Forum:Hack Forums

Thread: Python backup script If file is already in backup folder then do nothing.

Dcayy - *November 30, 2018, 1:00 am*

Hello, guys. how can I compare all files in every dir and subdirs.
If any file from source dir is already in destination dir then don't backup it again just pass
I have made it now just to copy and paste every file from src to dest dirs every time when scripts is started
As example lets take these directories:
Source directory -> /root/$USER/Desktop
Destination directory -> /root/$USER/backup/Desktop

Skidsuper - *November 30, 2018, 8:56 pm*

If you are checking by simple filename you can raise exception if file exists by passing os.O_EXCL in your open() funtion.
See this for more info.

https://stackoverflow.com/questions/30447221/copy-a-file-but-dont-overwrite-without-tocttou-issues-in-python

caijad - *November 30, 2018, 8:59 pm*

(Nov 30, 2018 02:00 AM)Dcayy Wrote: *[CITE]* Hello, guys. how can I compare all files in every dir and subdirs.
If any file from source dir is already in destination dir then don't backup it again just pass
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As example lets take these directories:
Source directory -> /root/$USER/Desktop
Destination directory -> /root/$USER/backup/Desktop
Code from os import listdir,getcwd,chdir,mkdir
from os.path import isdir,join
from shutil import copy2
from sys import platform
```
def get_first_root():
    return getcwd()

def create_folder(directory):
    try:
        mkdir(directory)
    except:
        pass

def get_name(directory):
    if platform =='win32':
        return directory.split('\\')[-1]
    else:
        return directory.split('/')[-1]

def _directory_destiny(start,name):
```

```
    return join(start,name)

def backup(start,directory_to_copy):
    name=get_name(directory_to_copy)
    root_with_directory=_directory_destiny(start,name)
    create_folder(root_with_directory)
    for file in listdir(directory_to_copy):
        chdir(root_with_directory)
        if isdir(join(directory_to_copy,file)):
            backup(root_with_directory,join(directory_to_copy,file))
        else:
            if file not in listdir(root_with_directory):
                copy2(join(directory_to_copy,file),root_with_directory)
            else:
                print('{} alredy exists'.format(join(directory_to_copy,file)))
```

I Hope that this work for you

Lycosidae024 - *December 1, 2018, 2:37 am*

Also, depending on how you are wanting to implement it, you can use someone similar to this which is pretty simple

Code
```
import os
import shutil
# /root/$USER/Desktop
# /root/$USER/backup/Desktop

source_files = "/root/$USER/Desktop"
destination_files = "/root/$USER/backup/Desktop"
source_files_array = os.listdir(source_files)
destination_files_array = os.listdir(destination_files)

for item in source_files_array:
    if not item in destination_files_array:
        if os.path.isfile(source_files + "/" + item):
            shutil.copy((source_files + "/" + item), destination_files + "/" + item)
```