

SnapshotManager Reference Manual

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Chapter 1

SnapshotManager Namespace Index

1.1 SnapshotManager Package List

Here are the packages with brief descriptions (if available):

IStorageWrapper	9
main	10
RdiffBackupWrapper	11
SnapshotManager	12

Chapter 2

SnapshotManager Hierarchical Index

2.1 SnapshotManager Class Hierarchy

This inheritance list is sorted roughly, but not completely, alphabetically:

IStorageWrapper.IStorageWrapper	14
RdiffBackupWrapper.RdiffBackupWrapper	18
SnapshotManager.SnapshotManager	23

Chapter 3

SnapshotManager Class Index

3.1 SnapshotManager Class List

Here are the classes, structs, unions and interfaces with brief descriptions:

IStorageWrapper.IStorageWrapper	14
RdiffBackupWrapper.RdiffBackupWrapper	18
SnapshotManager.SnapshotManager	23

Chapter 4

SnapshotManager File Index

4.1 SnapshotManager File List

Here is a list of all files with brief descriptions:

src/IStorageWrapper.py	25
src/main.py	26
src/RdiffBackupWrapper.py	27
src/SnapshotManager.py	28

Chapter 5

SnapshotManager Namespace Documentation

5.1 Package IStorageWrapper

Classes

- class [IStorageWrapper](#)

5.2 Package main

5.3 Package RdiffBackupWrapper

Classes

- class [RdiffBackupWrapper](#)

5.4 Package SnapshotManager

Classes

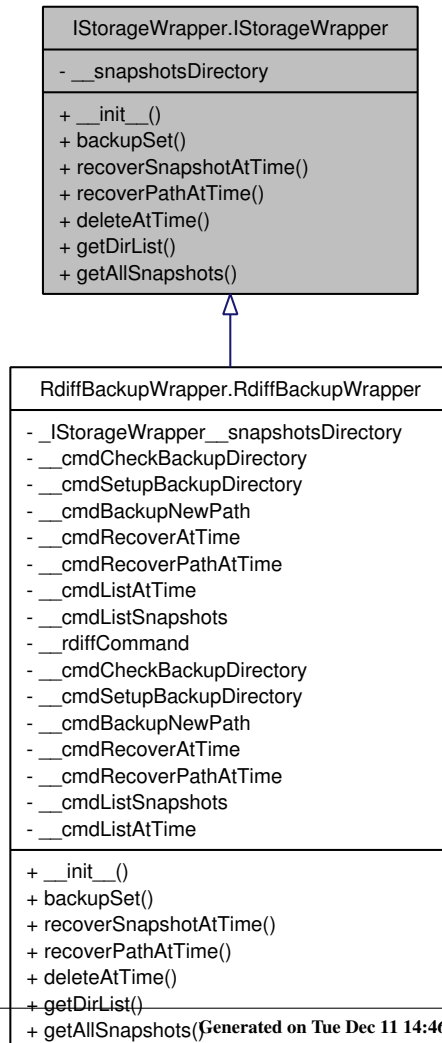
- class [SnapshotManager](#)

Chapter 6

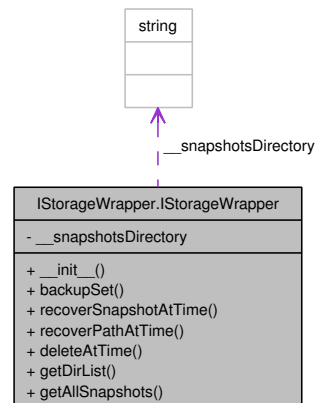
SnapshotManager Class Documentation

6.1 IStorageWrapper.IStorageWrapper Class Reference

Inheritance diagram for IStorageWrapper.IStorageWrapper:



Collaboration diagram for IStorageWrapper.IStorageWrapper:



Public Member Functions

- def [__init__](#)
- def [backupSet](#)
- def [recoverSnapshotAtTime](#)
- def [recoverPathAtTime](#)
- def [deleteAtTime](#)
- def [getDirList](#)
- def [getAllSnapshots](#)

6.1.1 Detailed Description

Abstract class must be extended by classes that manage snapshots.

Author:

Salvador de la Puente González neo.salvador@gmail.com

Definition at line 9 of file IStorageWrapper.py.

6.1.2 Member Function Documentation

6.1.2.1 def IStorageWrapper.IStorageWrapper.__init__ (self)

Default constructor

Parameters:

self ignore it

Reimplemented in [RdiffBackupWrapper.RdiffBackupWrapper](#).

Definition at line 16 of file IStorageWrapper.py.

6.1.2.2 def IStorageWrapper.IStorageWrapper.backupSet (self, setFileSet)

Backups a set of files

Parameters:

- self* ignore it
- setFileSet* a set with absolute paths to files to be backedup

Reimplemented in [RdiffBackupWrapper.RdiffBackupWrapper](#).

Definition at line 22 of file IStorageWrapper.py.

6.1.2.3 def IStorageWrapper.IStorageWrapper.recoverSnapshotAtTime (self, strTime, strTargetPath)

Recovers a snapshot at given time to a given target directory

Parameters:

- self* ignore it
- strTime* time of the backup to be recovered
- strTargetPath* target directory to copy recovered snapshot

Reimplemented in [RdiffBackupWrapper.RdiffBackupWrapper](#).

Definition at line 29 of file IStorageWrapper.py.

6.1.2.4 def IStorageWrapper.IStorageWrapper.recoverPathAtTime (self, strSourcePath, strTime, strTargetPath)

Recovers a given file at given time to a given target directory

Parameters:

- self* ignore it
- strSourcePath* path to recover
- strTime* time of the snapshot to be recovered
- strTargetPath* target directory to copy recovered snapshot

Reimplemented in [RdiffBackupWrapper.RdiffBackupWrapper](#).

Definition at line 37 of file IStorageWrapper.py.

6.1.2.5 def IStorageWrapper.IStorageWrapper.deleteAtTime (self, strTime)

Deletes an specified snapshot at given time

Parameters:

- self* ignore it
- strTime* time of the snapshot to be deleted

Reimplemented in [RdiffBackupWrapper.RdiffBackupWrapper](#).

Definition at line 43 of file IStorageWrapper.py.

6.1.2.6 def IStorageWrapper.IStorageWrapper.getDirList (*self*, *strDir*, *strTime*, *boolRecursive*)

Gets a list of the content of the given directory at given time

Parameters:

self ignore it

strDir directory path to list it content

strTime specify when list operation is performed

boolRecursive if true, then it returns the content of folder and its subfolders. Otherwise, just returns content of folder

Returns:

an array with the content of the folder and some important metadata

Reimplemented in [RdiffBackupWrapper.RdiffBackupWrapper](#).

Definition at line 52 of file IStorageWrapper.py.

6.1.2.7 def IStorageWrapper.IStorageWrapper.getAllSnapshots (*self*)

Gets a list of all snapshot performed by now

Parameters:

self ignore it

Returns:

an array with all snapshots available

Reimplemented in [RdiffBackupWrapper.RdiffBackupWrapper](#).

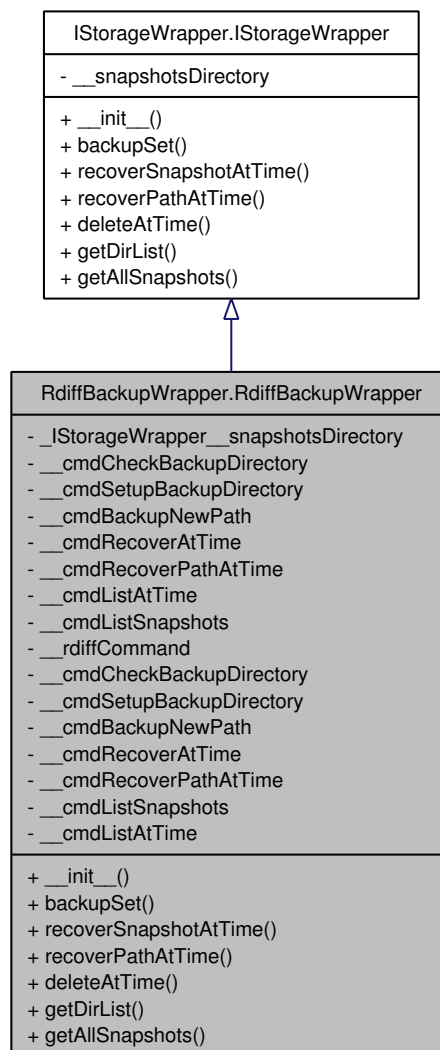
Definition at line 58 of file IStorageWrapper.py.

The documentation for this class was generated from the following file:

- [src/IStorageWrapper.py](#)

6.2 RdiffBackupWrapper.RdiffBackupWrapper Class Reference

Inheritance diagram for RdiffBackupWrapper.RdiffBackupWrapper:



Collaboration diagram for RdiffBackupWrapper.RdiffBackupWrapper:



Public Member Functions

- def [__init__](#)
- def [backupSet](#)
- def [recoverSnapshotAtTime](#)
- def [recoverPathAtTime](#)
- def [deleteAtTime](#)
- def [getDirList](#)
- def [getAllSnapshots](#)

6.2.1 Detailed Description

Wraps rdiff-backup application.

Author:

Salvador de la Puente González neo.salvador@gmail.com

Definition at line 14 of file RdiffBackupWrapper.py.

6.2.2 Member Function Documentation

6.2.2.1 def RdiffBackupWrapper.RdiffBackupWrapper.__init__ (*self*)

rdiff-backup command prototype to list content from a directory at given time TODO: falta este, va a dar problemas porque es una opción inexistente en rdiff-backup Default constructor setups object properly

Parameters:

self ignore it

Reimplemented from [IStorageWrapper.IStorageWrapper](#).

Definition at line 53 of file RdiffBackupWrapper.py.

6.2.2.2 def RdiffBackupWrapper.RdiffBackupWrapper.backupSet (*self*, *setFileSet*)

Backups a set of files

Parameters:

self ignore it

setFileSet a set with absolute paths to files to be backedup

Reimplemented from [IStorageWrapper.IStorageWrapper](#).

Definition at line 92 of file RdiffBackupWrapper.py.

6.2.2.3 `def RdiffBackupWrapper.RdiffBackupWrapper.recoverSnapshotAtTime (self, strTime, strTargetPath)`

Recovers a snapshot at given time to a given target directory

Parameters:

self ignore it
strTime time of the backup to be recovered
strTargetPath target directory to copy recovered snapshot

Reimplemented from [IStorageWrapper.IStorageWrapper](#).

Definition at line 112 of file RdiffBackupWrapper.py.

6.2.2.4 `def RdiffBackupWrapper.RdiffBackupWrapper.recoverPathAtTime (self, strSourcePath, strTime, strTargetPath)`

Recovers a given file at given time to a given target directory

Parameters:

self ignore it
strSourcePath path to recover
strTime time of the snapshot to be recovered
strTargetPath target directory to copy recovered snapshot

Reimplemented from [IStorageWrapper.IStorageWrapper](#).

Definition at line 132 of file RdiffBackupWrapper.py.

6.2.2.5 `def RdiffBackupWrapper.RdiffBackupWrapper.deleteAtTime (self, strTime)`

Deletes an specified snapshot at given time

Parameters:

self ignore it
strTime time of the snapshot to be deleted

Reimplemented from [IStorageWrapper.IStorageWrapper](#).

Definition at line 155 of file RdiffBackupWrapper.py.

6.2.2.6 `def RdiffBackupWrapper.RdiffBackupWrapper.getDirList (self, strDir, strTime, boolRecursive)`

Gets a list of the content of the given directory at given time

Parameters:

self ignore it

strDir directory path to list its content

strTime specify when list operation is performed

boolRecursive if true, then it returns the content of folder and its subfolders. Otherwise, just returns content of folder

Returns:

an array with the content of the folder and some important metadata

Reimplemented from [IStorageWrapper.IStorageWrapper](#).

Definition at line 166 of file RdiffBackupWrapper.py.

6.2.2.7 `def RdiffBackupWrapper.RdiffBackupWrapper.getAllSnapshots (self)`

Gets a list of all snapshots performed by now

Parameters:

self ignore it

Returns:

an array with all snapshots available

Reimplemented from [IStorageWrapper.IStorageWrapper](#).

Definition at line 196 of file RdiffBackupWrapper.py.

The documentation for this class was generated from the following file:

- [src/RdiffBackupWrapper.py](#)

6.3 SnapshotManager.SnapshotManager Class Reference

Public Member Functions

- def [__init__](#)
- def [setup](#)
- def [getStorageManager](#)

6.3.1 Detailed Description

Wraps rdiff-backup application.

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Salvador de la Puente González neo.salvador@gmail.com

Definition at line 10 of file SnapshotManager.py.

6.3.2 Member Function Documentation

6.3.2.1 def SnapshotManager.SnapshotManager.__init__ (*self*)

Default constructor

Parameters:

self ignore it

Definition at line 19 of file SnapshotManager.py.

6.3.2.2 def SnapshotManager.SnapshotManager.setup (*self*, *type*)

Setups the proper storage manager

Parameters:

self ignore it

type indicates the type of storage manager choosen

Definition at line 28 of file SnapshotManager.py.

6.3.2.3 def SnapshotManager.SnapshotManager.getStorageManager (*self*)

Gets the storage manager that can be manipulated as a [IStorageWrapper](#)

Parameters:

self ignore it

Returns:

the storage manager. It can be manipulated as a [IStorageWrapper](#) object

Definition at line 36 of file SnapshotManager.py.

The documentation for this class was generated from the following file:

- [src/SnapshotManager.py](#)

Chapter 7

SnapshotManager File Documentation

7.1 src/IStorageWrapper.py File Reference

Namespaces

- namespace [IStorageWrapper](#)

Classes

- class [IStorageWrapper.IStorageWrapper](#)

7.2 src/main.py File Reference

Namespaces

- namespace [main](#)

7.3 src/RdiffBackupWrapper.py File Reference

Namespaces

- namespace [RdiffBackupWrapper](#)

Classes

- class [RdiffBackupWrapper.RdiffBackupWrapper](#)

7.4 src/SnapshotManager.py File Reference

Namespaces

- namespace [SnapshotManager](#)

Classes

- class [SnapshotManager.SnapshotManager](#)

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