

# Backup linux to OneDrive

Saturday, 27 February 2021 11:37 AM

## rclone Setup

I need to use Rclone on a headless server, so in order to set up Rclone on this headless server, I also needed to download and extract Rclone.exe on a computer that has an OAuth capable web browser. In my case, I used my Windows desktop, so instructions will be for that.

Install Rclone on your Linux server:

```
debain apt install rclone
```

Configure Rclone:

```
rclone config
```

Follow the prompts shown in the “Rclone OneDrive Setup” reference at the bottom of this page.

When you get to the following area pictured below, select NO, then refer to the “Rclone Remote (headless) Setup” reference:

On your desktop with an OAuth-capable browser, open a CLI window, then enter the following command:

```
rclone.exe authorize "onedrive"
```

After you are finished on the Windows desktop, copy the code it gives to your Linux server when specified.

Finish out the config wizard.

Test the Rclone connection on your Linux server using the following command:

```
rclone lsd remote:
```

It should list your top level directories on OneDrive.

## Backing Up

Back up a folder:

HomePi:

```
/usr/bin/rclone sync /usr/share/hassio OneDrive:HomePiBackup/hass -L --copy-links --exclude-from /usr/local/backup_excludes --syslog
```

AzureWeb01:

```
rclone sync /etc OneDrive:Backups/AzureWeb01/SysConfig -L --copy-links -vv
```

Where exclude-from contains files you don't want to back up, in this case for home assistant we use this in that file:

```
.bash_history/  
.lesshst  
.ssh/  
.cache/  
tmp/  
*.core  
home-assistant_v2.db  
OZW_Log.txt  
home-assistant.log  
.google.token
```

## Restoring

To restore, enter the following similar command:

No automated restore as yet other than an rclone sync command. [https://rclone.org/commands/rclone\\_sync/](https://rclone.org/commands/rclone_sync/)

## Navigating Repos

List available snapshots in your Rclone repo:

```
restic -r rclone:remote:TGServBackup snapshots
```

## Removing Stale Snapshots

You can set up policy to automatically remove old snapshots and to set the retention policy. There's not a whole lot of sense duplicating the instructions, as they are so basic, so here's the direct link:

[https://restic.readthedocs.io/en/stable/060\\_forget.html#removing-snapshots-according-to-a-policy](https://restic.readthedocs.io/en/stable/060_forget.html#removing-snapshots-according-to-a-policy)

## Useful Commands

- To copy a file or folder to your Rclone OneDrive remote:  

```
rclone copy /home/user/directory remote:FolderName
```

  

```
rclone copy /home/user/file remote:FolderName
```

## References

Preparing a new Restic repo – Other Services via rclone:

[https://restic.readthedocs.io/en/stable/030\\_preparing\\_a\\_new\\_repo.html#other-services-via-rclone](https://restic.readthedocs.io/en/stable/030_preparing_a_new_repo.html#other-services-via-rclone)

Rclone OneDrive setup:

<https://rclone.org/onedrive/>

Rclone Remote (headless) setup:

[https://rclone.org/remote\\_setup/](https://rclone.org/remote_setup/)

Restic Backing up Reference:

[https://restic.readthedocs.io/en/stable/040\\_backup.html](https://restic.readthedocs.io/en/stable/040_backup.html)

From <<https://timothygruber.com/backup-and-restore/back-up-linux-vps-to-onedrive-via-restic-and-rclone/>>

Crontab schedule: (does backups as root and logs to syslog.

# m h dom mon dow command

0 2 \* \* 1 /usr/bin/rclone sync /conf OneDrive:Backups/RouterOPNsense/Backup -L --copy-links --exclude-from /usr/local/backup\_excludes --syslog 2>&1 | /usr/bin/logger -t BACKUP

0 1 \* \* 1 /usr/bin/rclone sync /etc OneDrive:Backups/RouteOPNsense/SystemConfig -L --copy-links --syslog 2>&1 | /usr/bin/logger -t BACKUP

0 3 \* \* 1 /usr/bin/rclone sync /usr/local OneDrive:Backups/RouteOPNsense/SystemConfig -L --copy-links --syslog 2>&1 | /usr/bin/logger -t BACKUP