

# Cryptocurrency Mining Malware Discovered Targeting Seagate NAS Hard Drives

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**A malware variant named Mal/Miner-C (also known as PhotoMiner) is infecting Internet-exposed Seagate Central Network Attached Storage (NAS) devices and using them to infect connected computers to mine for the Monero cryptocurrency.**

Miner-C, or [PhotoMiner](#), appeared at the start of June 2016, when a report revealed how this malware was targeting FTP servers and spreading on its own to new machines thanks to worm-like features that attempted to brute-force other FTP servers using a list of default credentials.

## **Miner-C now specifically targets Seagate Central NAS hard drives**

This same functionality is still present in the latest Miner-C version, but security researchers from Sophos say that recent Miner-C iterations are using a design flaw in the Seagate Central NAS devices to place a copy of itself on their public data folders.

NAS devices, which are network-connected hard drives, allow users to access files from the local network, but also via the Internet if the administrator chooses to open the NAS drive for remote access.

According to Sophos, Seagate Central devices contain a public folder accessible to all users, even anonymous non-logged-in users, which can't be deactivated or deleted.

## **Miner-C tricks users into installing the cryptocurrency miner**

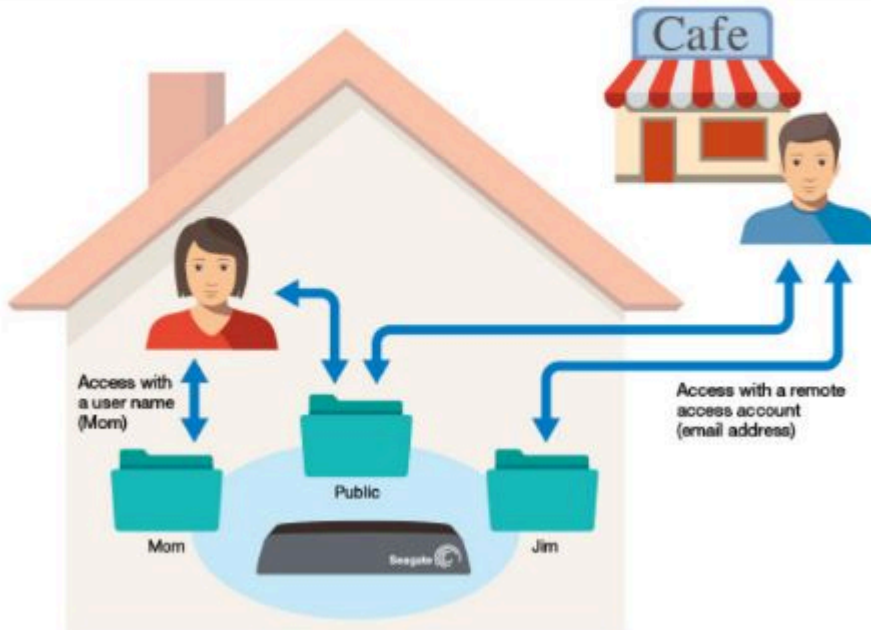
Miner-C is copying files to this public folder on all Seagate Central NAS devices it can find. One of the files it copies is called Photo.scr, a script file that malware coders have modified to use a standard Windows folder icon.

Because Windows has a bad habit of hiding file extensions, whenever the device owner accesses their NAS, they see this file as a folder, fooled by the fake icon.

When they try to access the folder, they're actually executing the Photo.scr file, which installs a cryptocurrency mining application on their PC.

Seagate Central comes with a Public folder. Use the Public folder for content that can be shared with everyone on the home network and with anyone who has a remote access account on the device.

A private folder is created with a user account. Use a private folder for personal content that you don't want to share with others. Only the person who knows the account name and password can access the private folder at home. If an email address is associated with the folder, the person can access the folder remotely.



### Public and private folders on Seagate Central NAS drives

Miner-C also features a modular structure made of different parts that do different things, and it uses a unique method of loading its config file.

"Since it generates a new initialization file when it is launched, it helps the malware avoid security solutions. It also gives the botnet operators a chance to change the payload of the threat in the future, for example, dropping ransomware to the victim's machine after the mining business is no longer profitable," the Sophos team explains in a [technical report](#).

### Miner-C mines for Monero only

Right now, Monero is one of the most profitable cryptocurrencies from when it comes to mining operations. While Bitcoin mining difficulty has increased many times over the years, PC-based Bitcoin mining has ceased to be profitable in 2012 and is currently only an option if you're using special hardware and dedicated data centers.

Monero is one of the few cryptocurrencies that can still be mined using regular PCs, hence the reason the crooks chose it.

### There are around 5,000 Seagate Central NAS devices infected

According to telemetry data Sophos researchers gathered, Miner-C has infected around 70 percent of all Seagate Central NAS devices available on the Internet.

