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.

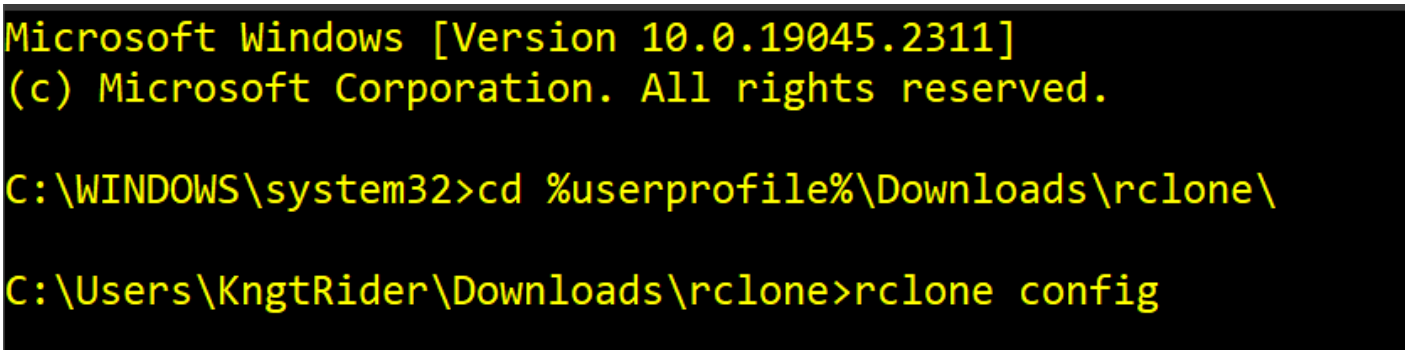
Downloads

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



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

```
name> rackcorps3
Option Storage.
Type of storage to configure.
Enter a string value. Press Enter for the default ("").
Choose a number from below, or type in your own value.
 1 / 1Fichier
   \ "fichier"
 2 / Alias for an existing remote
   \ "alias"
 3 / Amazon Drive
   \ "amazon cloud drive"
 4 / Amazon S3 Compliant Storage Providers including AWS, Alibaba, Ceph, Digital Ocean,
Dreamhost, IBM COS, Minio, RackCorp, SeaweedFS, and Tencent COS
   \ "s3"
```

Select Item 4, Amazon Compatible S3

```
Storage> 4
Option provider.
Choose your S3 provider.
Enter a string value. Press Enter for the default ("").
Choose a number from below, or type in your own value.
 1 / Amazon Web Services (AWS) S3
   \ "AWS"
 2 / Alibaba Cloud Object Storage System (OSS) formerly Aliyun
   \ "Alibaba"
 3 / Ceph Object Storage
   \ "Ceph"
 4 / Digital Ocean Spaces
   \ "DigitalOcean"
 5 / Dreamhost DreamObjects
   \ "Dreamhost"
```

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

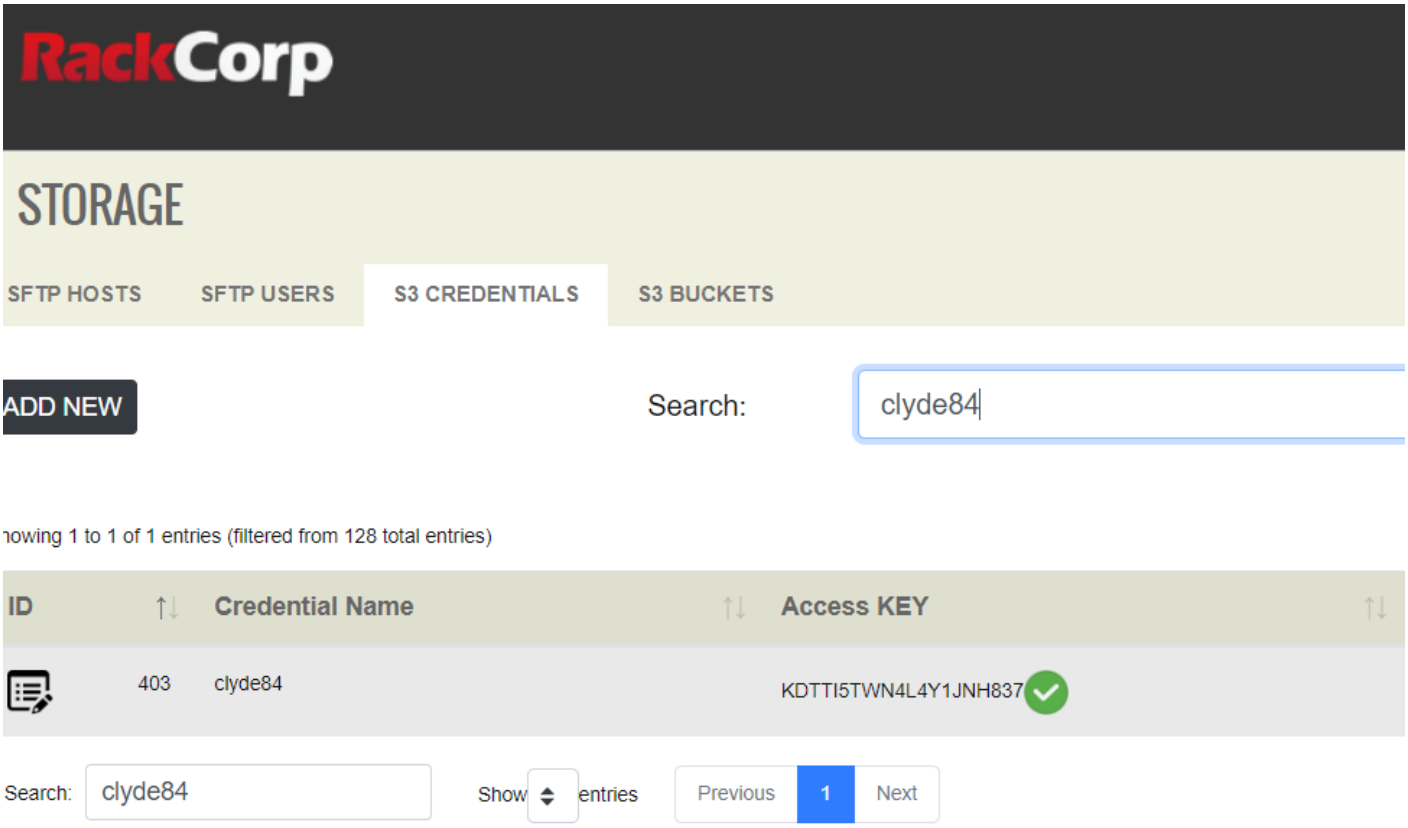
Select item 9, Rackcorp

```
Choose a number from below, or type in your own value.
 1 / Enter AWS credentials in the next step.
   \ "false"
 2 / Get AWS credentials from the environment (env vars or IAM).
   \ "true"
```

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

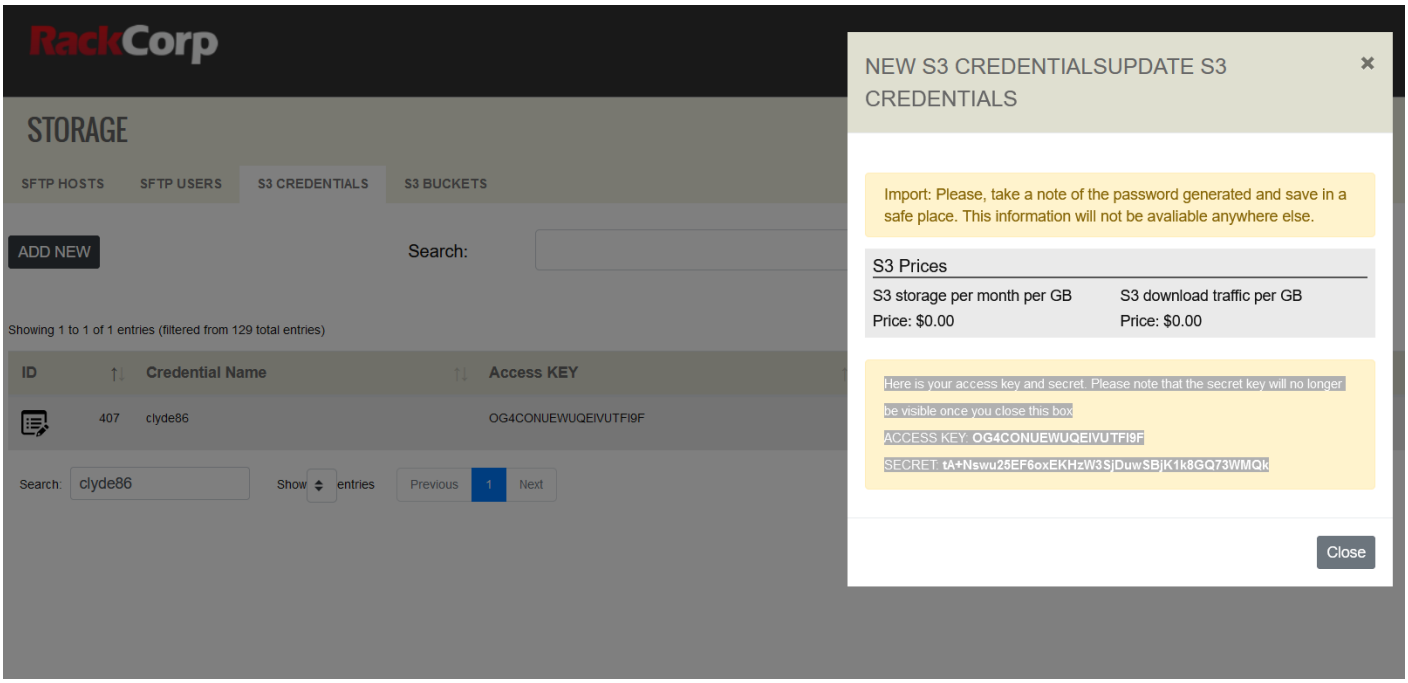


Lets enter

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-time-operation and your secret will no longer be available once it is first viewed




```
Option region.
region - the location where your bucket will be created 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 (All locations) Region
   \ "global"
 2 / Australia (All states)
   \ "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

```
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.
 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.
   | Granting this on a bucket is generally not recommended.
   \ "public-read-write"
   / Owner gets FULL_CONTROL.
 4 | The AuthenticatedUsers group gets READ access.
   \ "authenticated-read"
   / Object owner gets FULL_CONTROL.
 5 | Bucket owner gets READ access.
   | If you specify this canned ACL when creating a bucket, Amazon S3 ignores it.
   \ "bucket-owner-read"
   / Both the object owner and the bucket owner get FULL_CONTROL over the object.
 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.

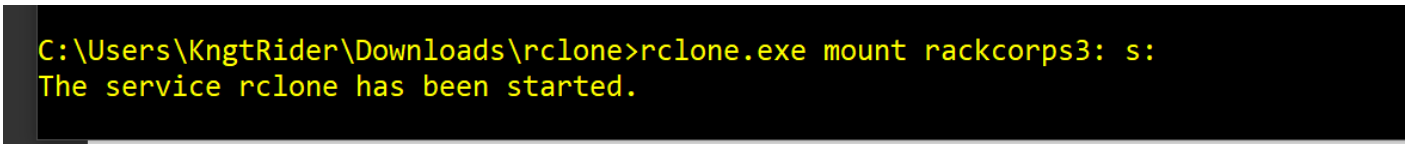
```
□
□Name                 Type
□====                 ====
□rackcorps3           s3
□
□e) Edit existing remote
□n) New remote
□d) Delete remote
□r) Rename remote
□c) Copy remote
□s) Set configuration password
□q) Quit config
e/n/d/r/c/s/q>
```

Q to quit back to the command prompt.

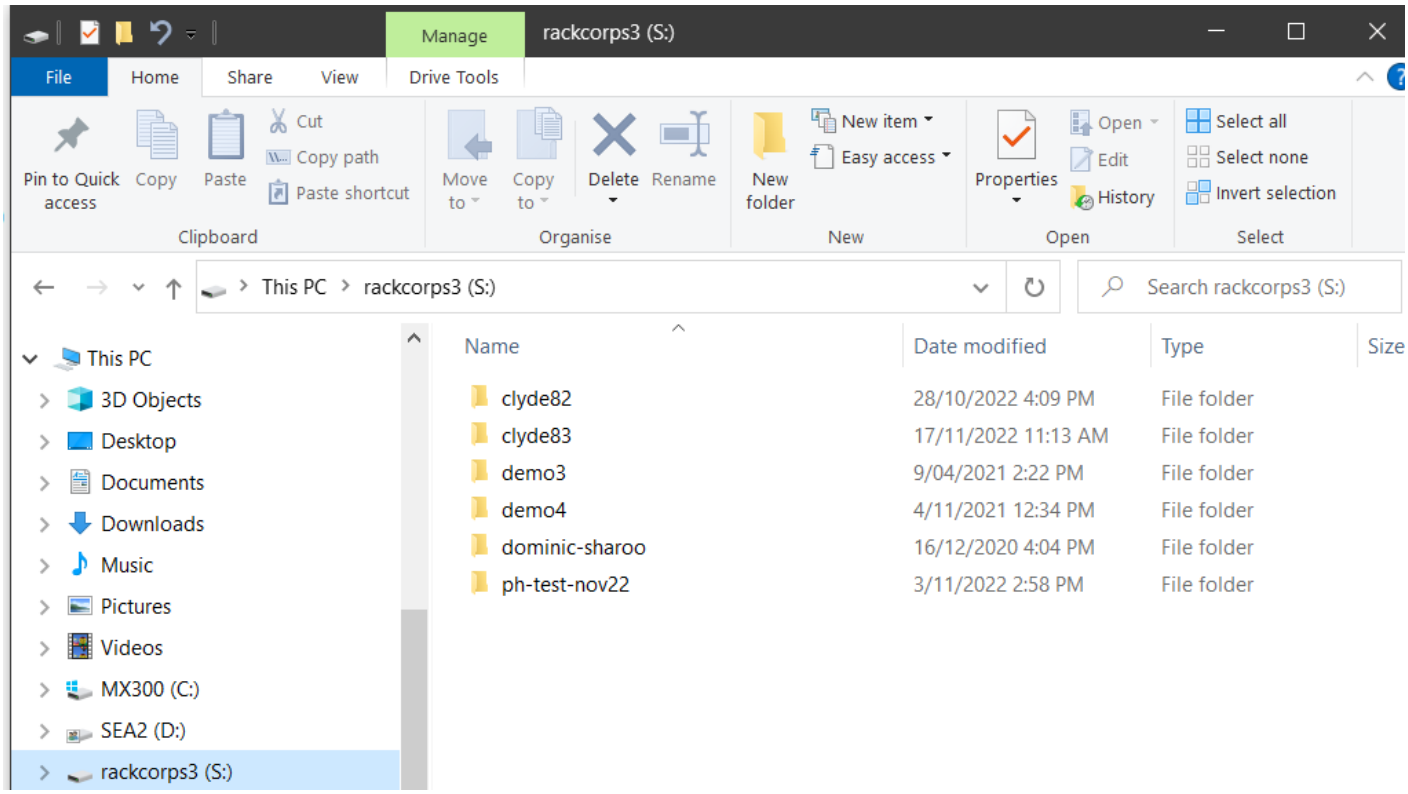
Connect rclone to a drive letter or folder-path on the operating system

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 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.



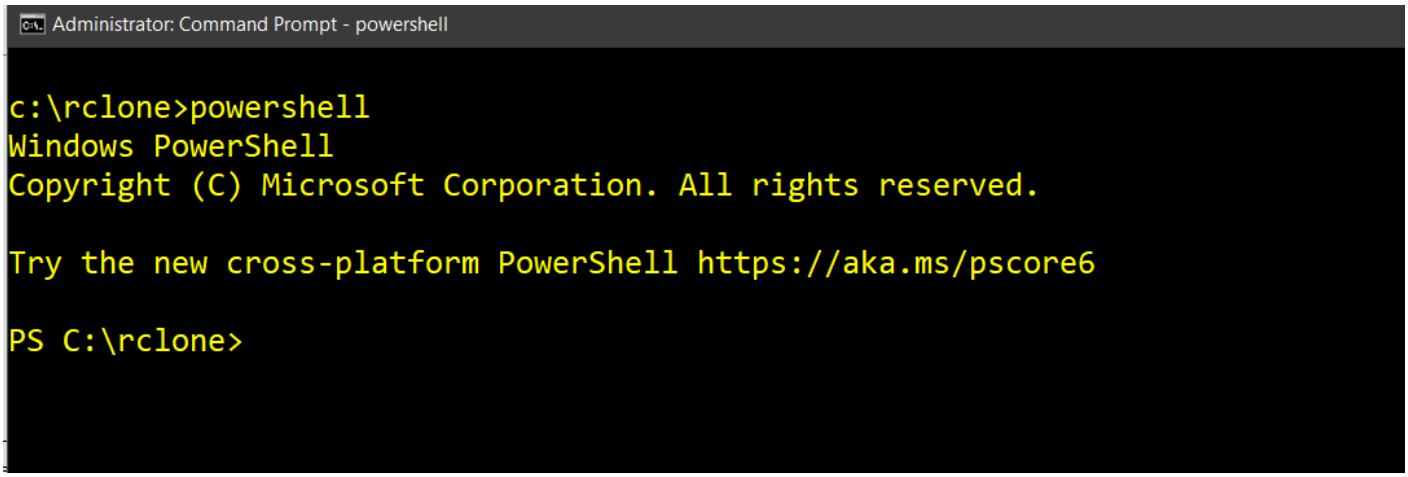
Advanced Setup Topics

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



- 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'
```



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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Revision #9
Created 18 November 2022 04:41:02 by RackCorp
Updated 11 January 2024 23:58:44 by RackCorp