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/ 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 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 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 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 choice.
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" OR "\\rundll32.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" OR "\\msiexec.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 here, but some are not.
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" OR "\\rundll32.exe"
92           AND CreatorProcessName:("\\wbem\\WmiPrvSE.exe")
93         - Channel:Sysmon AND EventID:1 AND Image:("\\regsvr32.exe" OR "\\rundll32.exe" OR "\\msiexec.exe"
94           AND ParentImage:("\\wbem\\WmiPrvSE.exe")
95     ideas: >
96         - monitor executable and script files creation by Office applications, use files extensions
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 "\\powerpnt.exe"
106           AND TargetFilename:(*.exe OR *.dll OR *.ocx OR *.com OR *.ps1 OR *.vbs OR *.sys OR *.bat OR *.cmd)
107         - Channel:EDR AND EventType:(FileCreate OR FileRename) AND Image:("\\winword.exe" OR "\\excel.exe"
108           AND (Filename:(*.exe OR *.dll OR *.ocx OR *.com OR *.ps1 OR *.vbs OR *.sys OR *.bat OR *.cmd)
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 monitor such activity
```

```
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)
```























