Event IDs for Hunting

Logon Events:

- 4624 successful logon
- 4625 failed logon
- 4634 logoff
- 4647 user initiated logoff
- 4688 logon attempted using explicit credentials
- 4768 Kerberos ticket requested
- 4769 Kerberos service ticket requested
- 4703 logon rights adjusted
- 4704 user right assigned
- 4705 user right removed
- 4717 system security access granted
- 4718 system security access removed
- 4770 Kerberos service ticket renewed
- · 4771 Kerberos pre-auth failed
- · 4772 Kerberos auth ticket request failed
- 4773 Kerberos service ticket requested failed
- · 4776 NTLM account auth
- · 4777 DC failed to validate credentials
- 4820 Kerberos TGT device request denied
- 4821 Kerberos TGT device / user request denied
- 4824 Kerberos DES / RC4 pre-auth failed
- 4964 special group assigned to new logon

Account management logs:

- 4720 account created
- 4722 account enabled
- · 4725 account disabled
- · 4726 account deleted
- · 4738 account changed
- 4740 account locked out
- 4741 computer account created
- 4742 computer account changed
- 4743 computer account deleted
- 4767 account unlocked
- 6420 device account disabled
- 6421 request to enable a device account
- 6422 device account enabled

Directory Service Object logs:

- 4739 domain policy changed
- 5136 object value added / deleted
- Action = %%14674 object added
- Action = %%14675 object deleted
- 5137 object created
- 5138 object restored
- 5139 object moved

Sysmon logs:

- · 1 process creation
- · 2 file creation time changed
- · 3 network connection
- · 4 sysmon service state change
- 5 process terminated
- 6 driver loaded
- · 7 image loaded
- · 8 remote thread created
- 9 raw access read, memory / file; e.g. "\\.\"
- 10 process accessing other process
- · 11 file created
- 12 registry object create / delete
- · 13 registry value set
- 14 registry key or value renamed
- 15 file alternate data stream created
- 17 named pipe created
- · 18 Named pipe connected
- 19 WMI filter event registered
- · 20 WMI consumer event registered
- 21 WMI consumer to filter binding registered
- · 22 DNS query
- 23 file deleted
- 255 sysmon error

ScheduledTask logs:

- 4698 created
- 4699 deleted
- 4700 enabled
- 4701 disabled
- 4702 updated

Group management logs:

Account added

- · 4728 security enabled global group
- · 4732 security enabled local group
- · 4746 security disabled local group
- · 4751 security disabled global group
- · 4756 security enabled universal group
- 4761 security disabled universal group

Account removed

- · 4729 security enabled global group
- · 4733 security enabled local group
- 4747 security disabled local group
- · 4752 security disabled global group
- · 4757 security enabled universal group
- · 4762 security disabled universal group

Group created

- · 4727 security enabled global group
- 4731 security enabled local group
- · 4754 security disabled local group
- 4749 security disabled global group
- · 4744 security enabled universal group
- 4759 security disabled universal group

Group deleted

- · 4730 security enabled global group
- · 4734 security enabled local group
- 4758 security disabled local group
- 4753 security disabled global group4748 security enabled universal group
- 4763 security disabled universal group

Group changed

- · 4735 security enabled global group
- · 4737 security enabled local group
- 4755 security disabled local group
- 4750 security disabled global group
- 4745 security enabled universal group
 4760 security disabled universal group

WMI logs:

- 5857 provider loaded
- 5858 query error
- 5860 temporary consumer
- 5861 permanent consumer

Network Share Access logs:

- 5140 share accessed
- 5145 share checked for desired access

Windows firewall logs:

- 4946 rule added
- 4947 rule modified
- 4950 FW setting changed
- · 4954 FW group policy changed
- 5025 FW service stopped
- 5031 app blocked from accepting connection
- 5152 packet blocked
- 5153 packet blocked by more restrictive filter
- 5155 app blocked from creating listening port
- 5157 network connection blocked
- 5447 FW filter was changed

NPS / Radius logs:

- · 6272 access granted
- 6273 access denied
- 6274 discarded user request
- · 6276 quarantined user
- 6277 access granted but host did not meet defined health policy
- 6278 access granted and host passed health policy check

Object event logs:

- · 4656 handle to object requested
- 4657 registry value modified
- 4658 handle to object closed
- 4659 handle to object requested to delete it
- 4660 object deleted
- 4661 handle to object requested
- · 4662 operation performed on object
- 4663 attempt made to access object
- 4664 attempt to create hard link
- · 4670 object permissions changed
- 4674 operation attempted on privileged object
- · 4715 audit policy of object changed
- 4817 auditing settings on object changed
- 4907 audit settings on object changed

Workstation logs:

- 4800 locked
- 4801 unlocked
- · 4802 screen saver started
- 4803 screen saver dismissed
- 4778 remote session reconnected
- 4779 remote session disconnected
- 4825 remote session access denied
- 6423 device installation forbidden by policy
- 6424 device installation allowed after having been forbidden

Certificate service logs:

- 4876 backup started
- 4877 backup completed
- 4878 restore started
- 4879 restore completed
- 4880 service started
- 4881 service stopped
- 4882 security permissions changed
- 4883 archived key retrieved
- 4884 cert imported
- 4885 audit filter changed
- 4886 cert request
- 4887 cert approved and issued
- 4888 cert request denied
- 4889 cert request state set to pending
- 4890 settings for cert services changed
- 4891 a setting changed
- 4892 property changed
- · 4893 key archived
- 4894 imported archived key
- 4895 CA cert published to AD
- 4896 rows deleted from cert DB
- 4897 role seperation enabled
- 4898 template loaded
- · 4899 template updated
- · 4900 template security updated

COM logs:

- 5888 object modified
- 5889 object deleted
- 5890 object added

SID history logs:

- · 4765 SID history added to account
- · 4766 SID history add to account failed
- 4830 SID history removed from an account

TPM / TBS logs:

- · 4671 TBS attempted access blocked
- · 4909 TBS local policy changed
- 4910 TBS group policy change

Misc. Event logs:

- 1102 event Log cleared
- 4616 system time changed
- 4622 LSA loaded security package
- · 4649 replay attack detected
- · 4664 file hard link created
- · 4697 service installation
- 4673 privileged service called
- 4719 system audit policy changed
- 4782 account password hash was accessed
- · 4906 crash on audit fail value changed
- 6281 Invalid page hashes of image file

Misc. Fields and Values of Interest

Account performing action:

Subject

Account on which action was performed:

- Member
- Target

Logon Type:

- 2 Interactive
- · 3 Network
- · 4 Batch
- 5 Service
- 7 Unlock
- 8 Network Cleartext
- 9 New Credentials
- 10 Remote Interactive
- 11 Cached Interactive

Failed Logon Status:

- 0xC0000064 Account Name Does Not Exist
- 0xC000006A Incorrect Password
- 0xC0000072 Account Disabled
- 0xC000006F Outside of Time Restrictions
- 0xC0000070 Workstation Restriction
- 0xC0000193 Account Expired
- 0xC0000071 Expired Password
- 0xC0000133 Clocks Out of Sync
- 0xC000005E No Logon Servers Available
- · 0xC000006D Bad Username or Auth Info
- 0xC000006E Bad user name or bad password
- 0xC00000DC Sam Server in Wrong State to Perform Desired Operation
- 0xC000018C Trust Relationship Between the Primary Domain and Trusted Domain Failed
- 0xC0000192 Netlogon Service Not Started
- 0xC00002EE Error Occurred During Logon
- 0xC0000413 Specified Account Not Allowed by Auth Firewall
- 0xC0000224 Change Password Next Logon
- 0xC0000225 Windows Bug Not a Risk
- · 0xc000015B Not Granted Logon Right
- 0xC0000234 Account is currently locked out

4703 Interesting privileges:

- · Elevated privileges
 - SeBackupPrivilege
- SeDebugPrivilege
- SeLoadDriverPrivilege
- SeChangeNotifyPrivilege
- SeShutdownPrivilege
- SeTcbPrivilege
- SeAssignPrimaryPrivilege
- SeTakeOwnershipPrivilege
- SeRestorePrivilege
- SeCreateTokenPrivilege
- SeEnableDelegationPrivilege
- System elevated privileges
 - SelmpersonatePrivilege
- SeAssignPrimaryTokenPrivilege

4697 Service installed:

- Driver type
 - 0x1 kernel driver
 - 0x2 file system driver
 - 0x4 service adapter
 - · 0x8 recognizer driver identifies file systems
 - 0x10 service that runs its own process
 - 0x20 service that shares process with other service(s)
- 0x110 same as 10 but allows desktop interaction
- 0x220 same as 20 but allows desktop interaction

Startup type

- · 0 driver started by system loader
- 1 driver started by lolnitSystem
- · 2 automatic
- · 3 manual
- 4 disabled

Kerberos weak encryption:

- Ticket encryption
 - · 0x1 des-cbc-crc
 - 0x2 des-cbc-md4
 - 0x3 des-cbc-md5
 - · 0x4 des-cbc-raw
- 0x5 des3-cbc-md5
- 0x6 des3-cbc-raw
- 0x17 rc4-hmac
- 0x18 rc4-hmac-exp

4769 - Delegated auth

 If the "Transited Services" field has a value, then delegated auth is being used.

4769 - Kerberos Failure Status:

- 0x1 Client's entry in database has expired
- · 0x2 Server's entry in database has expired
- 0x3 Requested protocol version not supported
- 0x4 Client's key encrypted in old master key
- 0x5 Server's key encrypted in old master key
- 0x6 Client not found in Kerberos database
- 0x7 Server not found in Kerberos database
- 0x8 Multiple principal entries in database
- 0x9 The client or server has a null key
- 0xa Ticket not eligible for postdating
- 0xb Requested start time is later than end time
- 0xc KDC policy rejects request
- 0xd KDC cannot accommodate requested option
- · 0xe -KDC has no support for encryption type
- · 0xf KDC has no support for checksum type
- 0x10 KDC has no support for pre-auth data type
- · 0x11 KDC has no support for transited type
- 0x12 Clients credentials have been revoked
- 0x13 Credentials for server have been revoked
- 0x14 TGT has been revoked
- · 0x15 Client not yet valid, try again later
- 0x16 Server not yet valid, try again later
- · 0x17 Password has expired
- 0x18 Pre-authentication information was invalid

- · 0x19 Additional pre-authentication required
- 0x1a KDC does not know about the requested server
- 0x1b Server principal valid for user2user only
- · 0x1f Integrity check on decrypted field failed
- · 0x20 Ticket expired
- · 0x21 Ticket not yet valid
- · 0x22 Request is a replay
- · 0x23 The ticket isn't for us
- · 0x24 Ticket and authenticator don't match
- 0x25 Clock skew too great
- · 0x26 Incorrect net address
- 0x27 Protocol version mismatch
- 0x28 Invalid msg type
- · 0x29 Message stream modified
- · 0x2a Message out of order
- · 0x2c Specified version of key is not available
- · 0x2d Service key not available
- 0x2e Mutual authentication failed
- 0x2f Incorrect message direction
- 0x30 Alternative authentication method required
- 0x31 Incorrect sequence number in message
- 0x32 Inappropriate type of checksum in message
- · 0x33 Path is unreachable
- 0x34 Too much data
- 0x3c Generic error
- 0x3d Field is too long for this implementation
- · 0x3e Client trust failed or not implemented
- 0x3f KDC trust failed or could not be not verified
- 0x40 Signature invalid
- 0x41 Higher encryption level needed
- · 0x42 User2user auth required
- · 0x43 TGT not presented or available
- 0x44 Incorrect domain or principal