restic Encrypted backups

CONCEPTS

Set RESTIC_REPOSITORY and RESTIC_PASSWORD_FILE once, then every command works without -r.

Files your data
↓ backup
Snapshot deduplicated, encrypted
↓ forget
Unreferenced data still in repo
↓ prune
Space freed repo shrinks

Lose the password and the data is gone: there is no recovery. Store it separately from the repo.

REPOSITORY

restic init
Create a new repository

restic -r *<repo> <command>*
Select a repository for one command

export RESTIC_REPOSITORY=*<repo>*
Set the default repository

export RESTIC_PASSWORD_FILE=*<file>*
Read the password from a file

restic -r sftp:*<user>*@*<host>*:*<path>* **init**
Repository over SFTP

restic -r s3:https://*<host>*/*<bucket>* **init**
S3-compatible repository

BACKUP

restic backup *<path>*...
Back up paths into a new snapshot

restic backup -n -v *<path>*
Dry run, show what would be added

restic backup --exclude "*<pattern>***"** *<path>*
Skip matching files

restic backup --exclude-file *<file> <path>*
Read exclude patterns from a file

restic backup --tag *<tag> <path>*
Label the snapshot

SNAPSHOTS

restic snapshots
List snapshots

restic ls latest
List files in a snapshot

restic find *<pattern>*
Search all snapshots for a file

restic diff *<id1> <id2>*
Compare two snapshots

restic forget *<id>*
Remove one snapshot

RESTORE

restic restore *<id>* **--target** *<dir>*
Restore a snapshot

restic restore latest --target *<dir>*
Restore the newest snapshot

restic restore latest:*<subdir>* **--target** *<dir>*
Restore only one subfolder

restic dump latest *<file>*
Print one file to stdout

restic mount *<dir>*
Mount the repo via FUSE

RETENTION

restic forget --keep-last *<n>*
Keep the n newest snapshots

restic forget --keep-daily *<n>* **--keep-weekly** *<n>* **--keep-monthly** *<n>*
Tiered retention policy

restic forget --dry-run *<keep-flags>*
Preview what would be removed

restic forget --prune *<keep-flags>*
Forget and reclaim space

restic prune
Delete unreferenced data

MAINTENANCE

restic check
Verify repo structure

restic unlock
Remove stale locks