```
PS C:\Users\yoojung> dsacls $OU /G "IT Admins:CC;user" /I:S
Parameter /G was unexpected.
Displays or modifies permissions (ACLS) of an Active Directory Domain Services (AD DS)
Object
DSACLS object [/I:TSP] [/N] [/P:YN] [/G <group/user>:<perms> [...]]
              [/R <group/user> [...]] [/D <group/user>:<perms> [...]]
              [/S] [/T] [/A] [/resetDefaultDACL] [/resetDefaultSACL]
              [/takeOwnership] [/user:<userName>] [/passwd:<passwd> | *]
              [/simple]
  object
                   Path to the AD DS object for which to display or
                    manipulate the ACLs
  Path is the RFC 1779 format of the name, as in
      CN=John Doe,OU=Software,OU=Engineering,DC=Widget,DC=com
  A specific AD DS can be denoted by prepending \\server[:port]\
  to the object, as in
        \\ADSERVER\CN=John Doe,OU=Software,OU=Engineering,DC=Widget,DC=US
  no options
                   displays the security on the object.
                    Inheritance flags:
   /I
                        T: This object and sub objects
                        S: Sub objects only
                        P: Propagate inheritable permissions one level only.
   /N
                    Replaces the current access on the object, instead of
                    editing it.
  /P
                   Mark the object as protected
                       Y:Yes
                       N:No
```

```
Select Windows PowerShell
                                                                                                                       X
                  option is not used dsacls will bind as the currently
                  logged on user, using SSPI.
/passwd:<passwd> | * Passwd for the user account.
/simple
                  Bind to server using ldap simple bind. Note that the
                  clear text password will be sent over the wire.
 <user/group> should be in the following forms:
              group@domain or domain\group
              user@domain or domain\user
              FODN of the user or group
              A string SID
 <perms> should be in the following form:
      [Permission bits];[Object/Property];[Inherited Object Type]
      Permission bits can have the following values concatenated together:
      Generic Permissions
          GR
                  Generic Read
          GE
                  Generic Execute
          GW
                  Generic Write
          GΑ
                  Generic All
     Specific Permissions
          SD
                  Delete
          DT
                  Delete an object and all of it's children
                  Read security information
          RC
          WD
                  Change security information
          WO
                  Change owner information
          LC
                  List the children of an object
          CC
                  Create child object
          DC
                  Delete a child object
                   For these two permissions, if [Object/Property] is
                   not specified to define a specific child object type,
```

CC

DC

WS

WP

RP

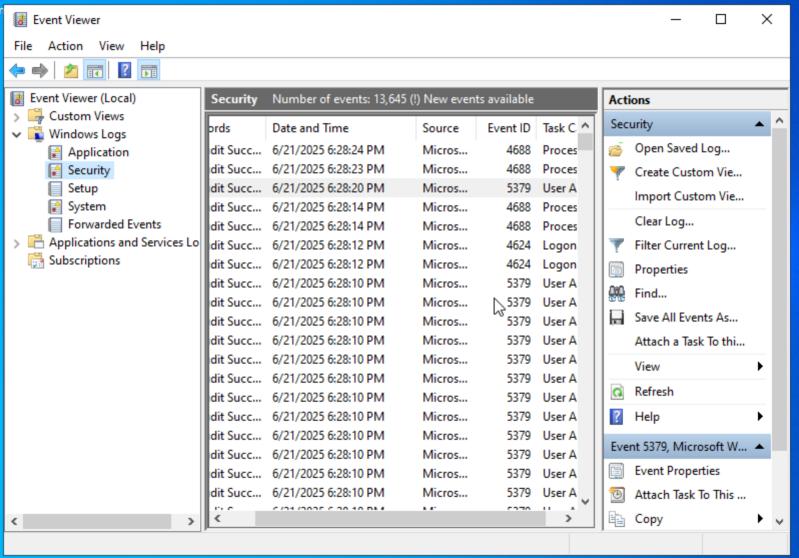
×

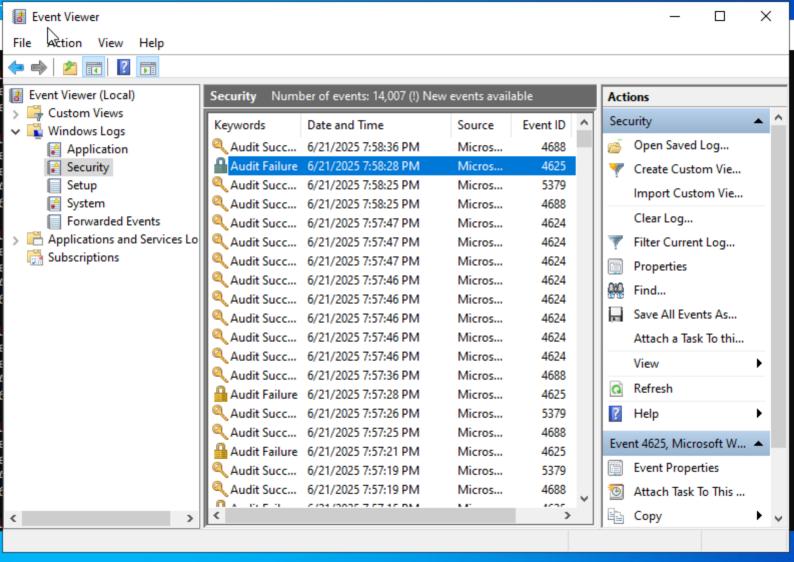
Create child object Delete a child object For these two permissions, if [Object/Property] is not specified to define a specific child object type, they apply all types of child objects otherwise they apply to that specific child object type. Write To Self (also known as Validated Write). There

are 3 kinds of validated writes: Self-Membership (bf9679c0-0de6-11d0-a285-00aa003049e2) applied to Group object. It allows updating membership of a group in terms of adding/removing to its own account. Example: (WS; bf9679c0-0de6-11d0-a285-00aa003049e2; AU) applied to group X, allows an Authenticated User to add/remove oneself to/from group X, but not anybody else. Validated-DNS-Host-Name (72e39547-7b18-11d1-adef-00c04fd8d5cd) applied to computer object. It allows updating the DNS host name attribute that is compliant with the computer name & domain name. Validated-SPN (f3a64788-5306-11d1-a9c5-0000f80367c1) applied to computer object: It allows updating the SPN attribute that is compliant to the DNS host name of the computer.

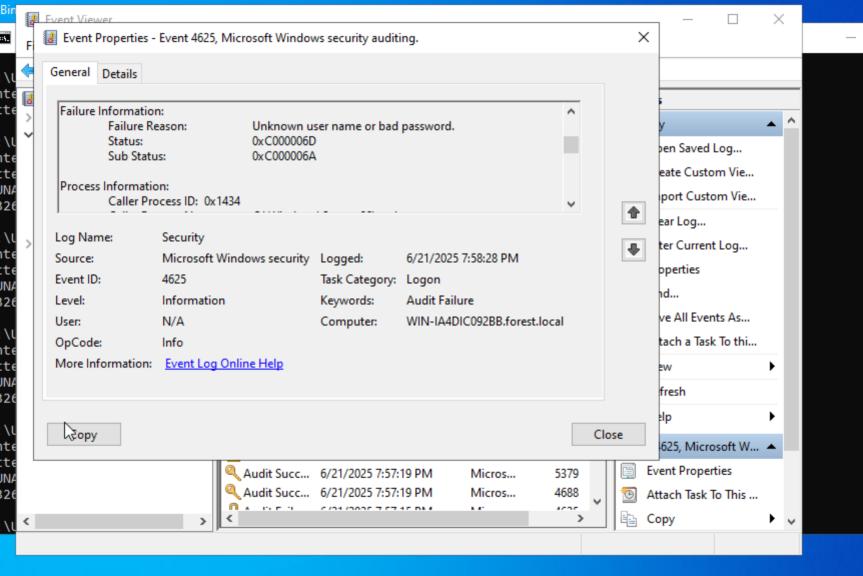
Write property Read property For these two permissions, if [Object/Property] is not specified to define a specific property, they apply to all properties of the object otherwise they apply to that specific property of the object.

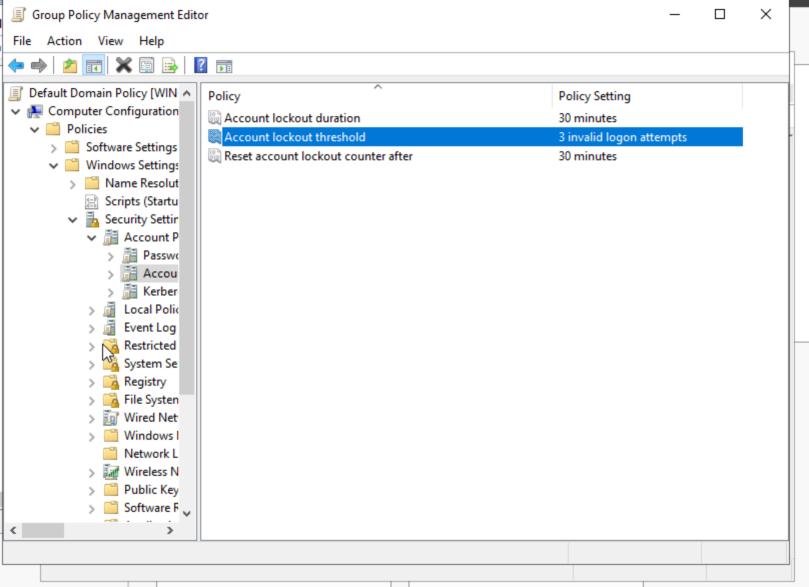
CA Control access right For this permission, if [Object/Property] is not specified to define the specific "extended right" for control access, it applies to all control accesses meaningful on the object, otherwise it applies to the specific extended right for that object.

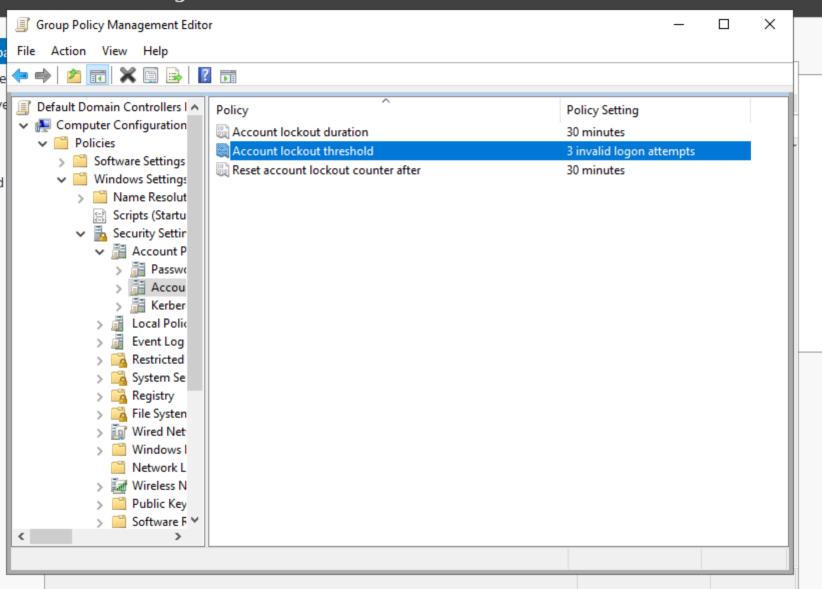




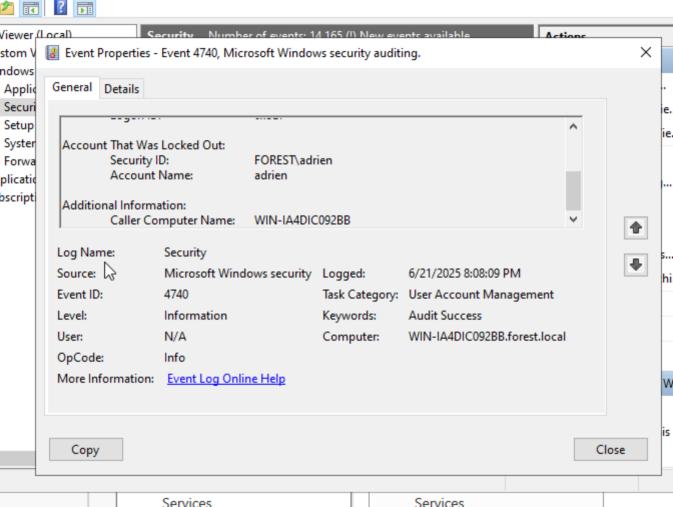
```
Administrator: Command Prompt
C:\Users\Administrator> runas /user:FOREST\adrien cmd
Enter the password for FOREST\adrien:
Attempting to start cmd as user "FOREST\adrien" ...
C:\Users\Administrator> runas /user:FOREST\adrien cmd
Enter the password for FOREST\adrien:
Attempting to start cmd as user "FOREST\adrien" ...
RUNAS ERROR: Unable to run - cmd
1326: The user name or pas word is incorrect.
C:\Users\Administrator> runas /user:FOREST\adrien cmd
Enter the password for FOREST\adrien:
Attempting to start cmd as user "FOREST\adrien" ...
RUNAS ERROR: Unable to run - cmd
1326: The user name or password is incorrect.
C:\Users\Administrator> runas /user:FOREST\adrien cmd
Enter the password for FOREST\adrien:
Attempting to start cmd as user "FOREST\adrien" ...
RUNAS ERROR: Unable to run - cmd
1326: The user name or password is incorrect.
C:\Users\Administrator> runas /user:FOREST\adrien cmd
Enter the password for FOREST\adrien:
Attempting to start cmd as user "FOREST\adrien" ...
RUNAS ERROR: Unable to run - cmd
1326: The user name or password is incorrect.
C:\Users\Administrator>
```

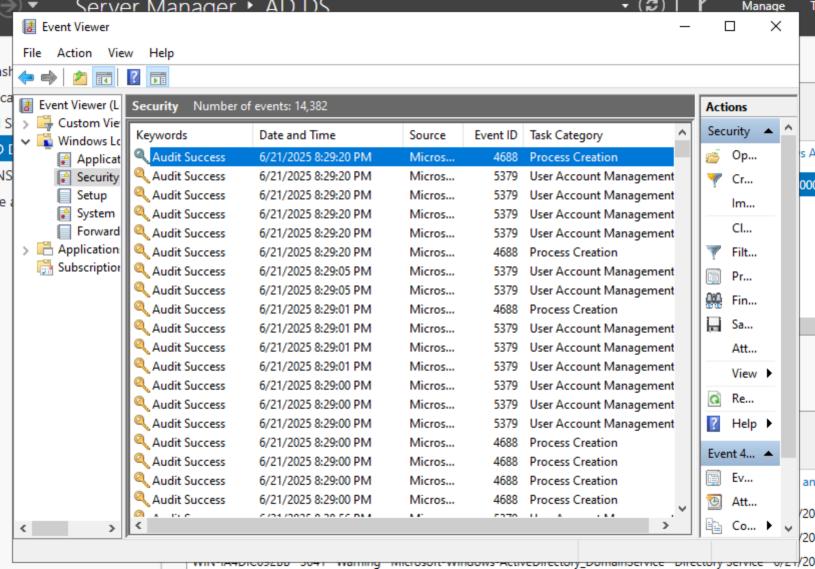






```
Administrator: Command Prompt
Enter the password for FOREST\adrien:
Attempting to start cmd as user "FOREST\adrien" ...
RUNAS ERROR: Unable to run - cmd
1326: The user name or password is incorrect.
C:\Users\Administrator> runas /user:FOREST\adrien cmd
Enter the password for FOREST\adrien:
Attempting to start cmd as user "FOREST\adrien" ...
RUNAS ERROR: Unable to run - cmd
1326: The user name or password is incorrect.
C:\Users\Administrator> runas /user:FOREST\adrien cmd
Enter the password for FOREST\adrien:
Attempting to start cmd as user "FOREST\adrien" ...
RUNAS ERROR: Unable to run - cmd
1909: The referenced account is currently locked out and may not be logged on to.
C:\Users\Administrator> runas /user:FOREST\adrien cmd
Enter the password for FOREST\adrien:
Attempting to start cmd as user "FOREST\adrien" ...
RUNAS ERROR: Unable to run - cmd
1909: The referenced account is currently locked out and may not be logged on to.
C:\Users\Administrator> runas /user:FOREST\adrien cmd
Enter the password for FOREST\adrien:
Attempting to start cmd as user "FOREST\adrien" ...
RUNAS ERROR: Unable to run - cmd
1909: The referenced account is currently locked out and may not be logged on to.
C:\Users\Administrator>_
```





```
Administrator: Windows PowerShell
hari
                         krbtgt
                                                  ravi
yoojung
 Writing web request
   Writing request stream... (Number of bytes written: 115845)
SamAccountName
Administrator
Guest
krbtgt
ravi
hari
adrien
yoojung
PS C:\Users\Administrator> Get-NetUser | Select-Object samaccountname
Get-NetUser : The term 'Get-NetUser' is not recognized as the name of a cmdlet, function, script file, or operable
program. Check the spelling of the name, or if a path was included, verify that the path is correct and try again.
At line:1 char:1
  Get-NetUser | Select-Object samaccountname
    + CategoryInfo
                            : ObjectNotFound: (Get-NetUser:String) [], CommandNotFoundException
   + FullyQualifiedErrorId : CommandNotFoundException
PS C:\Users\Administrator> Invoke-WebRequest -URi "https://raw.githubusercontent.com/BloodHoundAD/BloodHound/master/Coll
ectors/SharpHound.ps1" -OutFile SharpHound.ps1
```

```
ectors/SharpHound.ps1" -OutFile SharpHound.ps1
PS C:\Users\Administrator> Import-Module .\SharpHound.ps1
Import-Module : The specified module '.\SharpHound.ps1' was not loaded because no valid module file was found in any
module directory.
At line:1 char:1
+ Import-Module .\SharpHound.ps1
                          : ResourceUnavailable: (.\SharpHound.ps1:String) [Import-Module], FileNotFoundException
   + CategorvInfo
```

PS C:\Users\Administrator> Invoke-WebRequest -URi "https://raw.githubusercontent.com/BloodHoundAD/BloodHound/master/Coll

+ FullyOualifiedErrorId : Modules ModuleNotFound, Microsoft. PowerShell. Commands. ImportModuleCommand

```
Administrator: Windows PowerShell
At line:1 char:1
+ Get-NetUser | Select-Object samaccountname
Writing web request
    Writing request stream... (Number of bytes written: 113768)
PS C:\Users\Administrator> Invoke-WebRequest -URi "https://raw.githubusercontent.com/BloodHoundAD/BloodHound/master/Coll
ectors/SharpHound.ps1" -OutFile SharpHound.ps1
PS C:\Users\Administrator> Import-Module .\SharpHound.ps1
Import-Module : The specified module '.\SharpHound.ps1' was not loaded because no valid module file was found in any
module directory.
At line:1 char:1
 Import-Module .\SharpHound.ps1
   + CategoryInfo : ResourceUnavailable: (.\SharpHound.ps1:String) [Import-Module], FileNotFoundException
   + FullyQualifiedErrorId : Modules ModuleNotFound,Microsoft.PowerShell.Commands.ImportModuleCommand
PS C:\Users\Administrator> SharpHound.exe -c ACL,Session --domain forest.local
SharpHound.exe : The term 'SharpHound.exe' is not recognized as the name of a cmdlet, function, script file, or
operable program. Check the spelling of the name, or if a path was included, verify that the path is correct and try
again.
At line:1 char:1
 SharpHound.exe -c ACL, Session --domain forest.local
   + CategoryInfo : ObjectNotFound: (SharpHound.exe:String) [], CommandNotFoundException
   + FullyQualifiedErrorId : CommandNotFoundException
PS C:\Users\Administrator> Invoke-WebRequest -URI "https://raw.githubusercontent.com/BloodHoundAD/BloodHound/master/Coll
ectors/SharpHound.ps1" -OutFile SharpHound.ps1
```

```
Administrator: Windows PowerShell
   Directory: C:\Users\Administrator
                                         Length Name
Mode
                    LastWriteTime
              6/21/2025 8:45 PM
                                         1308348 SharpHound.ps1
PS C:\Users\Administrator> SharpHound.exe -c ACL,Session --domain forest.local
SharpHound.exe : The term 'SharpHound.exe' is not recognized as the name of a cmdlet, function, script file, or
operable program. Check the spelling of the name, or if a path was included, verify that the path is correct and try
again.
At line:1 char:1
 SharpHound.exe -c ACL, Session --domain forest.local
   + CategoryInfo : ObjectNotFound: (SharpHound.exe:String) [], CommandNotFoundException
   + FullyQualifiedErrorId : CommandNotFoundException
PS C:\Users\Administrator> Import-Module .\SharpHound.ps1
```

Import-Module : The specified module '.\SharpHound.ps1' was not loaded because no valid module file was found in any

```
module directory.
```

At line:1 char:1 Import-Module .\SharpHound.ps1

+ CategoryInfo : ResourceUnavailable: (.\SharpHound.ps1:String) [Import-Module], FileNotFoundException + FullyQualifiedErrorId : Modules ModuleNotFound,Microsoft.PowerShell.Commands.ImportModuleCommand

PS C:\Users\Administrator>

```
PS C:\Users\Administrator> . .\SharpHound.ps1
PS C:\Users\Administrator> Invoke-BloodHound -CollectionMethod ACL,Session -Domain forest.local
Exception calling "Load" with "1" argument(s): "Could not load file or assembly '1046528 bytes loaded from Anonymously
Hosted DynamicMethods Assembly, Version=0.0.0.0, Culture=neutral, PublicKeyToken=null' or one of its dependencies. An
attempt was made to load a program with an incorrect format."
At C:\Users\Administrator\SharpHound.ps1:413 char:2
      $Assembly = [Reflection.Assembly]::Load($UncompressedFileBytes)
    + CategoryInfo : NotSpecified: (:) [], MethodInvocationException
    + FullyOualifiedErrorId : BadImageFormatException
You cannot call a method on a null-valued expression.
At C:\Users\Administrator\SharpHound.ps1:416 char:2
      $Assembly.GetType("Costura.AssemblyLoader", $false).GetMethod("At ...
    + CategoryInfo : InvalidOperation: (:) [], RuntimeException
    + FullyQualifiedErrorId : InvokeMethodOnNull
You cannot call a method on a null-valued expression.
At C:\Users\Administrator\SharpHound.ps1:417 char:2
      $Assembly.GetType("Sharphound.Program").GetMethod("InvokeSharpHou ...
    + CategoryInfo : InvalidOperation: (:) [], RuntimeException
    + FullyQualifiedErrorId : InvokeMethodOnNull
```

Illederroria : CommandNotFoundException Windows Features cmc The following feature couldn't be installed: pat .NET Framework 3.5 (includes .NET 2.0 and 3.0) dNot Windows Server roles and features cannot be automatically installed or uninstalled via the Windows Features Control Panel. To install Windows Server roles and features, start Server Manager, or use the Server Manager cmdlets for Windows PowerShell. ndEx Close าfo ObjectNotFound: (Rubeus.exe:String) [], CommandNotFoundEx