



Sign in

vadim-hunter / Detection-Ideas-Rules

Public

Notifications

Fork 28

Star 178

Code

Issues

Pull requests

Actions

Projects

Security

Insights

Detection-Ideas-Rules / Threat Intelligence / The DFIR Report  
/ 20210329\_Sodinokibi\_(aka\_REvil)\_Ransomware.yaml

...



652 lines (650 loc) · 42.5 KB

Code

Blame

Raw



```
1  source_type: "Threat Intelligence Report"
2  report:
3    title: "Sodinokibi (aka REvil) Ransomware"
4    vendor: "The DFIR Report"
5    published: "29.03.2021"
6    link:
7      - https://thedfirreport.com/2021/03/29/sodinokibi-aka-revil-ransomware/
8    analyzed_by: Vadim Khrykov (@BlackMatter23)
9    threat:
10     name:
11       - REvil
12     aliases:
13       - Sodinokibi
14       - GOLD SOUTHFIELD
15       - G0115
16     attribution:
17       - Worldwide
18     tools:
19       - IceID (Bokbot)
20       - Cobalt Strike
21       - Bloodhound
22    analysis:
23     quote: >
24     - "Initial execution of the document writes a file to... The Excel file called wmic to execute
```

```
25     mitre_attack:
26     execution:
27         - T1204.002 - User Execution - Malicious File
28         - T1047 - Windows Management Instrumentation
29     defense_evasion:
30         - T1218.010 - Signed Binary Proxy Execution - Regsvr32
31     detection:
32         ideas: >
33             - monitor Office applications spawning WMI command-line (WMIC.exe) utility.
34             Note: add more office applications to the rules logic of your choice.
35         telemetry:
36             process_create:
37                 - Windows EID 4688
38                 - Sysmon EID 1
39                 - EDR (PsSetCreateProcessNotifyRoutine/Ex)
40         rules: >
41             - Channel:Windows-Security AND EventID:4688 AND (NewProcessName:"\\wbem\\WMIC.exe" OR ProcessName:"\\wbem\\WMIC.exe"
42               AND CreatorProcessName:"\\winword.exe" OR "\\excel.exe" OR "\\powerpnt.exe")
43             - Channel:Sysmon AND EventID:1 AND (Image:"\\wbem\\WMIC.exe" OR CommandLine:"*wmic *" OR ProcessName:"\\wbem\\WMIC.exe"
44               AND ParentImage:"\\winword.exe" OR "\\excel.exe" OR "\\powerpnt.exe")
45         ideas: >
46             - monitor WMI "Win32_Process::Create" command execution by Office applications processes.
47             Note: add more office applications to the rule logic of your choice.
48         telemetry:
49             wmi_execution:
50                 - EDR (Microsoft-Windows-WMI-Activity ETW)
51         rules: >
52             - Channel:EDR AND EventType:WMIExecution AND Image:"\\winword.exe" OR "\\excel.exe" OR "\\powerpnt.exe"
53         ideas: >
54             - Excel called wmic to finally proxy execute regsvr32 with the payload. An attacker wanted to execute regsvr32 but we have command-line in the event which allow us to "restore" this suspicious parent-child relationship.
55             But we have command-line in the event which allow us to "restore" this suspicious parent-child relationship.
56             Monitor process creation with "wmic process call create" and LOLBins in command-line with "process call create" and LOLBins in command-line with "process call create"
57             Note: add more LOLBins to the rules logic of your choice.
58         telemetry:
59             process_create:
60                 - Windows EID 4688
61                 - Sysmon EID 1
62                 - EDR (PsSetCreateProcessNotifyRoutine/Ex)
63         rules: >
64             - Channel:Windows-Security AND EventID:4688 AND (NewProcessName:"\\wbem\\WMIC.exe" OR ProcessName:"\\wbem\\WMIC.exe" AND ProcessCommandLine:(*regsvr32* OR *rundll32* OR *msiexec* OR *mshta* OR *verclsid*) AND ParentProcessName:"\\winword.exe" OR "\\excel.exe" OR "\\powerpnt.exe")
65             - Channel:Sysmon AND EventID:1 AND (Image:"\\wbem\\WMIC.exe" OR CommandLine:"*wmic *" OR ProcessName:"\\wbem\\WMIC.exe" AND CommandLine:*process* AND CommandLine:*call* AND CommandLine:*create* AND ParentImage:"\\winword.exe" OR "\\excel.exe" OR "\\powerpnt.exe")
66             - Channel:Sysmon AND EventID:1 AND (Image:"\\wbem\\WMIC.exe" OR CommandLine:"*wmic *" OR ProcessName:"\\wbem\\WMIC.exe" AND CommandLine:*process* AND CommandLine:*call* AND CommandLine:*create* AND ParentImage:"\\winword.exe" OR "\\excel.exe" OR "\\powerpnt.exe")
67             - Channel:Sysmon AND EventID:1 AND (Image:"\\wbem\\WMIC.exe" OR CommandLine:"*wmic *" OR ProcessName:"\\wbem\\WMIC.exe" AND CommandLine:*process* AND CommandLine:*call* AND CommandLine:*create* AND ParentImage:"\\winword.exe" OR "\\excel.exe" OR "\\powerpnt.exe")
68             - Channel:Sysmon AND EventID:1 AND (Image:"\\wbem\\WMIC.exe" OR CommandLine:"*wmic *" OR ProcessName:"\\wbem\\WMIC.exe" AND CommandLine:*process* AND CommandLine:*call* AND CommandLine:*create* AND ParentImage:"\\winword.exe" OR "\\excel.exe" OR "\\powerpnt.exe")
69         ideas: >
70             - monitor LOLBins process creations by Office applications.
```



```
116         if EXCEL process initiated an external network connection, if we try to monitor such connections
117         instead monitor outbound network connections initiated by Regsvr32.exe (not directly related to EXCEL)
118         Note: you may also check hypothesis for local-to-local connections and add other LOLBins
```





















```

579         - EDR (minifilter)
580     file_rename:
581         - EDR (minifilter)
582     file_delete:
583         - EDR (minifilter)
584 rules: >
585     - Channel:Windows-Security AND EventID:4688 AND (NewProcessName:"\\rclone.exe" OR ProcessCo
586     - Channel:Sysmon AND EventID:1 AND (OriginalFileName:"rclone.exe" OR Company:""*rclone\org
587     - Channel:EDR AND EventType:(FileCreate OR FileRename OR FileDelete) AND (OriginalFileName:
588         AND NOT FilePath:"\\rclone.exe"
589 ideas: >
590     - monitor Rclone tool execution with suspicious command-lines.
591 telemetry:
592     process_create:
593         - Windows EID 4688
594         - Sysmon EID 1
595         - EDR (PsSetCreateProcessNotifyRoutine/Ex)
596 rules: >
597     - Channel:Windows-Security AND EventID:4688 AND (NewProcessName:"\\rclone.exe" OR ProcessCo
598         AND ProcessCommandLine.keyword:/.*\*\*\.*\\(ADMIN|IPC|C)\$.*/ AND ProcessCommandLine:(*htt
599     - Channel:Sysmon AND EventID:1 AND (Image:"\\rclone.exe" OR CommandLine:"*rclone *" OR Orig
600         AND CommandLine.keyword:/.*\*\*\.*\\(ADMIN|IPC|C)\$.*/ AND CommandLine:(*http* OR *ftp*)
601 ideas: >
602     - monitor system processes execution from untypical paths. Add more executables of your cho
603 telemetry:
604     process_create:
605         - Windows EID 4688
606         - Sysmon EID 1
607         - EDR (PsSetCreateProcessNotifyRoutine/Ex)
608 rules: >
609     - Channel:Windows-Security AND EventID:4688 AND NewProcessName:("\\svchost.exe" OR "\\gpupc
610         AND NOT NewProcessName:("C:\\Windows\\System32\\" OR "C:\\Windows\\SysWOW64\\")
611     - Channel:Sysmon AND EventID:1 AND Image:("\\svchost.exe" OR "\\gpupdate.exe" OR "\\taskhos
612         AND NOT Image:("C:\\Windows\\System32\\" OR "C:\\Windows\\SysWOW64\\")
613 quote: >
614     - "For the final actions, the threat actors dropped a ransomware executable on the domain contr
615 detection:
616     - https://github.com/vadim-hunter/Detection-Ideas-Rules/blob/main/TTPs/Defense%20Evasion/T1197%20Process%20Execution%20Techniques/T1197%20Process%20Execution%20Techniques.md
617 quote: >
618     - "The -smode flag was used with the ransomware executable to set the system to reboot into Saf
619     - "bootcfg /raw /a /safeboot:network /id 1 (pre-Vista)"
620     - "bootcfg /raw /a /safeboot:network /id 1 (pre-Vista)"

```

