

# Backup and Restore Tool

This is a backup tool written in Bash for backing up directories and transferring them to a remote server.

## Features:

- Backs up files modified within a specified timeframe.
- Encrypts backups using GPG for security.
- Transfers encrypted backups to a remote server.

## Requirements:

- Bash shell
- `gpg` command-line tool

## Usage:

### Backup:

```
./backup.sh <source_dir> <dest_dir> <encryption_key> <num_days>
```

- `<source_dir>`: The directory containing the files to be backed up (absolute path).
- `<dest_dir>`: The local directory to store the backup (absolute path). A timestamped subdirectory will be created within this directory.
- `<encryption_key>`: The path to the GPG key file used for encryption.
- `<num_days>`: The number of days to look back for modified files (integer). Only files modified within this timeframe will be backed up.

### Example:

```
bash backup.sh temp backups my_key.gpg 1
```

This will back up files modified within the last day from the `temp` directory to the `/backups` directory. The backup will be encrypted using the `my_key.gpg` file.

### Restore:

```
bash restore.sh <backup_dir> <restore_dir> <encryption_key>
```

- `<backup_dir>`: The directory containing the encrypted backup files (absolute path).

- `<restore_dir>`: The directory where the restored files will be placed (absolute path).
- `<encryption_key>`: The path to the GPG key file used for decryption (same key used for backup).