.

Parameters remote_path – Path of a remote file.

Returns True, if remote file is exist. False, if remote file doesn't exist

_isdir(remote_path)

Protected method which checks, whether a remote file is a directory.

Parameters remote_path – A path of a directory.

Returns True, if remote file is folder. False, if it isn't a folder. Undefined if the file doesn't exist.

_lexists(remote_path)

Protected method which checks, whether a remote file exist.

KNOWN BUG: Behavior is undefined in case of broken symlinks.

Parameters remote_path – Path of a remote file.

Returns True, if remote file is exist. False, if remote file doesn't exist

_listdir(remote_path)

Protected method which returns a list of files in the folder including hidden files. Undefined if the remote file doesn't exist or isn't a folder.

Parameters remote_path – The remote path of a remote folder.

Returns List of files in the remote folder

_mkdir(remote_path)

Protected method which creates a new directory. Behavior is undefined if remote folder already exist, or destination folder doesn't exist.

Parameters remote_path – A path of a new remote directory.

_pull(remote_path, local_path)

- **remote_path** Path of a remote file to download.
- **local_path** Path of a local file, where to download/pull a remote file or local file already exists.

```
_push(local_path, remote_path)
```

Protected method which uploads/pushes a file from a local storage to a remote storage in the binary form. Behavior is undefined if destination folder doesn't exist or remote file already exists.

Parameters

- local_path Path of a local file to upload.
- **remote_path** Path on the remote storage, where to upload/push a local file.

```
_rename(old_name, new_name)
```

Protected method which renames/moves a file. Behavior is undefined, if *new_name* file exists or *old_name* file doesn't exist.

Parameters

- **old_name** Remote path a file to move.
- **new_name** Remote path to which move the file.

```
_rmdir(remote_path)
```

Protected method which removes an empty remote directory. Behavior is undefined if remote directory doesn't exist or it isn't empty.

Parameters remote_path – Path of an empty remote directory to delete.

```
_unlink(remote_path)
```

Protected method which removes a nondirectory file. Behavior is undefined if remote file doesn't exist or is a directory.

Parameters remote_path – Path of a remote regular file to delete.

close()

Method to close the opened connection.

```
cp(old_names, new_name, recursive=False)
```

dcp(old_names, target_dir, recursive=False)

dmv(old_names, target_dir)

```
exists(remote\_path: str) \rightarrow bool
```

Method which checks, whether a remote file exist.

KNOWN BUG: Behavior is undefined in case of broken symlinks.

Parameters remote_path – Path of a remote file.

Returns True, if remote file is exist. False, if remote file doesn't exist

```
fcp(old_name, new_name)
```

find(remote_path, child_first=False)

fmv(old_name, new_name)

```
lexists(remote_path)
     Method which checks, whether a remote file exist.
     KNOWN BUG: Behavior is undefined in case of broken symlinks.
         Parameters remote_path – Path of a remote file.
         Returns True, if remote file is exist. False, if remote file doesn't exist
listdir(remote_path)
ls(remote_path)
mkdir(remote_path)
mv(old_names, new_name)
pmkdir(remote_path)
pull(remote_path, local_path)
push(local_path, remote_path)
rename(old_name, new_name)
rm(remote_path, recursive=False)
rmdir(remote_path)
rpull(remote_path, local_path)
rpush(local_path, remote_path)
touch(remote_path)
unlink(remote_path)
xls(remote_path)
```

RFSLIB.FTP_PCONNECTION MODULE

class rfslib.ftp_pconnection.FtpPConnection(**arg)

Bases: rfslib.abstract_pconnection.PConnection

```
__init__(**arg)
TODO
```

_exists(remote path)

Protected method which checks, whether a remote file exist.

KNOWN BUG: Behavior is undefined in case of broken symlinks.

Parameters remote_path – Path of a remote file.

Returns True, if remote file is exist. False, if remote file doesn't exist

_isdir(remote_path)

Protected method which checks, whether a remote file is a directory.

Parameters remote_path – A path of a directory.

Returns True, if remote file is folder. False, if it isn't a folder. Undefined if the file doesn't exist.

_lexists(remote_path)

Protected method which checks, whether a remote file exist.

KNOWN BUG: Behavior is undefined in case of broken symlinks.

Parameters remote_path – Path of a remote file.

Returns True, if remote file is exist. False, if remote file doesn't exist

_listdir(remote_path)

Protected method which returns a list of files in the folder including hidden files. Undefined if the remote file doesn't exist or isn't a folder.

Parameters remote_path – The remote path of a remote folder.

Returns List of files in the remote folder

_mkdir(remote_path)

Protected method which creates a new directory. Behavior is undefined if remote folder already exist, or destination folder doesn't exist.

Parameters remote_path – A path of a new remote directory.

_pull(remote_path, local_path)

- **remote_path** Path of a remote file to download.
- **local_path** Path of a local file, where to download/pull a remote file or local file already exists.

```
_push(local_path, remote_path)
```

Protected method which uploads/pushes a file from a local storage to a remote storage in the binary form. Behavior is undefined if destination folder doesn't exist or remote file already exists.

Parameters

- local_path Path of a local file to upload.
- **remote_path** Path on the remote storage, where to upload/push a local file.

```
_rename(old_name, new_name)
```

Protected method which renames/moves a file. Behavior is undefined, if *new_name* file exists or *old_name* file doesn't exist.

Parameters

- **old_name** Remote path a file to move.
- **new_name** Remote path to which move the file.

```
_rmdir(remote_path)
```

Protected method which removes an empty remote directory. Behavior is undefined if remote directory doesn't exist or it isn't empty.

Parameters remote_path – Path of an empty remote directory to delete.

```
_unlink(remote_path)
```

Protected method which removes a nondirectory file. Behavior is undefined if remote file doesn't exist or is a directory.

Parameters remote_path – Path of a remote regular file to delete.

close()

Method to close the opened connection.

```
cp(old_names, new_name, recursive=False)
```

dcp(old_names, target_dir, recursive=False)

dmv(old_names, target_dir)

```
exists(remote\_path: str) \rightarrow bool
```

Method which checks, whether a remote file exist.

KNOWN BUG: Behavior is undefined in case of broken symlinks.

Parameters remote_path – Path of a remote file.

Returns True, if remote file is exist. False, if remote file doesn't exist

```
fcp(old_name, new_name)
```

find(remote_path, child_first=False)

fmv(old_name, new_name)

```
lexists(remote_path)
     Method which checks, whether a remote file exist.
     KNOWN BUG: Behavior is undefined in case of broken symlinks.
         Parameters remote_path – Path of a remote file.
         Returns True, if remote file is exist. False, if remote file doesn't exist
listdir(remote_path)
ls(remote_path)
mkdir(remote_path)
mv(old_names, new_name)
pmkdir(remote_path)
pull(remote_path, local_path)
push(local_path, remote_path)
rename(old_name, new_name)
rm(remote_path, recursive=False)
rmdir(remote_path)
rpull(remote_path, local_path)
rpush(local_path, remote_path)
touch(remote_path)
unlink(remote_path)
xls(remote_path)
```

RFSLIB.SMB12_PCONNECTION MODULE

class rfslib.smb12_pconnection.Smb12PConnection(**arg)

 $Bases: \ rfslib.abstract_pconnection.PConnection$

```
__init__(**arg)
TODO
```

_exists(remote path)

Protected method which checks, whether a remote file exist.

KNOWN BUG: Behavior is undefined in case of broken symlinks.

Parameters remote_path – Path of a remote file.

Returns True, if remote file is exist. False, if remote file doesn't exist

_isdir(remote_path)

Protected method which checks, whether a remote file is a directory.

Parameters remote_path – A path of a directory.

Returns True, if remote file is folder. False, if it isn't a folder. Undefined if the file doesn't exist.

_lexists(remote_path)

Protected method which checks, whether a remote file exist.

KNOWN BUG: Behavior is undefined in case of broken symlinks.

Parameters remote_path – Path of a remote file.

Returns True, if remote file is exist. False, if remote file doesn't exist

_listdir(remote_path)

Protected method which returns a list of files in the folder including hidden files. Undefined if the remote file doesn't exist or isn't a folder.

Parameters remote_path – The remote path of a remote folder.

Returns List of files in the remote folder

_mkdir(remote_path)

Protected method which creates a new directory. Behavior is undefined if remote folder already exist, or destination folder doesn't exist.

Parameters remote_path – A path of a new remote directory.

_pull(remote_path, local_path)

- **remote_path** Path of a remote file to download.
- **local_path** Path of a local file, where to download/pull a remote file or local file already exists.

```
_push(local_path, remote_path)
```

Protected method which uploads/pushes a file from a local storage to a remote storage in the binary form. Behavior is undefined if destination folder doesn't exist or remote file already exists.

Parameters

- local_path Path of a local file to upload.
- **remote_path** Path on the remote storage, where to upload/push a local file.

```
_rename(old_name, new_name)
```

Protected method which renames/moves a file. Behavior is undefined, if *new_name* file exists or *old_name* file doesn't exist.

Parameters

- **old_name** Remote path a file to move.
- **new_name** Remote path to which move the file.

```
_rmdir(remote_path)
```

Protected method which removes an empty remote directory. Behavior is undefined if remote directory doesn't exist or it isn't empty.

Parameters remote_path – Path of an empty remote directory to delete.

```
_unlink(remote_path)
```

Protected method which removes a nondirectory file. Behavior is undefined if remote file doesn't exist or is a directory.

Parameters remote_path – Path of a remote regular file to delete.

close()

Method to close the opened connection.

```
cp(old_names, new_name, recursive=False)
```

dcp(old_names, target_dir, recursive=False)

dmv(old_names, target_dir)

```
exists(remote\_path: str) \rightarrow bool
```

Method which checks, whether a remote file exist.

KNOWN BUG: Behavior is undefined in case of broken symlinks.

Parameters remote_path – Path of a remote file.

Returns True, if remote file is exist. False, if remote file doesn't exist

```
fcp(old_name, new_name)
```

find(remote_path, child_first=False)

fmv(old_name, new_name)

```
lexists(remote_path)
     Method which checks, whether a remote file exist.
     KNOWN BUG: Behavior is undefined in case of broken symlinks.
         Parameters remote_path – Path of a remote file.
         Returns True, if remote file is exist. False, if remote file doesn't exist
listdir(remote_path)
ls(remote_path)
mkdir(remote_path)
mv(old_names, new_name)
pmkdir(remote_path)
pull(remote_path, local_path)
push(local_path, remote_path)
rename(old_name, new_name)
rm(remote_path, recursive=False)
rmdir(remote_path)
rpull(remote_path, local_path)
rpush(local_path, remote_path)
touch(remote_path)
unlink(remote_path)
xls(remote_path)
```

RFSLIB.SMB23_PCONNECTION MODULE

class rfslib.smb23_pconnection.Smb23PConnection(**arg) Bases: rfslib.abstract_pconnection.PConnection

__init__(**arg)
TODO

_exists(remote path)

Protected method which checks, whether a remote file exist.

KNOWN BUG: Behavior is undefined in case of broken symlinks.

Parameters remote_path – Path of a remote file.

Returns True, if remote file is exist. False, if remote file doesn't exist

_isdir(remote_path)

Protected method which checks, whether a remote file is a directory.

Parameters remote_path – A path of a directory.

Returns True, if remote file is folder. False, if it isn't a folder. Undefined if the file doesn't exist.

_lexists(remote_path)

Protected method which checks, whether a remote file exist.

KNOWN BUG: Behavior is undefined in case of broken symlinks.

Parameters remote_path – Path of a remote file.

Returns True, if remote file is exist. False, if remote file doesn't exist

_listdir(remote_path)

Protected method which returns a list of files in the folder including hidden files. Undefined if the remote file doesn't exist or isn't a folder.

Parameters remote_path – The remote path of a remote folder.

Returns List of files in the remote folder

_mkdir(remote_path)

Protected method which creates a new directory. Behavior is undefined if remote folder already exist, or destination folder doesn't exist.

Parameters remote_path – A path of a new remote directory.

_pull(remote_path, local_path)

- **remote_path** Path of a remote file to download.
- **local_path** Path of a local file, where to download/pull a remote file or local file already exists.

```
_push(local_path, remote_path)
```

Protected method which uploads/pushes a file from a local storage to a remote storage in the binary form. Behavior is undefined if destination folder doesn't exist or remote file already exists.

Parameters

- local_path Path of a local file to upload.
- **remote_path** Path on the remote storage, where to upload/push a local file.

```
_rename(old_name, new_name)
```

Protected method which renames/moves a file. Behavior is undefined, if *new_name* file exists or *old_name* file doesn't exist.

Parameters

- **old_name** Remote path a file to move.
- **new_name** Remote path to which move the file.

```
_rmdir(remote_path)
```

Protected method which removes an empty remote directory. Behavior is undefined if remote directory doesn't exist or it isn't empty.

Parameters remote_path – Path of an empty remote directory to delete.

```
_unlink(remote_path)
```

Protected method which removes a nondirectory file. Behavior is undefined if remote file doesn't exist or is a directory.

Parameters remote_path – Path of a remote regular file to delete.

close()

Method to close the opened connection.

```
cp(old_names, new_name, recursive=False)
```

dcp(old_names, target_dir, recursive=False)

dmv(old_names, target_dir)

```
exists(remote\_path: str) \rightarrow bool
```

Method which checks, whether a remote file exist.

KNOWN BUG: Behavior is undefined in case of broken symlinks.

Parameters remote_path – Path of a remote file.

Returns True, if remote file is exist. False, if remote file doesn't exist

```
fcp(old_name, new_name)
```

find(remote_path, child_first=False)

fmv(old_name, new_name)

```
lexists(remote_path)
          Method which checks, whether a remote file exist.
          KNOWN BUG: Behavior is undefined in case of broken symlinks.
              Parameters remote_path – Path of a remote file.
              Returns True, if remote file is exist. False, if remote file doesn't exist
     listdir(remote_path)
     ls(remote_path)
     mkdir(remote_path)
     mv(old_names, new_name)
     pmkdir(remote_path)
     pull(remote_path, local_path)
     push(local_path, remote_path)
     rename(old_name, new_name)
     rm(remote_path, recursive=False)
     rmdir(remote_path)
     rpull(remote_path, local_path)
     rpush(local_path, remote_path)
     touch(remote_path)
     unlink(remote_path)
     xls(remote_path)
rfslib.smb23_pconnection.config_smb23(**arg)
```

RFSLIB.FS_PCONNECTION MODULE

$\textbf{class} \ \texttt{rfslib.fs_pconnection}. \textbf{FsPConnection}(**arg)$

Bases: rfslib.abstract_pconnection.PConnection

```
__init__(**arg)
TODO
```

_exists(remote path)

Protected method which checks, whether a remote file exist.

KNOWN BUG: Behavior is undefined in case of broken symlinks.

Parameters remote_path – Path of a remote file.

Returns True, if remote file is exist. False, if remote file doesn't exist

_isdir(remote_path)

Protected method which checks, whether a remote file is a directory.

Parameters remote_path – A path of a directory.

Returns True, if remote file is folder. False, if it isn't a folder. Undefined if the file doesn't exist.

_lexists(remote_path)

Protected method which checks, whether a remote file exist.

KNOWN BUG: Behavior is undefined in case of broken symlinks.

Parameters remote_path – Path of a remote file.

Returns True, if remote file is exist. False, if remote file doesn't exist

_listdir(remote_path)

Protected method which returns a list of files in the folder including hidden files. Undefined if the remote file doesn't exist or isn't a folder.

Parameters remote_path – The remote path of a remote folder.

Returns List of files in the remote folder

_mkdir(remote_path)

Protected method which creates a new directory. Behavior is undefined if remote folder already exist, or destination folder doesn't exist.

Parameters remote_path – A path of a new remote directory.

_pull(remote_path, local_path)

- **remote_path** Path of a remote file to download.
- **local_path** Path of a local file, where to download/pull a remote file or local file already exists.

```
_push(local_path, remote_path)
```

Protected method which uploads/pushes a file from a local storage to a remote storage in the binary form. Behavior is undefined if destination folder doesn't exist or remote file already exists.

Parameters

- local_path Path of a local file to upload.
- **remote_path** Path on the remote storage, where to upload/push a local file.

```
_rename(old_name, new_name)
```

Protected method which renames/moves a file. Behavior is undefined, if *new_name* file exists or *old_name* file doesn't exist.

Parameters

- **old_name** Remote path a file to move.
- **new_name** Remote path to which move the file.

```
_rmdir(remote_path)
```

Protected method which removes an empty remote directory. Behavior is undefined if remote directory doesn't exist or it isn't empty.

Parameters remote_path – Path of an empty remote directory to delete.

```
_unlink(remote_path)
```

Protected method which removes a nondirectory file. Behavior is undefined if remote file doesn't exist or is a directory.

Parameters remote_path – Path of a remote regular file to delete.

close()

Method to close the opened connection.

```
cp(old_names, new_name, recursive=False)
```

dcp(old_names, target_dir, recursive=False)

dmv(old_names, target_dir)

```
exists(remote\_path: str) \rightarrow bool
```

Method which checks, whether a remote file exist.

KNOWN BUG: Behavior is undefined in case of broken symlinks.

Parameters remote_path – Path of a remote file.

Returns True, if remote file is exist. False, if remote file doesn't exist

```
fcp(old_name, new_name)
```

find(remote_path, child_first=False)

fmv(old_name, new_name)

```
lexists(remote_path)
     Method which checks, whether a remote file exist.
     KNOWN BUG: Behavior is undefined in case of broken symlinks.
         Parameters remote_path – Path of a remote file.
         Returns True, if remote file is exist. False, if remote file doesn't exist
listdir(remote_path)
ls(remote_path)
mkdir(remote_path)
mv(old_names, new_name)
pmkdir(remote_path)
pull(remote_path, local_path)
push(local_path, remote_path)
rename(old_name, new_name)
rm(remote_path, recursive=False)
rmdir(remote_path)
rpull(remote_path, local_path)
rpush(local_path, remote_path)
touch(remote_path)
unlink(remote_path)
xls(remote_path)
```

CHAPTER

SEVEN

RFSLIB.PATH_UTILS MODULE

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