

Detecting Rclone – An Effective Tool for Exfiltration

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NCC Group’s Cyber Incident Response Team (CIRT) have responded to a large number of ransomware cases where frequently the open source tool Rclone is used to exfiltrate data. Rclone is a command line tool that can copy data to an array of cloud storage providers and can also be used to copy data from cloud storage providers to local methods of detection, including Sigma rules.

Frequently Rclone is used to copy data from a local file server to a cloud storage provider. In the case of Conti ransomware, data is copied from a local file server to a cloud storage provider and then it is being copied to another location using Rclone. Rclone is a command line tool that can copy data to an array of cloud storage providers and can also be used to copy data from cloud storage providers to local methods of detection, including Sigma rules.

Internal file servers with data spanning multiple years have been observed. In all cases observed so far, data exfiltration was done using Rclone. Rclone is a command line tool that can copy data to an array of cloud storage providers and can also be used to copy data from cloud storage providers to local methods of detection, including Sigma rules.

Rclone requires a configuration file to be created. This can be done in one of two ways: using the command line or using the inbuilt configuration guide.

On the command line:

```
.rclone.exe config create remote mega user pass
```

The table below breaks down the command:

config	Initiates the configuration process
create	Creation of a new profile
remote	Name given to the remote profile being created (name can vary)
mega	Cloud storage provider
user	Username for the MEGA.io account
pass	Password for the MEGA.io account obscured

Config Command Breakdown

Alternatively the inbuilt configuration guide can be used which walks through the process offering different options:

```
.rclone.exe config
```

Once the profile has been created the following configuration file is created:





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