



NWL\_Potential Post Exploit

"event\_simpleName=""ProcessRollup2"" earliest=-24h@h FileName=PsInfo.exe OR FileName=PsLoggedon.exe OR FileName=pssuspend.exe OR FileName=psfile.exe OR FileName=PsService.exe OR FileName=PsGetsid.exe OR FileName=pslist.exe OR FileName=pspasswd.exe OR FileName=psshutdown.exe OR FileName=psping.exe OR FileName=psloglist.exe |rex field=CommandLine ""(?<CommandLine>[^\|]+)\$"" |regex CommandLine=""(?!Spammypath"" |stats count values(CommandLine) by ComputerName"

NWL\_WannaCry

event\_simpleName=ProcessRollup2 OR event\_simpleName=SyntheticProcessRollup2 MD5HashData=86F8E249B90A767D28BE2D16EB702675 OR MD5HashData=a043fac94294b844bd4f05e3aec2c612 OR MD5HashData=f107a717f76f4f910ae9cb4dc5290594 OR MD5HashData=84c82835a5d21bbcf75a61706d8ab549 OR MD5HashData=7f7ccaa16fb15eb1c7399d422f8363e8 OR MD5HashData=509c41ec97bb81b0567b059aa2f50fe8 OR MD5HashData=db349b97c37d22f5ea1d1841e3c89eb4 earliest=-24h@h

NWL\_Wscript Runs Obfuscated JS

event\_simpleName=ProcessRollup2 OR event\_simpleName=SyntheticProcessRollup2 CommandLine=""wscript.exe\*ProgramData"" earliest=-24h@h

NWL\_CMD or PS Invoke-Expression with Env Variable

event\_simpleName=ProcessRollup2 OR event\_simpleName=SyntheticProcessRollup2 CommandLine=""\*wscript.exe\*ProgramData"" earliest=-24h@h

Find out Suspicious Registry Changes

"event\_simpleName=ASEP" earliest=-24h@h |rex field=RegStringValue ""(?<RegStringValueTrim>[^\|]+)\$"" |stats dc(ComputerName) as count values(ComputerName) values(RegStringValue) by RegStringValueTrim |sort -count |where count < 10"

SysInternals Use

"sourcetype=PeVersionInfoV3-v02 CompanyName=\*Sysinternals\* earliest=-24h@h |eval OriginalFilename=lower(OriginalFilename) |stats values(ImageFileName) values(ComputerName) values(SHA256HashData) count by OriginalFilename"

NWL\_Administrator Enumeration

"event\_simpleName=ProcessRollup2 OR event\_simpleName=SyntheticProcessRollup2 (FileName=net.exe OR FileName=net1.exe) AND CommandLine=""\*admin\*" AND (CommandLine=""\*localgroup\*" OR CommandLine=""\*domain\*") earliest=-24h@h |regex CommandLine=""(?!Uninstall|aspect|S-1-5-32-544"" |stats count values(CommandLine) by ComputerName"

Find out Off Shore Non Standard Ports

"eventtype=eam NetworkConnectIP4 RemoteAddressIP4!=127.0.0.0/8 RemoteAddressIP4!=222.222.222.0/22 RemoteAddressIP4!=222.222.222.0/23 RemoteAddressIP4!=10.0.0.0/8 RemoteAddressIP4!=172.16.0.0/12 RemoteAddressIP4!=192.168.0.0/16 RemotePort\_decimal!=443 RemotePort\_decimal!=80 |head 10000 |plocation RemoteAddressIP4 |search Country!="United States"" |stats count values(Country) values(RemoteAddressIP4) values(RemotePort\_decimal) by ComputerName |sort -count"

Regkey stuff

"event\_simpleName=Asep\* RegObjectName=\*\\Run |regex TargetCommandLineParameters!=""(?!)"|\\[-[a-z]]\\V[a-z]|\\V0000"" |regex RegValueName!=""(?!)"|program files|Program Files|del|Logitech|sidebar|tomtom|Yandex"" |stats count values(RegStringValue) values(RegValueName) values(ComputerName) by TargetCommandLineParameters |sort -count"

Review all events for ComputerName

source=PlatformEvents ComputerName=COMPUTERNAME

Execution of Renamed Executables

"event\_simpleName=""NewExecutableRenamed"" SourceFileName!="\*.exe"" |regex CommandLine!=""(?!)"\\.partial"" |rename TargetFileName as ImageFileName |join ImageFileName [ search event\_simpleName=""ProcessRollup2"" ] |table ComputerName SourceFileName ImageFileName CommandLine"

LOLBAS (add to ID:86 or 87)

"eventtype=eam (ProcessRollup2 OR SyntheticProcessRollup2) (FileName=Atbroker.exe OR FileName=Bash.exe OR FileName=Bitsadmin.exe OR FileName=Certutil.exe OR FileName=Cmd.exe OR FileName=Cmstp.exe OR FileName=Control.exe OR FileName=Cscript.exe OR FileName=Csc.exe OR FileName=Dfsvc.exe OR FileName=Diskshadow.exe OR FileName=Dnscmd.exe OR FileName=Esentutl.exe OR FileName=Eventvwr.exe OR FileName=Expand.exe OR FileName=Extexport.exe OR FileName=Extrac32.exe OR FileName=Findstr.exe OR FileName=Forfiles.exe OR FileName=Ftp.exe OR FileName=Gpscript.exe OR FileName=Hh.exe OR FileName=le4unit.exe OR FileName=leexec.exe OR FileName=Infdefaultinstall.exe OR FileName=Installutil.exe OR FileName=Jsc.exe OR FileName=Makecab.exe OR FileName=Mavinject.exe OR FileName=Mmc.exe OR FileName=Msconfig.exe OR FileName=Msdt.exe OR FileName=Mshta.exe OR FileName=Msieexec.exe OR FileName=Odbccconf.exe OR FileName=Pcalua.exe OR FileName=Pcwrn.exe OR FileName=Presentationhost.exe OR FileName=Print.exe OR FileName=Regasm.exe OR FileName=Regedit.exe OR FileName=Register-cimprovider.exe OR FileName=Regsvcs.exe OR FileName=Regsvr32.exe OR FileName=Reg.exe OR FileName=Replace.exe OR FileName=Rcping.exe OR FileName=Rundll32.exe OR FileName=Runonce.exe OR FileName=Runscripthelper.exe OR FileName=Schtasks.exe OR FileName=Scriptrunner.exe OR FileName=Sc.exe OR FileName=SyncAppvPublishingServer.exe OR FileName=Verclsid.exe OR FileName=Wab.exe OR FileName=Wmic.exe OR FileName=Wscript.exe OR FileName=Wsreset.exe OR FileName=Xwizard.exe) |regex CommandLine!=""(?!)"Microsoft Monitoring Agent"" |stats values(CommandLine) count by ComputerName |sort -count"

Suspicious PowerShell Process, Spawned from Explorer, with Network Connections

Find out processes and connected domain names

Find out and resolve IOAs/NAMES in Monitor mode.

Find out hits for custom IOAs in Monitor status

Find out HTA files

MAC: Chmod commands run on hidden user dirs 2

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NWL\_Wscript Runs Obfuscated JS

NWL\_CMD or PS Invoke-Expression with Env Variable

Find out Suspicious Registry Changes

SysInternals Use

NWL\_Administrator Enumeration

Find out Off Shore Non Standard Ports

Regkey stuff

Review all events for ComputerName

Execution of Renamed Executables

LOLBAS (add to ID:86 or 87)

"event\_simpleName=""DnsRequest"" |rename ContextProcessId as TargetProcessId |join TargetProcessId [ search event\_simpleName=""ProcessRollup2"" AND FileName=""explorer.exe"" |dedup CommandLine |rename TargetProcessId\_decimal as ParentProcessId\_decimal |join ParentProcessId\_decimal [ search event\_simpleName=""ProcessRollup2"" FileName=""powershell.exe"" |dedup CommandLine]] |table ComputerName timestamp ImageFileName DomainName CommandLine"

"ComputerName=""EHTT1-DHD2NH2"" event\_simpleName=""DnsRequest"" DomainName=""\*.\*"" | regex DomainName!=""(?!)"adobe\\.com\$|google\\.com\$|newellco\\.com\$|outlook\\.com\$|microsoft\\.com\$|live\\.com\$|skype\\.com\$|fo otprintdns\\.com\$|microsoftonline\\.com\$|office365\\.com\$|office\\.net\$|digicert\\.com\$|office\\.com\$|windows\\.com\$|lync\\.com\$|apple\\.com\$|windows\\.net\$|icloud\\.net\$|goody\\.com\$|facebook\\.com\$|jahglobal\\.net\$|0\\.0\\.0\\.0\$|rackcdn\\.com\$|yammer\\.com\$|office\\.com\$|msedge\\.net\$|identrust\\.com\$|letsencrypt\\.org\$|msn\\.com\$|bing\\.com\$|msocps\\.com\$|cloudsink\\.net\$|\\.ocalmachine"" |rename ContextProcessId\_decimal as TargetProcessId\_decimal |join TargetProcessId\_decimal [search ComputerName=""EHTT1-DHD2NH2"" event\_simpleName=""ProcessRollup2"" earliest=-24h@h |regex CommandLine!=""(?!)"iexplore\\.exe|chrome\\.exe|MicrosoftEdgeCP\\.exe|firefox\\.exe|google|smartscreen\\.exe|OneDrive\\.exe|SearchUI\\.exe|mimemcast\\.com|MicrosoftEdge\\.exe"" |rex field=CommandLine ""(?<CommandLine>[^\|]+)\$"" | eval ""Last Seen (UTC)""=strftime(\_time, ""%m/%d/%y %l:%M:%p"" ) |stats sparkline count values(CommandLine) values(DomainName) dc(""Last Seen (UTC)"" ) by FileName SHA256HashData"

"event\_simpleName=CustomIOABasicProcessDetectionInfoEvent OR event\_simpleName=CustomLOADDomainNameDetectionInfoEvent OR event\_simpleName=CustomIOFileWrittenDetectionInfoEvent OR event\_simpleName=CustomIOANetworkConnectionDetectionInfoEvent AND CommandLine!=\*updates\* |rex field=CommandLine ""(?<CommandLine\_Short>[^\|]+)\$"" |rex field=CommandLine\_Short ""(?P<CommandLine\_Short>\\w{75}).\*" |rex field=GrandparentCommandLine ""(?<GrandparentCommandLine\_Short>[^\|]+)\$"" |rex field=GrandparentCommandLine\_Short ""(?P<GrandparentCommandLine\_Short>\\w{75}).\*" |rex field=ParentCommandLine ""(?<ParentCommandLine\_Short>[^\|]+)\$"" |rex field=ParentCommandLine\_Short ""(?P<ParentCommandLine\_Short>\\w{75}).\*" | eval ""IOA Rule Name""=case(TemplateInstanceDecimal=""25"" ""15,25,at.exe"" TemplateInstanceDecimal=""29"" ""24,29,bitsadmin.exe"" TemplateInstanceDecimal=""30"" ""32,30,certutil.exe"" TemplateInstanceDecimal=""27"" ""29,27,calc.exe"" TemplateInstanceDecimal=""34"" ""0,34,Torrents"" TemplateInstanceDecimal=""31"" ""0,31,WebNavigator\_Network\_Domain"" TemplateInstanceDecimal=""32"" ""0,32,WebNavigator\_File"" TemplateInstanceDecimal=""36"" ""44,36,cmd.exe"" TemplateInstanceDecimal=""38"" ""0,38,Tor"" TemplateInstanceDecimal=""39"" ""0,39,VPN"" ) |fillnull value=null customIOAname |eval ""Time EST""=strftime(\_time-14400, ""%m/%d/%y %l:%M:%S %p"" ) |stats count earliest(""Time EST"" ) values(CommandLine\_Short) values(GrandparentCommandLine) values(ParentCommandLine) by ""Time EST"" ComputerName TemplateInstanceDecimal ""IOA Rule Name"" |sort - ""Time EST"""

"event\_simpleName=CustomIOABasicProcessDetectionInfoEvent OR event\_simpleName=CustomLOADDomainNameDetectionInfoEvent OR event\_simpleName=CustomIOFileWrittenDetectionInfoEvent OR event\_simpleName=CustomIOANetworkConnectionDetectionInfoEvent AND CommandLine!=\*updates\* |rex field=CommandLine ""(?<CommandLine\_Short>[^\|]+)\$"" |rex field=CommandLine\_Short ""(?P<CommandLine\_Short>\\w{75}).\*" |rex field=GrandparentCommandLine ""(?<GrandparentCommandLine\_Short>[^\|]+)\$"" |rex field=GrandparentCommandLine\_Short ""(?P<GrandparentCommandLine\_Short>\\w{75}).\*" |rex field=ParentCommandLine ""(?<ParentCommandLine\_Short>[^\|]+)\$"" |rex field=ParentCommandLine\_Short ""(?P<ParentCommandLine\_Short>\\w{75}).\*" | eval ""IOA Rule Name""=case(TemplateInstanceDecimal=""26"" ""58,26,csc.exe"" TemplateInstanceDecimal=""25"" ""15,25,at.exe"" TemplateInstanceDecimal=""29"" ""24,29,bitsadmin.exe"" TemplateInstanceDecimal=""29"" ""24,29,bitsadmin.exe"" TemplateInstanceDecimal=""30"" ""32,30,certutil.exe"" TemplateInstanceDecimal=""30"" ""32,30,certutil.exe"" TemplateInstanceDecimal=""27"" ""29,27,calc.exe"" TemplateInstanceDecimal=""34"" ""0,34,Torrents"" TemplateInstanceDecimal=""31"" ""0,31,WebNavigator\_Network\_Domain"" TemplateInstanceDecimal=""32"" ""0,32,WebNavigator\_File"" ) |fillnull value=null customIOAname |eval ""Last Seen (UTC)""=strftime(\_time, ""%m/%d/%y %l:%M:%p"" ) |stats count earliest(Last Seen (UTC)) values(CommandLine\_Short) values(GrandparentCommandLine) values(ParentCommandLine) by ComputerName TemplateInstanceDecimal ""IOA Rule Name"""

"event\_simpleName=ProcessRollup2 ImageFileName=""\*\\mshta.exe"" | table ComputerName,UserName,FileName,CommandLine,SHA256HashData |regex CommandLine!=""(?!)"TeamViewer|officejet|deskjet|Assistant|solidworks|ChangeProxySettings"" |rex field=CommandLine ""\\\\\\(?<HTA\_filename>[^\|]\*\\.hta)"""

"event\_simpleName=\*ProcessRollup2 event\_platform=Mac chmod NOT <redacted> NOT <redacted> |regex CommandLine=""/Users/[a-z]/\\..\*"" |table CommandLine"





"event\_simpleName=""ProcessRollup2"" FileName=PsExec.exe OR FileName=SysRun.exe OR FileName=wce.exe OR FileName=wce32.exe OR FileName=whosthere-alt.exe OR FileName=whosthere.exe OR FileName=genhash.exe OR FileName=iam-alt.exe OR FileName=iam.exe OR FileName=crackmapexec.exe OR FileName=hashcat64.exe OR FileName=AccessChk.exe OR FileName=Autologon.exe OR FileName=Streams.exe OR FileName=getlsasrvaddr.exe OR FileName=SharpExec\_x64.exe OR FileName=SharpExec\_x86.exe |regex CommandLine!=""(?)Spammy\_strings1|Spammy\_strings2|Spammy\_strings3|Spammy\_strings4"" |stats count values(CommandLine) by ComputerName |sort -count"

NWL\_Potential Post Exploit Tools Elevated

"event\_simpleName=NetworkConnect\* (LocalPort\_decimal=3389 OR LocalPort\_decimal=5900) (RemoteAddressIP4!=192.168.0.0/16 AND RemoteAddressIP4!=10.0.0.0/8 AND RemoteAddressIP4!=172.16.0.0/12 AND RemoteAddressIP4!=127.0.0.0/8) |rename aip as EXT\_DEST\_IP , LocalPort\_decimal as EXT\_DEST\_PORT , LocalAddressIP4 as DEST\_NAT\_IP,RemotePort\_decimal as DEST\_NAT\_PORT, RemoteAddressIP4 as SRC\_EXT\_IP |table EXT\_DEST\_IP EXT\_DEST\_PORT DEST\_NAT\_IP DEST\_NAT\_PORT SRC\_EXT\_IP ComputerName"

RDP inbound Splunk information

"ComputerName=COMPUTERNAMEHERE event\_simpleName=AssociateIndicator |dedup TargetProcessId\_decimal |map search=""search event\_simpleName=""ProcessRollup2"" TargetProcessId\_decimal=\$TargetProcessId\_decimal\$ aid=\$aid\$"" |join aid |search ComputerName=dc2pwnpvn001 event\_simpleName=AssociateIndicator |dedup TargetProcessId\_decimal |table ComputerName DetectScenario DetectName tactic technique DetectDescription CommandLine |dedup ComputerName DetectScenario DetectName tactic technique DetectDescription CommandLine"

Tactic Technique and CommandLine based on Computer Name

"(ComputerName=COMPUTERNAMEHERE sourcetype=UserIdentityV2-v02 OR sourcetype=UserLogonV8-v02 UserPrincipal!=""spammyemail@company.com"" UserPrincipal=\*. @\*.com UserPrincipal!="\$. \$.com UserName!=svcSCCM.ClientPush UserName!=SYSTEM earliest=-7d@d ) |lookup aid\_master aid OUTPUT City Country ComputerName MachineDomain |rex field=UserPrincipal ""^(?<First>w+).( ?<Last>w+)(@. \*)"" |eval ""Full Name""= First."" "" .Last |eval ""Country City"" = Country."" "" .City |join ComputerName |search source=PlatformEvents DetectDescription="" "" |table ComputerName DetectDescription |table DetectDescription ComputerName LocalAddressIP4 MachineDomain UserName ""Full Name"" UserPrincipal ""Country City"" |fillnull value=NULL |dedup UserPrincipal DetectDescription ComputerName"

Information about Aid and/or UserName>userinfo for ticket

"|savedsearch windows\_patch\_status cid="" "" kb\_pattern=""(KB4499178)|(KB4499175)|(KB4499164)|(KB4503277)|(KB4503292)|(KB4507449)|(KB4507437)|(KB4512506)|(KB4512514)|(KB4516065)|(KB4516048)|(KB4524157)|(KB4519976)|(KB4525251)|(KB4525235);"" |rename PatchStatus as BlueKeepStatus |lookup aid\_master.csv aid OUTPUT ComputerName, Version, Time, SiteName, MachineDomain |search Version=""Windows Server 2008 R2"" OR Version=""Windows 7"" |search Version="" "" BlueKeepStatus=""Vulnerable (Patched; Reboot Required)"" OR BlueKeepStatus=""Vulnerable (Not patched)"" |lookup managedassets.csv aid OUTPUT MAC, LocalAddressIP4 |lookup cid\_name.csv cid OUTPUT name as ""Company"" |table ComputerName, Version, BlueKeepStatus, LastPatchTime, Time, MAC, LocalAddressIP4, SiteName, MachineDomain, Company |formatDate(LastPatchTime) |formatDate(Time) |rename ComputerName as ""Host Name"" , Version as ""OS Version"" , BlueKeepStatus as ""Vulnerable Status"" , LastPatchTime as ""Last Update Installed Time"" , Time as ""Last Sensor Report Time"" , SiteName as ""Site Name"" , MachineDomain as ""Domain"" , Company as ""Company Name""

Information windows\_patch\_status (BlueKeepStatus)

"event\_platform=Mac event\_simpleName=ProcessRollup2 aid=<aid> (networksetup OR who OR whoami OR sysctl) |eval JoinId=ParentProcessId\_decimal |rename CommandLine as ChildCommandLine |join type=outer aid,JoinId |search event\_platform=Mac aid=<aid> event\_simpleName=ProcessRollup2 |eval JoinId=TargetProcessId\_decimal |rename CommandLine as ParentCommandLine |search NOT ChildCommandLine=<redacted> |search NOT ParentCommandLine=<redacted> |stats values(ChildCommandLine) as Commands, count by aid |search count>1"

MAC: Unusual number of recon commands for the environment for 1 host

"event\_platform=Mac event\_simpleName=ProcessRollup2 (CommandLine=""/tmp/"" OR CommandLine=""/private/tmp/"" ) NOT <redacted> NOT <redacted> NOT <redacted>"

MAC: Processes running from tmp dirs

"event\_platform=Mac aid=<aid> event\_simpleName=ProcessRollup2 (sh OR launchctl) |transaction aid,ProcessGroupId\_decimal |search sh launchctl"

MAC: Process tree that contains both sh and launchctl

"event\_platform=Mac event\_simpleName=\*ProcessRollup2 CommandLine=\*LaunchAgents\* |dedup aid,CommandLine |makemv CommandLine delim="" "" |eval CommandLine=mvfilter(match(CommandLine, ""\*.LaunchAgents.\*"")) |eval CommandLine=replace(CommandLine, ""/Users/[a-z]+/"" , ""/"" ) |eval CommandLine=replace(CommandLine, "" ""\$"" , "" "" ) |dedup aid,CommandLine |stats count by CommandLine |sort count"

MAC: Rare launch agents: list and count launch agents

"event\_simpleName=\*ProcessRollup2 event\_platform=Mac chown NOT <redacted> |regex CommandLine=""/Users/[a-z]+/\..""

MAC: Chown commands run on hidden user dirs

"event\_platform=Mac event\_simpleName=ProcessRollup2 CommandLine=""\*xattr -d -r com.apple.quarantine"" NOT <redacted> NOT <redacted>"

MAC: Removing the quarantine attribute

MAC: Was a process orphaned?

"aid=<aid> <process\_id> event\_simpleName=ProcessRollup2 |eval JoinId=ParentProcessId\_decimal |rename CommandLine as ChildCommandLine |join type=outer JoinId |search aid=<aid> event\_simpleName=ProcessRollup2 |eval JoinId=TargetProcessId\_decimal |rename CommandLine as ParentCommandLine |eval ParentCommandLine=coalesce(ParentCommandLine, ""IamAnOrphan"" )"

MAC: Rare processes associated with security\_authtrampoline Why isn't the first query enough?

"event\_platform=Mac event\_simpleName=""ProcessRollup2 [search event\_platform=Mac event\_simpleName=""ProcessRollup2 security\_authtrampoline |fields ProcessGroupId\_decimal] |dedup aid, SHA256HashData |eval CommandLine=substr(CommandLine,1,100) |stats values(CommandLine) as Commands, dc(aid) as AuthtrampolineCount by SHA256HashData |search AuthtrampolineCount=1 |join type=outer SHA256HashData [search event\_platform=Mac event\_simpleName=""ProcessRollup2 |rare SHA256HashData limit=10000 by aid |stats dc(aid) as RareGPopCount by SHA256HashData] |join type=outer SHA256HashData [search event\_platform=Mac event\_simpleName=""ProcessRollup2 |top SHA256HashData limit=10000 by aid |stats dc(aid) as CommonGPopCount by SHA256HashData] |fillnull value=0 CommonGPopCount |fillnull value=0 RareGPopCount |search CommonGPopCount<2 RareGPopCount<2 |eval Auth\_Common\_Rare=AuthtrampolineCount."" "" .CommonGPopCount."" "" .RareGPopCount |fields SHA256HashData, Commands, Auth\_Common\_Rare |search NOT <redacted> NOT <redacted>"

MAC: Investigating a Word macro

"aid=<aid> event\_simpleName=""ProcessRollup2"" NOT CommandLine=""/Applications/\*Microsoft Word"" [search aid=<aid> CommandLine=""/Applications/\*Microsoft Word"" event\_simpleName=""ProcessRollup2"" |rename TargetProcessId\_decimal as ProcessGroupId\_decimal |return 10000 ProcessGroupId\_decimal]"

MAC: Processes running from /Library/Scripts

event\_platform=Mac CommandLine="/Library/Scripts/"

MAC: Rare processes associated with security\_authtrampoline

"event\_platform=Mac event\_simpleName=""ProcessRollup2 [search event\_platform=Mac event\_simpleName=""ProcessRollup2 security\_authtrampoline |fields ProcessGroupId\_decimal] |dedup aid, SHA256HashData |eval CommandLine=substr(CommandLine,1,100) |stats values(CommandLine) as Commands, dc(aid) as AuthtrampolineCount by SHA256HashData |eventstats sum(AuthtrampolineCount) as AuthtrampolineTotal |eval AuthTrampolinePerc=round((AuthtrampolineCount/AuthtrampolineTotal)\*100,7) |join type=outer SHA256HashData [search event\_platform=Mac event\_simpleName=""ProcessRollup2 |rare SHA256HashData limit=10000 by aid |stats dc(aid) as RareGPopCount by SHA256HashData |eventstats sum(RareGPopCount) as RareGPopTotal |eval RareGPopPerc=round((RareGPopCount/RareGPopTotal)\*100,7) ] |join type=outer SHA256HashData [search event\_platform=Mac event\_simpleName=""ProcessRollup2 |top SHA256HashData limit=10000 by aid |stats dc(aid) as CommonGPopCount by SHA256HashData |eventstats sum(CommonGPopCount) as CommonGPopTotal |eval CommonGPopPerc=round((CommonGPopCount/CommonGPopTotal)\*100,7)] |fillnull value=0 CommonGPopCount |fillnull value=0 RareGPopCount"

MAC: Copies from tmp dirs to Users

"event\_platform=Mac event\_simpleName=ProcessRollup2 FileName=cp CommandLine=""\*tmp\*Users\*""

MAC: Very busy process trees

"event\_platform=Mac event\_simpleName=ProcessRollup2 |stats count by ProcessGroupId\_decimal,aid |search count>50 |map search=""search aid=\$aid\$ ProcessGroupId\_decimal=\$ProcessGroupId\_decimal\$ TargetProcessId\_decimal=\$ProcessGroupId\_decimal\$"" |search NOT CommandLine=<redacted> NOT CommandLine=<redacted>"

MAC: Detecting Word Macros

"event\_platform=Mac event\_simpleName=""ProcessRollup2"" [search event\_simpleName=""ProcessRollup2 event\_platform=Mac CommandLine=""/Applications/\*Microsoft Word"" |fields ProcessGroupId\_decimal ] |stats values(CommandLine) as Commands, count by aid,ProcessGroupId\_decimal |search Commands=""/Applications/\*Microsoft Word\*""

MAC: Long running processes with few network connections (i.e. stealthy C2)

"event\_platform=Mac event\_simpleName=ProcessRollup2 aid=<aid> |join type=outer TargetProcessId\_decimal [search event\_platform=Mac aid=<aid> event\_simpleName=EndOfProcess |rename \_time as EndTime |fields aid,TargetProcessId\_decimal, EndTime] |eval duration=if(isnull(EndTime),now()-\_time,EndTime-\_time) |join type=outer aid,ProcessGroupId\_decimal [search event\_platform=Mac event\_simpleName=NetworkConnect\* aid=<aid> |stats count as NetworkConnectionCount by aid, ContextProcessId\_decimal |rename ContextProcessId\_decimal as ProcessGroupId\_decimal] |search duration>86399 NetworkConnectionCount<5"

MAC: Rare self-deleting processes

"event\_platform=Mac event\_simpleName=ProcessSelfDeleted |map search=""search event\_simpleName=""ProcessRollup2 aid=\$aid\$ TargetProcessId\_decimal=\$ContextProcessId\_decimal\$"" |dedup aid,SHA256HashData |eval CommandLine=substr(CommandLine,1,50) |stats values(CommandLine) as Commands, dc(aid) as UniqueAgentCount by SHA256HashData |join type=outer SHA256HashData [search event\_platform=Mac event\_simpleName=""ProcessRollup2 |top SHA256HashData limit=10000 by aid |stats dc(aid) as CommonGPopCount by SHA256HashData] |join type=outer SHA256HashData [search event\_platform=Mac event\_simpleName=""ProcessRollup2 |rare SHA256HashData limit=10000 by aid |stats dc(aid) as RareGPopCount by SHA256HashData] |fillnull value=0 CommonGPopCount |fillnull value=0 RareGPopCount |search UniqueAgentCount=1 CommonGPopCount<2 RareGPopCount<2"





```
"event_platform=Mac event_simpleName=ProcessRollup2 (CommandLine=sh* OR CommandLine=/bin/sh* OR CommandLine=/bin/bash) |stats values(CommandLine) as Commands,count by aid,ProcessGroupId_decimal |regex CommandLine=""(forticlient|daily|gstml|pid,pcpu,rss,comm|cups|audit_warn)"" |search count>20"
```

MAC: Process trees with lots of shells

```
"event_platform=Mac event_simpleName=*ProcessRollup2 [search event_platform=Mac event_simpleName=*ProcessRollup2 security_authtrampoline |fields ProcessGroupId_decimal] |dedup aid, SHA256HashData |eval CommandLine=substr(CommandLine,1,100) |stats values(CommandLine) as Commands, dc(aid) as AuthtrampolineCount by SHA256HashData |search AuthtrampolineCount=1 |join type=outer SHA256HashData [search event_platform=Mac event_simpleName=*ProcessRollup2 |rare SHA256HashData limit=10000 by aid |stats dc(aid) as CommonGPopCount by SHA256HashData] |fillnull value=0 CommonGPopCount |fillnull value=0 RareGPopCount |search CommonGPopCount<2 RareGPopCount<2 |eval Auth_Common_Rare=AuthtrampolineCount."", "", ".CommonGPopCount.", "", ".RareGPopCount |fields SHA256HashData, Commands, Auth_Common_Rare |search NOT <redacted> NOT <redacted>"
```

MAC: Rare processes associated with security\_authtrampoline events query

```
"event_platform=Mac aid=<aid> event_simpleName=ProcessRollup2 NOT CommandLine=""/System/*"" NOT CommandLine=""/Library/*"" NOT CommandLine=""/usr/libexec/*"" NOT CommandLine=xpcproxy* NOT CommandLine=""/Applications/Utilities/*"" NOT CommandLine=""make"" NOT CommandLine=ipconfig* NOT CommandLine=""/Applications/*"" NOT ""/Users/*/Library/Application Support/*"" NOT CommandLine=<bunch_of_internal_stuff> // LONG RUNNING SYSTEM PROCESSES NEED TO BE FILTERED OUT// |eval JoinId=ParentProcessId_decimal |rename CommandLine as ChildCommandLine |join type=outer aid,TargetProcessId_decimal [search event_platform=Mac aid=<aid> event_simpleName=EndOfProcess |rename _time as EndTime |fields aid,TargetProcessId_decimal, EndTime] //USE EndOfProcess RECORDS TO CALCULATE END TIME IF IT EXISTS// |eval duration=if(isnull(EndTime),now())-_time,EndTime-_time) |join type=outer JoinId,aid [search event_platform=Mac aid=<aid> event_simpleName=ProcessRollup2 |eval JoinId=TargetProcessId_decimal |rename CommandLine as ParentCommandLine |fields JoinId, ParentCommandLine] // FIND PARENT PROCESS RECORD IF IT EXISTS // |eval ParentCommandLine=coalesce(ParentCommandLine,""IamAnOrphan"") |search ParentCommandLine=""IamAnOrphan"" |eval ChildCommandLine=substr(ChildCommandLine,1,50) |stats values(ChildCommandLine) as Commands, max(duration) as duration, dc(aid) as AgentsWithHash by SHA256HashData |search AgentsWithHash=1 |join type=outer SHA256HashData |search event_platform=Mac event_simpleName=VT |stats sum(detectionCount) as VTCount by sha256 |rename sha256 as SHA256HashData] //FIND ANY VIRUSTOTAL HITS - NOT USED FOR FILTERING YET // |join type=outer SHA256HashData [search event_platform=Mac event_simpleName=ProcessRollup2 |top SHA256HashData limit=10000 by aid |stats dc(aid) as CommonGPopCount by SHA256HashData] //FIND 10,000 MOST COMMON PROCESSES OVER ALL MACHINES// |join type=outer SHA256HashData [search event_platform=Mac event_simpleName=ProcessRollup2 |rare SHA256HashData limit=10000 by aid |stats dc(aid) as RareGPopCount by SHA256HashData] //FIND 10,000 LEAST COMMON PROCESSES OVER ALL MACHINES// |fillnull value=0 CommonGPopCount |fillnull value=0 RareGPopCount |fillnull value=0 VTCount |search CommonGPopCount <2 RareGPopCount <2 // FILTER OUT ANY HASHES THAT EXIST ON MORE THAN ONE MACHINE //
```

MAC: Find orphaned processes for 1 host v1

```
"event_simpleName=""ProcessRollup2"" CommandLine=""*powershell*"" | regex CommandLine=""(?!)\b_SPAMMYSTTRING2-*\b_SPAMMYSTTRINGHERE.*"" | regex CommandLine=""([A-Z][a-z][0-9]{200})"" |fields CommandLine ComputerName"
```

Find out Enc powershell advanced

```
"event_simpleName=""DnsRequest"" DomainName=""vinnerpostwnet.ru"" OR DomainName=""vandmeds.ru"" |dedup ContextProcessId_decimal DomainName |rename ContextProcessId_decimal as TargetProcessId_decimal |map maxsearches=99999 search=""search event_simpleName=""ProcessRollup2"" TargetProcessId_decimal=$TargetProcessId_decimal$"" |rex field=CommandLine ""(?<CommandLine>[^\|]+)$"" |stats count by ComputerName UserName ImageFileName CommandLine"
```

DST\_DNS>Process

```
"FileName=""<file>.exe"" | head 10| eval eTimeBefore=_time-1800| eval eTimeAfter=_time+600|eval CommandLine=""""|eval SHA256HashData=""""|eval CommandLine_Short=""""|eval TargetFileName=""""|eval RegObjectName=""""|eval RegValueName=""""|eval ExecutablesWritten{}.FilePath=""""|eval GrandparentCommandLine=""""|eval ParentCommandLine=""""|eval DetectDescription=""""| fillnull value=""""| map search=""search ComputerName=$ComputerName$ _time>=$eTimeBefore$ _time<=$eTimeAfter$""| rex field=CommandLine ""(?<CommandLine_Short>[^\|]+)$""| rex field=CommandLine_Short ""(?P<CommandLine_Short>\w{75}).""| fillnull value=""""|regex DomainName!=""(?!)\b_adobe.com|google.com|newellco.com|outlook.com|microsoft.com|live.com|skype.com|footprintdns.com|microsoftonline.com|office365.com|office.net|digicert.com|office.com|windows.com|lync.com|apple.com|windows.net|icloud.net|goody.com|facebook.com|jahglobal.net|0\.\0\.\0|rackcdn.com|yammer.com|newellrubbermaid.com"" |regex CommandLine!=""(?!)\b_CCM|PSScriptPolicyTest|teams|Search.*Robot|SearchFilterHost""| table CommandLine SHA256HashData _time CommandLine_Short TargetFileName RegObjectName RegValueName ExecutablesWritten{}.FilePath GrandparentCommandLine ParentCommandLine DetectDescription DomainName| fillnull value=""""
```

Take the first 10 hits on a search and look for interesting fields after and before

Search for process treeview by ContextProcessId\_decimal

[https://falcon.crowdstrike.com/investigate/process-explorer/aid/ContextProcessId\\_decimal](https://falcon.crowdstrike.com/investigate/process-explorer/aid/ContextProcessId_decimal)

Quickly Find out events with commandline and network info based on ComputerName input

```
"ComputerName=COMPUTERNAMEHERE event_simpleName=AssociateIndicator OR source=PlatformEvents |dedup TargetProcessId_decimal ComputerName |join TargetProcessId_decimal |search event_simpleName=""ProcessRollup2"" ComputerName=COMPUTERNAMEHERE | dedup TargetProcessId_decimal | fields TargetProcessId_decimal ComputerName timestamp ImageFileName CommandLine Treeld_decimal ] | rename TargetProcessId_decimal AS ContextProcessId_decimal |join type=outer ContextProcessId_decimal |search ComputerName=NATL1-8K8L7H2 event_simpleName=DnsRequest | regex DomainName!=""(?!)\b_adobe.com|google.com|newellco.com|outlook.com|microsoft.com|live.com|skype.com|footprintdns.com|microsoftonline.com|office365.com|office.net|digicert.com|office.com|windows.com|lync.com|apple.com|windows.net|icloud.net|goody.com|facebook.com|jahglobal.net|0\.\0\.\0|rackcdn.com|yammer.com|office.com|microsoftedge.net|identrust.com|letsencrypt.org|microsoft.com|bing.com|microsoft.com|cloudsink.net|sharepoint.com|localhost$"" | fields DomainName ContextProcessId_decimal IP4Records | stats values(DomainName) values(IP4Records) BY ContextProcessId_decimal |join type=outer ContextProcessId_decimal |search ComputerName=NATL1-8K8L7H2 event_simpleName=NetworkConnect* | fields RemoteAddressIP4 RemotePort RemotePort_decimal ContextProcessId_decimal ] | eval ""(UTC)""=strftime(_time, ""%m/%d/%y %l:%M%p"") |rex field=CommandLine ""(?<CommandLine_Short>[^\|]+)$"" |rex field=CommandLine_Short ""(?P<CommandLine_Short>\w{75})."" | rename ""values(DomainName)"" AS DNS_RESULTS | rename ""values(IP4Records)"" AS DNS_RESULTS_IP | table ""(UTC)"" DetectScenario DetectName tactic technique DetectDescription CommandLine_Short DNS_RESULTS DNS_RESULTS_IP RemotePort_decimal"
```

Quickly Find out events with commandline and sparkline and network info based on ComputerName input and DNS index

```
"ComputerName=""COMPUTERNAMEHERE"" event_simpleName=""DnsRequest"" DomainName=""*.*.*"" | regex DomainName!=""(?!)\b_adobe.com|cloudsink.net|.localmachine|listofdomainsyouwanttofilteretc"" |rename ContextProcessId_decimal as TargetProcessId_decimal |join TargetProcessId_decimal |search ComputerName=""COMPUTERNAMEHERE"" event_simpleName=""ProcessRollup2"" | regex CommandLine!=""(?!)\b_explore.exe|chrome.exe|MicrosoftEdgeCP.exe|firefox.exe|google|smartscreen.exe|OneDrive.exe|SearchUI.exe|mimicast.com|MicrosoftEdge.exe"" |rex field=CommandLine ""(?<CommandLine>[^\|]+)$"" | eval ""Last Seen (UTC)""=strftime(_time, ""%m/%d/%y %l:%M%p"") |stats sparkline count values(CommandLine) values(DomainName) dc(""Last Seen (UTC)"" by ""Last Seen (UTC)"" FileName SHA256HashData"
```

Find out more of a timeline for all fields based on computername

```
"ComputerName=""COMPUTERNAMEHERE"" | rex field=CommandLine ""(?<CommandLine_Short>[^\|]+)$"" | rex field=CommandLine_Short ""(?P<CommandLine_Short>\w{75})."" | fillnull value="""" | eval ""Last Seen (UTC)""=strftime(_time, ""%m/%d/%y %l:%M%p"") |regex DomainName!=""(?!)\b_adobe.com|.in-addr.arpa"" |regex CommandLine!=""(?!)\b_CCM|SearchFilterHost"" | table ""Last Seen (UTC)"" FileName CommandLine SHA256HashData CommandLine_Short TargetFileName RegObjectName RegValueName ExecutablesWritten{}.FilePath GrandparentCommandLine ParentCommandLine DetectDescription DomainName | stats count values(FileName) values(CommandLine) values(CommandLine_Short) values(TargetFileName) values(RegObjectName) values(RegValueName) values(ExecutablesWritten{}.FilePath) values(GrandparentCommandLine) values(ParentCommandLine) values(DetectDescription) values(DomainName) by ""Last Seen (UTC)"" SHA256HashData | sort -""Last Seen (UTC)""
```

Treeld\_decimal tree id process tree sort

```
"aid=XXXXXXXXXXXXXXXXXXXXXXXXXXXX Treeld_decimal=30064919953 | regex DomainName!=""(?!)\b_adobe.com|google.com|outlook.com|microsoft.com|live.com|skype.com|footprintdns.com|microsoftonline.com|office365.com|office.net|digicert.com|office.com|windows.com|lync.com|apple.com|windows.net|icloud.net|goody.com"" | fillnull value=""NULL"" | rename ContextProcessId_decimal as TargetProcessId_decimal | join TargetProcessId_decimal |search aid=XXXXXXXXXXXXXXXXXXXXXXXXXXXX event_simpleName=""ProcessRollup2"" earliest=-1@d | rex field=CommandLine ""(?<CommandLine>[^\|]+)$"" | stats values(FileName) values(CommandLine) values(DomainName) count by SHA256HashData"
```

Extract usernames from windows and \*nix FilePath and CommandLine with given aid or ComputerName

```
"event_simpleName=""ProcessRollup2"" ComputerName=COMPUTERNAME FilePath=""*Users*"" OR CommandLine=""*Users*"" | rex field=FilePath mode=sed ""s/.*\bUsers\b.(w+)(\b.*)/1/g"" | rex field=CommandLine mode=sed ""s/.*\bUsers\b.(w+)(\b.*)/1/g"" | regex CommandLine!=""(?!)\b."" | regex FilePath!=""(?!)\b."" | rename FilePath AS CommandLine | rename CommandLine AS UserName | dedup UserName | table UserName"
```

Count how many local admin users logins

```
"event_simpleName=UserLogon UserSid_readable=S-1-5-21-* UserIsAdmin_decimal=1 earliest=-1d@d | where ComputerName=LogonDomain | convert ctime(LogonTime_decimal) AS logonTime ctime>PasswordLastSet_decimal AS lastPwdReset | stats sparkline count values(ComputerName) by UserName | sort -count | where count>5"
```

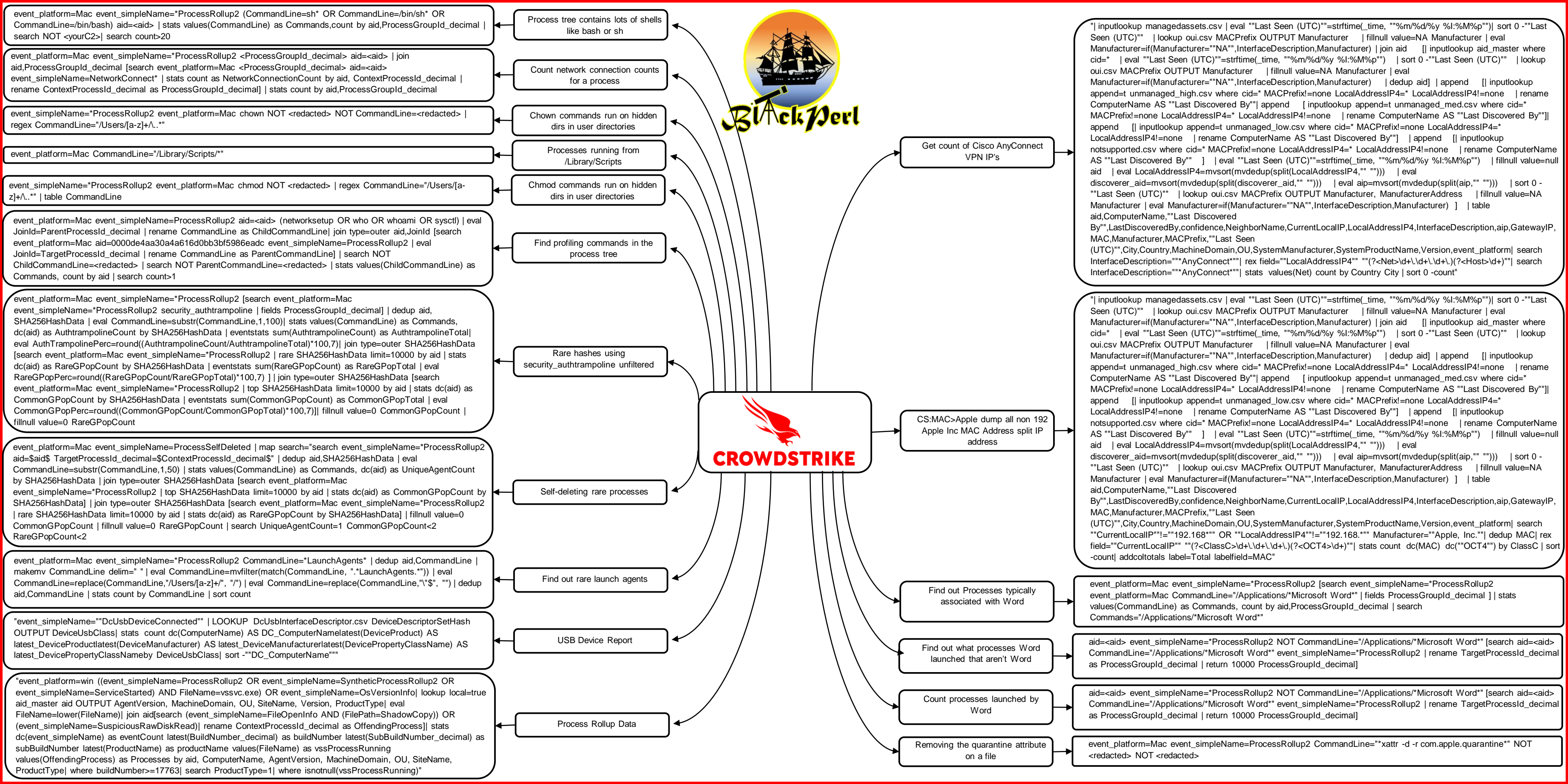
Find Chrome Remote Desktop Hits Via DNS

```
"event_simpleName=DnsRequest DomainName=""remotedesktop.google.com"" OR DomainName=""remotedesktop-pa.googleapis.com"" | join type=left ComputerName |search event_simpleName IN ("UserLogon") UserPrincipal=".*@*.com UserPrincipal!=".$$.com earliest=-1d@d| stats sparkline count by ComputerName UserPrincipal| sort -count"
```

Determine if a process is orphaned

```
aid=<aid> <process_id> event_simpleName=ProcessRollup2 | eval JoinId=ParentProcessId_decimal | rename CommandLine as ChildCommandLine | join type=outer JoinId |search aid=<aid> event_simpleName=ProcessRollup2 | eval JoinId=TargetProcessId_decimal | rename CommandLine as ParentCommandLine | eval ParentCommandLine=coalesce(ParentCommandLine,"IamAnOrphan")
```









```
event_platform=Mac event_simpleName=ProcessRollup2 (CommandLine="/tmp/*" OR CommandLine="/private/tmp/*")
NOT <redacted> NOT <redacted> NOT <redacted>
```

Find out Processes running from  
tmp dirs

Process tree contains both sh and launchctl

```
event_platform=Mac aid=<aid> event_simpleName=*ProcessRollup2 (sh OR launchctl) | transaction
aid,ProcessGroupId_decimal | search sh launchctl NOT <redacted>
```



Get information about all Asset

City,State of possible Wireless Hot Spot usage (WIP old need more wireless network ranges)

```
"| inputlookup managedassets.csv | eval ""Last Seen (UTC)""=strftime(_time, ""%m/%d/%y %l:%M%p"") | sort 0 -""Last Seen (UTC)"" | lookup oui.csv MACPrefix OUTPUT Manufacturer | fillnull value=NA Manufacturer | eval Manufacturer=if(Manufacturer=""NA"",InterfaceDescription,Manufacturer) | join aid [| inputlookup aid_master where cid=* | eval ""Last Seen (UTC)""=strftime(_time, ""%m/%d/%y %l:%M%p"") | sort 0 -""Last Seen (UTC)"" | lookup oui.csv MACPrefix OUTPUT Manufacturer | fillnull value=NA Manufacturer | eval Manufacturer=if(Manufacturer=""NA"",InterfaceDescription,Manufacturer) | dedup aid] | append [| inputlookup append=t unmanaged_high.csv where cid=* MACPrefix!=none LocalAddressIP4=* LocalAddressIP4!=none | rename ComputerName AS ""Last Discovered By"" | append [| inputlookup append=t unmanaged_med.csv where cid=* MACPrefix!=none LocalAddressIP4=* LocalAddressIP4!=none | rename ComputerName AS ""Last Discovered By"" | append [| inputlookup append=t unmanaged_low.csv where cid=* MACPrefix!=none LocalAddressIP4=* LocalAddressIP4!=none | rename ComputerName AS ""Last Discovered By"" | append [| inputlookup notsupported.csv where cid=* MACPrefix!=none LocalAddressIP4=* LocalAddressIP4!=none | rename ComputerName AS ""Last Discovered By"" ] | eval ""Last Seen (UTC)""=strftime(_time, ""%m/%d/%y %l:%M%p"") | fillnull value=null aid | eval LocalAddressIP4=mvsort(mvdedup(split(LocalAddressIP4,"" ""))) | eval discoverer_aid=mvsort(mvdedup(split(discoverer_aid,"" ""))) | eval aip=mvsort(mvdedup(split(aip,"" ""))) | sort 0 -""Last Seen (UTC)"" | lookup oui.csv MACPrefix OUTPUT Manufacturer, ManufacturerAddress | fillnull value=NA Manufacturer | eval Manufacturer=if(Manufacturer=""NA"",InterfaceDescription,Manufacturer) ] | search aip=166.128.0.0/9 OR aip=174.192.0.0/10 OR aip=97.128.0.0/9 OR aip=70.192.0.0/11 OR aip=69.96.0.0/13 OR aip=69.82.0.0/15 OR aip=66.174.0.0/16 OR aip=72.96.0.0/11 OR aip=75.192.0.0/10 OR aip=97.0.0.0/10 OR aip=107.64.0.0/10 OR aip=160.170.220.0/22 OR aip=166.128.0.0/13 OR aip=166.136.0.0/15 OR aip=166.138.0.0/16 OR aip=166.147.104.0/25 OR aip=166.170.0.0/19 OR aip=166.170.32.0/20 OR aip=166.170.48.0/21 OR aip=166.170.56.0/22 OR aip=166.171.56.0/22 OR aip=166.171.120.0/22 OR aip=166.171.184.0/22 OR aip=166.171.248.0/22 OR aip=166.172.56.0/22 OR aip=166.172.60.0/22 OR aip=166.172.120.0/22 OR aip=166.172.184.0/22 OR aip=166.172.188.0/22 OR aip=166.173.56.0/22 OR aip=166.173.60.0/22 OR aip=166.173.184.0/22 OR aip=166.173.248.0/22 OR aip=166.175.56.0/22 OR aip=166.175.60.0/22 OR aip=166.175.184.0/22 OR aip=166.175.188.0/22 OR aip=166.176.56.0/22 OR aip=166.176.120.0/22 OR aip=166.176.184.0/22 OR aip=166.176.248.0/22 OR aip=166.177.56.0/22 OR aip=166.177.120.0/22 OR aip=166.177.184.0/22 OR aip=166.177.248.0/22 OR aip=166.216.133.103/32 OR aip=166.216.133.208/28 OR aip=166.216.133.231/32 OR aip=166.216.133.231/32 OR aip=166.216.133.64/28 OR aip=166.216.157.0/24 OR aip=166.216.158.0/24 OR aip=166.216.159.0/24 OR aip=166.216.165.0/24 OR aip=162.160.0.0/11 OR aip=172.32.0.0/11 OR aip=208.54.0.0/17 OR aip=208.54.128.0/19 OR aip=100.128.0.0/9 OR aip=50.28.192.0/18 OR aip=173.96.0.0/11 OR aip=174.155.64.0/18 OR aip=24.221.0.0/16 OR aip=66.87.0.0/16 OR aip=99.200.0.0/13 OR aip=70.12.0.0/15 OR aip=70.8.0.0/14 OR aip=70.14.0.0/16 OR aip=70.0.0.0/13 OR aip=107.32.0.0/11 OR aip=107.24.0.0/13 OR aip=108.102.0.0/16 OR aip=108.96.0.0/11 OR aip=184.204.0.0/16 OR aip=68.24.0.0/13 OR aip=68.240.0.0/13 OR aip=66.1.0.0/22 OR aip=72.56.0.0/13 OR aip=100.48.0.0/12 | table aid,ComputerName,""Last Discovered By"",LastDiscoveredBy,confidence,NeighborName,CurrentLocalIP,LocalAddressIP4,InterfaceDescription,aip,GatewayIP,MAC,Manufacturer,MACPrefix,""Last Seen (UTC)"",City,Country,MachineDomain,OU,SystemManufacturer,SystemProductName,Version,event_platform | stats count values(aip) by City Country | sort -count"
```



splunk>

Find bad searches slow searches  
optimize searches

```
|addcoltotals label=Total labelfield=MAC
```

Expand IP addresses and count  
class C addresses

```
"| rex field="DNS Client" ""(?:<o1>(\d)+).(?:<o2>(\d)+).(?:<o3>(\d)+).(?:<o4>(\d)+)" |stats count values(o3) by o2 |sort -count"
```

MISC: earliest=1580801331 or  
earliest=-7d@d and eval  
info\_sec=60\*60\*1 the (1) is hours  
to search to search after earliest

```
"[ search earliest=1580801331 |addinfo |head 1 |eval earliest=info_min_time |eval info_sec=60*60*1 |eval latest=info_min_time+info_sec |fields earliest,latest |format """""" "" "" "" "" "" "" "" ""OR"" "" "" ]"
```

Searching in Bash

```
"export key=`curl -ks https://YOUR_SPLUN_SERVER:8089/services/auth/login -d username=YOUR_USERNAME -d password=YOUR_PASSWORD | grep sessionKey | sed -r 's/<sessionKey>(.*)</sessionKey>/\1/g'|sed 's/ //g'` curl -m 999 -s -k -H ""Authorization: Splunk $key"" ""https://YOUR_SPLUN_SERVER:8089/servicesNS/admin/search/search/jobs/export?output_mode=csv"" --data-urlencode search='search index=*' |head 100 |stats count earliest(_time) as earliest by username sourcetype |eval earliest=strftime(earliest,"%m/%d/%y %H:%M:%S") |eval username=lower(username) |stats count by username sourcetype earliest |dedup username `"
```

Create data for Splunk search  
testing

```
"| makeresults count=100 |eval poll=if((random()%5) == 1, ""String1"", ""String2"") |eval number=random() % 1000 + 9999 |makeresults |eval number=1574658133587347700 |eval date=strftime(round(number/1000000000,2), "%F %T")"
```

Hunting Urls

<https://github.com/mvelazc0/Oriana/wiki/Hunting-Analytics>

search -N days + 24hrs so -3d  
would be 24hrs after 3 days ago...  
good for checking day by day -1 -2  
-3 -4 -5 -6 -7 is a week etc..

```
"[ search earliest=-1d@d |addinfo |head 1 |eval earliest=info_min_time |eval latest=info_min_time+86400 |fields earliest,latest |format """""" "" "" "" "" "" "" "" ""OR"" "" "" ]"
```

Dump what you have access to ( indexes and lookup tables and the size of the index tables )

```
"|eventcount summarize=false index=* report_size=true |eval MB=(size_bytes/1024)/1024 |stats sum(MB) by index |sort -sum(MB) |append [ rest/servicesNS/-/-/data/lookup-table-files |table title eai:appName] |append [ tstats values(sourcetype) where index=* by index ]"
```

Filter out fields regex good for !=  
string1|string2

```
| regex FileName!="(?i)chrome.exe|iexplore.exe|MicrosoftEdgeCP.exe|firefox.exe"
```

Search all CSV's inputlookup  
lookup

```
"|rest/servicesNS/-/-/data/lookup-table-files |table title eai:appName| map maxsearches=9999 search=""inputlookup $title$ |eval title=$title$ |eval raw="" "" |foreach * [eval raw=raw.\"\", \"\".coalesce('<<FIELD>>', \"\" \"\")]] |search raw=*10.206.1.168* ""|dedup title raw|table title raw"
```