

Directory Back up and Restore for the cloud

[Directory Back up and Restore for the cloud](#)

[Backup](#)

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The project consists of two python programs.Backup.py and Restore.py One restores another one backs up the given directory. Must use python3 (not python).

Backup

1. Navigate to the directory with program3

```
nps-MacBook-Air-2:Desktop np$ ls
fall_2019          text2          cloud          program3       resume
```

2. Run the Backup.py file

```
nps-MacBook-Air-2:Desktop np$ python3 program3/Backup.py text2
```

3. Output

```
nps-MacBook-Air-2:Desktop np$ python3 program3/Backup.py text2
Created: text2/Backup.py
Created: text2/.DS_Store
Created: text2/makefile
Created: text2/README.md
Created: text2/texts/virus.txt
Created: text2/texts/Untitled.txt
Created: text2/hi/xc.txt
Created: text2/hi/bc.txt
Created: text2/hi/a.txt
nps-MacBook-Air-2:Desktop np$
```

Restore

1. Navigate to the directory with program3 folder

```
nps-MacBook-Air-2:Desktop np$ ls  
fall_2019          text2          cloud          program3       resume
```

2. Run Restore.py MUST be outside program3

```
nps-MacBook-Air-2:Desktop np$ python3 program3/Restore.py text2
```

3. Output

```
nps-MacBook-Air-2:Desktop np$ python3 program3/Restore.py text2  
Created: text2/.DS_Store  
Created: text2/Backup.py  
Created: text2/README.md  
Created: text2/hi/a.txt  
Created: text2/hi/bc.txt  
Created: text2/hi/xc.txt  
Created: text2/makefile  
Created: text2/texts/Untitled.txt  
Created: text2/texts/virus.txt  
nps-MacBook-Air-2:Desktop np$
```

4. Output after backing up text2 folder after restoring

```
nps-MacBook-Air-2:Desktop np$ python3 program3/Backup.py text2  
Rewrote: text2/Backup.py  
Rewrote: text2/.DS_Store  
Rewrote: text2/makefile  
Rewrote: text2/README.md  
Rewrote: text2/texts/virus.txt  
Rewrote: text2/texts/Untitled.txt  
Rewrote: text2/hi/xc.txt  
Rewrote: text2/hi/bc.txt  
Rewrote: text2/hi/a.txt
```

Dependencies

```
nps-MacBook-Air-2:Desktop np$ python3 --version  
Python 3.7.6  
nps-MacBook-Air-2:Desktop np$
```

Testing on local computer MacOS

S3 buckets

[Discover the console](#)

Search for buckets

All access types

+ Create bucket

Edit public access settings

Empty

Delete

2 Buckets

1 Regions

<div><input type="checkbox"/></div> <div>Bucket name</div>	Access	Region	Date created
<div><input type="checkbox"/></div> <div><div></div>cloudbucket12345</div>	Public	US West (Oregon)	Feb 4, 2020 1:45:16 PM GMT-0800
<div><input type="checkbox"/></div> <div><div></div>npovey</div>	Public	US West (Oregon)	Feb 15, 2020 4:43:15 AM GMT-0800

Ran the Backup.py from outside the program3 folder

```
nps-MacBook-Air-2:Desktop np$ python3 program3/Backup.py text2
Created: text2/Backup.py
Created: text2/.DS_Store
Created: text2/makefile
Created: text2/README.md
Created: text2/texts/virus.txt
Created: text2/texts/Untitled.txt
Created: text2/hi/xc.txt
Created: text2/hi/bc.txt
Created: text2/hi/a.txt
nps-MacBook-Air-2:Desktop np$
```

Notice that npovey2 folder appeared.

S3 buckets

[Discover the console](#)

Search for buckets

+ Create bucket




Edit public access settings

Empty

Delete

3 Buckets

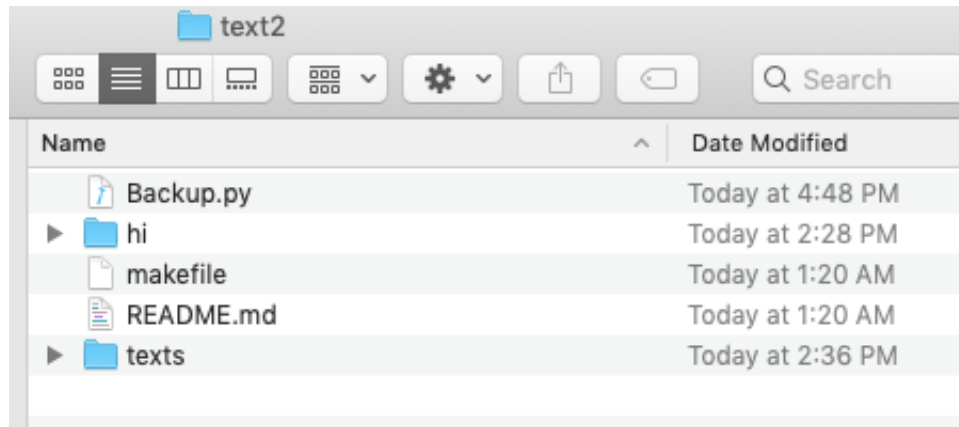
1 Regions

<input type="checkbox"/>	Bucket name	Access	Region	Date created
<input type="checkbox"/>	 cloudbucket12345	Public	US West (Oregon)	Feb 4, 2020 1:45:16 PM GMT-0800
<input type="checkbox"/>	 npovey	Public	US West (Oregon)	Feb 15, 2020 4:43:15 AM GMT-0800
<input type="checkbox"/>	 npovey2	Objects can be public	US West (Oregon)	Feb 16, 2020 3:20:43 PM GMT-0800

Ran the same command the second time

```
nps-MacBook-Air-2:Desktop np$ python3 program3/Backup.py text2
Already Backed Up: text2/Backup.py
Already Backed Up: text2/.DS_Store
Already Backed Up: text2/makefile
Already Backed Up: text2/README.md
Already Backed Up: text2/texts/virus.txt
Already Backed Up: text2/texts/Untitled.txt
Already Backed Up: text2/hi/xc.txt
Already Backed Up: text2/hi/bc.txt
Already Backed Up: text2/hi/a.txt
nps-MacBook-Air-2:Desktop np$
```

Edit Backup.py and try again



```
nps-MacBook-Air-2:Desktop np$ python3 program3/Backup.py text2
Rewrote: text2/Backup.py
Rewrote: text2/.DS_Store
Already Backed Up: text2/makefile
Already Backed Up: text2/README.md
Already Backed Up: text2/texts/virus.txt
Already Backed Up: text2/texts/Untitled.txt
Already Backed Up: text2/hi/xc.txt
Already Backed Up: text2/hi/bc.txt
Already Backed Up: text2/hi/a.txt
nps-MacBook-Air-2:Desktop np$
```