

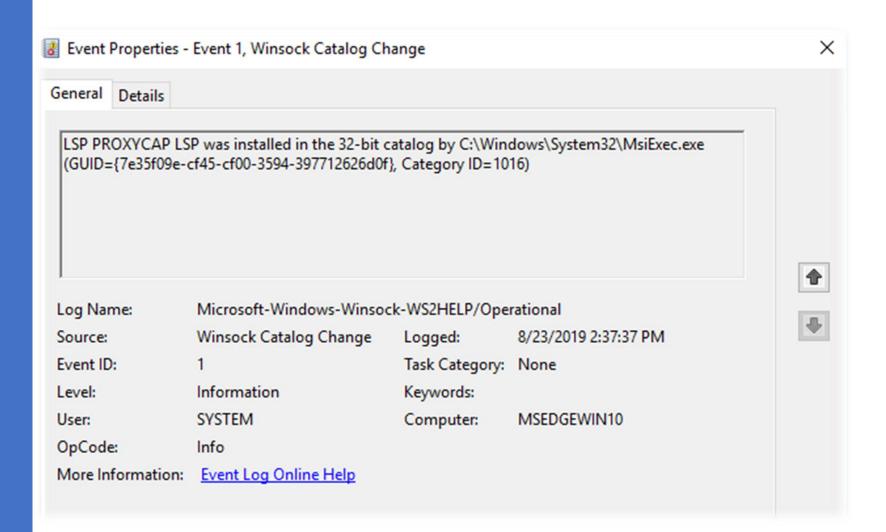
Author: @SBousseaden

The Power of Windows EVT

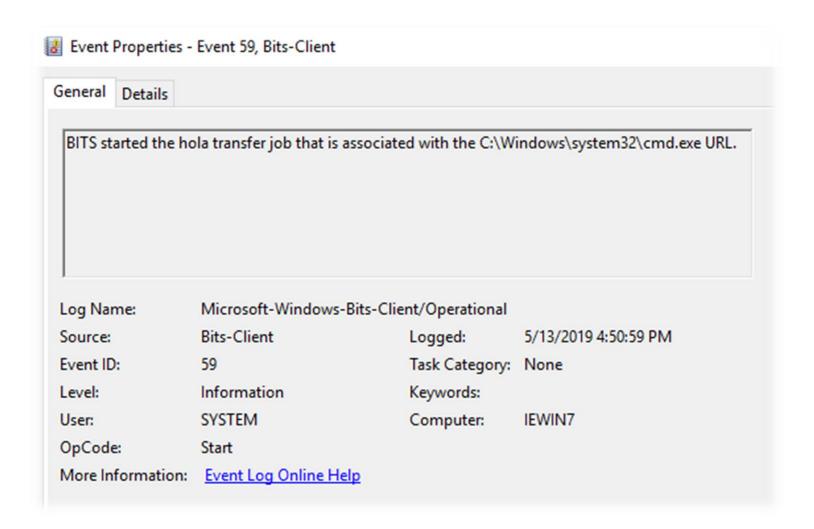
#DFIR — Collection of Events useful for

Forensics

Persistence – WinSock



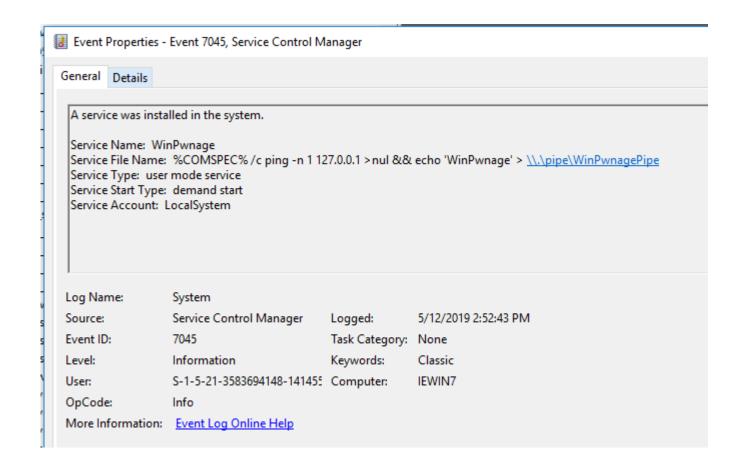
Persistence – BITS



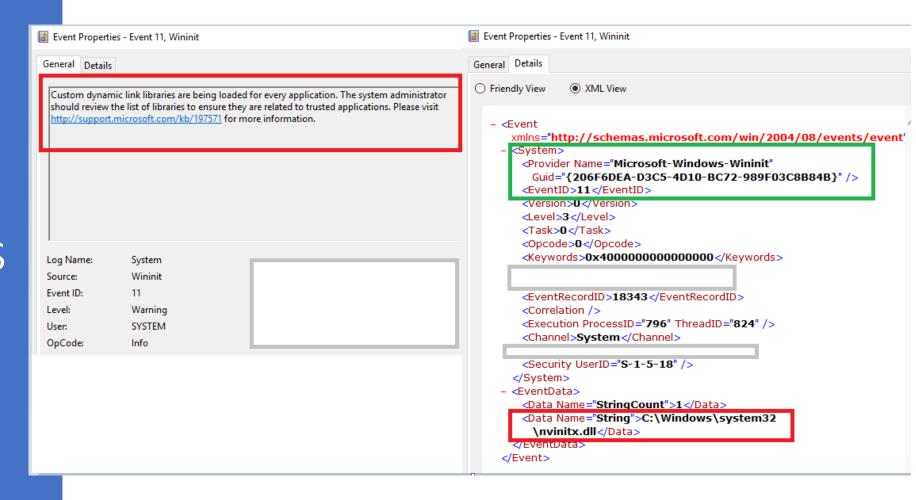
Execution -Control Panel



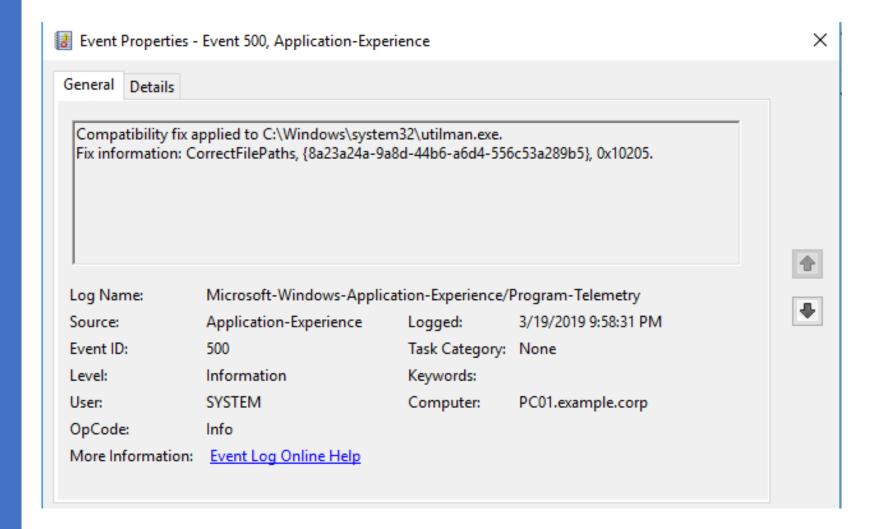
Traces of PrivEsc (np's privileged client token imperson)



Persistence: Applnit_DLLs



Traces of Persistence / Accessibility Backdoor via Shim AppPatch



Traces of BlueKeep Scan Traces on Win10 "ms_t120 chan"

Event Properties - Event 148, RemoteDesktopServices-RdpCoreTS

General Details Channel ms_t120 has been closed between the server and the client on transport tunnel: 0. Log Name: Microsoft-Windows-RemoteDesktopServices-RdpCoreTS/Operational Source: RemoteDesktopServices-Rdr Logged: 8/28/2019 4:52:55 PM Event ID: Task Category: RemoteFX module 148 Information Level: Keywords: User: NETWORK SERVICE Computer: MSFDGFWIN10 OpCode: CloseConnection More Information: Event Log Online Help

Traces of RDP Tunneling

Event Properties - Event 4624, Microsoft Windows security auditing.

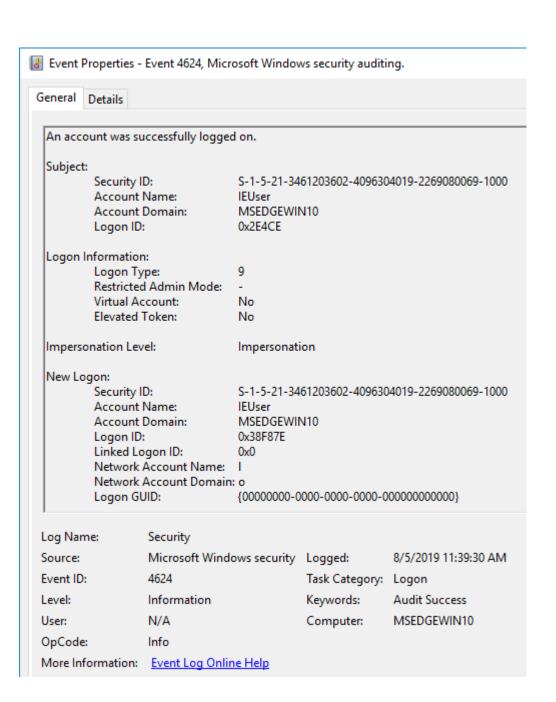
OpCode:

General Details An account was successfully logged on. Subject: SYSTEM Security ID: PC02\$ Account Name: Account Domain: EXAMPLE 0x3E7 Logon ID: Logon Type: 10 New Logon: Security ID: S-1-5-21-3583694148-1414552638-2922671848-1000 Account Name: Account Domain: PC02 Logon ID: 0x45120 Logon GUID: Process Information: Process ID: Process Name: C:\Windows\System32\winlogon.exe Network Information: Workstation Name: PC02 Source Network Address: 127.0.0.1 Source Port: Detailed Authentication Information: Logon Process: User32 Authentication Package: Negotiate Transited Services: Package Name (NTLM only): Key Length: This event is generated when a logon session is created. It is generated on the computer that was accessed. The subject fields indicate the account on the local system which requested the logon. This is most commonly a service such as the Server service, or a local process such as Winlogon.exe or Services.exe. Log Name: Security Source: Microsoft Windows security Logged: 2/13/2019 4:26:53 PM Task Category: Logon Event ID: 4624 Information Keywords: Audit Success Level: User: N/A Computer: PC02.example.corp

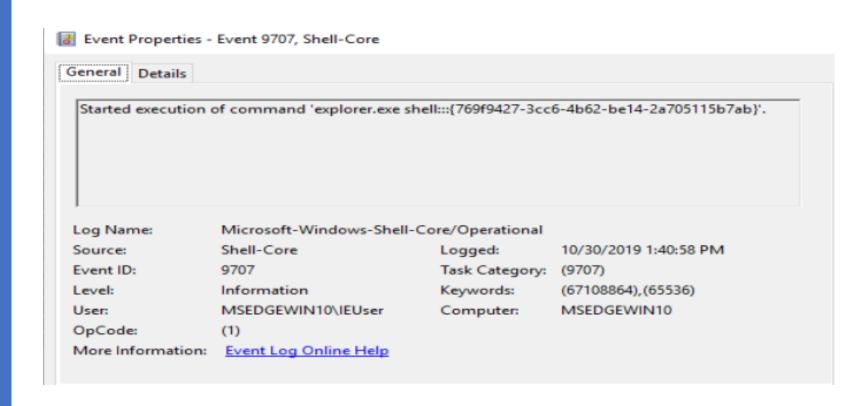
Traces of RDP Tunneling

😹 Event Properties - Event 1149, TerminalServices-RemoteConnectionManager General Details Remote Desktop Services: User authentication succeeded: User: admin01 Domain: example Source Network Address: 127.0.0.1 Log Name: Microsoft-Windows-TerminalServices-RemoteConnectionManager/Operational Source: TerminalServices-RemoteCo Logged: 2/13/2019 7:04:57 PM Event ID: 1149 Task Category: None Level: Information Keywords: User: NETWORK SERVICE PC01.example.corp Computer: OpCode: Info More Information: Event Log Online Help

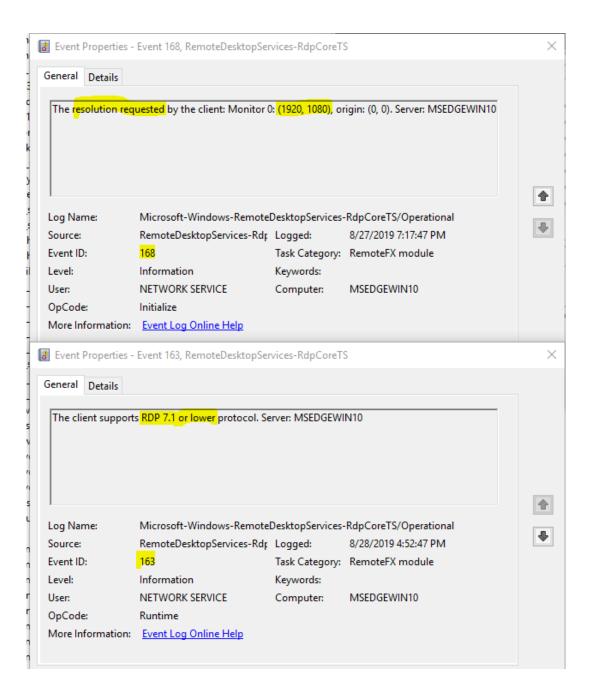
PrivEsc: Traces of InvokeToeknDuplication – UAC Bypass hardcoded strings



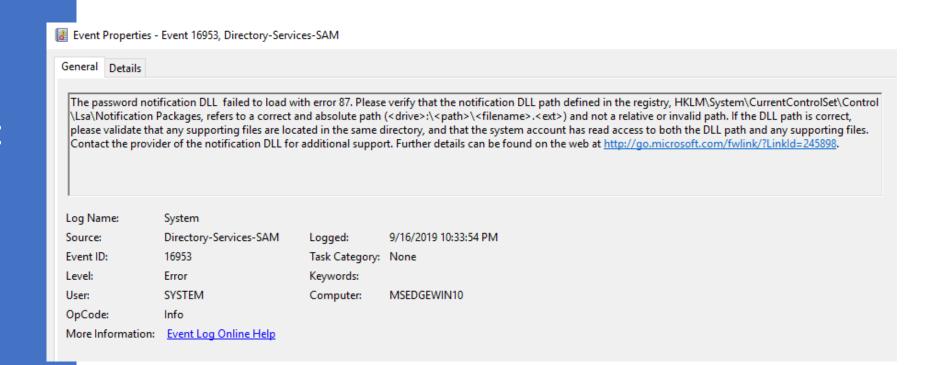
Traces of Persistence via Run/RunOnce (9707, 9708)



Lateral Movement Obsolete RDC "RDP Client" Info (xfreerdp)



Traces of previous
"Lsa Notification
Packages" [T1174:
Password Filter]
cleaned or
corrupted entry EventID 16953



Execution - Traces of unsigned Drivers/Modules

Event Properties - Event 3001, CodeIntegrity

General Details

Code Integrity determined an unsigned kernel module \Device\HarddiskVolume2\Windows \System32\drivers\A3E64E55_pr.sys is loaded into the system. Check with the publisher to see if a signed version of the kernel module is available.

Log Name: Microsoft-Windows-CodeIntegrity/Operational

Source: CodeIntegrity Logged: 10/6/2017 12:15:14 PM

Event ID: 3001 Task Category: (1)

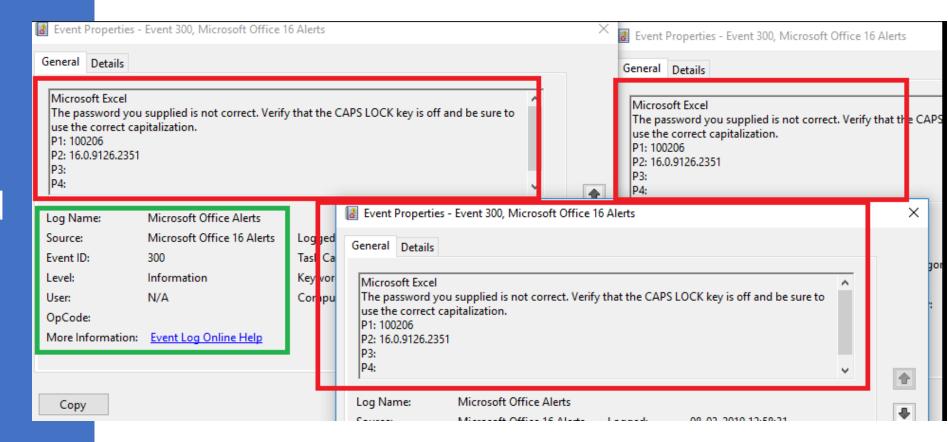
Level: Warning Keywords:

User: SYSTEM Computer: PC

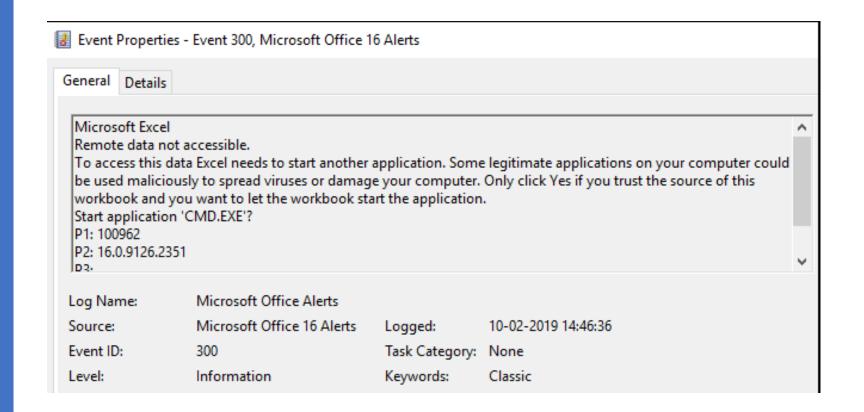
OpCode: (101)

More Information: Event Log Online Help

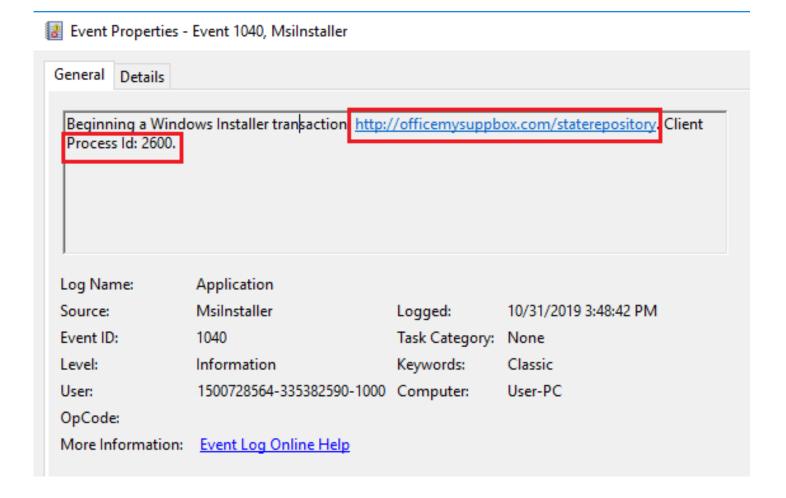
Traces of Brute forcing Protected Office File



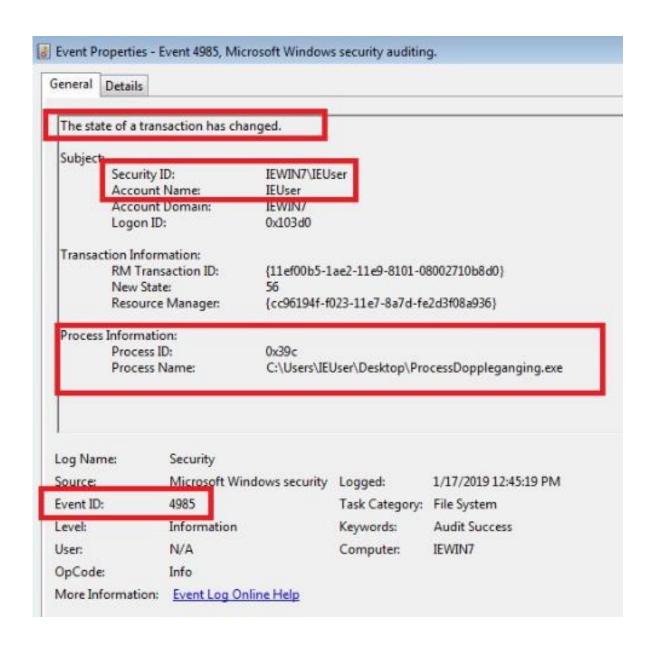
Initial Access: Traces of Phishing via DDE



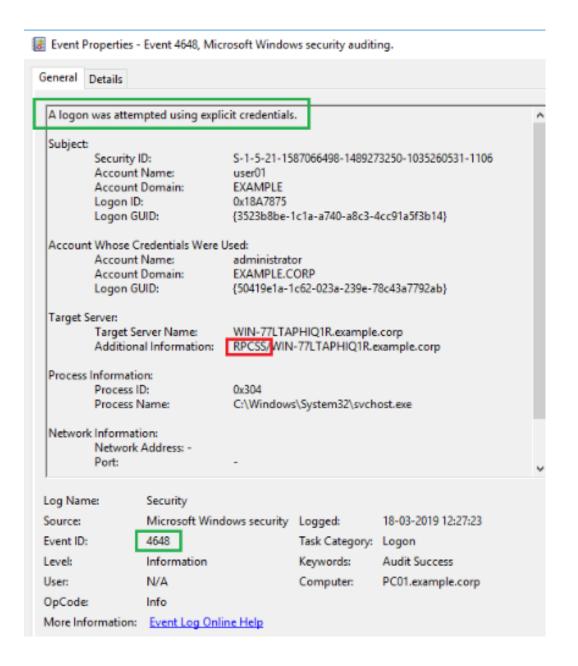
Initial Access: Traces of Phishing via MSIEXEC – 1040/1042



Defense Evasion:
Traces of Injection
via Process
Doppleganging
(NTFS transc)



Lateral Movmt: Traces of Outbound DCOM LM activity (RPCSS SPN)



Lateral Movmt:
Traces of Inbound
RDP (ProcName
winlogon +
NetAddrs!="localho
st or null or -")

Event Properties - Event 4648, Microsoft Windows security auditing.

General Details

A logon was attempted using explicit credentials.

Subject:

 Security ID:
 S-1-5-18

 Account Name:
 PC02\$

 Account Domain:
 EXAMPLE

 Logon ID:
 0x3E7

Logon GUID: {00000000-0000-0000-0000000000000}

Account Whose Credentials Were Used:

Account Name: IEUser Account Domain: PC02

Logon GUID: {00000000-0000-0000-0000-000000000000}

Target Server:

Target Server Name: localhost Additional Information: localhost

Process Information:

Process ID: 0xd94

Process Name: C:\Windows\System32\winlogon.exe

Network Information:

Network Address: 10.0.2.18 Port: 49175

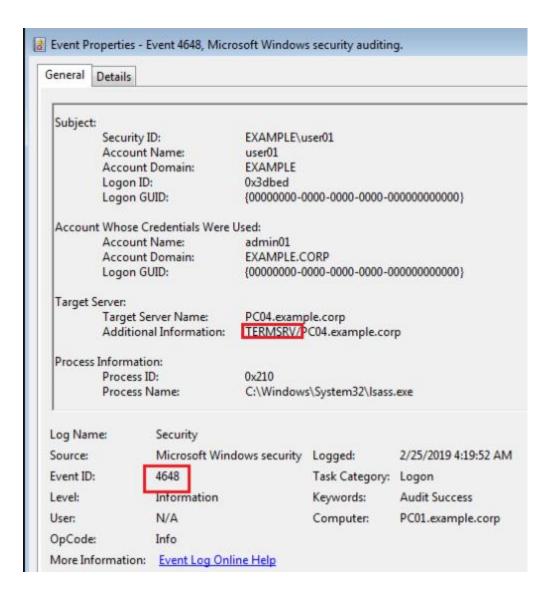
Log Name: Security

Source: Microsoft Windows security Logged: 13-02-2019 13:53:04

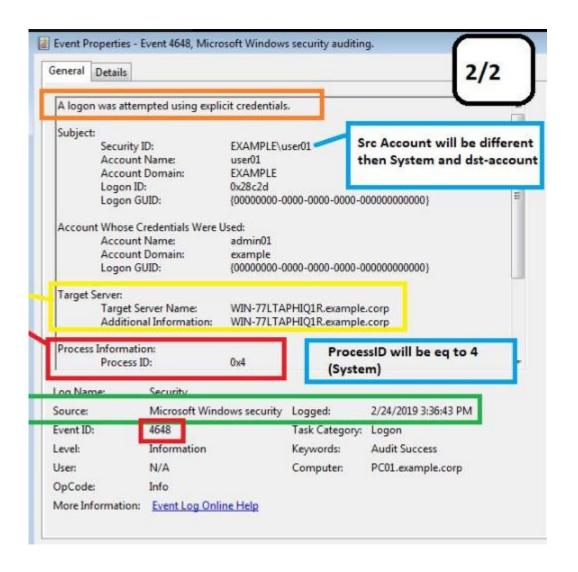
Event ID: 4648 Task Category: Logon

Level: Information Keywords: Audit Success
User: N/A Computer: PC02.example.corp

Lateral Movmt: Traces of Outbound RDP (TERMSRV SPN)



Lateral Movmt:
Traces of Outbound
SMB (ProcId=0x4 &
TargetServName!=I
ocalhost)



Traces of usage of sc.exe for Lateral Movmt (same apply to other utilities like wmic when used with explicit creds)

