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📄 20210329\_Sodinokibi\_(aka\_RE...

> 📁 Tools

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**Detection-Ideas-Rules / Threat Intelligence / The DFIR Report**

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**/ 20210329\_Sodinokibi\_(aka\_REvil)\_Ransomware.yaml** 

 **vadim-hunter** Update 20210329\_Sodinokibi\_(aka\_REvil)\_Ransomware.y... e6ef266 · 3 years ago

 History

CodeBlame652 lines (650 loc) · 42.5 KB

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```
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
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.e
42        AND CreatorProcessName:(\\"winword.exe" OR "\\excel.exe" OR "\\powerpnt.exe")
43      - Channel:Sysmon AND EventID:1 AND (Image:"\\wbem\\WMIC.exe" OR CommandLine:"w
44        AND ParentImage:(\\"winword.exe" OR "\\excel.exe" OR "\\powerpnt.exe")
45  ideas: >
46      - monitor WMI "Win32_Process::Create" command execution by Office applications
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
53  ideas: >
54      - Excel called wmic to finally proxy execute regsvr32 with the payload. An atta
55      But we have command-line in the event which allow us to "restore" this suspic
56      Monitor process creation with "wmic process call create" and LOLBin in comm
```

```
56         monitor process creation with wmic process call create and LOLBins in comma
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.e
65           AND ProcessCommandLine>(*regsvr32* OR *rundll32* OR *msiexec* OR *mshta* OR *
66         - Channel:Sysmon AND EventID:1 AND (Image:"\\wbem\\WMIC.exe" OR CommandLine:"*w
67           AND CommandLine:*process* AND CommandLine:*call* AND CommandLine:*create* AND
68           AND ParentImage:"\\winword.exe" OR "\\excel.exe" OR "\\powerpnt.exe")
69     ideas: >
70         - monitor LOLBins process creations by Office applications.
71         Note: add more LOLBins and Office applications to the rules logic of your cho
72     telemetry:
73         process_create:
74             - Windows EID 4688
75             - Sysmon EID 1
76             - EDR (PsSetCreateProcessNotifyRoutine/Ex)
77     rules: >
78         - Channel:Windows-Security AND EventID:4688 AND NewProcessName:"\\regsvr32.exe
79           AND CreatorProcessName:"\\winword.exe" OR "\\excel.exe" OR "\\powerpnt.exe")
80         - Channel:Sysmon AND EventID:1 AND Image:"\\regsvr32.exe" OR "\\rundll32.exe"
81           AND ParentImage:"\\winword.exe" OR "\\excel.exe" OR "\\powerpnt.exe")
82     ideas: >
83         - monitor LOLBins process creations with WmiPrvse parent process.
84         Note: add more LOLBins to the rules logic of your choice. FPs are possible he
85     telemetry:
86         process_create:
87             - Windows EID 4688
88             - Sysmon EID 1
89             - EDR (PsSetCreateProcessNotifyRoutine/Ex)
90     rules: >
91         - Channel:Windows-Security AND EventID:4688 AND NewProcessName:"\\regsvr32.exe
92           AND CreatorProcessName:"\\wbem\\WmiPrvSE.exe")
93         - Channel:Sysmon AND EventID:1 AND Image:"\\regsvr32.exe" OR "\\rundll32.exe"
94           AND ParentImage:"\\wbem\\WmiPrvSE.exe")
95     ideas: >
96         - monitor executable and script files creation by Office applications, use file
97         Note: add more files extensions/magic bytes to the rules logic of your choice
98     telemetry:
99         file_create:
100             - Sysmon EID 11
101             - EDR (minifilter)
102         file_rename:
103             - EDR (minifilter)
104     rules: >
105         - Channel:Sysmon AND EventID:11 AND Image:"\\winword.exe" OR "\\excel.exe" OR
106           AND TargetFilename:(*.exe OR *.dll OR *.ocx OR *.com OR *.ps1 OR *.vbs OR *.s
107         - Channel:EDR AND EventType:(FileCreate OR FileRename) AND Image:"\\winword.ex
108           AND (Filename:(*.exe OR *.dll OR *.ocx OR *.com OR *.ps1 OR *.vbs OR *.sys OR
109     quote: >
110         - "This (MS Excel) then made a network request to download a file from this URL"
111     mitre_attack:
112         defense_evasion:
113             - T1218.010 - Signed Binary Proxy Execution - Regsvr32
114     detection:
115         ideas: >
116             - MS Excel process initiated an external network connection, if we try to monit
117             instead monitor outbound network connections initiated by Regsvr32.exe (not d
118             Note: you may also check hypothesis for local-to-local connections and add ot
```















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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"
586         - Channel:Sysmon AND EventID:1 AND (OriginalFileName:"rclone.exe" OR Company:""
587         - Channel:EDR AND EventType:(FileCreate OR FileRename OR FileDelete) AND (Orig
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"
598           AND ProcessCommandLine.keyword:/*\\*.*(ADMIN|IPC|C)\$.*/ AND ProcessComma
599         - Channel:Sysmon AND EventID:1 AND (Image:"\\rclone.exe" OR CommandLine:"*rclon
600           AND CommandLine.keyword:/*\\*.*(ADMIN|IPC|C)\$.*/ AND CommandLine>(*http*
601     ideas: >
602         - monitor system processes execution from untypical paths. Add more executables
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"
610           AND NOT NewProcessName:("C:\\Windows\\System32\\" OR "C:\\Windows\\SysWOW64
611         - Channel:Sysmon AND EventID:1 AND Image:("\\svchost.exe" OR "\\gpupdate.exe" O
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
615     detection:
616         - https://github.com/vadim-hunter/Detection-Ideas-Rules/blob/main/TTPs/Defense%20Ev
617     quote: >
618         - "The -smode flag was used with the ransomware executable to set the system to reb
619         - "bootcfg /raw /a /safeboot:network /id 1 (pre-Vista)"
620         - "bcdedit /set {current} safeboot network" (Vista+)"
621         - "bcdedit /deletevalue {current} safeboot"
622         - "REG ADD HKLM\\SOFTWARE\\Microsoft\\Windows\\CurrentVersion\\RunOnce /v "*UndoSB" /t R
623     mitre_attack:
624     defense_evasion:
625         - T1562.001 - Impair Defenses - Disable or Modify Tools
626     detection:
627         ideas: >
628             - monitor bootcfg/bcdedit tools execution with "safeboot" option. Multiple aler
629             - monitor writing bootcfg/bcdedit executables to Windows registry run keys. Add
630     telemetry:
631         process_create:
632             - Windows EID 4688
633             - Sysmon EID 1
634             - EDR (PsSetCreateProcessNotifyRoutine/Ex)
635     registry_value_set:
636         - Windows EID 4657 (SACL)
637         - Sysmon EID 13
638         - EDR (CmRegisterCallback/Ex, Registry API)
639     rules: >
640         - Channel:Windows-Security AND EventID:4688 AND (NewProcessName:("\\bcdedit.exe"
641         - Channel:Sysmon AND EventID:1 AND (Image:("\\bcdedit.exe" OR "\\bootcfg.exe") OR
642           OR Description:("Boot Configuration Data Editor" OR "BootCfg*")) AND CommandLin
643         - Channel:Windows-Security AND EventID:4657 AND ObjectName:"*\\Windows\\CurrentVe
644         - Channel:Sysmon AND EventID:13 AND TargetObject:"*\\Windows\\CurrentVersion\\Run
645         - Channel:Windows-Security AND EventID:4688 AND (NewProcessName:("\\powershell.ex
646           AND ProcessCommandLine:("*Set-ItemProperty*" OR "* sp *" OR "*add*") AND Proces
647         - Channel:Sysmon AND EventID:1 AND (Image:("\\powershell.exe" OR "\\pwsh.exe" OR
648           OR Description:("Windows PowerShell" OR "Registry Console Tool")) AND CommandLi
649         - Channel:Windows-Powershell AND EventID:400 AND HostApplication:("*powershell *"
650           AND HostApplication:"*\\Windows\\CurrentVersion\\Run*" AND HostApplication:("*b
651
652
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