

# Borg

Deduplicating archiver with compression and encryption [BorgBackup](#) (short: Borg) gives you:

- Space efficient storage of backups.
- Secure, authenticated encryption.
- Compression: LZ4, zlib, LZMA, zstd (since borg 1.1.4).
- Mountable backups with FUSE.
- Easy installation on multiple platforms: Linux, macOS, BSD, ...
- Free software (BSD license).
- Backed by a large and active open source community.

## Packages

```
pacman -S borg python-llfuse
```

borg package needs to be installed on the backup server and client. python-llfuse is for mounting a backup.

Both [llfuse](#) and [pyfuse3](#) are no longer maintained - as of 29.05.2022.

## Backup

If you just want to get this done, go to our [backup section](#) which includes the borg script.

Below you will find some command examples/information.

### Create repo

```
borg init --encryption=keyfile-blake2 --make-parent-dirs borg/
```

### Create backup with encryption

```
borg create --stats --list --progress --verbose --filter AMEhsx --show-version --show-rc --exclude-caches --compression zstd,ll borg/::'{hostname}-{now}' .config/ --comment first_backup
```

### Different encryption methods

#### Key in repository, repokey encryption, BLAKE2b (often faster, since Borg 1.1)

The key will be placed in your backup repository.

```
borg init --encryption=repokey-blake2 /path/to/repo
```

## Local repository (no encryption)

```
borg init --encryption=none /path/to/repo
```

## Keyfile

The key gets stored in your home dir - ~/.config/borg/keys/.

```
borg init --encryption=keyfile user@hostname:backup
```

## Remote / SSH including storage quota

```
borg init --encryption=keyfile-blake2 --storage-quota (e.g. 5G, 1.5T) --  
make-parent-dirs ssh://username@remote.host.address:$port/~/.borg
```

## List / Mount / umount backup

```
borg list /path
```

```
mkdir /path/mount/  
borg mount .::Tuesday /path/mount/
```

```
borg mount repo/ /path/mount/
```

```
borg umount .::Tuesday /path/mount/  
borg umount repo/ /path/mount/
```

The path must be writable for borg! A path created in the home folder means that the mount folder must be writable for the home user.

## Difference between two backups

```
borg diff repo/::archive-2022-02-14T23:18:18 archive-2022-02-14T23:26:10
```

## Delete

If you want to delete your backup for good, run the command without --dry-run.

```
borg delete --dry-run --stats repo/  
borg delete --dry-run --stats repo/::archive-2022-02-14T23:26:10
```

## Info

```
borg info repo/  
borg info repo/::archive-2022-02-14T23:26:10
```

## Restore/extract

If you want to restore, run the command without `--dry-run`.

```
borg extract --dry-run repo/::archive-2022-02-14T23:26:10
```

## Check/verify data

```
borg check repo/  
borg check repo/::archive-2022-02-14T23:26:10  
borg check --verify-data repo/  
borg check --verify-data repo/::archive-2022-02-14T23:26:10
```

## Borg website

More information can also be found on [borgs website](https://wiki.techsaviours.org/en/server/services/borg) as well.

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Last update: **2023/08/10 03:37**

