# Fundamental ransomware prevention USB storage for Individuals

FILINGBOX NANO

● How does FilingBox NANO provide 100% protection from ransomware?

FilingBox NANO looks like a USB storage, but it works like a network storage internally. After plugging the NANO into your PC USB port and connecting the NANO network drive on the Windows File Explorer, you can store your file on the FilingBox NANO. Unlike the Anti-Virus application running on the PC, It protects your data from the storage standpoint.

Because NANO has its control daemon, it decides whether to provide a file with a read-only or read-write attribute. When a PC asks NANO to send a file, it always provides a file with a read-only attribute under the read-only storage mode. If a user changes the storage mode to a read-write mode, it provides a file with a read-write attribute.

Read-only

NANO

Read-write
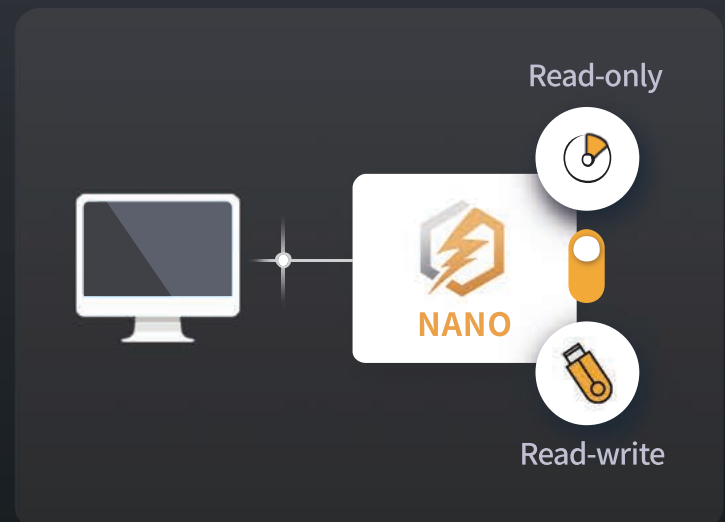
● Do we have to worry about the ransomware attack on our phone or IoT device?

All cybersecurity experts say that the best target of ransomware attacks will be your smartphone soon.

FilingBox NANO is the first storage that protects the data on iOS and Android. It supports standard network file server protocols and has three storage modes, such as a read-only, add-only, read-write mode.

When a file request comes into the NANO through WIFI network, a NANO decides whether to provide a file with read-only or read-write attributes following the storage mode. Although ransomware runs on your phone, your data can not be encrypted under a read-only mode.

IOT

NANO

Ransomware Issue

Why can't anti-virus software installed on PCs provide 100% protection against ransomware?

Anti-Virus is only available to block the ransomware which was uncovered earlier. It cannot stop new ransomware because new ransomware come out every day, and no one can know the pattern of new ransomware. Also, behavioral detection ransomware prevention software cannot protect the data on PCs 100%. Recent ransomware goes around behavioral detection software by delaying encryption or random access encryption instead of massive encrypting attack.
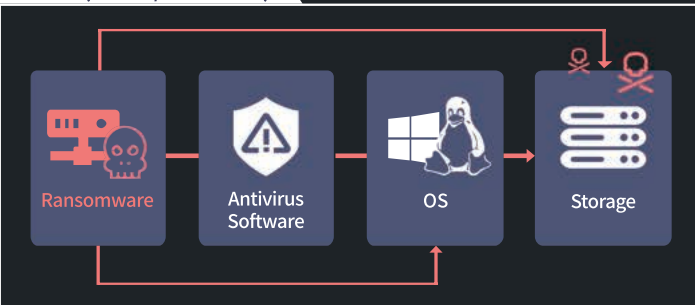
Besides, some of the ransomware can stop the anti-virus or behavioral detection prevention software first and then encrypt the data. In case of the ransomware having FDE(Full Disk Encryption) or MBR(Master Boot Record) attack, the full encryption of the entire hard disk rather than just files themselves, it can bypass any prevention software.

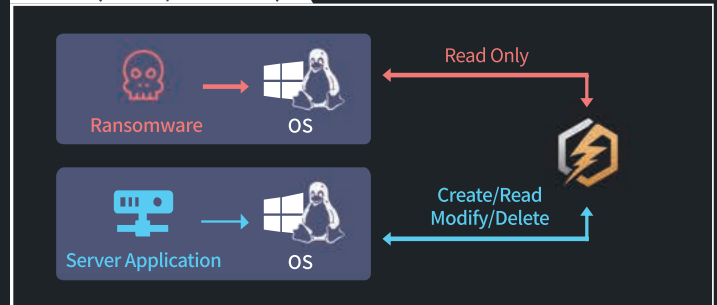How is FilingBox NANO different from regular USB storage?

Conventional USB storage creates and modifies the data, followed by the PC's operating system and any application. So if ransomware gets installed on the PC, it encrypts all the data on the PC. To prevent this, you can remove the USB storage after saving your data. But when you need to reuse it and if you plug it into your PC without knowing ransomware is latent, you can lose your data.

FilingBox NANO is different. Although ransomware may run on your PC when FilingBox NANO is plugged into your PC, it does not allow any changes to your files. Because FilingBox NANO has its control daemon, it decides whether to provide a file with a read-only or read-write attribute. When a PC asks FilingBox to send a file, it always sends a file as read-only. It is the same as a file on a CD-ROM unless the user changes the file attribute on its touch screen panel.

Server (Linux / Windows)

Ransomware → Antivirus Software → OS → Storage

Server (Linux / Windows)

Ransomware → OS — Read Only

Server Application → OS — Create/Read Modify/Delete

Unique features Of FilingBox NANO
Which Is Ransomware Prevention USB Storage For Individuals

Prevents all encryption attacks by providing the ransomware prevention file system for Windows, Mac, Linux, iOS and Android.

Additionally prevents all phishing attacks by providing the fake file system. It only allows users to add a new file except reading existing files.

Ask a user to type the PIN code to connect USB storage and encrypt all files internally when it is saved

If FilingBox NANO is Ransomware Prevention USB storage for Individuals, **is there any product for servers or team?**

There is **FilingBox MEGA** for servers and **FilingBox MINI** for teams. If you want to try FilingBox product, request a free live demo at FilingBox.com.

FILINGBOX MINI   FILINGBOX MEGA

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