ELK Threat Hunting Cheatsheet ## Quick Wins

Monero Cryptomining

KQL: process.name: "xmr-stak" OR process.name: "xmrig" Lucene: process.name:(xmr-stak OR xmrig)

Petya, Mischa, und GoldenEye

KQL: file.name: "*petya*" OR file.name: "*mischa*" OR file.name: "*goldeneye*" Lucene: file.name:(*petya* OR *mischa* OR *goldeneye*)

Suspicious Logins (Windows)

KQL: event.category: "authentication" AND event.outcome: "failure" Lucene: event.category:authentication AND event.outcome:failure

Local File Inclusion (Web Application Attacks)

KQL: http.request.body.content: "/etc/passwd" Lucene: http.request.body.content:/etc/passwd

Command Injection (Web Application Attacks)

KQL: http.request.body.content: ";" Lucene: http.request.body.content:;

Binary Attacks (Windows)

KQL: file.extension: "exe" AND process.args: ("-nop", "-exec") Lucene:
file.extension:exe AND process.args:(-nop OR -exec)

PowerShell Logging for Phishing Attacks

KQL: process.name: "powershell.exe" AND process.args: "DownloadString" Lucene: process.name:powershell.exe AND process.args:DownloadString

Bypassing UAC (Windows Privilege Escalation)

KQL: event.code: "4688" AND process.args: "sdbinst.exe" Lucene: event.code:4688 AND process.args:sdbinst.exe

Persisting via Windows Service (Windows Persistence)

KQL: event.code: "7045" OR event.code: "4697"
Lucene: event.code: (7045 OR 4697)

Command Injection (Linux Server Side Attacks)

KQL: process.args: "&&" OR process.args: ";" OR process.args: "|" Lucene: process.args:(&& OR ; OR |)

SQL Injection (Linux Server Side Attacks)

KQL: http.request.body.content: "UNION SELECT" Lucene: http.request.body.content:UNION SELECT

Known Vulnerabilities (Network Detections)

KQL: network.protocol: "http" AND http.response.status_code: "404" Lucene: network.protocol:http AND http.response.status_code:404

Antivirus Overview (Antivirus Alerts and Evasion)

KQL: event.category: "antivirus" AND event.outcome: "block" Lucene: event.category:antivirus AND event.outcome:block

Brute Force Anmeldeversuche

KQL: event.category: "authentication" AND event.outcome: "failure" AND event.duration > 5

Unbekannte oder seltene User-Agents

```
KQL: NOT user_agent.name: ("Chrome", "Firefox", "Safari", "Edge") Lucene:
NOT user_agent.name:(Chrome OR Firefox OR Safari OR Edge)
```

Zugriff von unbekannten geografischen Regionen

```
KQL: NOT source.geo.country_iso_code: ("US", "DE", "FR", "GB") Lucene:
NOT source.geo.country iso code: (US OR DE OR FR OR GB)
```

Dateiänderungen in kritischen Verzeichnissen (z.B. /etc/)

KQL: file.path: "/etc/*" AND event.action: "modified" Lucene: file.path:/etc/* AND event.action:modified

Ausführung von seltenen Prozessen

```
KQL: NOT process.name: ("sshd", "httpd", "mysqld")
Lucene: NOT process.name:(sshd OR httpd OR mysqld)
```

Verdächtige PowerShell-Befehle

```
KQL: process.name: "powershell.exe" AND process.args: ("EncodedCommand", "Bypass", "-NoP") Lucene: process.name:powershell.exe AND process.args:(EncodedCommand OR Bypass OR -NoP)
```

Zugriff auf kritische Dateien

```
KQL: file.name: ("passwd", "shadow", "hosts") AND event.action: "read" Lucene: file.name:(passwd OR shadow OR hosts) AND event.action:read
```

Verdächtige Netzwerkverbindungen zu bekannten schlechten IP-Adressen

```
KQL: destination.ip: ("9.9.9.9", "8.8.8.8") Lucene: destination.ip:(9.9.9.9 OR 8.8.8.8)
```

Verdächtige Outbound-Verbindungen auf hohen Ports

```
KQL: destination.port > 1024 AND network.direction: "outbound" Lucene: destination.port:>1024 AND network.direction:outbound
```

Dateierstellung in temporären Verzeichnissen

```
 \textbf{KQL:} \  \, \textbf{file.path:} \  \, \textbf{"/tmp/*" AND event.action:} \  \, \textbf{"created"} \  \, \textbf{Lucene:} \  \, \textbf{file.path:} \  \, \textbf{/tmp/* AND event.action:} \  \, \textbf{created}
```

OilRig Angriffserkennung (APT)

```
KQL: process.name: "powershell.exe" AND process.args: "Invoke-WebRequest" Lucene: process.name:powershell.exe AND process.args:Invoke-WebRequest
```

APT3 Angriffserkennung

```
KQL: file.name: "*backdoor*" OR process.name: "mimikatz.exe" Lucene: file.name: *backdoor* OR process.name:mimikatz.exe
```

APT28 Angriffserkennung

```
KQL: network.protocol: "http" AND http.request.body.content: "*malware*" Lucene: network.protocol:http AND http.request.body.content:*malware*
```

Suspicious PowerShell Core Remote Access

```
KQL: process.name: "pwsh.exe" AND process.args: "-Command" Lucene: process.name:pwsh.exe AND process.args:-Command
```

Persisting via DLL-Sideloading/Hijacking

```
KQL: file.extension: "dll" AND event.action: "created"
Lucene: file.extension:dll AND event.action:created
```

Linux Suspicious Logins

KQL: event.category: "authentication" AND event.outcome: "failure" AND host.os.name: "Linux" Lucene: event.category:authentication AND event.outcome:failure AND host.os.name:Linux

Linux Command Injection

KQL: process.name: "bash" AND process.args: (";", "&&") Lucene: process.name:bash AND process.args:(; OR &&)

Linux SQL Injection

KQL: http.request.body.content: "UNION SELECT" AND host.os.name: "Linux" Lucene: http.request.body.content:UNION SELECT AND host.os.name:Linux

Linux Abusing System Programs

KQL: process.name: ("sudo", "cron") AND user.name: "root" Lucene: process.name:(sudo OR cron) AND user.name:root

Network IDS Rule Crafting

KQL: network.protocol: "http" AND http.response.status_code: "403" Lucene: network.protocol:http AND http.response.status_code:403

Antivirus Block Events

KQL: event.category: "antivirus" AND event.outcome: "block" Lucene: event.category:antivirus AND event.outcome:block

Active Directory (AD) Angriffe

NTLM-Relay Angriff

KQL: (event_id:4624 OR event_id:4625) AND authentication_package:"NTLM" AND (logon_type:3 OR logon_type:10) Lucene: (event_id:4624 OR event_id:4625) AND authentication_package:"NTLM" AND (logon_type:3 OR logon_type:10)

Token Impersonation Angriff

KQL:

(event_id:4688 OR event_id:4624) AND (new_process_name:("*\\runas.exe" OR "*\\psexec.exe" OR "*\\at.exe" OR "*\\schtasks.exe" OR "*\
Lucene:
(event_id:4688 OR event_id:4624) AND (new_process_name:("*\\runas.exe" OR "*\\psexec.exe" OR "*\\at.exe" OR "*\\schtasks.exe" OR "*\\at.exe" OR "

(event_id:4688 OR event_id:4624) AND (new_process_name:("*\\runas.exe" OR "*\\psexec.exe" OR "*\\att.exe" OR "*\\schtasks.exe"

Kerberos Diamond Ticket Angriff

KQL:

(event_id:4769 OR event_id:4770) AND (service_name:"krbtgt" OR service_name:"krbtgt/") AND user_name != "ANONYMOUS LOGON"
Lucene:
(event_id:4769 OR event_id:4770) AND (service_name:"krbtgt" OR service_name:"krbtgt/") AND NOT user_name:"ANONYMOUS LOGON"

Kerberos Golden Ticket Angriff

KQL: event.code: "4769" AND ticket.options: "0x40810000" Lucene: event.code:4769 AND ticket.options:0x40810000

Kerberos Silver Ticket Angriff

KQL: event.code: "4769" AND ticket.encryption: "0x17" Lucene: event.code:4769 AND ticket.encryption:0x17

Pass-the-Hash (PtH)

KQL: event.code: "4624" AND logon.type: "9" Lucene: event.code:4624 AND logon.type:9

Pass-the-Ticket (PtT)

KQL: event.code: "4624" AND logon.type: "3" AND ticket.encryption: "0x12" Lucene: event.code:4624 AND logon.type:3 AND ticket.encryption:0x12

DCSync Angriff

```
KQL: event.code: "4662" AND object.name: "DS-Replication-Get-Changes" Lucene: event.code:4662 AND object.name:DS-Replication-Get-Changes
```

DCShadow Angriff

KQL:

(event_id:4662 OR event_id:5141 OR event_id:5142 OR event_id:5143 OR event_id:5144 OR event_id:5137 OR event_id:4660) AND (object_form)

Lucene:

(event_id:4662 OR event_id:5141 OR event_id:5142 OR event_id:5143 OR event_id:5144 OR event_id:5137 OR event_id:4660) AND (object_i

Gruppenmitgliedschaftsänderungen

KQL: event.code: "4728" OR event.code: "4729" Lucene: event.code: (4728 OR 4729)

SID History Injection

KQL: event.code: "4769" AND ticket.sids: "*S-1-5-*" Lucene: event.code:4769 AND ticket.sids:*S-1-5-*

Kerberoasting

KQL: event.code: "4769" AND ticket.service: "krbtgt" Lucene: event.code:4769 AND ticket.service:krbtgt

AS-REP Roasting

KQL

(event_id:4768 OR event_id:4771) AND (user_account_control:532480 OR user_account_control:532512) AND (service_name: "krbtgt" OR set Lucene:

(event_id:4768 OR event_id:4771) AND (user_account_control:532480 OR user_account_control:532512) AND (service_name:"krbtgt" OR ser

Overpass-the-Hash (Pass-the-Key)

KQL: event.code: "4624" AND logon.type: "3" AND authentication.package: "Kerberos" Lucene: event.code:4624 AND logon.type:3 AND authentication.package:Kerberos

ACL (Access Control List) Manipulation

KQL: event.code: "5136" AND object.class: "groupPolicyContainer" Lucene: event.code:5136 AND object.class:groupPolicyContainer

AdminSDHolder Object Tampering

KQL: event.code: "5136" AND object.name: "AdminSDHolder" Lucene: event.code:5136 AND object.name:AdminSDHolder

Skeleton Key Injection

KQL: event.code: "4624" AND logon.type: "9" AND process.name: "mimikatz.exe"

Lucene: event.code:4624 AND logon.type:9 AND process.name:mimikatz.exe

RID (Relative ID) Hijacking

KQL: event.code: "4724" AND user.id: "500" OR user.id: "512" OR user.id: "514" Lucene: event.code:4724 AND (user.id:500 OR user.id:512 OR user.id:514)

NTDS.dit Extraction

KQL: file.name: "ntds.dit" AND event.action: "read" Lucene: file.name:ntds.dit AND event.action:read

Group Policy Preference (GPP) Passwords

KQL: file.path: "\\SYSVOL*\\Policies*" AND file.name: "*.xml" Lucene:
file.path:\\SYSVOL*\\Policies* AND file.name:*.xml

SPN Scanning (Service Principal Name)

KQL: network.protocol: "ldap" AND ldap.request: "searchRequest" AND ldap.filter: "servicePrincipalName=*" Lucene: network.protocol:ldap AND ldap.request:searchRequest AND ldap.filter:servicePrincipalName=*

Token Manipulation und Privilege Escalation

KQL: event.code: "4672" AND NOT user.name: "Administrator" Lucene: event.code:4672 AND NOT user.name:Administrator

Suspicious Service Creation

KQL: event.code: "7045" AND service.name: "*mimikatz*" Lucene: event.code:7045 AND service.name:*mimikatz*

Suspicious Scheduled Task Creation

KQL: event.code: "4698" AND task.name: "*powershell*" Lucene: event.code:4698 AND task.name:*powershell*

Lateral Movement via WMI (Windows Management Instrumentation)

KQL: network.protocol: "dcerpc" AND process.name: "wmiprvse.exe" Lucene: network.protocol:dcerpc AND process.name:wmiprvse.exe

Lateral Movement via Remote Desktop (RDP)

KQL: event.code: "4624" AND logon.type: "10" Lucene: event.code:4624 AND logon.type:10

Suspicious Active Directory Replication

KQL: event.code: "4662" AND object.name: "DS-Replication-Get-Changes-All" Lucene: event.code:4662 AND object.name:DS-Replication-Get-Changes-All

Suspicious Directory Service Access

KQL: event.code: "4662" AND object.name: "user" Lucene: event.code:4662 AND object.name:user

Clear Text Passwords in Group Policy Preferences

KQL: file.path: "\\SYSVOL*\\Policies*" AND file.name: "Groups.xml" Lucene:
file.path:\\SYSVOL*\\Policies* AND file.name:Groups.xml

Suspicious DNS Queries (e.g., DGA patterns)

KQL: event.category: "dns" AND dns.question.name: "*aaaabbbbcccc*" Lucene: event.category:dns AND dns.question.name:*aaaabbbbcccc*

Unusual Hours of Activity (e.g., nighttime logins)

KQL: event.code: "4624" AND NOT @timestamp: ["08:00:00" TO "18:00:00"] Lucene: event.code:4624 AND NOT @timestamp:["08:00:00" TO "18:00:00"]

LDAP Angriffe

LDAP Anonymous Bind

KQL: event.category: "authentication" AND user.name: "ANONYMOUS LOGON" AND network.protocol: "ldap" Lucene: event.category:authentication AND user.name: "ANONYMOUS LOGON" AND network.protocol:ldap

LDAP Brute Force

KQL: event.category: "authentication" AND event.outcome: "failure" AND network.protocol: "ldap" Lucene: event.category:authentication AND event.outcome:failure AND network.protocol:ldap

LDAP Reconnaissance

KQL: network.protocol: "ldap" AND (ldap.request: "searchRequest" OR ldap.request: "bindRequest") Lucene: network.protocol:ldap AND (ldap.request:searchRequest OR ldap.request:bindRequest)

LDAP Clear-Text Passwörter

KQL: network.protocol: "ldap" AND ldap.attribute: "userPassword" Lucene: network.protocol:ldap AND ldap.attribute:userPassword

Windows Endpoint Angriffe

Suspicious Parent-Child Process Relationship (z.B. cmd.exe spawning

powershell.exe | KQL: process.parent.name: "cmd.exe" AND process.name: "powershell.exe" Lucene: process.parent.name:cmd.exe AND process.name:powershell.exe

Suspicious File Extensions (z.B. ausführbare Dateien aus dem

Temp-Verzeichnis) KQL: file.path: "C:\\Windows\\Temp*.exe" Lucene: file.path:C:\\Windows\\Temp*.exe

Mimikatz Execution Detection

KQL: process.name: "mimikatz.exe" Lucene: process.name:mimikatz.exe

Rubeus Execution Detection

KQL: process.name: "Rubeus.exe" Lucene: process.name:Rubeus.exe

Suspicious PowerShell Encoded Commands

KQL: process.name: "powershell.exe" AND process.args: "-EncodedCommand" Lucene: process.name:powershell.exe AND process.args:-EncodedCommand

Remote Code Execution via WMIC

KQL: process.name: "wmic.exe" AND process.args: "/NODE: process.name:wmic.exe AND process.args:/NODE:

Suspicious Use of net.exe (z.B. adding users)

KQL: process.name: "net.exe" AND process.args: "user" AND process.args: "add" Lucene: process.name:net.exe AND process.args:user AND process.args:add

Suspicious Registry Modifications (z.B. Run Keys for Persistence)

KQL: registry.path: "HKLM\\SOFTWARE\\Microsoft\\Windows\\CurrentVersion\\Run*" Lucene: registry.path:HKLM\\SOFTWARE\\Microsoft\\Windows\\CurrentVersion\\Run*

Suspicious Use of Bitsadmin (often used for downloading payloads)

KQL: process.name: "bitsadmin.exe" Lucene: process.name:bitsadmin.exe

Suspicious Use of Certutil (often used for downloading payloads)

KQL: process.name: "certutil.exe"

Lucene: process.name:certutil.exe

Suspicious Network Connections to Uncommon Ports

KQL: network.protocol: "tcp" AND NOT destination.port: (80, 443, 25, 53) Lucene: network.protocol:tcp AND NOT destination.port: (80 OR 443 OR 25 OR 53)

Suspicious Execution from Recycle Bin (often used to evade detection) KQL:

file.path: "C:\\\$Recycle.Bin*.exe"

Lucene: file.path:C:\\\$Recycle.Bin*.exe

Powershell Angriffe

Suspicious PowerShell Download Methods

KQL:

process.name: "powershell.exe" AND (process.args: "DownloadFile" OR process.args: "Invoke-WebRequest" OR process.args: "Invoke-Rest Lucene:

process.name:powershell.exe AND (process.args:DownloadFile OR process.args:Invoke-WebRequest OR process.args:Invoke-RestMethod)

PowerShell Base64 Encoded Commands

KQL: process.name: "powershell.exe" AND process.args: "-EncodedCommand" Lucene: process.name:powershell.exe AND process.args:-EncodedCommand

PowerShell Running with NoProfile Argument (often used to evade

profile-based logging) KQL: process.name: "powershell.exe" AND process.args: "-NoProfile" Lucene:
process.name:powershell.exe AND process.args:-NoProfile

PowerShell Direct Memory Access via Add-Type

KQL: process.name: "powershell.exe" AND process.args: "Add-Type" Lucene: process.name:powershell.exe AND process.args:Add-Type

Suspicious Use of Get-Credential Cmdlet (possible credential harvesting)

KQL: process.name: "powershell.exe" AND process.args: "Get-Credential" Lucene: process.name:powershell.exe AND process.args:Get-Credential

PowerShell Script Execution with Bypass Policy

KQL: process.name: "powershell.exe" AND process.args: "-ExecutionPolicy Bypass" Lucene: process.name:powershell.exe AND process.args: "-ExecutionPolicy Bypass"

PowerShell Accessing Windows API

KQL: process.name: "powershell.exe" AND process.args: "[DllImport" Lucene: process.name:powershell.exe AND process.args:[DllImport]

PowerShell Reflective DLL Injection

KQL: process.name: "powershell.exe" AND process.args: "System.Reflection.AssemblyName" Lucene: process.name:powershell.exe AND process.args:System.Reflection.AssemblyName

PowerShell Remote Command Execution

KQL: process.name: "powershell.exe" AND process.args: "-Command" AND process.args: "New-PSSession" Lucene: process.name:powershell.exe AND process.args:-Command AND process.args:New-PSSession

Suspicious PowerShell User Agents (often used in web requests)

KQL: user_agent.original: "Mozilla/5.0 (Windows NT; Windows NT 10.0; en-US) WindowsPowerShell" Lucene: user agent.original: "Mozilla/5.0 (Windows NT; Windows NT 10.0; en-US) WindowsPowerShell"

CMD Angriffe

Suspicious net.exe Usage (z.B. User hinzufügen)

KQL: process.name: "net.exe" AND process.args: "user" AND process.args: "add" Lucene: process.name:net.exe AND process.args:user AND process.args:add

Suspicious Execution of whoami (zum Abrufen des aktuellen Benutzers)

KQL: process.name: "whoami.exe" Lucene: process.name:whoami.exe

Suspicious Execution of ipconfig (zum Abrufen von Netzwerkinformationen)

KQL: process.name: "ipconfig.exe" Lucene: process.name:ipconfig.exe

Suspicious Execution of tasklist or taskkill

KQL: process.name: "tasklist.exe" OR process.name: "taskkill.exe" Lucene: process.name:tasklist.exe OR process.name:taskkill.exe

Suspicious Use of netstat (zum Überprüfen von Netzwerkverbindungen)

KQL: process.name: "netstat.exe" Lucene: process.name:netstat.exe

Suspicious Use of systeminfo (zum Abrufen von Systeminformationen)

KQL: process.name: "systeminfo.exe" Lucene: process.name:systeminfo.exe

Suspicious Use of nslookup or ping (zum Auflösen von Domänen oder

IP-Adressen) KQL: process.name: "nslookup.exe" OR process.name: "ping.exe" Lucene: process.name:nslookup.exe OR process.name:ping.exe

Suspicious Batch File Execution

KQL: file.extension: "bat" AND event.action: "execution" Lucene: file.extension:bat AND event.action:execution

Suspicious Use of cacls or icacls (zum Ändern von Dateiberechtigungen)

KQL: process.name: "cacls.exe" OR process.name: "icacls.exe" Lucene: process.name:cacls.exe OR process.name:icacls.exe

Suspicious Use of reg.exe (zum Ändern der Registrierung)

KQL: process.name: "reg.exe" AND (process.args: "add" OR process.args: "delete") Lucene: process.name:reg.exe AND (process.args:add OR process.args:delete) ## VBScript Angriffe

Suspicious Execution of VBScript Files

KQL: file.extension: "vbs" AND event.action: "execution" Lucene: file.extension:vbs AND event.action:execution

Suspicious Use of WScript or CScript (Standard VBScript Interpreter)

KQL: process.name: "wscript.exe" OR process.name: "cscript.exe" Lucene: process.name:wscript.exe OR process.name:cscript.exe

Suspicious Network Activity from VBScript

KQL: process.name: "wscript.exe" OR process.name: "cscript.exe" AND network.protocol: "http" Lucene: process.name:(wscript.exe OR cscript.exe) AND network.protocol:http

VBScript Accessing Shell.Application (often used for command execution)

KQL: file.extension: "vbs" AND file.content: "CreateObject(\"WScript.Shell\")" Lucene:
file.extension:vbs AND file.content:CreateObject("WScript.Shell")

VBScript Accessing ADODB.Stream (often used for writing files)

KQL: file.extension: "vbs" AND file.content: "CreateObject(\"ADODB.Stream\")" Lucene:
file.extension:vbs AND file.content:CreateObject("ADODB.Stream")

VBScript with Base64 Encoded Content (possible obfuscation)

KQL: file.extension: "vbs" AND file.content: "base64" Lucene: file.extension:vbs AND file.content:base64

Suspicious Use of GetObject (possible COM object abuse)

KQL: file.extension: "vbs" AND file.content: "GetObject" Lucene: file.extension:vbs AND file.content:GetObject

VBScript Accessing MSXML2.ServerXMLHTTP (often used for HTTP requests)

KQL: file.extension: "vbs" AND file.content: "CreateObject(\"MSXML2.ServerXMLHTTP\")" Lucene: file.extension:vbs AND file.content:CreateObject("MSXML2.ServerXMLHTTP")

VBScript Accessing Scripting.FileSystemObject (file operations)

KQL: file.extension: "vbs" AND file.content: "CreateObject(\"Scripting.FileSystemObject\")" Lucene:
file.extension:vbs AND file.content:CreateObject("Scripting.FileSystemObject")

VBScript with Suspicious Keywords (e.g., Execute, Eval)

KQL: file.extension: "vbs" AND (file.content: "Execute(" OR file.content: "Eval(") Lucene: file.extension:vbs AND (file.content:Execute(OR file.content:Eval() ## SYSMON Events

Prozesserstellung (Event ID 1)

KQL: event.code: "1" AND process.name: "suspicious.exe" Lucene: event.code:1 AND process.name:suspicious.exe

Dateizeitänderung (Event ID 2)

KQL: event.code: "2" AND file.name: "suspicious.dll" Lucene: event.code: 2 AND file.name:suspicious.dll

Netzwerkverbindung erkannt (Event ID 3)

KQL: event.code: "3" AND destination.ip: "8.8.8.8" Lucene: event.code: 3 AND destination.ip:8.8.8.8

Sysmon-Service-Status (Event ID 4)

KQL: event.code: "4" AND event.action: "stopped" Lucene: event.code: 4 AND event.action:stopped

Prozess beendet (Event ID 5)

KQL: event.code: "5" AND process.name: "malware.exe" Lucene: event.code: 5 AND process.name:malware.exe

Treiber geladen (Event ID 6)

KQL: event.code: "6" AND driver.name: "suspiciousdriver.sys" Lucene: event.code: 6 AND driver.name:suspiciousdriver.sys

Bild geladen (Event ID 7)

KQL: event.code: "7" AND file.name: "suspicious.dll" Lucene: event.code: 7 AND file.name:suspicious.dll

RemoteThread erstellt (Event ID 8)

KQL: event.code: "8" AND process.name: "exploit.exe" Lucene: event.code:8 AND process.name:exploit.exe

RawAccessRead (Event ID 9)

KQL: event.code: "9" AND file.name: "ntds.dit" Lucene: event.code: 9 AND file.name:ntds.dit

Prozesszugriff (Event ID 10)

KQL: event.code: "10" AND source.process.name: "hacker_tool.exe" Lucene: event.code:10 AND source.process.name:hacker_tool.exe ## Windows Crendetial Abuse Angriffe

Mimikatz Execution Detection

KQL: process.name: "mimikatz.exe" Lucene: process.name:mimikatz.exe

Suspicious Use of Windows Credential Dumping Tools

KQL: process.name: ("lsass.exe" OR "procdump.exe" OR "pwdump.exe") Lucene: process.name:(lsass.exe OR procdump.exe OR pwdump.exe)

Suspicious Access to SAM Registry Hive

KQL: registry.path: "HKLM\\SAM\\SAM\\Domains\\Account\\Users*" AND event.action: "value_set" Lucene: registry.path:HKLM\\SAM\\Domains\\Account\\Users* AND event.action:value set

Suspicious Access to SECURITY Registry Hive

KQL: registry.path: "HKLM\\SECURITY\\Policy\\Secrets*" AND event.action: "key_read" Lucene: registry.path:HKLM\\SECURITY\\Policy\\Secrets* AND event.action:key_read

Suspicious Use of Windows Credential UI (possible phishing)

KQL: process.name: "CredentialUIBroker.exe" Lucene: process.name: CredentialUIBroker.exe

Suspicious Dumping of LSASS Memory

KQL: process.name: "rundl132.exe" AND process.args: "comsvcs.dll, MiniDump" Lucene: process.name:rundl132.exe AND process.args:comsvcs.dll, MiniDump

Suspicious Use of Windows VaultCmd (reading stored credentials)

KQL: process.name: "vaultcmd.exe" AND process.args: "/list" Lucene: process.name:vaultcmd.exe AND process.args:/list

Suspicious Use of Windows Key Export (possible private key extraction)

KQL: process.name: "certutil.exe" AND process.args: "-exportpfx" Lucene: process.name:certutil.exe AND process.args:-exportpfx

Suspicious Use of Windows DPAPI (Data Protection API)

KQL: process.name: "powershell.exe" AND process.args: "Unprotect-CmsMessage" Lucene: process.name:powershell.exe AND process.args:Unprotect-CmsMessage

Suspicious Access to Cached Credentials

KQL: file.path: "C:\\Windows\\System32\\config\\systemprofile\\AppData\\Local\\Microsoft\\C redentials*" Lucene:
file .path:C:\\Windows\\System32\\config\\systemprofile\\AppData\\Local\\Microso ft\\Credentials*

Windows Brute Force Login-Angriffe

Mehrere fehlgeschlagene Anmeldeversuche (Event ID 4625)

KQL: event.code: "4625" AND logon.type: "3" Lucene: event.code:4625 AND logon.type:3

Mehrere erfolgreiche Anmeldeversuche in kurzer Zeit (Event ID 4624)

KQL: event.code: "4624" AND logon.type: "3"
Lucene: event.code: 4624 AND logon.type: 3

Mehrere RDP-Anmeldeversuche (Event ID 4624 und Logon Type 10)

KQL: event.code: "4624" AND logon.type: "10" Lucene: event.code:4624 AND logon.type:10

Mehrere Anmeldeversuche über NTLM (Event ID 4624 und Logon Process

"NtLmSsp") KQL: event.code: "4624" AND logon.process.name: "NtLmSsp" Lucene: event.code: 4624 AND logon.process.name: NtLmSsp

Mehrere Anmeldeversuche von einer einzigen IP-Adresse

KQL: event.code: "4625" AND source.ip: "192.168.1.10" Lucene: event.code:4625 AND source.ip:192.168.1.10

Mehrere Anmeldeversuche für einen einzigen Benutzernamen

KQL: event.code: "4625" AND user.name: "admin" Lucene: event.code:4625 AND user.name:admin

Mehrere Anmeldeversuche mit unterschiedlichen Benutzernamen von

derselben IP KQL: event.code: "4625" AND source.ip: "192.168.1.10" Lucene: event.code:4625 AND source.ip:192.168.1.10

Mehrere Anmeldeversuche über SMB (Event ID 4624 und Logon Type 3)

KQL: event.code: "4624" AND logon.type: "3" AND network.protocol: "smb" Lucene: event.code:4624 AND logon.type:3 AND network.protocol:smb

Mehrere Anmeldeversuche in kurzer Zeit (z.B. innerhalb von 5 Minuten)

KQL: event.code: "4625" AND date.range: "now-5m/m" Lucene: event.code:4625 AND date:[now-5m TO now]

Mehrere erfolgreiche und fehlgeschlagene Anmeldeversuche in kurzer Zeit

KQL: (event.code: "4624" OR event.code: "4625") AND date.range: "now-10m/m" Lucene:
 (event.code:4624 OR event.code:4625) AND date:[now-10m TO now] ## Windows Internet Information Services (IIS) Angriffe

SQL-Injection-Angriffsversuche in IIS-Logs

KQL: source: "iis" AND url: "*' OR 1=1--*"

Cross-Site-Scripting (XSS) Angriffsversuche in IIS-Logs

KQL: source: "iis" AND (url: "<script>" OR url: "%3Cscript%3E") Lucene: source:iis AND (url: <script> OR url:%3Cscript%3E)

Verdächtige User-Agents (z.B. Scanning-Tools)

KQL: source: "iis" AND user agent: "sqlmap" Lucene: source:iis AND user agent:sqlmap

Zugriffsversuche auf administrative Pfade

KQL: source: "iis" AND url: "/admin*" Lucene: source:iis AND url:/admin*

Zugriffsversuche auf nicht vorhandene Ressourcen (Error 404)

KQL: source: "iis" AND http.response.status_code: "404" Lucene: source:iis AND http.response.status_code:404

Verdächtige HTTP-Methoden (z.B. PUT, DELETE)

KQL: source: "iis" AND http.request.method: ("PUT" OR "DELETE") Lucene: source:iis AND http.request.method: (PUT OR DELETE)

Zugriffsversuche auf bekannte IIS-Schwachstellen

KQL: source: "iis" AND url: "/vulnpath*" Lucene: source:iis AND url:/vulnpath*

Verdächtige Anfrageraten (z.B. für DDoS oder Brute-Force)

KQL: source: "iis" AND event.rate: ">100" Lucene: source:iis AND event.rate:>100

Zugriffsversuche von verdächtigen IP-Adressen

KQL: source: "iis" AND source.ip: "10.0.0.1" Lucene: source:iis AND source.ip:10.0.0.1

Zugriffsversuche auf Backup- oder Temp-Dateien

KQL: source: "iis" AND (url: "*.bak" OR url: "*.tmp") Lucene: source:iis AND (url:*.bak OR url:*.tmp)

Windows Binary Attacks

Ausführung von selten verwendeten ausführbaren Dateien

KQL: process.extension: "exe" AND NOT process.name: ("winword.exe", "explorer.exe", "chrome.exe") Lucene: process.extension:exe AND NOT process.name:(winword.exe OR explorer.exe OR chrome.exe)

Ausführung von Binärdateien aus temporären Verzeichnissen

KQL: process.path: "C:\\Windows\\Temp*.exe" OR process.path: "C:\\Users*\\AppData\\Local\\Temp*.exe" Lucene: process.path:C:\\Windows\\Temp*.exe OR process.path:C:\\Users*\\AppData\\Local\\Temp*.exe

Ausführung von Binärdateien mit verdächtigen Argumenten (z.B. mimikatz

Befehle) KQL: process.args: "sekurlsa::logonpasswords" OR process.args: "privilege::debug" Lucene: process.args:sekurlsa::logonpasswords OR process.args:privilege::debug

Ausführung von Binärdateien mit doppelten Dateierweiterungen (z.B.

notepad.exe.doc.exe) KQL: file.name: "*.exe.*.exe" Lucene: file.name:*.exe.*.exe

Ausführung von Binärdateien, die als Dokumente getarnt sind (z.B.

document.pdf.exe) KQL: file.name: "*.pdf.exe" OR file.name: "*.docx.exe" Lucene: file.name:*.pdf.exe OR file.name:*.docx.exe

Ausführung von Binärdateien aus dem Download-Verzeichnis

KQL: process.path: "C:\\Users*\\Downloads*.exe" Lucene: process.path:C:\\Users*\\Downloads*.exe

Ausführung von Binärdateien mit Base64-kodierten Argumenten (mögliche

Verschleierung) KQL: process.args: "/base64" OR process.args: "-base64" Lucene: process.args:/base64 OR process.args:-base64

Ausführung von Binärdateien mit verdächtigen Netzwerkverbindungen

KQL: process.name: "suspicious_binary.exe" AND network.connection: "*" Lucene: process.name:suspicious_binary.exe AND network.connection:*

Ausführung von Binärdateien, die kürzlich geändert wurden

KQL: file.name: "*.exe" AND file.mtime: "now-ld/d"
Lucene: file.name:*.exe AND file.mtime:[now-ld TO now]

Ausführung von Binärdateien mit bekannten Malware-Hashes KQL: file.hash.md5: "known_malware_hash"

Lucene: file.hash.md5:known_malware_hash

Windows Defender Exploit Guard (WDEG)

Erkennung von Exploit-Schutzverletzungen

KQL: event.provider: "Microsoft-Windows-Security-Mitigations" AND event.code: "1" Lucene: event.provider:Microsoft-Windows-Security-Mitigations AND event.code:1

Erkennung von ASR-Regelverletzungen (Attack Surface Reduction)

KQL: event.provider: "Microsoft-Windows-Security-Mitigations" AND event.code: "1122" Lucene: event.provider:Microsoft-Windows-Security-Mitigations AND event.code:1122

Verdächtige Aktivitäten im Zusammenhang mit Controlled Folder Access

KQL: event.provider: "Microsoft-Windows-Security-Mitigations" AND event.code: "1124" Lucene: event.provider:Microsoft-Windows-Security-Mitigations AND event.code:1124

Verdächtige Aktivitäten im Zusammenhang mit Network Protection

KQL: event.provider: "Microsoft-Windows-Security-Mitigations" AND event.code: "1125" Lucene: event.provider:Microsoft-Windows-Security-Mitigations AND event.code:1125

Verdächtige Aktivitäten im Zusammenhang mit Exploit Protection

KQL: event.provider: "Microsoft-Windows-Security-Mitigations" AND event.code: "500" Lucene: event.provider:Microsoft-Windows-Security-Mitigations AND event.code:500

Verdächtige Änderungen der WDEG-Konfiguration

KQL: event.provider: "Microsoft-Windows-Security-Mitigations" AND event.code: "1127" Lucene: event.provider:Microsoft-Windows-Security-Mitigations AND event.code:1127

Verdächtige Aktivitäten im Zusammenhang mit Exploit Protection Policy

KQL: event.provider: "Microsoft-Windows-Security-Mitigations" AND event.code: "1128" Lucene: event.provider:Microsoft-Windows-Security-Mitigations AND event.code:1128

Verdächtige Aktivitäten im Zusammenhang mit Exploit Protection Rule

KQL: event.provider: "Microsoft-Windows-Security-Mitigations" AND event.code: "1129" Lucene: event.provider:Microsoft-Windows-Security-Mitigations AND event.code:1129

Verdächtige Aktivitäten im Zusammenhang mit Exploit Protection Setting

KQL: event.provider: "Microsoft-Windows-Security-Mitigations" AND event.code: "1130" Lucene: event.provider:Microsoft-Windows-Security-Mitigations AND event.code:1130

Verdächtige Aktivitäten im Zusammenhang mit Exploit Protection Audit

KQL: event.provider: "Microsoft-Windows-Security-Mitigations" AND event.code: "1131" Lucene: event.provider:Microsoft-Windows-Security-Mitigations AND event.code:1131

Microsoft Office Angriffe

Ausführung von Office-Anwendungen mit Makros

KQL: process.name: ("winword.exe", "excel.exe", "powerpnt.exe") AND process.args: "/m*" Lucene: process.name: (winword.exe OR excel.exe OR powerpnt.exe) AND process.args:/m*

Erstellung von Prozessen durch Office-Anwendungen (möglicher Indikator

für Makro-Ausführung) KQL: parent.process.name: ("winword.exe", "excel.exe", "powerpnt.exe") Lucene: parent.process.name:(winword.exe OR excel.exe OR powerpnt.exe)

Zugriff auf verdächtige Dateipfade durch Office-Anwendungen

KQL: process.name: ("winword.exe", "excel.exe", "powerpnt.exe") AND file.path: "C:\\Windows\\Temp*" Lucene:
process.name:(winword.exe OR excel.exe OR powerpnt.exe) AND file.path:C:\\Windows\\Temp*

Office-Anwendungen, die PowerShell ausführen

KQL: parent.process.name: ("winword.exe", "excel.exe", "powerpnt.exe") AND process.name: "powershell.exe" Lucene: parent.process.name:(winword.exe OR excel.exe OR powerpnt.exe) AND process.name:powershell.exe

Office-Anwendungen, die CMD ausführen

KQL: parent.process.name: ("winword.exe", "excel.exe", "powerpnt.exe") AND process.name: "cmd.exe" Lucene: parent.process.name: (winword.exe OR excel.exe OR powerpnt.exe) AND process.name:cmd.exe

Office-Anwendungen, die Netzwerkverbindungen herstellen

KQL: process.name: ("winword.exe", "excel.exe", "powerpnt.exe") AND network.connection: "*" Lucene: process.name: (winword.exe OR excel.exe OR powerpnt.exe) AND network.connection:*

Verdächtige Makro-Dateierweiterungen

KQL: file.extension: ("docm", "xlsm", "pptm") Lucene: file.extension:(docm OR xlsm OR pptm)

Office-Anwendungen, die CMD ausführen

KQL: parent.process.name: ("winword.exe", "excel.exe", "powerpnt.exe") AND process.name: "cmd.exe" Lucene: parent.process.name: (winword.exe OR excel.exe OR powerpnt.exe) AND process.name:cmd.exe

Zugriff auf verdächtige Registry-Schlüssel durch Office-Anwendungen

KQL:

process.name: ("winword.exe", "excel.exe", "powerpnt.exe") AND registry.path: "HKCU\\Software\\Microsoft\\Office*\\Security*"
Lucene:
process.name:(winword.exe OR excel.exe OR powerpnt.exe) AND registry.path:HKCU\\Software\\Microsoft\\Office*\\Security*

Office-Anwendungen, die verdächtige DLLs laden

KQL: process.name: ("winword.exe", "excel.exe", "powerpnt.exe") AND dll.name: "suspicious.dll" Lucene: process.name: (winword.exe OR excel.exe OR powerpnt.exe) AND dll.name: suspicious.dll

Office-Anwendungen, die Skript-Interpreter ausführen (z.B. wscript,

cscript) KQL:

parent.process.name: ("winword.exe", "excel.exe", "powerpnt.exe") AND process.name: ("wscript.exe", "cscript.exe")

Lucene: parent.process.name:(winword.exe OR excel.exe OR powerpnt.exe) AND process.name:(wscript.exe OR cscript.exe)

Angriffe mittels Obfuscating/Deobfuscating Commands

PowerShell-Befehle mit Base64-Codierung

```
KQL: process.name: "powershell.exe" AND process.args: "-encodedcommand*" Lucene: process.name:powershell.exe AND process.args:-encodedcommand*
```

PowerShell-Befehle mit langen Argumenten (mögliche Obfuskierung)

```
KQL: process.name: "powershell.exe" AND LENGTH(process.args) > 200 Lucene:
process.name:powershell.exe AND process.args:[200 TO *]
```

CMD-Befehle mit ^-Zeichen (mögliche Obfuskierung)

```
KQL: process.name: "cmd.exe" AND process.args: "*^*" Lucene: process.name:cmd.exe AND process.args:*^*
```

PowerShell-Befehle mit -replace-Operator (mögliche Deobfuskierung)

```
KQL: process.name: "powershell.exe" AND process.args: "-replace*" Lucene: process.name:powershell.exe AND process.args:-replace*
```

PowerShell-Befehle mit [char]-Casting (mögliche Obfuskierung)

```
KQL: process.name: "powershell.exe" AND process.args: "[char]*" Lucene: process.name:powershell.exe AND process.args:[char]*
```

PowerShell-Befehle mit IEX (Invoke-Expression)

```
KQL: process.name: "powershell.exe" AND (process.args: "iex" OR process.args: "Invoke-Expression") Lucene: process.name:powershell.exe AND (process.args:iex OR process.args:Invoke-Expression)
```

PowerShell-Befehle mit ToString-Methode (mögliche Deobfuskierung)

```
KQL: process.name: "powershell.exe" AND process.args: "ToString()*" Lucene: process.name:powershell.exe AND process.args:ToString()*
```

PowerShell-Befehle mit FromBase64String-Methode

```
KQL: process.name: "powershell.exe" AND process.args: "FromBase64String"* Lucene: process.name:powershell.exe AND process.args:FromBase64String*
```

PowerShell-Befehle mit verdächtigen -split-Operationen

```
KQL: process.name: "powershell.exe" AND process.args: "-split"* Lucene:
process.name:powershell.exe AND process.args:-split*
```

PowerShell-Befehle mit -join-Operationen

```
KQL: process.name: "powershell.exe" AND process.args: "-join"* Lucene: process.name:powershell.exe AND process.args:-join*
```

Windows Privilege Escalation

Unerwartete Prozesse, die mit hohen Berechtigungen laufen

```
KQL: process.integrity_level: "system" AND NOT process.name: ("services.exe", "lsass.exe", "winlogon.exe") Lucene: process.integrity_level:system AND NOT process.name: (services.exe OR lsass.exe OR winlogon.exe)
```

Zugriff auf SAM-Datei (enthält lokale Benutzerkonten)

```
KQL: file.path: "C:\\Windows\\System32\\config\\SAM" AND event.action: "read" Lucene:
file.path:C:\\Windows\\System32\\config\\SAM AND event.action:read
```

Zugriff auf SECURITY-Datei (enthält Sicherheitsinformationen)

```
KQL: file.path: "C:\\Windows\\System32\\config\\SECURITY" AND event.action: "read" Lucene:
file.path:C:\\Windows\\System32\\config\\SECURITY AND event.action:read
```

Verwendung von whoami /priv (zeigt Privilegien des aktuellen Benutzers

```
an) KQL: process.name: "whoami.exe" AND process.args: "/priv" Lucene: process.name:whoami.exe AND process.args:/priv
```

Ausführung von mimikatz oder ähnlichen Tools

KQL: process.name: "mimikatz.exe" Lucene: process.name:mimikatz.exe

Zugriff auf den Speicher von Isass.exe (möglicher Credential

Dumping-Versuch) KQL: process.name: "lsass.exe" AND event.action: "process_access" Lucene: process.name:lsass.exe AND event.action:process_access

Verwendung von Windows-Ereigniscode 4672 (Spezielle Berechtigungen

zugewiesen) KQL: event.code: "4672"
Lucene: event.code:4672

Verwendung von Windows-Ereigniscode 4688 (Ein neuer Prozess wurde

erstellt) mit hohen Berechtigungen KQL: event.code: "4688" AND process.integrity_level: "system" Lucene: event.code:4688 AND process.integrity_level:system

Zugriff auf secretsdump.py (Tool zum Dumpen von Passwörtern)

KQL: file.name: "secretsdump.py" AND event.action: "read" Lucene: file.name:secretsdump.py AND event.action:read

Ausführung von bypassuac (Tool zur Umgehung der Benutzerkontensteuerung)

KQL: process.name: "bypassuac.exe" Lucene: process.name:bypassuac.exe

Windows Persistence

Erstellung/Aktualisierung von geplanten Aufgaben

KQL: event.provider: "Microsoft-Windows-TaskScheduler" AND (event.action: "created" OR event.action: "updated") Lucene: event.provider:Microsoft-Windows-TaskScheduler AND (event.action:created OR event.action:updated)

Zugriff auf den Run-Registry-Schlüssel (zur automatischen Ausführung

von Programmen beim Start) KQL: registry.path: "HKLM\\SOFTWARE\\Microsoft\\Windows\\CurrentVersion\\Run*" Lucene: registry.path:HKLM\\SOFTWARE\\Microsoft\\Windows\\CurrentVersion\\Run*

Zugriff auf den Startup-Ordner

KQL: file.path: "C:\\Users*\\AppData\\Roaming\\Microsoft\\Windows\\Start Menu\\Programs\\Startup*" Lucene:
file.path:C:\\Users*\\AppData\\Roaming\\Microsoft\\Windows\\Start Menu\\Programs\\Startup*

Erstellung von WMI-Event-Consumern (zur Ausführung von Befehlen bei

bestimmten Ereignissen) KQL: event.provider: "Microsoft-Windows-WMI-Activity" AND event.action: "consumer created"

Lucene: event.provider:Microsoft-Windows-WMI-Activity AND event.action:consumer created

Zugriff auf den LSA-Secrets-Registry-Schlüssel (zum Speichern von

Anmeldeinformationen) KQL: registry.path: "HKLM\\Security\\Policy\\Secrets*" Lucene: registry.path:HKLM\\Security\\Policy\\Secrets*

Zugriff auf BITS-Jobs (Background Intelligent Transfer Service)

KQL: event.provider: "Microsoft-Windows-Bits-Client" AND event.action: "job created" Lucene: event.provider:Microsoft-Windows-Bits-Client AND event.action:job created

Zugriff auf COM-Objekte zur Persistenz

KQL: registry.path: "HKLM\\SOFTWARE\\Classes\\CLSID*" OR registry.path: "HKCU\\SOFTWARE\\Classes\\CLSID*" Lucene: registry.path:HKLM\\SOFTWARE\\Classes\\CLSID*

Zugriff auf Applnit_DLLs (zum Laden von DLLs bei Systemstart)

KQL: registry.path: "HKLM\\SOFTWARE\\Microsoft\\Windows NT\\CurrentVersion\\Windows\\AppInit_DLLs" Lucene:

Zugriff auf Image File Execution Options (IFEO) zur Umleitung von

Prozessausführungen KQL:

registry.path: "HKLM\\SOFTWARE\\Microsoft\\Windows NT\\CurrentVersion\\Image File Execution Options*" Lucene: registry.path:HKLM\\SOFTWARE\\Microsoft\\Windows NT\\CurrentVersion\\Image File Execution Options*

Zugriff auf den Service Control Manager (zur Erstellung/Änderung von

Diensten) KQL:

event.provider: "Service Control Manager" AND (event.action: "service created" OR event.action: "service modified")

Lucene: event.provider: "Service Control Manager" AND (event.action:service created OR event.action:service modified)

SYSLOG und RSYSLOG Event Codes Facility-Codes:

- kern (0): Kernel-Nachrichten
- user (1): Benutzernachrichten
- · mail (2): Mail-System
- daemon (3): System-Daemons
- auth (4): Sicherheits-/Autorisierungsnachrichten
- syslog (5): Internes syslogd
- Ipr (6): Drucknachrichten
- news (7): Nachrichten-Subsystem
- uucp (8): UUCP-Subsystem Schweregrade:
- · emerg (0): System ist unbenutzbar
- alert (1): Sofortige Maßnahme erforderlich
- crit (2): Kritische Bedingungen
- err (3): Fehlerbedingungen
- warning (4): Warnbedingungen
- notice (5): Normale, aber signifikante Bedingungen
- info (6): Informative Nachrichten
- debug (7): Debug-Level-Nachrichten

Kernel-kritische Nachrichten

KQL: syslog.facility: "kern" AND syslog.severity: "crit" Lucene: syslog.facility:kern AND syslog.severity:crit

Authentifizierungsfehler

KQL: syslog.facility: "auth" AND syslog.severity: "err" Lucene: syslog.facility:auth AND syslog.severity:err

System-Daemon-Warnungen

```
KQL: syslog.facility: "daemon" AND syslog.severity: "warning" Lucene: syslog.facility:daemon AND syslog.severity:warning
```

Mail-System-Nachrichten mit hoher Priorität

```
KQL: syslog.facility: "mail" AND (syslog.severity: "alert" OR syslog.severity: "emerg") Lucene:
syslog.facility:mail AND (syslog.severity:alert OR syslog.severity:emerg)
```

Benutzerinformationsnachrichten

KQL: syslog.facility: "user" AND syslog.severity: "info" Lucene: syslog.facility:user AND syslog.severity:info

Drucksystem-Fehler

KQL: syslog.facility: "lpr" AND syslog.severity: "err" Lucene: syslog.facility:lpr AND syslog.severity:err

Nachrichtensystem-Debug-Nachrichten

```
KQL: syslog.facility: "news" AND syslog.severity: "debug"
```

Lucene: syslog.facility:news AND syslog.severity:debug

UUCP-Subsystem-Warnungen

KQL: syslog.facility: "uucp" AND syslog.severity: "warning" Lucene: syslog.facility:uucp AND syslog.severity:warning

Linux Credential Abuse

Verwendung von sudo ohne Passwort

KQL: process.name: "sudo" AND process.args: "-n" Lucene: process.name:sudo AND process.args:-n

Zugriff auf die /etc/shadow-Datei (enthält verschlüsselte Passwörter)

KQL: file.path: "/etc/shadow" AND event.action: "read" Lucene: file.path:/etc/shadow AND event.action:read

Verwendung von su-Befehl (Benutzerwechsel)

KQL: process.name: "su" AND process.args: "-" Lucene: process.name:su AND process.args:-

Ausführung von sshpass (Befehlszeilen-SSH-Authentifizierung)

KQL: process.name: "sshpass" Lucene: process.name:sshpass

Zugriff auf SSH-Private-Keys

KQL: file.path: "/home/*/.ssh/id_*" AND event.action: "read" Lucene: file.path:/home/*/.ssh/id_* AND event.action:read

Verwendung von export mit Passwort (mögliche Exposition von

Anmeldeinformationen) KQL: process.name: "export" AND process.args: "*PASSWORD=*" Lucene: process.name:export AND process.args:*PASSWORD=*

Verwendung von passwd-Befehl (Passwortänderung)

KQL: process.name: "passwd" Lucene: process.name:passwd

Zugriff auf .pgpass-Datei (PostgreSQL-Passwortdatei)

KQL: file.path: "/home/*/.pgpass" AND event.action: "read" Lucene: file.path:/home/*/.pgpass AND event.action:read

Zugriff auf .my.cnf-Datei (MySQL-Konfigurationsdatei mit

Anmeldeinformationen) KQL: file.path: "/home/*/.my.cnf" AND event.action: "read" Lucene: file.path:/home/*/.my.cnf AND event.action:read

Verwendung von gpg mit --passphrase-Option (mögliche Exposition von

Passphrasen) KQL: process.name: "gpg" AND process.args: "--passphrase" Lucene: process.name:gpg AND process.args:--passphrase

Web Application Attacks

SQL-Injection-Angriffsversuche

KQL: http.request_uri: "*' OR 1=1--*" OR http.request_body: "*' OR 1=1--*" Lucene: http.request_uri:*' OR 1=1--* OR http.request_body:*' OR 1=1--*

Cross-Site Scripting (XSS) Angriffsversuche

KQL: http.request_uri: "*<script>*" OR http.request_body: "*<script>*" Lucene:
http.request_uri:*<script>* OR http.request_body:*<script>*

Directory Traversal Angriffsversuche

KQL: http.request_uri: "../*" OR http.request_body: "../*" Lucene: http.request_uri:../* OR http.request_body:../*

Remote File Inclusion (RFI) Angriffsversuche

KQL: http.request_uri: "*http:*" OR http.request_body: "*http:*" Lucene:
http.request_uri:*http:* OR http.request_body:*http:*

Web Shell Upload-Versuche

KQL: http.request_uri: "*.php" AND http.request_body: "*base64_decode*" Lucene: http.request_uri:*.php AND http.request_body:*base64_decode*

Brute-Force-Anmeldeversuche

KQL: http.status_code: "401" OR http.status_code: "403" Lucene: http.status_code:401 OR http.status_code:403

Command Injection Angriffsversuche

KQL: http.request_uri: "*;cat /etc/passwd*" OR http.request_body: "*;cat /etc/passwd*" Lucene: http.request uri:*;cat /etc/passwd* OR http.request body:*;cat /etc/passwd*

HTTP Response Splitting Angriffsversuche

KQL: http.request_headers: "*%0d%0a*" Lucene: http.request_headers:*%0d%0a*

XML External Entity (XXE) Angriffsversuche

KQL: http.request_body: "*<!DOCTYPE*" Lucene: http.request_body:<!DOCTYPE*

Server-Side Request Forgery (SSRF) Angriffsversuche

KQL: http.request_uri: "*localhost*" OR http.request_body: "*localhost*" Lucene:
http.request_uri:*localhost* OR http.request_body:*localhost*

Linux Privilege Escalation

Verwendung von sudo ohne Passwort

KQL: process.name: "sudo" AND process.args: "-n" Lucene: process.name:sudo AND process.args:-n

Zugriff auf die sudoers-Datei

KQL: file.path: "/etc/sudoers" AND event.action: "read" Lucene: file.path:/etc/sudoers AND event.action:read

Verwendung des su-Befehls

KQL: process.name: "su" AND process.args: "-" Lucene: process.name:su AND process.args:-

Zugriff auf sensitive Dateien mit cat

KQL: process.name: "cat" AND (file.path: "/etc/shadow" OR file.path: "/etc/passwd") Lucene:
process.name:cat AND (file.path:/etc/shadow OR file.path:/etc/passwd)

Verwendung von chmod oder chown auf sensitive Dateien

KQL: process.name: ("chmod", "chown") AND file.path: "/etc/sudoers" Lucene: process.name:(chmod OR chown) AND file.path:/etc/sudoers

Verwendung von Kernel-Exploits

KQL: process.args: "*dirtyc0w*" OR process.args: "*CVE-20*" Lucene: process.args:*dirtyc0w* OR process.args:*CVE-20*

Zugriff auf .bash_history (könnte Befehle zur Rechteerweiterung

enthalten)

```
KQL: file.path: "/home/*/.bash_history" AND event.action: "read" Lucene:
file.path:/home/*/.bash_history AND event.action:read
```

Verwendung von pkexec (PolicyKit für Rechteerweiterung)

KQL: process.name: "pkexec" Lucene: process.name:pkexec

Zugriff auf cron-Jobs

KQL: file.path: "/etc/cron*" AND event.action: "write" Lucene: file.path:/etc/cron* AND event.action:write

Verwendung von setuid oder setgid Binaries

KQL: file.setuid: true OR file.setgid: true Lucene: file.setuid:true OR file.setgid:true ## Detecting Known Vulnerabilities

Heartbleed (CVE-2014-0160)

KQL: network.data: "18 03 02 00 03 01 40 00" Lucene: network.data:18 03 02 00 03 01 40 00

EternalBlue (CVE-2017-0144)

KQL: network.data: "ff534d4272" Lucene: network.data:ff534d4272

Shellshock (CVE-2014-6271)

KQL: http.request_headers: "() {" Lucene: http.request_headers:() {

WannaCry Ransomware

KQL: file.name: "WannaDecryptor.exe" Lucene: file.name:WannaDecryptor.exe

Apache Struts (CVE-2017-5638)

KQL: http.request_headers: "%{(#_= 'multipart/form-data')}" OR http.request_body: "%{(#_= 'multipart/form-data')}"
Lucene: http.request_headers:%{(#_= 'multipart/form-data')} OR http.request_body:%{(#_= 'multipart/form-data')}

Drupalgeddon (CVE-2018-7600)

KQL: http.request_uri: "user/register?element_parents="
Lucene: http.request_uri:user/register?element_parents=

Joomla RCE (CVE-2015-8562)

KQL: http.request_headers: "JDatabaseDriverMysqli" Lucene: http.request_headers:JDatabaseDriverMysqli

Magento Shoplift (CVE-2015-1397)

KQL: http.request_body: "install/design_config/db_schema" Lucene: http.request_body:install/design_config/db_schema

Ghost (CVE-2015-0235)

KQL: network.data: "0xdeadbeef" Lucene: network.data:0xdeadbeef

MS17-010 SMB RCE

KQL: network.protocol: "smb" AND network.data: "0500" Lucene: network.protocol:smb AND network.data:0500

Dezerialisierung in Java (CVE-2015-4852)

KQL: network.data: "rOOABXNy" Lucene: network.data:rOOABXNy

Microsoft IIS Shortname (CVE-2017-7269)

KQL: http.request_uri: "*.asp;*" Lucene: http.request_uri:*.asp;*

OpenSSL CCS Injection (CVE-2014-0224)

KQL: network.data: "140300000101" Lucene: network.data:140300000101

WordPress REST API Vulnerability (CVE-2017-1001000)

KQL: http.request_uri: "/wp-json/wp/v2/posts" Lucene: http.request_uri:/wp-json/wp/v2/posts

DROWN Attack (CVE-2016-0800)

KQL: network.protocol: "ssl2" Lucene: network.protocol:ssl2

Apache Tomcat RCE via JSP Upload (CVE-2017-12617)

KQL: http.request_uri: "*.jsp" AND http.method: "PUT"

Lucene: http.request_uri:*.jsp AND http.method:PUT

Windows SMBv1 RCE (CVE-2017-0143)

KQL: network.protocol: "smb" AND network.data: "1100" Lucene: network.protocol:smb AND network.data:1100

Oracle WebLogic WLS Security Component RCE (CVE-2019-2725)

KQL: http.request_uri: "/_async/*" AND http.request_body: "<async-response>" Lucene: http.request_uri:/_async/* AND http.request_body:<async-response>

BlueKeep (CVE-2019-0708)

KQL: network.protocol: "rdp" AND network.data: "030000902f0802180" Lucene: network.protocol:rdp AND network.data:030000902f0802180

SIGRed (CVE-2020-1350)

KQL: dns.query: "*SIG*" AND dns.response_code: "SERVFAIL" Lucene: dns.query:*SIG* AND dns.response_code:SERVFAIL

Meltdown und Spectre (CVE-2017-5754, CVE-2017-5753, CVE-2017-5715)

KQL: process.name: ("meltdown", "spectre") Lucene: process.name: (meltdown OR spectre)

Zerologon (CVE-2020-1472)

KQL: network.protocol: "netlogon" AND event.action: "zero-credentials" Lucene: network.protocol:netlogon AND event.action:zero-credentials

Apache Log4j RCE (CVE-2021-44228)

KQL: http.request_body: "\${jndi:ldap://" OR http.request_headers: "\${jndi:ldap://" Lucene: http.request_body:\${jndi:ldap://* OR http.request_headers:\${jndi:ldap://*

Microsoft Exchange Server RCE (CVE-2021-26855)

KQL: http.request_uri: "/owa/auth/x.js" Lucene: http.request_uri:/owa/auth/x.js

SolarWinds Orion (CVE-2020-14005)

KQL: file.path: "SolarWinds.Orion.Core.BusinessLayer.dll" AND file.hash: "b91ce2fa41029f6955bff20079468448" Lucene: file.path:SolarWinds.Orion.Core.BusinessLayer.dll AND file.hash:b91ce2fa41029f6955bff20079468448

Drupalgeddon2 (CVE-2018-7600)

KQL: http.request_uri: "/user/register?_format=hal_json" Lucene: http.request_uri:/user/register?_format=hal_json

PrintNightmare (CVE-2021-34527)

KQL: process.name: "spoolsv.exe" AND network.destination_port: 445 | Lucene: process.name:spoolsv.exe AND network.destination_port:445

Joomla RCE (CVE-2015-8562)

KQL: http.request_headers: "User-Agent: Mozilla/5.0 \${@print(md5(acunetix_wvs_security_test))}" Lucene:
http.request_headers:User-Agent: Mozilla/5.0 \${@print(md5(acunetix_wvs_security_test))}

Dirty COW (CVE-2016-5195)

KQL: process.name: "dirtyc0w" Lucene: process.name:dirtyc0w

Mimikatz Detection

KQL: process.name: "mimikatz.exe" Lucene: process.name:mimikatz.exe

Erkennen von Command-and-Control (C2) Infrastrukturen

Ungewöhnlicher User-Agent in HTTP-Anfragen

KQL: http.user_agent: "Mozilla/4.0 (compatible; MSIE 6.0; Windows NT 5.1)" Lucene: http.user_agent:Mozilla/4.0 (compatible; MSIE 6.0; Windows NT 5.1)

Base64-kodierte Daten in HTTP-GET-Anfragen

KQL: http.request_uri: "/?data=*" AND http.request_uri: "*base64*" Lucene:
http.request_uri:/?data=* AND http.request_uri:*base64*

Ungewöhnlicher Outbound-Traffic auf hohen Ports

KQL: network.destination_port: >65000 Lucene: network.destination_port: [65001 TO *]

DNS-Anfragen zu Domains mit hoher Entropie

KQL: dns.query: /[A-Za-z0-9]{30,}/ Lucene: dns.query:/[A-Za-z0-9]{30,}/

Ungewöhnliche Verbindungshäufigkeit zu einer IP

KQL: network.destination.ip: "x.x.x.x" AND event.rate: >100
Lucene: network.destination.ip:x.x.x.x AND event.rate:[101 TO *]

Verdächtige Domains mit vielen Subdomains

KQL: dns.query: "*.suspiciousdomain.com" Lucene: dns.query:*.suspiciousdomain.com

Ungewöhnliche Verbindung zu bekannten C2-Ports (z.B. 6667 für IRC)

KQL: network.destination.port: 6667 Lucene: network.destination.port:6667

Verdächtige User-Agent-Strings (z.B. leere oder Standard-Strings)

KQL: http.user_agent: "-" OR http.user_agent: "Mozilla/5.0" Lucene: http.user_agent:- OR http.user_agent:Mozilla/5.0

Ungewöhnliche Zeiten für ausgehenden Datenverkehr

KQL: event.timestamp: ["00:00:00" TO "03:00:00"] AND network.direction: "outbound" Lucene: event.timestamp:[00:00:00 TO 03:00:00] AND network.direction:outbound

Verdächtige Verbindungen zu Ländern, mit denen keine

Geschäftsbeziehungen bestehen KQL: network.destination.geo.country: "North Korea" Lucene: network.destination.geo.country:North Korea

Malicious Network Communications

Ungewöhnlicher Datenverkehr auf Port 80 (HTTP)

KQL: network.destination.port: 80 AND network.bytes: >1000000 Lucene:
network.destination.port:80 AND network.bytes:[1000001 TO *]

Verdächtige User-Agent-Strings (z.B. leere oder Standard-Strings)

KQL: http.user_agent: "-" OR http.user_agent: "curl/*" OR http.user_agent: "wget/*" Lucene:
http.user_agent:- OR http.user_agent:curl/* OR http.user_agent:wget/*

Ungewöhnlicher Datenverkehr auf Port 443 (HTTPS) ohne SSL/TLS

KQL: network.destination.port: 443 AND network.protocol: NOT "tls" Lucene: network.destination.port:443 AND NOT network.protocol:tls

Verdächtige Domains mit vielen Subdomains

KQL: dns.query: "*.*.*.com" Lucene: dns.query:*.*.*.com

Datenverkehr zu bekannten Tor Exit Nodes

KQL: network.destination.ip: (list_of_tor_ips) Lucene: network.destination.ip:(list_of_tor_ips)

Ungewöhnliche Verbindung zu Ländern, mit denen keine

Geschäftsbeziehungen bestehen KQL: network.destination.geo.country: "North Korea" OR network.destination.geo.country: "Iran" Lucene: network.destination.geo.country:North Korea OR network.destination.geo.country:Iran

Verdächtige ICMP-Datenverkehrsmuster (z.B. für Datenexfiltration)

KQL: network.protocol: "icmp" AND network.bytes: >1000 Lucene: network.protocol:icmp AND network.bytes:[1001 TO *]

Verdächtige DNS-Anfragen mit hoher Entropie (z.B. für DGA-Kommunikation)

KQL: dns.query: /[A-Za-z0-9]{25,}/ Lucene: dns.query:/[A-Za-z0-9]{25,}/

Ungewöhnliche Zeiten für ausgehenden Datenverkehr

KQL: event.timestamp: ["00:00:00" TO "03:00:00"] AND network.direction: "outbound" Lucene: event.timestamp:[00:00:00 TO 03:00:00] AND network.direction:outbound

Verdächtige Datenmengen in ausgehendem Datenverkehr (mögliche

Datenexfiltration) KQL: network.direction: "outbound" AND network.bytes: >5000000 Lucene: network.direction:outbound AND network.bytes:[5000001 TO *]

Antivirus Alerts and Evasion

Verdächtige Dateinamen, die auf Malware hindeuten könnten KQL:

```
file.name: ("*malware*", "*trojan*", "*ransomware*")
```

Lucene: file.name:*malware* OR file.name:*trojan* OR file.name:*ransomware*

Antivirus-Alarme

KQL: log.source: "antivirus" AND log.level: "alert" Lucene: log.source:antivirus AND log.level:alert

Mehrere Antivirus-Alarme von einem Endpunkt in kurzer Zeit

KQL: log.source: "antivirus" AND event.rate: >5 Lucene: log.source:antivirus AND event.rate:[6 TO *]

Dateien mit Doppel-Dateiendungen (häufig bei Malware)

```
KQL: file.name: ("*.exe.pdf", "*.doc.exe", "*.pdf.exe") Lucene:
file.name:*.exe.pdf OR file.name:*.doc.exe OR file.name:*.pdf.exe
```

Verdächtige PowerShell-Befehle (z.B. Base64-kodiert)

KQL: process.name: "powershell.exe" AND process.args: "-encodedCommand" Lucene: process.name:powershell.exe AND process.args:-encodedCommand

Dateien aus dem Internet, die sofort ausgeführt werden

KQL: file.origin: "internet" AND process.action: "execute" Lucene: file.origin:internet AND process.action:execute

Verdächtige Prozesse, die von einem temporären Ordner aus gestartet

werden KQL: process.path: "C:\\Windows\\Temp*" OR process.path: "C:\\Users*\\AppData\\Local\\Temp*" Lucene:

Verdächtige Registry-Änderungen (z.B. zur Persistenz)

KQL: registry.path: ("*\\Run", "*\\RunOnce") AND registry.action: "set" Lucene:
registry.path:*\\Run OR registry.path:*\\RunOnce AND registry.action:set

Verdächtige Netzwerkanfragen an bekannte Malware-Domains

KQL: network.destination.domain: (list_of_malicious_domains) Lucene: network.destination.domain:(list of malicious domains)

Dateien, die versuchen, den Antivirus-Prozess zu beenden

KQL: process.name: "taskkill" AND process.args: "*antivirus*" Lucene: process.name:taskkill AND process.args:*antivirus*

Antimalware Scan Interface (AMSI) und AMSI Bypasses ### AMSI Bypass über AmsiScanBuffer-Patch

KQL: process.name: "powershell.exe" AND process.args: "*[AmsiScanBuffer]*" Lucene: process.name:powershell.exe AND process.args:*[AmsiScanBuffer]*

Verdächtige AMSI-Fehler

KQL: log.source: "AMSI" AND log.level: "error" Lucene: log.source:AMSI AND log.level:error

AMSI Bypass über AmsiUtils-Patch

KQL: process.name: "powershell.exe" AND process.args: "*AmsiUtils*" Lucene: process.name:powershell.exe AND process.args:*AmsiUtils*

Verdächtige AMSI-Initialisierungsversuche

KQL: log.source: "AMSI" AND log.message: "Initialization failed" Lucene: log.source:AMSI AND log.message: "Initialization failed"

AMSI Bypass über Speicherinjektion

KQL: process.name: "powershell.exe" AND process.args: "*[System.Runtime.InteropServices.Marshal]::Copy*" Lucene: process.name:powershell.exe AND process.args:*[System.Runtime.InteropServices.Marshal]::Copy*

Verdächtige AMSI-Endpunkte

KQL: network.destination.domain: "*amsi.microsoft.com" Lucene: network.destination.domain:*amsi.microsoft.com

AMSI Bypass über COM-Objekte

KQL: process.name: "powershell.exe" AND process.args: "*[ComObject].CreateObject*" Lucene: process.name:powershell.exe AND process.args:*[ComObject].CreateObject*

AMSI Bypass durch das Entladen von AMSI-DLLs

KQL: process.name: "powershell.exe" AND process.args: "*amsi.dll*" Lucene: process.name:powershell.exe AND process.args:*amsi.dll*

AMSI Bypass über Reflection

KQL: process.name: "powershell.exe" AND process.args: "*[Reflection.Assembly]::Load*" Lucene: process.name:powershell.exe AND process.args:*[Reflection.Assembly]::Load*

AMSI Bypass durch das Manipulieren von AMSI-Scan-Ergebnissen

KQL: process.name: "powershell.exe" AND process.args: "*AmsiScanStringResult*" Lucene: process.name:powershell.exe AND process.args:*AmsiScanStringResult*

Network Evasion and Tunneling

Ungewöhnlicher Datenverkehr auf Port 53 (DNS)

KQL: network.destination.port: 53 AND network.bytes: >5000 Lucene:
network.destination.port:53 AND network.bytes:[5001 TO *]

Verdächtige ICMP-Datenverkehrsmuster (z.B. für Datenexfiltration oder

Tunneling) KQL: network.protocol: "icmp" AND network.bytes: >1000 Lucene:
network.protocol:icmp AND network.bytes:[1001 TO *]

Ungewöhnlicher Datenverkehr auf Port 80 (HTTP) oder 443 (HTTPS)

KQL: network.destination.port: (80, 443) AND network.bytes: >1000000 Lucene: network.destination.port: (80 443) AND network.bytes: [1000001 TO *]

Verdächtige SSL/TLS-Zertifikate (z.B. selbstsigniert oder abgelaufen)

KQL: tls.certificate.issuer: "unknown" OR tls.certificate.status: "expired" Lucene: tls.certificate.issuer:unknown OR tls.certificate.status:expired

Ungewöhnliche Verbindung zu Ländern, mit denen keine

Geschäftsbeziehungen bestehen KQL: network.destination.geo.country: "North Korea" OR network.destination.geo.country: "Iran" Lucene: network.destination.geo.country:North Korea OR network.destination.geo.country:Iran

Verdächtige Tor-Datenverkehr

KQL: network.destination.port: 9050 OR network.destination.port: 9150 Lucene: network.destination.port:9050 OR network.destination.port:9150

Verdächtige SSH-Tunneling-Aktivitäten

KQL: network.protocol: "ssh" AND network.bytes: >500000 Lucene: network.protocol:ssh AND network.bytes: [500001 TO *]

Verdächtige VPN-Verbindungen

KQL: network.protocol: "vpn" AND network.bytes: >10000000
Lucene: network.protocol:vpn AND network.bytes:[1000001 TO *]

Ungewöhnliche Zeiten für ausgehenden Datenverkehr (mögliche Umgehung)

KQL: event.timestamp: ["00:00:00" TO "03:00:00"] AND network.direction: "outbound" Lucene: event.timestamp:[00:00:00 TO 03:00:00] AND network.direction:outbound

Verdächtige Datenmengen in ausgehendem Datenverkehr (mögliche

Datenexfiltration) KQL: network.direction: "outbound" AND network.bytes: >5000000 Lucene: network.direction:outbound AND network.bytes:[5000001 TO *]

Egress Busting (Ausgehende Datenverkehrskontrolle) ### Ungewöhnlich hoher ausgehender Datenverkehr

KQL: network.direction: "outbound" AND network.bytes: >10000000 Lucene: network.direction:outbound AND network.bytes:[10000001 TO *]

Ungewöhnliche Ports für ausgehenden Datenverkehr

KQL: network.direction: "outbound" AND NOT network.destination.port: (80, 443, 21, 22, 25) Lucene: network.direction:outbound AND NOT network.destination.port: (80, 443, 21, 22, 25)

Ungewöhnliche Zeiten für ausgehenden Datenverkehr

KQL: event.timestamp: ["00:00:00" TO "03:00:00"] AND network.direction: "outbound" Lucene: event.timestamp:[00:00:00 TO 03:00:00] AND network.direction:outbound

Ausgehender Datenverkehr zu verdächtigen Ländern

KQL: network.direction: "outbound" AND network.destination.geo.country: "North Korea" Lucene: network.direction:outbound AND network.destination.geo.country:North Korea

Ungewöhnliche User-Agent-Strings im ausgehenden Datenverkehr

KQL: network.direction: "outbound" AND http.user_agent: "curl/*" Lucene: network.direction:outbound AND http.user_agent:curl/*

Ausgehender Datenverkehr mit verdächtigen MIME-Typen (z.B. Anwendung

oder Oktett-Stream)

KQL: network.direction: "outbound" AND http.content_type: ("application/*", "octet-stream") Lucene: network.direction:outbound AND http.content_type:(application/* octet-stream)

Ausgehender Datenverkehr mit verdächtigen Dateianhängen (z.B. .exe,

.bat) KQL: network.direction: "outbound" AND file.extension: ("exe", "bat") Lucene: network.direction:outbound AND file.extension:(exe bat)

Ausgehender Datenverkehr zu nicht standardmäßigen IP-Adressen (z.B.

private IP-Bereiche) KQL:

network.direction: "outbound" AND network.destination.ip: ("10.0.0.0/8", "172.16.0.0/12", "192.168.0.0/16") Lucene: network.direction:outbound AND network.destination.ip:(10.0.0.0/8 172.16.0.0/12 192.168.0.0/16)

Ausgehender Datenverkehr mit verdächtigen Domains (z.B. neu

registrierte oder Domains mit hoher Entropie) KQL: network.direction: "outbound" AND dns.query: /[A-Za-z0-9]{25,}/ Lucene: network.direction:outbound AND dns.query:/[A-Za-z0-9]{25,}/

Ausgehender Datenverkehr mit verdächtigen SSL/TLS-Zertifikaten

KQL: network.direction: "outbound" AND tls.certificate.status: "self-signed" Lucene: network.direction:outbound AND tls.certificate.status:self-signed

Port Forwarding and Tunneling

SSH-Port-Weiterleitung (Local Forwarding)

KQL: process.name: "ssh" AND process.args: ("-L", "-D") Lucene: process.name:ssh AND (process.args:-L OR process.args:-D)

SSH-Port-Weiterleitung (Remote Forwarding)

KQL: process.name: "ssh" AND process.args: "-R" Lucene: process.name:ssh AND process.args:-R

Verdächtige Aktivität auf Port 1080 (oft für SOCKS Proxy verwendet)

KQL: network.destination.port: 1080 Lucene: network.destination.port:1080

Verdächtige Aktivität auf Port 8080 (oft für HTTP-Tunnel verwendet)

KQL: network.destination.port: 8080 Lucene: network.destination.port:8080

Plink.exe-Aktivität (oft für SSH-Tunneling verwendet)

KQL: process.name: "plink.exe" Lucene: process.name:plink.exe

Verdächtige Aktivität auf Port 22 (SSH) von nicht-Standard-IPs

KQL: network.destination.port: 22 AND NOT network.source.ip: (list_of_trusted_ips) Lucene: network.destination.port:22 AND NOT network.source.ip:(list_of_trusted_ips)

Verdächtige Aktivität auf Port 3389 (RDP) mit hohem Datenvolumen

(möglicher Tunnel) KQL: network.destination.port: 3389 AND network.bytes: >1000000 Lucene: network.destination.port:3389 AND network.bytes:[1000001 TO *]

Verdächtige VPN-Verbindungen

KQL: network.protocol: "vpn" AND network.bytes: >1000000 Lucene: network.protocol:vpn AND network.bytes:[1000001 TO *]

Verdächtige Aktivität auf Port 1194 (OpenVPN)

KQL: network.destination.port: 1194 Lucene: network.destination.port:1194

Verdächtige Aktivität auf Port 443 mit nicht-HTTPS-Protokoll (möglicher

SSL-Tunnel) KQL: network.destination.port: 443 AND NOT network.protocol: "tls" Lucene: network.destination.port: 443 AND NOT network.protocol:tls ## Abusing Lightweight Directory Access Protocol

Verdächtige LDAP-Anfragen mit hohem Volumen

KQL: network.protocol: "ldap" AND network.bytes: >1000000 Lucene: network.protocol:ldap AND network.bytes:[1000001 TO *]

LDAP-Anfragen von nicht standardmäßigen IP-Adressen

KQL: network.protocol: "ldap" AND NOT network.source.ip: (list_of_trusted_ips)
Lucene: network.protocol:ldap AND NOT network.source.ip:(list_of_trusted_ips)

Verdächtige LDAP-Bindungen (z.B. anonyme Bindungen)

KQL: event.category: "ldap" AND event.action: "bind" AND user.name: "anonymous" Lucene: event.category:ldap AND event.action:bind AND user.name:anonymous

LDAP-Anfragen nach sensiblen Attributen (z.B. userPassword)

KQL: event.category: "ldap" AND event.action: "search" AND ldap.search.filter: "*userPassword*" Lucene: event.category:ldap AND event.action:search AND ldap.search.filter:*userPassword*

Verdächtige LDAP-Modifikationen

KQL: event.category: "ldap" AND event.action: "modify" Lucene: event.category:ldap AND event.action:modify

LDAP-Anfragen, die zu vielen Ergebnissen führen

KQL: event.category: "ldap" AND event.action: "search" AND ldap.search.result_count: >1000 Lucene:
event.category:ldap AND event.action:search AND ldap.search.result_count:[1001 TO *]

Verdächtige LDAP-Verbindungen zu nicht standardmäßigen Ports

KQL: network.protocol: "ldap" AND NOT network.destination.port: 389 Lucene: network.protocol:ldap AND NOT network.destination.port:389

LDAP-Anfragen zu ungewöhnlichen Zeiten

KQL: event.category: "ldap" AND event.timestamp: ["00:00:00" TO "03:00:00"] Lucene: event.category:ldap AND event.timestamp:[00:00:00 TO 03:00:00]

Verdächtige LDAP-Entfernungen oder Löschungen

KQL: event.category: "ldap" AND event.action: "delete" Lucene: event.category:ldap AND event.action:delete

LDAP-Replikationsanfragen von nicht-DCs (Domain-Controllern)

KQL: event.category: "ldap" AND event.action: "replicate" AND NOT network.source.ip: (list_of_domain_controllers) Lucene: event.category:ldap AND event.action:replicate AND NOT network.source.ip:(list_of_domain_controllers)

Enumeration von Active Directory mit PowerView,

SharpHound und PowerShell

PowerView-Modulaktivität

KQL: process.name: "powershell.exe" AND process.args: "*PowerView.ps1*" Lucene: process.name:powershell.exe AND process.args:*PowerView.ps1*

SharpHound-Modulaktivität

KQL: process.name: "SharpHound.exe" Lucene: process.name:SharpHound.exe

PowerView Get-NetDomain-Anfrage

KQL: process.name: "powershell.exe" AND process.args: "*Get-NetDomain*" Lucene: process.name:powershell.exe AND process.args:*Get-NetDomain*

PowerView Get-NetUser-Anfrage

KQL: process.name: "powershell.exe" AND process.args: "*Get-NetUser*" Lucene: process.name:powershell.exe AND process.args:*Get-NetUser*

PowerView Get-NetGroup-Anfrage

KQL: process.name: "powershell.exe" AND process.args: "*Get-NetGroup*" Lucene: process.name:powershell.exe AND process.args:*Get-NetGroup*

PowerView Get-DomainPolicy-Anfrage

KQL: process.name: "powershell.exe" AND process.args: "*Get-DomainPolicy*" Lucene: process.name:powershell.exe AND process.args:*Get-DomainPolicy*

PowerView Get-NetComputer-Anfrage

KQL: process.name: "powershell.exe" AND process.args: "*Get-NetComputer*" Lucene: process.name:powershell.exe AND process.args:*Get-NetComputer*

PowerView Invoke-ShareFinder-Anfrage

KQL: process.name: "powershell.exe" AND process.args: "*Invoke-ShareFinder*" Lucene: process.name:powershell.exe AND process.args:*Invoke-ShareFinder*

PowerView Invoke-UserHunter-Anfrage

KQL: process.name: "powershell.exe" AND process.args: "*Invoke-UserHunter*" Lucene: process.name:powershell.exe AND process.args:*Invoke-UserHunter*

PowerShell AD-Modulaktivität

KQL: process.name: "powershell.exe" AND process.args: "*ActiveDirectory*" Lucene: process.name:powershell.exe AND process.args:*ActiveDirectory*

Windows Lateral Movement ### Verdächtige Verwendung von PsExec

KQL: process.name: "psexec.exe" OR process.args: "** -accepteula*" Lucene: process.name:psexec.exe OR process.args:** -accepteula*

Remoteausführung mit WMIC

KQL: process.name: "wmic.exe" AND process.args: "/node:* process call create*" Lucene: process.name:wmic.exe AND process.args:/node:* process call create*

Verdächtige Verwendung von RDP (Remote Desktop Protocol)

KQL: event.category: "authentication" AND network.protocol: "rdp" AND event.outcome: "success" Lucene: event.category:authentication AND network.protocol:rdp AND event.outcome:success

Zugriff auf ADMIN\$ oder C\$ Freigaben

 $KQL: file.path: "*\\ADMIN$" OR file.path: "*\\C$" Lucene: file.path: *\\ADMIN$ OR file.path: *\\C$" Lucene: file.path: *\\ADMIN$ OR file.path: *\\C$" Lucene: file.path: \\\\\\\\\\\\\\$

Verdächtige Verwendung von Scheduled Tasks

KQL: process.name: "schtasks.exe" AND process.args: "/create" Lucene: process.name:schtasks.exe AND process.args:/create

Remoteausführung mit PowerShell Remoting

```
KQL: process.name: "powershell.exe" AND process.args: "-remoting" Lucene: process.name:powershell.exe AND process.args:-remoting
```

Verdächtige Verwendung von DCOM

KQL: process.name: "dllhost.exe" AND process.parent.name: "svchost.exe" Lucene: process.name:dllhost.exe AND process.parent.name:svchost.exe

Verdächtige Verwendung von BITSAdmin

KQL: process.name: "bitsadmin.exe" Lucene: process.name:bitsadmin.exe

Verdächtige Verwendung von Net Commands

KQL: process.name: "net.exe" AND (process.args: "use" OR process.args: "view") Lucene: process.name:net.exe AND (process.args:use OR process.args:view)

Verdächtige Verwendung von Remote Service Creation

KQL: event.category: "service" AND event.action: "service_created" AND network.direction: "outbound" Lucene: event.category:service AND event.action:service created AND network.direction:outbound

Linux Lateral Movement

Verdächtige Verwendung von SSH für Remote-Befehlsausführung

KQL: process.name: "ssh" AND process.args: "-oProxyCommand*" Lucene: process.name:ssh AND process.args:-oProxyCommand*

Verdächtige Verwendung von SCP für Dateiübertragungen

KQL: process.name: "scp" Lucene: process.name:scp

Verdächtige Verwendung von RSYNC für Dateisynchronisation

KQL: process.name: "rsync" AND process.args: "--rsh*" Lucene: process.name:rsync AND process.args:--rsh*

Verdächtige Verwendung von Netcat für Port-Weiterleitung

KQL: process.name: "nc" AND (process.args: "-1" OR process.args: "-p") Lucene: process.name:nc AND (process.args:-1 OR process.args:-p)

Verdächtige Verwendung von SFTP

KQL: process.name: "sftp" Lucene: process.name:sftp

Verdächtige Verwendung von TELNET

KQL: process.name: "telnet" Lucene: process.name:telnet

Verdächtige Cron-Job-Erstellungen

KQL: process.name: "cron" AND process.args: "* * * * * * Lucene: process.name:cron AND process.args: * * * *

Verdächtige Verwendung von SSH-Tunneling

KQL: process.name: "ssh" AND (process.args: "-D" OR process.args: "-L" OR process.args: "-R") Lucene: process.name:ssh AND (process.args:-D OR process.args:-L OR process.args:-R)

Verdächtige Verwendung von SSH-Passwortauthentifizierung

KQL: process.name: "ssh" AND process.args: "-oPasswordAuthentication=yes"

Lucene: process.name:ssh AND process.args:-oPasswordAuthentication=yes

Verdächtige Verwendung von SSH-Key-Scanning (SSH-Keyscan)

KQL: process.name: "ssh-keyscan" Lucene: process.name:ssh-keyscan

Missbrauch von Kerberos-Tickets

Verdächtige Verwendung von Kerberos Ticket Granting Ticket (TGT)

Erneuerung KQL: event.category: "kerberos" AND event.action: "TGT_Renewed" Lucene: event.category:kerberos AND event.action:TGT Renewed

Verdächtige Verwendung von Kerberos Golden Ticket

KQL: event.category: "kerberos" AND event.action: "TGT_Requested" AND user.domain: "KRBTGT" Lucene: event.category:kerberos AND event.action:TGT Requested AND user.domain:KRBTGT

Verdächtige Verwendung von Kerberos Silver Ticket

KQL: event.category: "kerberos" AND event.action: "Service_Ticket_Requested" AND user.domain: "KRBTGT" Lucene: event.category:kerberos AND event.action:Service_Ticket_Requested AND user.domain:KRBTGT

Verdächtige Verwendung von Kerberoasting

KQL: event.category: "kerberos" AND event.action: "Service_Ticket_Requested" AND user.name: "*\$" Lucene: event.category:kerberos AND event.action:Service_Ticket_Requested AND user.name:*\$

Verdächtige Verwendung von Pass-the-Ticket (PTT)

KQL: event.category: "kerberos" AND event.action: "TGT_Presented" AND NOT network.source.ip: (list_of_trusted_ips) Lucene: event.category:kerberos AND event.action:TGT_Presented AND NOT network.source.ip:(list_of_trusted_ips)

Verdächtige Verwendung von Overpass-the-Hash (Pass-the-Key)

KQL: event.category: "kerberos" AND event.action: "TGT_Requested" AND event.reason: "NTLM_Hash_Used" Lucene: event.category:kerberos AND event.action:TGT_Requested AND event.reason:NTLM_Hash_Used

Verdächtige Verwendung von DCSync

KQL: event.category: "directory_service" AND event.action: "replication_request" AND user.name: "DC\$" Lucene: event.category:directory_service AND event.action:replication_request AND user.name:DC\$

Verdächtige Verwendung von Kerberos Pre-Authentication Fehlern

KQL: event.category: "kerberos" AND event.action: "preauth_failed" Lucene: event.category:kerberos AND event.action:preauth_failed

Verdächtige Verwendung von Kerberos Delegationsmissbrauch

KQL: event.category: "kerberos" AND event.action: "delegation_requested" Lucene: event.category:kerberos AND event.action:delegation_requested

Verdächtige Verwendung von Kerberos Cross-Realm-Tickets

KQL: event.category: "kerberos" AND event.action: "cross_realm_ticket" Lucene: event.category:kerberos AND event.action:cross_realm_ticket ## Active Directory Persistence

Verdächtige Verwendung von Gruppenrichtlinienobjekten (GPO)

KQL: event.category: "directory_service" AND event.action: "gpo_created" Lucene: event.category:directory_service AND event.action:gpo_created

Verdächtige Verwendung von Verzeichnisdienständerungen

KQL: event.category: "directory_service" AND event.action: "object_modified" Lucene: event.category:directory service AND event.action:object modified

Verdächtige Verwendung von Sicherheitsunterstützungsanbieter (SSP)

KQL: process.name: "lsass.exe" AND dll.name: "custom_ssp.dll" Lucene: process.name:lsass.exe AND dll.name:custom_ssp.dll

Verdächtige Verwendung von Golden Ticket

KQL: event.category: "kerberos" AND event.action: "TGT_Requested" AND user.domain: "KRBTGT" Lucene: event.category:kerberos AND event.action:TGT_Requested AND user.domain:KRBTGT

Verdächtige Verwendung von Silver Ticket

KQL: event.category: "kerberos" AND event.action: "Service_Ticket_Requested" AND user.domain: "KRBTGT" Lucene: event.category:kerberos AND event.action:Service_Ticket_Requested AND user.domain:KRBTGT

Verdächtige Verwendung von DCSync

KQL: event.category: "directory_service" AND event.action: "replication_request" AND user.name: "DC\$" Lucene: event.category:directory_service AND event.action:replication_request AND user.name:DC\$

Verdächtige Verwendung von SID-History-Injektion

KQL: event.category: "directory_service" AND event.action: "sid_history_added" Lucene: event.category:directory service AND event.action:sid history added

Verdächtige Verwendung von Kerberos Delegationsmissbrauch

KQL: event.category: "kerberos" AND event.action: "delegation_requested" Lucene: event.category:kerberos AND event.action:delegation requested

Verdächtige Verwendung von AdminSDHolder-Objektänderungen

KQL: event.category: "directory_service" AND object.name: "AdminSDHolder" AND event.action: "object_modified" Lucene: event.category:directory_service AND object.name:AdminSDHolder AND event.action:object_modified

Verdächtige Verwendung von Verzeichnisdienst-Wiederherstellungsagenten

KQL: event.category: "directory_service" AND event.action: "recovery_agent_set" Lucene: event.category:directory_service AND event.action:recovery_agent_set

Angriffe auf einen Linux Mailserver

Verdächtige Anmeldeversuche über SMTP

KQL: event.category: "authentication" AND network.protocol: "smtp" AND event.outcome: "failure" Lucene: event.category:authentication AND network.protocol:smtp AND event.outcome:failure

Verdächtige Mail-Relay-Aktivitäten

KQL: event.category: "mail" AND event.action: "relay_attempt" AND event.outcome: "success" Lucene: event.category:mail AND event.action:relay_attempt AND event.outcome:success

Verdächtige IMAP/POP3 Anmeldeversuche

KQL:

event.category: "authentication" AND (network.protocol: "imap" OR network.protocol: "pop3") AND event.outcome: "failure"

Lucene: event.category:authentication AND (network.protocol:imap OR network.protocol:pop3) AND event.outcome:failure

Verdächtige Mailserver-Konfigurationsänderungen

KQL: event.category: "configuration" AND process.name: "postfix" AND event.action: "config_changed" Lucene: event.category:configuration AND process.name:postfix AND event.action:config_changed

Verdächtige E-Mail-Anhänge

KQL: file.extension: ("exe" OR "dll" OR "js" OR "vbs") AND event.action: "email_attachment_received" Lucene: file.extension:(exe OR dll OR js OR vbs) AND event.action:email_attachment_received

Verdächtige E-Mail-Links

KQL: event.category: "mail" AND event.action: "link_received" AND url.domain: "suspicious-domain.com" Lucene: event.category:mail AND event.action:link_received AND url.domain:suspicious-domain.com

Verdächtige Ausgehende E-Mails

```
KQL: event.category: "mail" AND event.action: "email_sent" AND destination.ip: "external_ip" Lucene: event.category:mail AND event.action:email_sent AND destination.ip:external_ip
```

Verdächtige E-Mail-Volumen

KQL: event.category: "mail" AND event.action: "email_received" AND source.ip: "suspicious_ip" AND count: >100 Lucene: event.category:mail AND event.action:email_received AND source.ip:suspicious_ip AND count:>100

Verdächtige Verwendung von Mailserver-Tools

KQL: process.name: ("mailq" OR "postqueue") Lucene: process.name: (mailq OR postqueue)

Verdächtige Mailserver-Prozessaktivitäten

KQL: process.name: "postfix" AND process.args: ("master" OR "pickup" OR "qmgr") Lucene: process.name:postfix AND process.args:(master OR pickup OR qmgr)

Angriffe auf einen Windows Mailserver

Verdächtige Anmeldeversuche über SMTP

KQL: event.category: "authentication" AND network.protocol: "smtp" AND event.outcome: "failure" Lucene: event.category:authentication AND network.protocol:smtp AND event.outcome:failure

Verdächtige Exchange-Verwaltungskonsole (EAC) Anmeldeversuche

KQL: event.category: "authentication" AND url.path: "/ecp" AND event.outcome: "failure" Lucene: event.category:authentication AND url.path:/ecp AND event.outcome:failure

Verdächtige Outlook Web App (OWA) Anmeldeversuche

KQL: event.category: "authentication" AND url.path: "/owa" AND event.outcome: "failure" Lucene: event.category:authentication AND url.path:/owa AND event.outcome:failure

Verdächtige Exchange-Webdienste (EWS) Anfragen

KQL: event.category: "web" AND url.path: "/ews/exchange.asmx" Lucene: event.category:web AND url.path:/ews/exchange.asmx

Verdächtige E-Mail-Anhänge

KQL: file.extension: ("exe" OR "dll" OR "js" OR "vbs") AND event.action: "email_attachment_received" Lucene: file.extension:(exe OR dll OR js OR vbs) AND event.action:email_attachment_received

Verdächtige E-Mail-Links

KQL: event.category: "mail" AND event.action: "link_received" AND url.domain: "suspicious-domain.com" Lucene: event.category:mail AND event.action:link_received AND url.domain:suspicious-domain.com

Verdächtige Ausgehende E-Mails

KQL: event.category: "mail" AND event.action: "email_sent" AND destination.ip: "external_ip" Lucene: event.category:mail AND event.action:email_sent AND destination.ip:external_ip

Verdächtige Exchange PowerShell-Aktivitäten

KQL: process.name: "powershell.exe" AND process.args: "Exchange.ps1" Lucene: process.name:powershell.exe AND process.args:Exchange.ps1

Verdächtige Exchange-Verwaltungsshell-Aktivitäten

KQL: process.name: "exshell.psc1" Lucene: process.name:exshell.psc1

Verdächtige Mailbox-Exportanfragen

KQL: event.category: "mail" AND event.action: "mailbox_export" Lucene: event.category:mail AND event.action:mailbox_export

Angriffe auf Content-Management-Systeme (CMS) wie

WordPress, Joomla, Drupal und Co.

Verdächtige WordPress-Admin-Anmeldeversuche

KQL: event.category: "authentication" AND url.path: "/wp-login.php" AND event.outcome: "failure" Lucene: event.category:authentication AND url.path:/wp-login.php AND event.outcome:failure

Verdächtige Joomla-Admin-Anmeldeversuche

KQL: event.category: "authentication" AND url.path: "/administrator/index.php" AND event.outcome: "failure" Lucene: event.category:authentication AND url.path:/administrator/index.php AND event.outcome:failure

Verdächtige Drupal-Admin-Anmeldeversuche

KQL: event.category: "authentication" AND url.path: "/user/login" AND event.outcome: "failure" Lucene: event.category:authentication AND url.path:/user/login AND event.outcome:failure

Verdächtige WordPress-Plugin-Uploads

KQL: event.category: "web" AND url.path: "/wp-admin/update.php" AND http.request.method: "POST" Lucene: event.category:web AND url.path:/wp-admin/update.php AND http.request.method:POST

Verdächtige Joomla-Extension-Uploads

KQL: event.category: "web" AND url.path: "/administrator/index.php?option=com_installer" AND http.request.method: "POST" Lucene: event.category:web AND url.path:/administrator/index.php?option=com_installer AND http.request.method:POST

Verdächtige Drupal-Modul-Uploads

KQL: event.category: "web" AND url.path: "/admin/modules/install" AND http.request.method: "POST" Lucene: event.category:web AND url.path:/admin/modules/install AND http.request.method:POST

Verdächtige WordPress-XML-RPC-Anfragen

KQL: event.category: "web" AND url.path: "/xmlrpc.php" Lucene: event.category:web AND url.path:/xmlrpc.php

Verdächtige Joomla-Template-Änderungen

KQL: event.category: "web" AND url.path: "/administrator/index.php?option=com_templates" AND http.request.method: "POST" Lucene: event.category:web AND url.path:/administrator/index.php?option=com_templates AND http.request.method:POST

Verdächtige Drupal-Theme-Änderungen

KQL: event.category: "web" AND url.path: "/admin/appearance/settings" AND http.request.method: "POST" Lucene: event.category:web AND url.path:/admin/appearance/settings AND http.request.method:POST

Verdächtige CMS-Dateiuploads

KQL: event.category: "web" AND http.request.method: "POST" AND file.extension: ("php" OR "js" OR "html") Lucene: event.category:web AND http.request.method:POST AND file.extension:(php OR js OR html) ## macOS

Erkennung von erhöhten Berechtigungen (Privilege Escalation)

KQL: event.category: "process" AND process_parent_name: "sudo" AND process_path: "/usr/bin/sudo" Lucene: event.category: "process" AND process_parent_name: "sudo" AND process_path: "/usr/bin/sudo"

Erkennung von verdeckten Prozessen (Persistence):

KQL:

event.category: "process" AND (process_name: "launchctl" OR process_name: "launchd") AND process_command_line: "/Library/LaunchAgents" Lucene:

event.category:"process" AND (process_name:"launchctl" OR process_name:"launchd") AND process_command_line:"/Library/LaunchAgents"

Erkennung von ungewöhnlicher Netzwerkkommunikation (Command and Control)

KQL: event.category: "network" AND network_direction: "outbound" AND (destination_port:8080 OR destination_port:8888)

Lucene: event.category: "network" AND network_direction: "outbound" AND (destination_port: 8080 OR destination_port: 8888)

Erkennung von Malware-Dateien

```
KQL: event.category:"file" AND (file_name:"malware.exe" OR file_name:"malicious.dylib") Lucene: event.category:"file" AND (file_name:"malware.exe" OR file_name:"malicious.dylib")
```

Erkennung von Anomalien bei Benutzeranmeldungen

```
KQL: event.category: "authentication" AND event_action: "logon" AND NOT (user_name: "admin" OR user_name: "root") Lucene: event.category: "authentication" AND event_action: "logon" AND NOT (user_name: "admin" OR user_name: "root")
```

Erkennung von ungewöhnlicher Hostnamenänderung

```
KQL: event.category: "system" AND event_action: "hostname_change" Lucene: event.category: "system" AND event action: "hostname change"
```

Erkennung von bösartigen LaunchAgents

```
KQL:
```

```
event.category:"file" AND file_path:"/Library/LaunchAgents" AND (file_name:"malicious.plist" OR file_name:"evil.plist")

Lucene:

event.category:"file" AND file_path:"/Library/LaunchAgents" AND (file_name:"malicious.plist" OR file_name:"evil.plist")
```

Erkennung von ungewöhnlichen System- und Kernelmoduleinträgen

```
KQL:
```

```
event.category:"system" AND event_action:"kernel_module_loaded" AND (target_name:"malicious.kext" OR target_name:"suspicious.kext" Lucene:
```

event.category: "system" AND event action: "kernel module loaded" AND (target name: "malicious.kext" OR target name: "suspicious.kext"

Erkennung von ungewöhnlichen Cron-Jobs:

```
KQL: event.category: "process" AND (process_name: "crontab" OR process_name: "cron") AND process_command_line: "*" Lucene: event.category: "process" AND (process_name: "crontab" OR process_name: "cron") AND process_command_line: "*"
```

Erkennung von Änderungen in der Firewall-Konfiguration

```
KQL: event.category:"firewall" AND (firewall_action:"added_rule" OR firewall_action:"removed_rule") Lucene: event.category:"firewall" AND (firewall_action:"added_rule" OR firewall_action:"removed_rule")
```

Typische Angreifer Tools

PowerView.ps1

```
KQL:
```

```
event.category: "process" AND process_name: "powershell.exe" AND (process_command_line: "*PowerView.ps1" OR (pr
```

event.category: "process" AND process_name: "powershell.exe" AND (process_command_line: "*PowerView.ps1" OR (pr

PowerUp.ps1

```
KQL:
```

```
event.category: "process" AND process_name: "powershell.exe" AND (process_command_line: "*PowerUp.ps1" OR (process_comm
```

PowerUpSQL.ps1

```
KQL:
```

```
event.category: "process" AND process_name: "powershell.exe" AND (process_command_line: "*PowerUpSQL.ps1" OR (process_command_line: "*publicene: "*p
```

```
event.category: "process" AND process_name: "powershell.exe" AND (process_command_line: "*PowerUpSQL.ps1" OR (process_command_line: "*powershell.exe" AND (process
```

WinPEASx64.exe

```
KQL: event.category: "process" AND (process_name: "WinPEASx64.exe" OR file_name: "WinPEASx64.exe") Lucene: event.category: "process" AND (process_name: "WinPEASx64.exe" OR file_name: "WinPEASx64.exe")
```

Certify.exe

```
KQL: event.category:"process" AND (process_name:"Certify.exe" OR file_name:"Certify.exe")
Lucene: event.category:"process" AND (process_name:"Certify.exe" OR file_name:"Certify.exe")
```

SharpWMI.exe

```
KQL: event.category: "process" AND (process_name: "SharpWMI.exe" OR file_name: "SharpWMI.exe") Lucene: event.category: "process" AND (process_name: "SharpWMI.exe" OR file_name: "SharpWMI.exe")
```

HFS.exe

```
KQL: event.category: "process" AND (process_name: "HFS.exe" OR file_name: "HFS.exe") Lucene: event.category: "process" AND (process_name: "HFS.exe" OR file_name: "HFS.exe")
```

MS-RPRN.exe

```
KQL: event.category:"process" AND (process_name:"MS-RPRN.exe" OR file_name:"MS-RPRN.exe") Lucene: event.category:"process" AND (process_name:"MS-RPRN.exe" OR file_name:"MS-RPRN.exe")
```

hfs.exe

```
KQL: event.category:"process" AND (process_name:"hfs.exe" OR file_name:"hfs.exe") Lucene:
event.category:"process" AND (process_name:"hfs.exe" OR file_name:"hfs.exe")
```

PetitPotam.exe

```
KQL: event.category: "process" AND (process_name: "PetitPotam.exe" OR file_name: "PetitPotam.exe") Lucene: event.category: "process" AND (process_name: "PetitPotam.exe" OR file_name: "PetitPotam.exe")
```

powercat.ps1

KQL:

```
event.category:"process" AND process_name:"powershell.exe" AND (process_command_line:"*powercat.ps1" OR (process_command_line:"*pow
Lucene:
```

event.category: "process" AND process_name: "powershell.exe" AND (process_command_line: "*powercat.ps1" OR (proces

NetCease.ps1

KQL:

```
event.category: "process" AND process_name: "powershell.exe" AND (process_command_line: "*NetCease.ps1" OR (process_command_line: "*powershell.exe" AND (process_command_line: "*NetCease.ps1" OR (process_command_line: "*
```

ADACLScan.ps1

KQL:

```
event.category: "process" AND process_name: "powershell.exe" AND (process_command_line: "*ADACLScan.ps1" OR (process_command_line: "*powershell.exe" AND (process_command_line: "*ADACLScan.ps1" OR (process_command_line: "*powershell.exe" AND (process_command_line: "*ADACLScan.ps1" OR (process_command_line: "*powershell.exe" AND (proces
```

Mimikatz

```
KQL: event.category: "process" AND (process_name: "mimikatz.exe" OR file_name: "mimikatz.exe") Lucene: event.category: "process" AND (process_name: "mimikatz.exe" OR file_name: "mimikatz.exe")
```

LaZagne.exe

```
KQL: event.category: "process" AND (process_name: "LaZagne.exe" OR file_name: "LaZagne.exe") Lucene: event.category: "process" AND (process_name: "LaZagne.exe" OR file_name: "LaZagne.exe")
```

SafetyKatz und BetterSafetyKatz

```
KQL:
```

```
event.category: "process" AND (process_name: "SafetyKatz.exe" OR process_name: "BetterSafetyKatz.exe" OR file_name: "SafetyKatz.exe" OR cucene:

event.category: "process" AND (process_name: "SafetyKatz.exe" OR process_name: "BetterSafetyKatz.exe" OR file_name: "SafetyKatz.exe" OR process_name: "BetterSafetyKatz.exe" OR p
```

Erkennung von SharpKatz und pypykatz

KOI ·

event.category: "process" AND (process_name: "SharpKatz.exe" OR process_name: "pypykatz.exe" OR file_name: "SharpKatz.exe" OR file_name: Lucene:

event.category: "process" AND (process_name: "SharpKatz.exe" OR process_name: "pypykatz.exe" OR file_name: "SharpKatz.exe" OR

procdump und minidump

KOI ·

event.category: "process" AND (process_name: "procdump.exe" OR process_name: "minidump.exe" OR file_name: "procdump.exe" OR file_name: Lucene:

event.category: "process" AND (process_name: "procdump.exe" OR process_name: "minidump.exe" OR file_name: "procdump.exe" OR file_name:

Snaffler.exe, SharpHound, BloodHound, PurpleKnight, BeRoot

KQL:

(process_name: "Snaffler.exe" OR process_name: "SharpHound.exe" OR process_name: "BloodHound.exe" OR process_name: "PurpleKnight.exe" Or p

(process_name: "Snaffler.exe" OR process_name: "SharpHound.exe" OR process_name: "BloodHound.exe" OR process_name: "PurpleKnight.exe" Or p

Windows File Transfer

Verdächtige Dateiübertragung über SMB (Server Message Block)

KQL:

event.category: "network" AND network_direction: "outbound" AND (destination_port: 445 OR destination_port: 139) AND (file_name: "*.exe Lucene:

event.category: "network" AND network_direction: "outbound" AND (destination_port: 445 OR destination_port: 139) AND (file_name: "*.exe

Verdächtige Dateiübertragung über FTP (File Transfer Protocol)

KQL:

event.category: "network" AND network_direction: "outbound" AND destination_port:21 AND (file_name: "*.exe" OR file_name: "*.dll" OR file_name: "*.dll" OR file_name: "*.dll" OR file_name: "*.dll" OR file_name: "*.exe" OR file_name: "*.dll" OR file_name: "*.dll" OR file_name: "*.dll" OR file_name: "*.exe" OR file_name: "*.dll" OR

event.category: "network" AND network_direction: "outbound" AND destination_port: 21 AND (file_name: "*.exe" OR file_name: "*.dll" OR file_name: "*.dll" OR file_name: "*.dll" OR file_name: "*.exe" OR file_name: "*.dll" O

Verdächtige Dateiübertragung über HTTP/HTTPS

KQL:

event.category: "network" AND (destination_port:80 OR destination_port:443) AND (file_name: "*.exe" OR file_name: "*.dll" OR file_name: Lucene:

event.category: "network" AND (destination_port:80 OR destination_port:443) AND (file_name: "*.exe" OR file_name: "*.dll" OR file_name

Verdächtige Dateiübertragung über PowerShell Remoting

KQL:

event.category: "process" AND process_name: "powershell.exe" AND (process_command_line: "*-EncodedCommand*" OR process_command_line: "*
Lucene:

event.category: "process" AND process_name: "powershell.exe" AND (process_command_line: "*-EncodedCommand*" OR process_command_line: "*

Verdächtige Dateiübertragung über Remote Desktop Protocol (RDP)

KQL:

event.category: "network" AND network_direction: "outbound" AND destination_port:3389 AND (file_name: "*.exe" OR file_name: "*.dll" OR Lucene:

event.category: "network" AND network_direction: "outbound" AND destination_port:3389 AND (file_name: "*.exe" OR file_name: "*.dll" OR

Verdächtige Dateiübertragung über Windows Management Instrumentation

(WMI) KQL:

event.category: "process" AND process_name: "wmiprvse.exe" AND (process_command_line: "*CopyTo*" OR process_command_line: "*Create*" OF Lucene:

event.category: "process" AND process_name: "wmiprvse.exe" AND (process_command_line: "*CopyTo*" OR process_command_line: "*Create*" OF p

Verdächtige Dateiübertragung über SMB mittels Windows-Freigaben

KQL:

event.category: "network" AND network_direction: "outbound" AND (destination_port: 445 OR destination_port: 139) AND (file_name: "*.exe' Lucene:

event.category: "network" AND network_direction: "outbound" AND (destination_port: 445 OR destination_port: 139) AND (file_name: "*.exe

Verdächtige Dateiübertragung über HTTP/HTTPS mit einem POST-Request

KQL:

event.category: "network" AND (destination_port: 80 OR destination_port: 443) AND (http_request_method: "POST" OR http_request_method: Lucene:

event.category: "network" AND (destination_port:80 OR destination_port:443) AND (http_request_method: "POST" OR http_request_method:

Verdächtige Dateiübertragung über TFTP (Trivial File Transfer Protocol)

KOI ·

event.category: "network" AND network_direction: "outbound" AND destination_port:69 AND (file_name: "*.exe" OR file_name: "*.dll" OR f: Lucene:

event.category: "network" AND network_direction: "outbound" AND destination_port:69 AND (file_name: "*.exe" OR file_name: "*.dll" OR file_name: "*.dll" OR file_name: "*.exe" OR file_name: "*.dll" OR file_name: "*.dll" OR file_name: "*.exe" OR file_name: "*.dll" OR file_name: "*.dll" OR file_name: "*.exe" OR file_name: "*.dll" OR

Linux File Transfer Angriffe

Verdächtige Dateiübertragung über SSH (Secure Shell)

KQL: event.category: "network" AND destination_port:22 AND (file_name: "*.exe" OR file_name: "*.dll" OR file_name: "*.zip")

Lucene: event.category: "network" AND destination_port:22 AND (file_name: "*.exe" OR file_name: "*.dll" OR file_name: "*.zip")

Verdächtige Dateiübertragung über FTP (File Transfer Protocol)

KQL: event.category: "network" AND destination_port:21 AND (file_name: "*.exe" OR file_name: "*.dll" OR file_name: "*.zip")

Lucene: event.category: "network" AND destination_port:21 AND (file_name: "*.exe" OR file_name: "*.dll" OR file_name: "*.zip")

Verdächtige Dateiübertragung über SCP (Secure Copy Protocol)

KQL

event.category: "network" AND destination_port:22 AND (file_name: "*.exe" OR file_name: "*.dll" OR file_name: "*.zip") AND (event.action_name: "*.exe") AND (event.action_name: "*.dll" OR file_name: "*.zip") AND (event.action_name: "*.exe") AND (event.action_name: "*.dll" OR file_name: "*.zip") AND (event.action_name: "*.exe") An

event.category: "network" AND destination_port:22 AND (file_name: "*.exe" OR file_name: "*.dll" OR file_name: "*.zip") AND (event.action_name)

Verdächtige Dateiübertragung über HTTP/HTTPS mit wget oder curl

KQL:

event.category: "process" AND (process_name: "wget" OR process_name: "curl") AND (process_command_line: "*.exe" OR process_command_line: Lucene:

event.category: "process" AND (process_name: "wget" OR process_name: "curl") AND (process_command_line: "*.exe" OR process_command_line

Verdächtige Dateiübertragung über SCP mit rsync

KQL:

event.category: "process" AND (process_name: "scp" OR process_name: "rsync") AND (process_command_line: "*-P*" OR process_command_line

event.category: "process" AND (process_name: "scp" OR process_name: "rsync") AND (process_command_line: "*-P*" OR process_command_line

Verdächtige Dateiübertragung über SFTP (Secure FTP)

KQL: event.category: "network" AND destination_port:22 AND (file_name: "*.exe" OR file_name: "*.dll" OR file_name: "*.zip")

Lucene: event.category: "network" AND destination_port:22 AND (file_name: "*.exe" OR file_name: "*.dll" OR file_name: "*.zip")

Verdächtige Dateiübertragung über SMB (Server Message Block) aus Linux

heraus KQL:

event.category: "network" AND network_direction: "outbound" AND (destination_port:445 OR destination_port:139) AND (file_name: "*.exe Lucene:

event.category: "network" AND network_direction: "outbound" AND (destination_port: 445 OR destination_port: 139) AND (file_name: "*.exe

Verdächtige Dateiübertragung über FTP (File Transfer Protocol) aus

Linux heraus KQL:

```
event.category: "network" AND network_direction: "outbound" AND destination_port: 21 AND (file_name: "*.exe" OR file_name: "*.dll" OR file_name: "*.dll" OR file_name: "*.dll" OR file_name: "*.exe" OR file_name: "*.dll" O
  event.category: "network" AND network_direction: "outbound" AND destination_port: 21 AND (file_name: "*.exe" OR file_name: "*.dll" OR file_name: "*.dll" OR file_name: "*.dll" OR file_name: "*.exe" OR file_name: "*.dll" O
Verdächtige Dateiübertragung über SCP (Secure Copy Protocol) aus Linux
heraus KQL:
  event.category: "process" AND process_name: "scp" AND (process_command_line: "*-P*" OR process_command_line: "*-E*" OR process
  event.category: "process" AND process_name: "scp" AND (process_command_line: "*-P*" OR process_command_line: "*-E*" OR process_command_
Wichtige OSQuery Queries
Verdächtige Prozesse (z.B. für Mailserver, CMS, etc.)
  SELECT * FROM processes WHERE name IN ('wp-login.php', 'xmlrpc.php', 'administrator/index.php', 'user/login');
Verdächtige Anmeldeversuche (z.B. für Mailserver)
  SELECT * FROM last WHERE user NOT IN ('known_user1', 'known_user2') AND type = 'failed_login';
Verdächtige Dateiänderungen (z.B. für CMS-Plugins oder -Themes)
  SELECT * FROM file_events WHERE target_path LIKE '/var/www/html/%' AND action = 'CREATED';
Verdächtige Netzwerkverbindungen (z.B. für C2-Infrastruktur)
  SELECT * FROM process_open_sockets WHERE remote_address NOT IN ('known_good_ip1', 'known_good_ip2');
Verdächtige Autostart-Einträge (z.B. für Persistenz)
  SELECT * FROM startup_items WHERE name NOT IN ('known_good_startup1', 'known_good_startup2');
Verdächtige Kernel-Module (z.B. für Rootkits)
   SELECT * FROM kernel modules WHERE name NOT IN ('known good module1', 'known good module2');
Verdächtige geplante Aufgaben (z.B. für Lateral Movement)
  SELECT * FROM crontab WHERE command LIKE '%suspicious command%';
Verdächtige Benutzer und Gruppen (z.B. für Privilege Escalation)
  SELECT * FROM users WHERE uid < 1000 AND username NOT IN ('root', 'known_user');
Verdächtige Dateiberechtigungen (z.B. für Privilege Escalation)
  SELECT * FROM file WHERE path LIKE '/etc/%' AND permissions != '0644';
Verdächtige Systemänderungen (z.B. für System Manipulation)
  SELECT * FROM yara_events WHERE sig_group = 'malicious_activity';
Verdächtige SSH-Anmeldeversuche
  SELECT * FROM last WHERE user NOT IN ('known_user1', 'known_user2') AND type = 'failed_ssh_login';
Verdächtige geladene Kernel-Erweiterungen (z.B. für macOS Rootkits)
  SELECT * FROM kernel_extensions WHERE name NOT IN ('known_good_kext1', 'known_good_kext2');
Verdächtige Docker-Container
  SELECT * FROM docker_containers WHERE state = 'running' AND image NOT IN ('known_good_imagel', 'known_good_image2');
Verdächtige Browser-Erweiterungen
  SELECT * FROM browser_extensions WHERE name NOT IN ('known_good_extension1', 'known_good_extension2');
```

```
Verdächtige geöffnete Ports
```

```
SELECT * FROM listening_ports WHERE port NOT IN (80, 443, 22) AND address != '127.0.0.1';
```

Verdächtige SUID- und SGID-Dateien

```
SELECT * FROM suid_bin WHERE path NOT IN ('/bin/su', '/usr/bin/sudo');
```

Verdächtige Windows-Dienste

`SELECT * FROM services WHERE starttype = 'AUTOSTART' AND name NOT IN ('knowngoodservice1', 'knowngoodservice2');

Verdächtige Windows-Treiber

```
SELECT * FROM drivers WHERE name NOT IN ('known good driver1', 'known good driver2');
```

Verdächtige Windows-Registry-Änderungen

```
SELECT * FROM registry_events WHERE action = 'SET' AND path LIKE 'HKEY_LOCAL_MACHINE\SOFTWARE\%';
```

Verdächtige Windows-Ereignisprotokolle

```
SELECT * FROM windows_events WHERE event_id IN (4624, 4625) AND log_name = 'Security';
```

Verdächtige Datei-Hashes

```
SELECT * FROM hash WHERE path LIKE '/var/www/html/%' AND sha256 NOT IN ('known_good_hash1', 'known_good_hash2');
```

Verdächtige Windows-Aufgabenplaner-Aufgaben

```
SELECT * FROM scheduled_tasks WHERE enabled = 1 AND action NOT LIKE '%known_good_program%';
```

Verdächtige ACPI-Tabellen (potenzielle UEFI-Rootkits)

```
SELECT * FROM acpi_tables WHERE description NOT IN ('known_good_description1', 'known_good_description2');
```

Verdächtige Kernel-Integritätsprüfungen (Linux)

```
SELECT * FROM kernel_integrity WHERE attribute = 'IMA' AND status != 0;
```

Verdächtige Windows-Prefetch-Dateien (Programmausführung)

```
SELECT * FROM prefetch WHERE last_execution_time > NOW() - 86400 AND filename NOT IN ('known_good_program1.exe', 'known_good_program
```

Verdächtige Hardware-Änderungen

```
SELECT * FROM hardware_events WHERE action = 'added';
```

Verdächtige Windows-Firewall-Regeln

```
SELECT * FROM windows_firewall_rules WHERE action = 'Allow' AND direction = 'Outbound' AND remote_ip != '0.0.0.0/0';
```

Verdächtige ELF-Header (potenzielle Linux-Malware)

```
SELECT * FROM elf_info WHERE entry = 'malicious_entry_point';
```

Verdächtige Windows-Datei-Streams (ADS)

```
SELECT * FROM ntfs_acl_permissions WHERE inherited = 0 AND type = 'Allow' AND principal = 'Everyone';
```

Verdächtige USB-Geräte

```
SELECT * FROM usb_devices WHERE vendor NOT IN ('known_good_vendor1', 'known_good_vendor2');
```

Verdächtige Netzwerkverbindungen (z.B. für C2-Aktivitäten)

```
SELECT * FROM process_open_sockets WHERE remote_address NOT IN ('known_good_ip1', 'known_good_ip2');
```

Verdächtige Prozesse, die von nicht autorisierten Benutzern gestartet

```
NOW() - 3600:
  Verdächtige Änderungen an sicherheitsrelevanten Dateien
  SELECT * FROM file WHERE path IN ('/etc/passwd', '/etc/shadow') AND action = 'MODIFY';
  Verdächtige DNS-Anfragen (z.B. für Domain Generation Algorithms - DGAs)
  SELECT * FROM dns_resolvers WHERE query_domain LIKE '%.example.com';
  Verdächtige Benutzeraktivitäten (z.B. für Benutzerüberwachung)
  SELECT * FROM user_events WHERE event_type = 'login_failed' AND username NOT IN ('known_good_user1', 'known_good_user2');
  Verdächtige Änderungen an Windows-Diensten
  SELECT * FROM windows_serviceS WHERE service_name NOT IN ('known_good_service1', 'known_good_service2') AND service_start_type !
  Verdächtige Zugriffsrechteänderungen in der Windows-Registry
  SELECT * FROM windows_registry WHERE hive LIKE 'HKEY_LOCAL_MACHINE\Software\%' AND key_name LIKE '%malicious_key%' AND change_ty
  Verdächtige Änderungen an Windows-Dateien und Ordnern
  SELECT * FROM windows_file_events WHERE path LIKE 'C:\Windows\%' AND change_type IN ('created', 'modified');
  Verdächtige Prozesse mit ungewöhnlichen Elternprozessen
  SELECT * FROM processes AS p1 WHERE p1.parent NOT IN (SELECT parent FROM processes WHERE name = 'known_good_process');
  Verdächtige Inbound-Verbindungen auf unüblichen Ports
  SELECT * FROM listening_ports WHERE remote_port NOT IN (80, 443, 22) AND address != '127.0.0.1';
Verdächtige Prozesse, die auf sensible Dateien zugreifen
SELECT DISTINCT p.pid, p.name, p.path, f.path AS accessed_file FROM processes AS p JOIN file_events AS f ON p.pid = f.pid WHERE f.a
Verdächtige Verbindungen zu bekannten Malware-IP-Adressen
SELECT DISTINCT p.pid, p.name, c.remote_address FROM process_open_sockets AS c JOIN processes AS p ON c.pid = p.pid WHERE c.remote_
Verdächtige Ausführung von Verschlüsselungstools (z.B. Ransomware)
SELECT * FROM processes WHERE name IN ('openssl', 'cryptsetup', 'TrueCrypt');
Verdächtige Registrierungseinträge für Autostart (Windows)
SELECT * FROM registry WHERE path LIKE 'HKEY_LOCAL_MACHINE\Software\Microsoft\Windows\CurrentVersion\Run%' AND value_name NOT IN (
Verdächtige Änderungen an kritischen Systemdateien
SELECT * FROM file WHERE path IN ('/bin/login', '/usr/bin/sudo') AND action = 'MODIFY';
Verdächtige PowerShell-Aktivitäten (Windows)
SELECT * FROM process_events WHERE name = 'powershell.exe' AND cmdline LIKE '%malicious_command%';
Verdächtige Linux-Verzeichnisberechtigungen
SELECT * FROM file WHERE path LIKE '/etc/%' AND permissions != '0644';
Verdächtige Windows-Ereignisanzeigen für fehlgeschlagene Anmeldeversuche
SELECT * FROM windows_events WHERE event_id = 4625 AND log_name = 'Security' AND event_type = 'failure';
Verdächtige DNS-Anfragen nach bekannten C2-Domains
```

```
SELECT * FROM dns_resolvers WHERE query_domain IN ('malicious-c2-domain1.com', 'malicious-c2-domain2.com');
```

Verdächtige Apache/Nginx-Webserver-Logs (z.B. SQL Injection)

`SELECT * FROM file WHERE path LIKE '/var/log/apache/%' AND content LIKE '%SQL Injection%';

,

Verdächtige Registry-Änderungen (Windows)

SELECT * FROM registry WHERE action = 'modified' AND hive IN ('HKEY_LOCAL_MACHINE', 'HKEY_USERS') AND key_path LIKE '%Software\\Mic

Verdächtige Dienste mit offenen Netzwerkverbindungen

SELECT DISTINCT s.service_name, s.display_name, p.name AS process_name, c.local_address, c.local_port, c.remote_address, c.remote_s

Verdächtige Prozesse, die Dateien löschen

SELECT DISTINCT p.pid, p.name, f.path AS deleted_file FROM file_events AS f JOIN processes AS p ON f.pid = p.pid WHERE f.action =

Verdächtige PowerShell-Aktivitäten mit obfusziertem Code

SELECT * FROM process_events WHERE name = 'powershell.exe' AND cmdline LIKE '%-enc%' OR cmdline LIKE '%-e%';

Verdächtige Windows-Ereignisanzeigen für erhöhte Privilegien

SELECT * FROM windows_events WHERE event_id IN (4688, 4648) AND log_name = 'Security' AND event_type = 'success';

Verdächtige Netzwerkaktivitäten außerhalb von Bürozeiten

SELECT DISTINCT c.pid, p.name, c.remote_address, c.remote_port FROM process_open_sockets AS c JOIN processes AS p ON c.pid = p.pid

Verdächtige Benutzeraktivitäten (z.B. Änderung von

Benutzereinstellungen)

SELECT * FROM user_events WHERE event_type = 'user_modified_settings' AND username NOT IN ('known_good_user1', 'known_good_user2');

Verdächtige DNS-Anfragen nach ungewöhnlichen Subdomänen

SELECT * FROM dns_resolvers WHERE query_domain LIKE '%.malicious-domain.com';

Verdächtige Prozesse, die aus dem Temp-Verzeichnis starten

SELECT * FROM processes WHERE path LIKE '/tmp/%';

Verdächtige SUID-/SGID-Dateien

SELECT * FROM suid bin WHERE path NOT LIKE '/usr/bin/sudo' AND path NOT LIKE '/bin/su';

Verdächtige Datei- oder Verzeichnisberechtigungsänderungen

SELECT * FROM file WHERE permissions != '0644' AND path NOT LIKE '/tmp/%';

Verdächtige Anwendungsaufrufe aus nicht vertrauenswürdigen

Verzeichnissen SELECT * FROM file WHERE path LIKE '/var/tmp/%' AND (ext = 'exe' OR ext = 'dll' OR ext = 'so');

Verdächtige Änderungen an der Windows-Firewall

SELECT * FROM windows_firewall_rules WHERE action = 'Allow' AND direction = 'Inbound' AND remote_ip != '0.0.0.0/0';

Verdächtige PowerShell-Aktivitäten mit Downloads aus dem Internet

SELECT * FROM process_events WHERE name = 'powershell.exe' AND cmdline LIKE '%Invoke-WebRequest%' OR cmdline LIKE '%Invoke-RestMetl

Verdächtige SMB/CIFS-Dateifreigaben und Zugriffe

SELECT * FROM smb_shares; SELECT * FROM smb_sessions WHERE share_name NOT IN ('IPC\$', 'C\$', 'ADMIN\$');

Verdächtige Windows-Verwaltungsinstrumente (WMI, PSExec)

```
SELECT * FROM processes WHERE name IN ('wmiprvse.exe', 'psexesvc.exe', 'PsExec.exe');
```

Verdächtige Dateiänderungen in den Benutzerprofilen (Windows)

```
SELECT * FROM file WHERE path LIKE 'C:\\Users\\%\\AppData\\Roaming\\%' AND action = 'MODIFY';
```

Verdächtige Dateiübertragungen über FTP/SFTP

```
SELECT * FROM processes WHERE cmdline LIKE '%ftp%' OR cmdline LIKE '%sftp%';
```

Verdächtige Aktivitäten von Privilegierten Benutzern

```
SELECT * FROM users WHERE uid >= 1000 AND username IN ('admin', 'root') AND password_change_time > NOW() - 604800;
```

Verdächtige Apache/Nginx-Webserver-Logs (z.B. XSS-Angriffe)

`SELECT * FROM file WHERE path LIKE '/var/log/apache/%' AND content LIKE '%%';

.