# Getting started with rclone for RackCorp S3 storage - Windows

rclone is an open source multi-platform tool for managing your cloud file storage. Multiple storage providers are supported natively including the large hyper-scalers as well as regional niche providers.

RackCorp S3 Storge is natively supported in rclone making setup straight forward.

As a command line based tool, rclone by itself is sufficent for transferring files and managing your S3 bucket on rackcorp. Integration withing the OS via a driver letter or folder-path is available via OS file system drivers. WinFSP, an optional install, enables FUSE integration with rclone to provide a drive letter or path for your S3 buckets on Windows.

## Downloads

https://rclone.org/downloads/ (please download stable ver unless advised by tech support)

https://github.com/winfsp/winfsp/releases/ (optional, required for drive letter/folder function)

- Unzip rclone into a easily accessible directory
- Open a command prompt and navigate to that directory
- Run rclone config

### Setup and configure rclone

Microsoft Windows [Version 10.0.19045.2311]
(c) Microsoft Corporation. All rights reserved.
C:\WINDOWS\system32>cd %userprofile%\Downloads\rclone\
C:\Users\KngtRider\Downloads\rclone>rclone config

## Setup

C:\Users\KngtRider\Downloads\rclone>rclone config

```
No remotes found - make a new one
```

- n) New remote
- s) Set configuration password

q) Quit config
n/s/q>

Select New Remote and give it a friendly name

Name> type "rackcorpS3" or whatever you want

Choose your storage backend type

Select Item 4, Amazon Compatible S3

```
6 / IBM COS S3
   \ "IBMCOS"
7 / Minio Object Storage
   \ "Minio"
8 / Netease Object Storage (NOS)
   \ "Netease"
```

- 9 / RackCorp Object Storage
  - \ "RackCorp"

Select item 9, Rackcorp

Select Item 2, Enter Credentials

Option access\_key\_id. AWS Access Key ID. Leave blank for anonymous access or runtime credentials. Enter a string value. Press Enter for the default (""). access\_key\_id>

Generate and grab your credentials from the RackCorp Portal

## RackCorp

## **STORAGE**

SFTP H	OSTS	SFTP USERS	S3 CREDENTIALS	S3 BUCKETS	;		
	_						
ADD NI	EW			Search:		clyde84	
nowing 1	to 1 of 1 entri	ies (filtered from 12	8 total entries)				
ID	t↓	Credential Na	ame	ţ↓	Acces	s KEY	ţ†
I,	403	clyde84			KDTTI5T		
Search:	clyde84		Show 🗢 entr	ries Previous	5 1	Next	

#### Lets enter

#### KDTTI5TWN4L4Y1JNH837

Option secret\_access\_key. AWS Secret Access Key (password). Leave blank for anonymous access or runtime credentials. Enter a string value. Press Enter for the default (""). secret\_access\_key>

Grab your key and secret from the RackCorp portal, remembering that is is a one-timeoperation and your secret will no longer be available once it is first viewed

RackCorp		NEW S3 CREDENTIALSUPDATE S3 CREDENTIALS		
STORAGE				
SFTP HOSTS SFTP USERS S3 CREDENTIALS	S3 BUCKETS	Import: Please, take a note of the password generated and save in a safe place. This information will not be available anywhere else.		
ADD NEW	Search:	S3 Prices		
Showing 1 to 1 of 1 entries (filtered from 129 total entries)		S3 storage per month per GBS3 download tPrice: \$0.00Price: \$0.00	traffic per GB	
ID	1) Access KEY	Here is your access key and secret. Please note that the secret key will no longer		
407 clyde86	OG4CONUEWUQEIVUTFI9F	be visible once you close this box ACCESS KEY: <b>OG4CONUEWUQEIVUTFI9F</b>		
Search: Clyde86 Show ¢ entries	Previous 1 Next	SECRET: 1A+Nswu25EF6oxEKHzW3SjDuwSBjK1k8GQ	73WMQk	
			Close	



```
\ "kg"
12 / Jakarta (Indonesia) Region
  \ "id"
13 / Tokyo (Japan) Region
  \ "jp"
14 / SG (Singapore) Region
  \ "sg"
15 / Frankfurt (Germany) Region
  \ "de"
16 / USA (AnyCast) Region
   \ "us"
17 / New York (USA) Region
  \ "us-east-1"
18 / Freemont (USA) Region
  \ "us-west-1"
19 / Auckland (New Zealand) Region
   \ "nz"
```

Choose 2, AUS

```
Location constraint - the location where your bucket will be located and your data stored.
Enter a string value. Press Enter for the default ("").
Choose a number from below, or type in your own value.
1 / Global CDN Region
  \ "global"
2 / Australia (All locations)
  \ "au"
3 / NSW (Australia) Region
  \ "au-nsw"
4 / QLD (Australia) Region
  \ "au-qld"
5 / VIC (Australia) Region
  \ "au-vic"
6 / Perth (Australia) Region
  \ "au-wa"
7 / Manila (Philippines) Region
  \ "ph"
8 / Bangkok (Thailand) Region
  \ "th"
```

```
9 / HK (Hong Kong) Region
  \ "hk"
10 / Ulaanbaatar (Mongolia) Region
   \ "mn"
11 / Bishkek (Kyrgyzstan) Region
   \ "kg"
12 / Jakarta (Indonesia) Region
   \ "id"
13 / Tokyo (Japan) Region
  \ "jp"
14 / SG (Singapore) Region
  \ "sg"
15 / Frankfurt (Germany) Region
   \ "de"
16 / USA (AnyCast) Region
  \ "us"
17 / New York (USA) Region
   \ "us-east-1"
18 / Freemont (USA) Region
   \ "us-west-1"
19 / Auckland (New Zealand) Region
   \ "nz"
```

Choose 2, AUS

```
□Option acl.
□Canned ACL used when creating buckets and storing or copying objects.
[This ACL is used for creating objects and if bucket_acl isn't set, for creating buckets too.
[For more info visit https://docs.aws.amazon.com/AmazonS3/latest/dev/acl-overview.html#canned-
acl
□Note that this ACL is applied when server-side copying objects as S3
□doesn't copy the ACL from the source but rather writes a fresh one.
□Enter a string value. Press Enter for the default ("").
□Choose a number from below, or type in your own value.
  / Owner gets FULL_CONTROL.
Π
□ 1 | No one else has access rights (default).
□ \ "private"
_ / Owner gets FULL_CONTROL.
□ 2 | The AllUsers group gets READ access.
□ \ "public-read"
```

```
/ Owner gets FULL_CONTROL.
□ 3 | The AllUsers group gets READ and WRITE access.
\hfill 
          \ "public-read-write"
Π
           / Owner gets FULL_CONTROL.
\square 4 | The AuthenticatedUsers group gets READ access.
□ \ "authenticated-read"
           / Object owner gets FULL_CONTROL.
Π
□ 5 | Bucket owner gets READ access.
           | If you specify this canned ACL when creating a bucket, Amazon S3 ignores it.
\ "bucket-owner-read"
Π
           / Both the object owner and the bucket owner get FULL CONTROL over the object.
\square 6 | If you specify this canned ACL when creating a bucket, Amazon S3 ignores it.
```

```
\ "bucket-owner-full-control"
```

Choose 1 For owner full control over your files with no public access

[Edit advanced config? [y) Yes [n) No (default) y/n>

Choose N

Summary of settings is next displayed

```
[ [rackcorps3]
[type = s3
[provider = RackCorp
[env_auth = false
[access_key_id = OG4CONUEWUQEIVUTFI9F
[secret_access_key = tA+Nswu25EF6oxEKHzW3SjDuwSBjK1k8GQ73WMQk
[region = au
[endpoint = au.s3.rackcorp.com
[location_constraint = au-nsw
[acl = private
[-------
[y) Yes this is OK (default)
[e) Edit this remote
d) Delete this remote
```

Press Y to accept changes. You are returned to the main menu.

□Name	Туре		
[]====	====		
□rackcorps3	s3		
□e) Edit existing rem	ote		
□n) New remote			
□d) Delete remote			
□r) Rename remote			
□c) Copy remote			
<pre>□s) Set configuration</pre>	password		
□q) Quit config			
e/n/d/r/c/s/q>			

Q to quit back to the command prompt.

#### Connect rclone to a drive letter or folder-path on the operating system

Where rackcorps3: is your friendly connection name from setup and s: can be a spare drive letter not in use by your system



```
C:\Users\KngtRider\Downloads\rclone>rclone.exe mount rackcorps3: s:
The service rclone has been started.
```

This will launch drive letter on demand. Once the process/rclone window is closed, the drive letter will be unmounted.



## **Advanced Setup Topics**

## Autostart on Windows

The following code will establish a windows service that will mount the S3 drive letter on startup but via a context that is visible to all users of the computer

For this guidance, we assume the rclone is unzipped to c:\rclone. If you are following the above instructions, change the path for rclone to the exact path you used in those instructions, eg c:\users\yourwindowsusername\Downloads\rclone

- Open a command prompt and navigate to c:\rclone
- Execute Powershell by running powershell at the cmd prompt

c:\rclone>powershell Windows PowerShell Copyright (C) Microsoft Corporation. All rights reserved.	
Try the new cross-platform PowerShell https://aka.ms/pscore6	
PS C:\rclone>	

• At the powershell prompt enter this command to create the new rclone service

```
New-Service -Name Rclone -BinaryPathName 'c:\rclone\rclone.exe mount rackcorps3: S: --config
c:\rclone\rclone.conf --log-file c:\rclone\mount.txt'
```

Administrator: Command Prompt - powershell
c:\rclone>powershell Windows PowerShell Copyright (C) Microsoft Corporation. All rights reserved.
Try the new cross-platform PowerShell https://aka.ms/pscore6
PS C:\rclone> New-Service -Name Rclone -BinaryPathName 'c:\rclone\rclone.exe mount rackcorps3: S:config c:\rclone\rclone.conflog-file c:\rclone\mount.txt'

Where:

- c:\rclone\ is your path to rclone
- rackcorps3: is the friendly name for your S3 instance
- S: is the desired drive letter

Providing all the parameters are correct including keys, the service should execute as its set to automatic mode and the drive letter S: should appear.

To manually interact with the service, use 'net stop rclone' and 'net start rclone' at the windows command prompt

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