

Windows auditing baseline

Classic event log

- System
- Security
- Application

SYSMON

- Microsoft-Windows-Sysmon/Operational
- Event log

SMB

- Event log
  - Client
    - Microsoft-Windows-SMBClient/Operational
    - Microsoft-Windows-SMBClient/Security
  - Server
    - Microsoft-Windows-SMBServer/Security
    - Microsoft-Windows-SMBServer/Operational
    - Microsoft-Windows-SMBServer/Audit
- Audit policy
  - Security
  - Audit Detailed File Share (S/F)
  - Audit File Share (S/F)

Firewall

- File (TXT)
  - %systemroot%\system32\LogFiles\Firewall\pfirewall.log
- Event log
  - Security
    - Optional
    - Microsoft-Windows-Windows Firewall With Advanced Security/Firewall
    - Microsoft-Windows-Sysmon/Operational
- Audit policy
  - Noisy
    - Audit Filtering Platform Packet Drop (S/F)
    - Audit Filtering Platform Connection (S/F)
    - Audit Filtering Platform Policy Change (S/F)
    - Audit MPSSVC Rule-Level Policy Change
- 3rd party
  - zeronetworks / rpcfirewall

Network related

- RDP (session activity)
  - Event log
    - Microsoft-Windows-RemoteDesktopServices-RdpCoreTS/Operational
    - Microsoft-Windows-TerminalServices-LocalSessionManager/Operational
    - Microsoft-Windows-TerminalServices-RDPCClient/Operational
    - Microsoft-Windows-TerminalServices-RemoteConnectionManager/Operational
    - Microsoft-Windows-TerminalServices-RDPCClient/Operational
- DNS client
  - Event log
    - Microsoft-Windows-DNS-Client/Operational
    - Microsoft-Windows-Sysmon/Operational
- Bits
  - Event log
    - Microsoft-Windows-Bits-Client/Operational
- OpenSSH
  - Event log
    - OpenSSH/Operational
    - OpenSSH/Admin
- WinRM
  - Event log
    - Microsoft-Windows-WinRM/Operational
- Proxy
  - Event log
    - Microsoft-Windows-WinNet-Config/ProxyConfigChanged
- DHCP client
  - Event log
    - Microsoft-Windows-Dhcp-Client/Admin
    - Microsoft-Windows-Dhcpv6-Client/Admin
- Network profiles
  - Event log
    - Microsoft-Windows-NetworkProfile/Operational
- WLAN activity
  - Event log
    - Microsoft-Windows-WLAN-AutoConfig/Operational
- WinSock
  - Event log
    - Microsoft-Windows-Winsock-WS2HELP/Operational

<https://nasbench.medium.com/finding-forensic-goodness-in-obs-cure-windows-event-logs-60e978ea45a3>

WMI / DCOM

- Event log
  - Microsoft-Windows-WMI-Activity
  - System
    - Provider: Microsoft-Windows-DistributedCOM

System

- System boot
  - Event log
    - System
      - Provider: User32
      - Provider: Microsoft-Windows-Kernel-General
      - Provider: Microsoft-Windows-Kernel-Boot
      - Provider: Microsoft-Windows-Kernel-Power
- Windows Event log / WEF-WEC
  - Event log
    - WEC server
      - Microsoft-Windows-EventCollector/Operational
    - WEF client
      - Microsoft-Windows-Forwarding/Operational
    - Event log status
      - System
        - Provider: Microsoft-Windows-Eventlog
    - System
      - Provider: Microsoft-Windows-GroupPolicy
- Group Policy (GPO)
  - Event log
    - Microsoft-Windows-GroupPolicy/Operational
    - Microsoft-Windows-Security-Audit-Configuration-Client/Operational
- Time
  - Event log
    - System
      - Provider: Microsoft-Windows-Time-Service
      - Provider: Microsoft-Windows-Kernel-General
    - Microsoft-Windows-DateTimeControlPanel/Operational
    - Microsoft-Windows-Time-Service/Operational

Software & Updates

- Software
  - Event log
    - Application
      - Provider: MsInstaller
      - Microsoft-Windows-Application-Experience/Program-Inventory
      - Microsoft-Windows-Application-Experience/Program-Compatibility-Assistant
        - ID 17
        - Program Compatibility Assistant execution
      - Microsoft-Windows-WindowsUpdateClient/Operational
- Windows Update
  - Event log
    - System
      - Provider: Microsoft-Windows-WindowsUpdateClient
    - Setup
      - Provider: Microsoft-Windows-Servicing
      - Provider: Application Error
      - Provider: Application Hang
      - Provider: Windows Error Reporting
- Application crash
  - Event log
    - System
      - Provider: Application Error
      - Provider: Application Hang
      - Provider: Windows Error Reporting

Task & Service

- Task Scheduler
  - Event log
    - Security
      - ID 4698
      - ID 4699
      - ID 4700
      - ID 4701
      - ID 4702
    - Microsoft-Windows-TaskScheduler/Operational
  - Audit policy
    - Audit Other Object Access Events (S/F)
- Services
  - Event log
    - Security
    - System
      - Provider: Service Control Manager
  - Audit policy
    - Audit Security System Extension (S/F)

Security related

- Windows Defender
  - Event log
    - Microsoft-Windows-Windows Defender/Operational
    - Microsoft-Windows-DeviceGuard/Operational
- AppLocker
  - Event log
    - Microsoft-Windows-AppLocker/MSI and Script
    - Microsoft-Windows-AppLocker/EXE and DLL
      - Application
        - Provider: Microsoft-WindowsSoftwareRestrictionPolicies
- CVE
  - Event log
    - System
      - Provider: Microsoft-Windows-Audit-CVE
- Crypto
  - Event log
    - Microsoft-Windows-Crypto-DPAPI/Operational
    - Microsoft-Windows-CAPI2/Operational
- LSA
  - Event log
    - Microsoft-Windows-CodeIntegrity/Operational
      - ID 3033, 3063
      - Block mode for failed LSA plug-ins and drivers
    - Microsoft-Windows-LSA/Operational
      - ID 3065, 3066
      - Audit mode for failed LSA plug-ins and drivers
    - Microsoft-Windows-LSA/Operational
      - ID 300
      - Group assigned to new session
    - Security
    - System
      - Provider: Wininit
        - ID 12
        - LSA started as a protected process
- BitLocker
  - Event log
    - Microsoft-Windows-BitLocker/BitLocker Operational
    - Microsoft-Windows-BitLocker/BitLocker Management
- Microsoft Office
  - Event log
    - OAlerts
- Security mitigations
  - Event log
    - Microsoft-Windows-Security-Mitigations/KernelMode
    - Microsoft-Windows-Security-Mitigations/UserMode
- Code integrity & Kernel drivers
  - Event log
    - Microsoft-Windows-CodeIntegrity/Operational
      - ID 3001-3004, 3010, 3023
    - System
      - Provider: Kernel-PnP
        - ID 219
        - Failed kernel driver loading
    - Security
      - ID 5038
      - Invalid image hash of a file
      - ID 628
      - Invalid page hash of an image file
      - ID 6410
      - File does not meet requirements to load into a process
- DLL load
  - Event log
    - System
      - Provider: Wininit
        - ID 11
        - Custom DLL loaded for every application
    - Sysmon
      - ID 7
      - Image loaded

PowerShell

- Transcript logs (TXT)
- Event log
  - Microsoft-Windows-PowerShell/Operational
  - Windows PowerShell
  - Microsoft-Windows-PowerShell-DesiredStateConfiguration-FileDownloadManager/Operational
- Auditing settings
  - Module logging
  - Script block logging
  - Transcript

External device related

- Drivers
  - Log file (TXT)
    - C:\Windows\INF\SetupAPI.dev.log
  - Eventlog
    - Security
    - Microsoft-Windows-Kernel-PnP/Configuration
      - ID 400
      - New mass storage installation
      - ID 410
      - New mass storage configuration
    - Microsoft-Windows-DriverFrameworks-UserMode/Operational
    - Microsoft-Windows-Partition/Diagnostic
  - Audit policy
    - Removable storage (S/F)
- Printer
  - Event log
    - Microsoft-Windows-PrintService/Admin
    - Microsoft-Windows-PrintService/Operational
- RDP (device activity)
  - Event log
    - Microsoft-Windows-TerminalServices-ClientUSBDevices/Operational
    - Microsoft-Windows-TerminalServices-PnPDevices/Operational
    - Microsoft-Windows-TerminalServices-ServerUSBDevices/Operational

Author: mdecrevoisier  
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Disabled event log