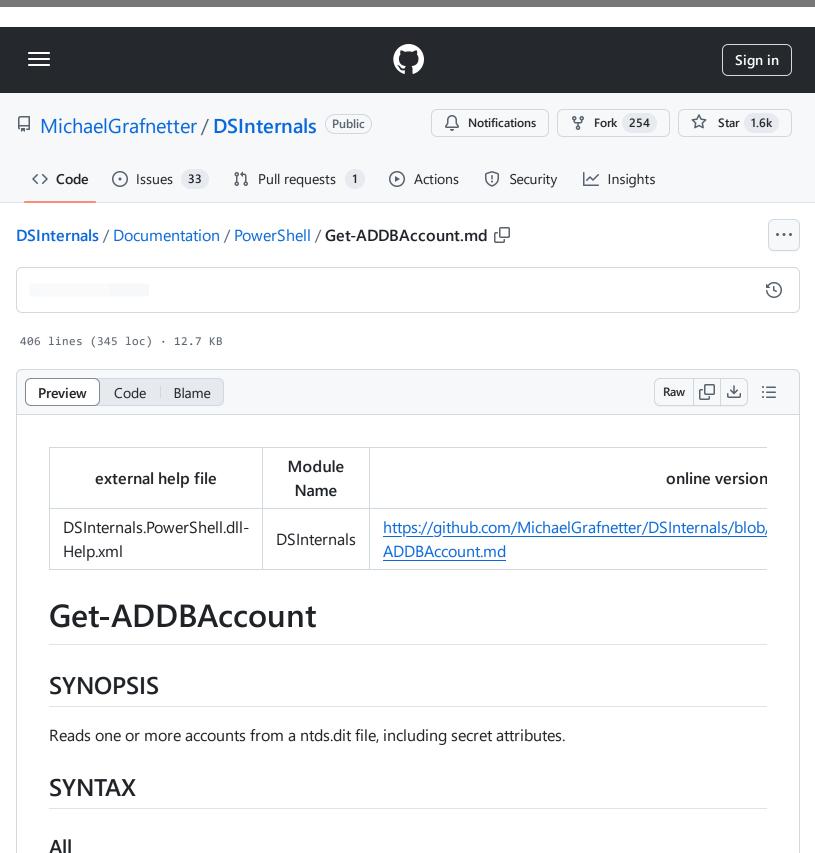
https://github.com/MichaelGrafnetter/DSInternals/blob/7ba59c12ee9a1cb430d7dc186a3366842dd612c8/Documentation/PoweADDBAccount.md



Get-ADDBAccount [-All] [-BootKey <Byte[]>] -DatabasePath <String> [-LogPath <Strin₁ □

https://github.com/MichaelGrafnetter/DSInternals/blob/7ba59c12ee9a1cb430d7dc186a3366842dd612c8/Documentation/Powe ADDBAccount.md

ByName

```
Get-ADDBAccount [-BootKey <Byte[]>] [-SamAccountName] <String> -DatabasePath <Stri∟ □ [<CommonParameters>]
```

BySID

ByDN

```
Get-ADDBAccount [-BootKey <Byte[]>] -DistinguishedName <String> -DatabasePath <Str: [

[<CommonParameters>]
```

ByGuid

```
Get-ADDBAccount [-BootKey <Byte[]>] -ObjectGuid <Guid> -DatabasePath <String> [-Lo<sub>i</sub> [-CommonParameters>]
```

DESCRIPTION

Reads one or more accounts from an Active Directory database file. When provided with a boot key (AKA SysKey or system key), it also decrypts secret attributes.

EXAMPLES

Example 1

```
PS C:\> Get-ADDBAccount -SamAccountName Administrator `
-DatabasePath 'C:\IFM Backup\Active Directory\ntds.dit'
<# Sample Output:
DistinguishedName: CN=Administrator,CN=Users,DC=contoso,DC=com
Sid: S-1-5-21-1236425271-2880748467-2592687428-500
Guid: b3d02974-6b1c-484c-9103-fd2f60d592c4
```

https://github.com/MichaelGrafnetter/DSInternals/blob/7ba59c12ee9a1cb430d7dc186a3366842dd612c8/Documentation/PoweADDBAccount.md

```
SamAccountName: Administrator
SamAccountType: User
UserPrincipalName:
PrimaryGroupId: 513
SidHistory:
Enabled: True
UserAccountControl: NormalAccount, PasswordNeverExpires
SupportedEncryptionTypes: Default
AdminCount: True
Deleted: False
LastLogonDate: 2/23/2015 10:27:18 AM
DisplayName:
GivenName:
Surname:
Description: Built-in account for administering the computer/domain
ServicePrincipalName:
SecurityDescriptor: DiscretionaryAclPresent, SystemAclPresent, DiscretionaryAclAuto
Owner: S-1-5-21-1236425271-2880748467-2592687428-512
Secrets
  NTHash:
  LMHash:
  NTHashHistory:
  LMHashHistory:
  SupplementalCredentials:
Key Credentials:
Credential Roaming
  Created:
  Modified:
  Credentials:
#>
```

Retrieves information about a single account from an Active Directory database. Secret attributes are not decrypted as no boot key is provided.

Example 2

```
PS C:\> $key = Get-BootKey -SystemHiveFilePath 'C:\IFM Backup\registry\SYSTEM'

PS C:\> Get-ADDBAccount -DistinguishedName: 'CN=Joe Smith,OU=Employees,DC=contoso,I

-BootKey $key `

-DatabasePath 'C:\IFM Backup\Active Directory\ntds.dit'

<# Sample Output:

DistinguishedName: CN=Joe Smith,OU=Employees,DC=contoso,DC=com

Sid: S-1-5-21-1236425271-2880748467-2592687428-1110

Guid: 6fb7aca4-fe85-4dc5-9acd-b5b2529fe2bc
```

https://github.com/MichaelGrafnetter/DSInternals/blob/7ba59c12ee9a1cb430d7dc186a3366842dd612c8/Documentation/PoweADDBAccount.md

```
SamAccountName: joe
SamAccountType: User
UserPrincipalName: joe@contoso.com
PrimaryGroupId: 513
SidHistory:
Enabled: True
UserAccountControl: NormalAccount, PasswordNeverExpires
SupportedEncryptionTypes: Default
AdminCount: False
Deleted: False
LastLogonDate: 2/23/2015 10:27:18 AM
DisplayName: Joe Smith
GivenName: Joe
Surname: Smith
Description:
ServicePrincipalName:
SecurityDescriptor: DiscretionaryAclPresent, SystemAclPresent, DiscretionaryAclAuto
Owner: S-1-5-21-1236425271-2880748467-2592687428-512
Secrets
  NTHash: 92937945b518814341de3f726500d4ff
  LMHash:
  NTHashHistory:
    Hash 01: 92937945b518814341de3f726500d4ff
  LMHashHistory:
    Hash 01: 30ce97eef1084cf1656cc4be70d68600
  SupplementalCredentials:
    ClearText:
    NTLMStrongHash: 2c6d57beebeafdae65b3f40f2a0d5430
    Kerberos:
      Credentials:
        DES_CBC_MD5
          Key: 7f16bc4ada0b8a52
      OldCredentials:
      Salt: CONTOSO.COMjoe
      Flags: 0
    KerberosNew:
      Credentials:
        AES256_CTS_HMAC_SHA1_96
          Key: cd541be0838c787b5c6a34d7b19274aee613545a0e6cc6f5ac5918d8a464d24f
          Iterations: 4096
        AES128_CTS_HMAC_SHA1_96
          Key: 5c88972747bd454704c117ae52c474e4
          Iterations: 4096
        DES_CBC_MD5
          Key: 7f16bc4ada0b8a52
          Iterations: 4096
```

https://github.com/MichaelGrafnetter/DSInternals/blob/7ba59c12ee9a1cb430d7dc186a3366842dd612c8/Documentation/PoweADDBAccount.md

```
OldCredentials:
      OlderCredentials:
      ServiceCredentials:
      Salt: CONTOSO.COMjoe
     DefaultIterationCount: 4096
     Flags: 0
    WDigest:
     Hash 01: 61fed940f0e8d03a49d3727f55800497
      Hash 02: a1d54499dda6a6b5431f29a8d741a640
     Hash 03: b6cdf00bc0c4578992f718de81251721
     Hash 04: 61fed940f0e8d03a49d3727f55800497
     Hash 05: a1d54499dda6a6b5431f29a8d741a640
     Hash 06: 9a8991bd99763df2e37f1e1e67d71cc8
     Hash 07: 61fed940f0e8d03a49d3727f55800497
     Hash 08: 8a9fe94883c8ccf3bcfc6591ddd2288f
     Hash 09: 8a9fe94883c8ccf3bcfc6591ddd2288f
     Hash 10: 1b7b16b49ecd8d9d59c1d0db6fa2cc36
     Hash 11: d4c24695cfa4dc3810a469d5efb8ecaf
     Hash 12: 8a9fe94883c8ccf3bcfc6591ddd2288f
     Hash 13: a5b8aa5088280298c8c27fa99dcaa1e3
     Hash 14: d4c24695cfa4dc3810a469d5efb8ecaf
     Hash 15: 1aa8e567622fe53d6fb36f1f34f12aaa
     Hash 16: 1aa8e567622fe53d6fb36f1f34f12aaa
     Hash 17: 2af425244079f8f45927c34fa115e45b
     Hash 18: cf283a35102b820e25003b1ddf270221
     Hash 19: b98c902c57449253e6f06b5d585866bd
     Hash 20: 2a690b1eeda9cb8f3157a4a3ba0be9c3
     Hash 21: af2654776d5f9f27f3283ech0aa25011
     Hash 22: af2654776d5f9f27f3283ecb0aa25011
     Hash 23: ba6fe0513ed2a60ec253a41bbde6a837
     Hash 24: 8bf5a67b598087be948e040f85c72b4d
     Hash 25: 8bf5a67b598087be948e040f85c72b4d
     Hash 26: aa5ff46d23a5c7ebd603e1793225350d
     Hash 27: 656b6a7f5b52d05b3ce9168a2b7ac8ac
     Hash 28: ae884c92ecd87e8d54f1844f09c5a519
     Hash 29: a500a9e26afc9f817df8a07e15771577
Key Credentials:
 Usage=NGC, Source=ActiveDirectory, Device=1966d4da-14da-4581-a7a7-5e8e07e93ad9, (
 Usage=NGC, Source=ActiveDirectory, Device=cfe9a872-13ff-4751-a777-aec88c30a762, (
Credential Roaming
 Created: 3/12/2017 9:15:56 AM
 Modified: 3/13/2017 10:01:18 AM
  Credentials:
    DPAPIMasterKey: joe\Protect\S-1-5-21-1236425271-2880748467-2592687428-1110\470
    DPAPIMasterKey: joe\Protect\S-1-5-21-1236425271-2880748467-2592687428-1110\7fc:
    CryptoApiCertificate: joe\SystemCertificates\My\Certificates\574E4687133998544
```

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```
CNGCertificate: joe\SystemCertificates\My\Certificates\3B83BFA7037F6A79B3F3D17I
RSAPrivateKey: joe\Crypto\RSA\S-1-5-21-1236425271-2880748467-2592687428-1110\70
CNGPrivateKey: joe\Crypto\Keys\E8F13C2BA0209401C4DFE839CD57375E26BBE38F
#>
```

Retrieves information about a single account from an Active Directory database. Secret attributes are decrypted using the provided boot key.

Example 3

```
PS C:\> $results = Get-ADDBAccount -DatabasePath '.\Active Directory\ntds.dit' \
-BootKey acdba64a3929261b04e5270c3ef973cf \
-All |
Test-PasswordQuality -WeakPasswordHashesSortedFile pwned-password
```

Performs an offline credential hygiene audit of AD database against HIBP.

Example 4

```
PS C:\> Get-ADDBAccount -All -DatabasePath ntds.dit -BootKey $key |

Format-Custom -View PwDump |

Out-File -FilePath users.pwdump -Encoding ascii
```

Exports NT and LM password hashes from an Active Directory database to a pwdump file.

Example 5

```
PS C:\> Get-ADDBBackupKey -DatabasePath '.\ADBackup\Active Directory\ntds.dit' \
-BootKey 0be7a2afe1713642182e9b96f73a75da |
Save-DPAPIBlob -DirectoryPath '.\Output'

PS C:\> Get-ADDBAccount -All -DatabasePath '.\ADBackup\Active Directory\ntds.dit'
Save-DPAPIBlob -DirectoryPath '.\Output'
```

Extracts DPAPI backup keys and roamed credentials (certificates, private keys, and DPAPI master keys) from an Active Directory database file and saves them to the Output directory. Also creates a file called kiwiscript.txt that contains mimikatz commands needed to decrypt the private keys.

Example 6

https://github.com/MichaelGrafnetter/DSInternals/blob/7ba59c12ee9a1cb430d7dc186a3366842dd612c8/Documentation/PoweADDBAccount.md

Lists weak public keys registered in Active Directory that were generated on ROCA-vulnerable TPMs.

Example 7

```
PS C:\> $dc = Get-ADDBDomainController -DatabasePath '.\ADBackup\Active Directory\\
PS C:\> $adminSid = '{0}-500' -f $dc.DomainSid

PS C:\> $account = Get-ADDBAccount -Sid $adminSid `
-DatabasePath '.\ADBackup\Active Directory\ntds
-BootKey 0be7a2afe1713642182e9b96f73a75da
```

Retrieves information about a the built-in Administrator account, even if it was renamed.

PARAMETERS

-All

Indicates that all accounts will be read from the selected database.

```
Type: SwitchParameter

Parameter Sets: All

Aliases: AllAccounts, ReturnAllAccounts

Required: True

Position: Named

Default value: None

Accept pipeline input: False

Accept wildcard characters: False
```

https://github.com/MichaelGrafnetter/DSInternals/blob/7ba59c12ee9a1cb430d7dc186a3366842dd612c8/Documentation/PoweADDBAccount.md

-BootKey

Specifies the boot key (AKA system key) that will be used to decrypt values of secret attributes.

```
Type: Byte[]
Parameter Sets: (All)
Aliases: key, SysKey, SystemKey

Required: False
Position: Named
Default value: None
Accept pipeline input: False
Accept wildcard characters: False
```

-DatabasePath

Specifies the path to a domain database, for instance, C:\Windows\NTDS\ntds.dit.

```
Type: String
Parameter Sets: (All)
Aliases: Database, DBPath, DatabaseFilePath, DBFilePath

Required: True
Position: Named
Default value: None
Accept pipeline input: False
Accept wildcard characters: False
```

-DistinguishedName

Specifies the identifier of an account that will be retrieved from the database.

```
Type: String
Parameter Sets: ByDN
Aliases: dn

Required: True
Position: Named
Default value: None
```

https://github.com/MichaelGrafnetter/DSInternals/blob/7ba59c12ee9a1cb430d7dc186a3366842dd612c8/Documentation/PoweADDBAccount.md

```
Accept pipeline input: True (ByPropertyName)
Accept wildcard characters: False
```

-LogPath

Specifies the path to a directory where the transaction log files are located. For instance, C:\Windows\NTDS. The default log directory is the one that contains the database file itself.

```
Type: String
Parameter Sets: (All)
Aliases: Log, TransactionLogPath

Required: False
Position: Named
Default value: None
Accept pipeline input: False
Accept wildcard characters: False
```

-ObjectGuid

Specifies the identifier of an account that will be retrieved from the database.

```
Type: Guid
Parameter Sets: ByGuid
Aliases: Guid

Required: True
Position: Named
Default value: None
Accept pipeline input: True (ByPropertyName)
Accept wildcard characters: False
```

-ObjectSid

Specifies the identifier of an account that will be retrieved from the database.

```
Type: SecurityIdentifier

Parameter Sets: BySID

Aliases: Sid
```

https://github.com/MichaelGrafnetter/DSInternals/blob/7ba59c12ee9a1cb430d7dc186a3366842dd612c8/Documentation/PoweADDBAccount.md

```
Required: True
Position: Named
Default value: None
Accept pipeline input: True (ByPropertyName)
Accept wildcard characters: False
```

-SamAccountName

Specifies the identifier of an account that will be retrieved from the database.

```
Type: String
Parameter Sets: ByName
Aliases: Login, sam

Required: True
Position: 0
Default value: None
Accept pipeline input: True (ByPropertyName)
Accept wildcard characters: False
```

CommonParameters

This cmdlet supports the common parameters: -Debug, -ErrorAction, -ErrorVariable, -InformationAction, -InformationVariable, -OutVariable, -OutBuffer, -PipelineVariable, -Verbose, -WarningAction, and -WarningVariable. For more information, see about_CommonParameters.

INPUTS

System.String

System. Security. Principal. Security Identifier

System.Guid

OUTPUTS

DSInternals.Common.Data.DSAccount

https://github.com/MichaelGrafnetter/DSInternals/blob/7ba59c12ee9a1cb430d7dc186a3366842dd612c8/Documentation/Powe ADDBAccount.md

NOTES

RELATED LINKS

<u>Get-BootKey Get-ADReplAccount Get-ADSIAccount Test-PasswordQuality Save-DPAPIBlob Get-ADKeyCredential</u>