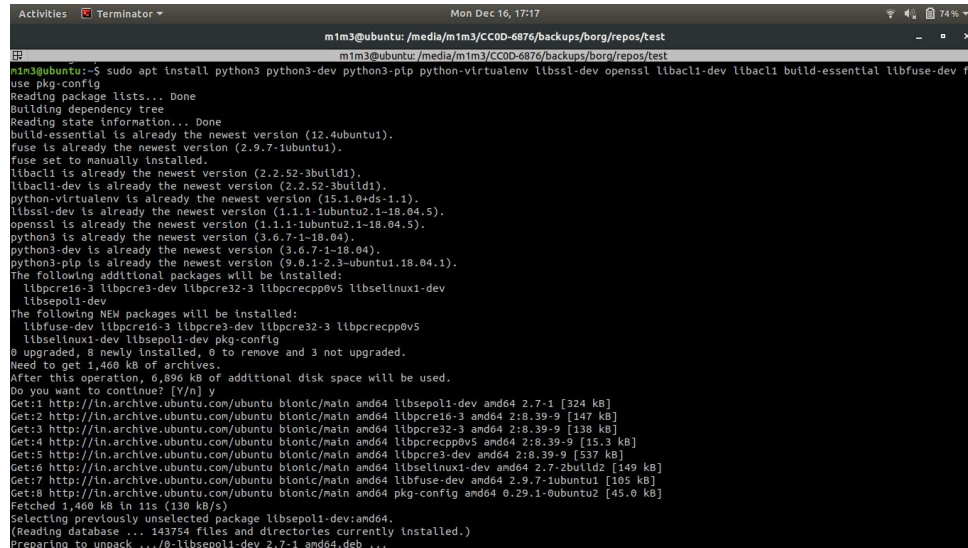


USING BORG BACKUP

1. Installing Borg Dependencies:

```
sudo apt install python3 python3-dev python3-pip python-virtualenv libssl-dev openssl  
libacl1-dev libacl1 build-essential libfuse-dev fuse pkg-config
```



```
Mon Dec 16, 17:17
m1m3@ubuntu: /media/m1m3/CC00-6876/backups/borg/repos/test
m1m3@ubuntu: /media/m1m3/CC00-6876/backups/borg/repos/test
m1m3@ubuntu:~$ sudo apt install python3 python3-dev python3-pip python-virtualenv libssl-dev openssl libacl1-dev libacl1 build-essential libfuse-dev fuse pkg-config
Reading package lists... Done
Building dependency tree
Reading state information... Done
build-essential is already the newest version (12.4ubuntu1).
fuse is already the newest version (2.9.7-1ubuntu1).
fuse set to manually installed.
libacl1 is already the newest version (2.2.52-3build1).
libacl1-dev is already the newest version (2.2.52-3build1).
python-virtualenv is already the newest version (15.1.0+ds-1.1).
libssl-dev is already the newest version (1.1.1-1ubuntu2.1-18.04.5).
openssl is already the newest version (1.1.1-1ubuntu2.1-18.04.5).
python3 is already the newest version (3.6.7-1-18.04).
python3-dev is already the newest version (3.6.7-1-18.04).
python3-pip is already the newest version (9.0.1-2.3-ubuntu1.18.04.1).
The following additional packages will be installed:
  libpcrc16-3 libpcrc16-dev libpcrc32-3 libpcrcpp0v5 libselinux1-dev
  libsepol1-dev
The following NEW packages will be installed:
  libfuse-dev libpcrc16-3 libpcrc16-dev libpcrc32-3 libpcrcpp0v5
  libselinux1-dev libsepol1-dev pkg-config
0 upgraded, 8 newly installed, 0 to remove and 3 not upgraded.
Need to get 1,460 kB of archives.
After this operation, 6,896 kB of additional disk space will be used.
Do you want to continue? [Y/n] y
Get:1 http://in.archive.ubuntu.com/ubuntu bionic/main amd64 libsepol1-dev amd64 2.7-1 [324 kB]
Get:2 http://in.archive.ubuntu.com/ubuntu bionic/main amd64 libpcrc16-3 amd64 2:8.39-9 [147 kB]
Get:3 http://in.archive.ubuntu.com/ubuntu bionic/main amd64 libpcrc32-3 amd64 2:8.39-9 [138 kB]
Get:4 http://in.archive.ubuntu.com/ubuntu bionic/main amd64 libpcrcpp0v5 amd64 2:8.39-9 [15.3 kB]
Get:5 http://in.archive.ubuntu.com/ubuntu bionic/main amd64 libpcrc3-dev amd64 2:8.39-9 [537 kB]
Get:6 http://in.archive.ubuntu.com/ubuntu bionic/main amd64 libselinux1-dev amd64 2.7-2build2 [149 kB]
Get:7 http://in.archive.ubuntu.com/ubuntu bionic/main amd64 libfuse-dev amd64 2.9.7-1ubuntu1 [105 kB]
Get:8 http://in.archive.ubuntu.com/ubuntu bionic/main amd64 pkg-config amd64 0.29.1-0ubuntu2 [45.0 kB]
Fetched 1,460 kB in 11s (130 kB/s)
Selecting previously unselected package libsepol1-dev:amd64.
(Reading database ... 143754 files and directories currently installed.)
Preparing to unpack .../0-libsepol1-dev 2.7-1 amd64.deb ...
```

2. Setting up Borg

- `mkdir -p /media/m1m3/CC08-6876/backups/borg/repos/test/`
- `cd /media/m1m3/CC08-6876/backups/borg/repos/`
- `borg --verbose init --encryption=None test`
- `cat README`
- `borg --verbose --progress create --stats --comment "Initial backup of my dev files." /media/m1m3/CC08-6876/backups/borg/repos/test/:firstbackup /home/m1m3/gci/borg-backup`

```
min3@ubuntu:~$ cd /media/min3/CC00-6876/backups/borg/repos
min3@ubuntu:~/media/min3/CC00-6876/backups/borg/repos$ ls
test
min3@ubuntu:~/media/min3/CC00-6876/backups/borg/repos$ cd test
min3@ubuntu:~/media/min3/CC00-6876/backups/borg/repos/test$ touch test.py
min3@ubuntu:~/media/min3/CC00-6876/backups/borg/repos/test$ touch test.txt
min3@ubuntu:~/media/min3/CC00-6876/backups/borg/repos/test$ cd ../
min3@ubuntu:~/media/min3/CC00-6876/backups/borg/repos$ borg --verbose init --encryption=none test/
here is already something at /media/min3/CC00-6876/backups/borg/repos/test.
min3@ubuntu:~/media/min3/CC00-6876/backups/borg/repos$ borg --verbose rm -rf test/
min3@ubuntu:~/media/min3/CC00-6876/backups/borg/repos$ mkdir test
min3@ubuntu:~/media/min3/CC00-6876/backups/borg/repos$ borg --verbose init --encryption=none test/
initializing repository at "test"
Encryption NOT enabled.
Use the "--encryption=repokey|keyfile" to enable encryption.
Synchronizing chunks cache...
Archives: 0, w/ cached Idx: 0, w/ outdated Idx: 0, w/o cached Idx: 0.
Done.
min3@ubuntu:~/media/min3/CC00-6876/backups/borg/repos$ ^C
min3@ubuntu:~/media/min3/CC00-6876/backups/borg/repos$ cat README
cat: README: No such file or directory
min3@ubuntu:~/media/min3/CC00-6876/backups/borg/repos$ ls
test
min3@ubuntu:~/media/min3/CC00-6876/backups/borg/repos$ cd test/
min3@ubuntu:~/media/min3/CC00-6876/backups/borg/repos/test$ ls
config data hints.1 index.1 integrity.1 README
min3@ubuntu:~/media/min3/CC00-6876/backups/borg/repos/test$ cat README
Hints: a borg backup repository.
See https://borgbackup.readthedocs.io/
min3@ubuntu:~/media/min3/CC00-6876/backups/borg/repos/test$
```

3. Checking Borg Status:

- `borg --verbose info --last 1 /media/m1m3/CC08-6876/backups/borg/repos/test/`
- `borg --verbose list --short --last 1 /media/m1m3/CC08-6876/backups/borg/repos/test/`

```

Activities Terminator Mon Dec 16, 17:16
m1m3@ubuntu: ~/gci
m1m3@ubuntu: ~/gci
m1m3@ubuntu:~/gci$ borg --verbose --progress create --stats --comment "Initial backup of my dev files." /media/m1m3/CC00-6876/backups/borg/repos/test/::firstbackup /home/m1m3/gci/borg-backup/
Archive name: firstbackup
Archive fingerprint: 524ea64cc7cee0b5a680896c8188c828d46a88bd54da89222c1d68e57626b26
Time (start): Mon, 2019-12-16 17:13:42
Time (end): Mon, 2019-12-16 17:13:42
Duration: 0.00 seconds
Number of files: 0
Utilization of max. archive size: 0%
-----
This archive:      Original size    Compressed size    Deduplicated size
All archives:      711 B           628 B              628 B
                   711 B           628 B              628 B
-----
Chunk index:      Unique chunks    Total chunks
                  2              2

```

```

min3@ubuntu:~/gct$ borg --verbose info --last 1 /media/min3/CC00-6876/backups/borg/repos/test/
Archive name: firstbackup
Archive fingerprint: 524ea6a4cc7cee0b5a600896c8188c828d44a688bd54da89222c1d68e5762eb26
Comment: Initial backup of my dev files.
Hostname: ubuntu
Username: min3
Time (start): Mon, 2019-12-16 17:13:42
Time (end): Mon, 2019-12-16 17:13:42
Duration: 0.00 seconds
Number of files: 0
Command line: /usr/bin/borg --verbose --progress create --stats --comment 'Initial backup of my dev files.' /media/min3/CC00-6876/backups/borg/repos/test::firstbackup /home/min3/gct/borg-backup/
Utilization of maximum supported archive size: 0%
-----

```

| | Original size | Compressed size | Deduplicated size |
|---------------|---------------|-----------------|-------------------|
| This archive: | 711 B | 628 B | 628 B |
| All archives: | 711 B | 628 B | 628 B |

```

-----
Unique chunks          Total chunks
Chunk index:          2          2
min3@ubuntu:~/gct$ borg --verbose list --short --last 1 /media/min3/CC00-6876/backups/borg/repos/test
firstbackup

```

