

```
Sysmon Logs + PowerShell Logs
  SELECT Message
                                                                               Q
  FROM apt29Host f
  INNER JOIN (
      SELECT d.ProcessId
      FROM apt29Host d
      INNER JOIN (
        SELECT a.ProcessGuid, a.ParentProcessGuid
        FROM apt29Host a
        INNER JOIN (
          SELECT ProcessGuid
          FROM apt29Host
          WHERE Channel = "Microsoft-Windows-Sysmon/Operational"
              AND EventID = 1
              AND LOWER(Image) LIKE "%control.exe"
              AND LOWER(ParentImage) LIKE "%sdclt.exe"
        ) b
        ON a.ParentProcessGuid = b.ProcessGuid
        WHERE a.Channel = "Microsoft-Windows-Sysmon/Operational"
          AND a.EventID = 1
          AND a.IntegrityLevel = "High"
      ) c
      ON d.ParentProcessGuid= c.ProcessGuid
      WHERE d.Channel = "Microsoft-Windows-Sysmon/Operational"
        AND d.EventID = 1
        AND d.Image LIKE '%powershell.exe'
  ) e
  ON f.ExecutionProcessID = e.ProcessId
  WHERE f.Channel = "Microsoft-Windows-PowerShell/Operational"
      AND f.EventID = 4104
      AND LOWER(f.ScriptBlockText) LIKE "%get-process%"
Results
  Creating Scriptblock text (1 of 1):
                                                                               Q
  get-process
  ScriptBlock ID: 66a7f650-8a84-4dcf-a0f7-41d06de51f5c
  Path:
Security Logs + PowerShell Logs
                                                                               Q
  SELECT Message
  FROM apt29Host f
  INNER JOIN (
      SELECT split(d.NewProcessId, '0x')[1] as NewProcessId
      FROM apt29Host d
      INNER JOIN(
        SELECT a.ProcessId, a.NewProcessId
        FROM apt29Host a
        INNER JOIN (
          SELECT NewProcessId
          FROM apt29Host
          WHERE LOWER(Channel) = "security"
              AND EventID = 4688
              AND LOWER(NewProcessName) LIKE "%control.exe"
              AND LOWER(ParentProcessName) LIKE "%sdclt.exe"
        ON a.ProcessId = b.NewProcessId
        WHERE LOWER(a.Channel) = "security"
          AND a.EventID = 4688
          AND a.MandatoryLabel = "S-1-16-12288"
          AND a.TokenElevationType = "%%1937"
      ) c
      ON d.ProcessId = c.NewProcessId
      WHERE LOWER(d.Channel) = "security"
        AND d.EventID = 4688
        AND d.NewProcessName LIKE '%powershell.exe'
  ON LOWER(hex(f.ExecutionProcessID)) = e.NewProcessId
  WHERE f.Channel = "Microsoft-Windows-PowerShell/Operational"
      AND f.EventID = 4104
      AND LOWER(f.ScriptBlockText) LIKE "%get-process%"
Results
  Creating Scriptblock text (1 of 1):
                                                                               Q
  get-process
```

```
ScriptBlock ID: 66a7f650-8a84-4dcf-a0f7-41d06de51f5c
```



Cyb3rWard0g commented on May 13, 2020

Contributor (Author)

(Contributor) (Author) •••

4.B.2 File Deletion

Procedure: Deleted rcs.3aka3.doc on disk using SDelete Criteria: sdelete64.exe deleting the file rcs.3aka3.doc

Cyb3rWard0g commented on May 13, 2020 • edited ▼



Telemetry showed sdelete.exe running with command-line arguments to delete the file. The event was correlated to a parent alert for Bypass User Account Control of control.exe spawning powershell.exe.

Sysmon Logs

```
Q
SELECT Message
FROM apt29Host f
INNER JOIN (
   SELECT d.ProcessId, d.ProcessGuid
    FROM apt29Host d
    INNER JOIN (
      SELECT a.ProcessGuid, a.ParentProcessGuid
      FROM apt29Host a
      INNER JOIN (
       SELECT ProcessGuid
        FROM apt29Host
        WHERE Channel = "Microsoft-Windows-Sysmon/Operational"
            AND EventID = 1
            AND LOWER(Image) LIKE "%control.exe"
            AND LOWER(ParentImage) LIKE "%sdclt.exe"
      ) b
      ON a.ParentProcessGuid = b.ProcessGuid
      WHERE a.Channel = "Microsoft-Windows-Sysmon/Operational"
        AND a.EventID = 1
        AND a.IntegrityLevel = "High"
    ) c
    ON d.ParentProcessGuid= c.ProcessGuid
    WHERE d.Channel = "Microsoft-Windows-Sysmon/Operational"
      AND d.EventID = 1
      AND d.Image LIKE '%powershell.exe'
ON f.ParentProcessGuid = e.ProcessGuid
WHERE f.Channel = "Microsoft-Windows-Sysmon/Operational"
   AND f.EventID = 1
   AND LOWER(f.Image) LIKE '%sdelete%'
    AND LOWER(f.CommandLine) LIKE '%3aka3%'
```

Results

ParentProcessId: 3876

```
Process Create:
                                                                            Q
RuleName: -
UtcTime: 2020-05-02 03:02:04.324
ProcessGuid: {47ab858c-e2ac-5eac-cb03-000000000400}
ProcessId: 4140
Image: C:\Program Files\SysinternalsSuite\sdelete64.exe
FileVersion: 2.02
Description: Secure file delete
Product: Sysinternals Sdelete
Company: Sysinternals - www.sysinternals.com
OriginalFileName: sdelete.exe
CommandLine: "C:\Program Files\SysinternalsSuite\sdelete64.exe" /accepteula C:\pr
CurrentDirectory: C:\Program Files\SysinternalsSuite\
User: DMEVALS\pbeesly
LogonGuid: {47ab858c-dabe-5eac-812e-370000000000}
LogonId: 0x372E81
TerminalSessionId: 2
IntegrityLevel: High
Hashes: SHA1=7BCD946326B67F806B3DB4595EDE9FBDF29D0C36,MD5=2B5CB081721B8BA45471311
ParentProcessGuid: {47ab858c-e23d-5eac-c603-000000000400}
```

```
ParentImage: C:\Windows\System32\WindowsPowerShell\v1.0\powershell.exe
ParentCommandLine: powershell.exe
```



```
Cyb3rWard0g commented on May 13, 2020
                                                            Contributor (Author) •••
Another way to identify Sysinternals Sdelete tool
Sysmon
                                                                             Q
  SELECT Message
  FROM apt29Host h
  INNER JOIN (
     SELECT f.ProcessGuid
      FROM apt29Host f
      INNER JOIN (
        SELECT d.ProcessId, d.ProcessGuid
        FROM apt29Host d
        INNER JOIN (
          SELECT a.ProcessGuid, a.ParentProcessGuid
          FROM apt29Host a
          INNER JOIN (
           SELECT ProcessGuid
            FROM apt29Host
            WHERE Channel = "Microsoft-Windows-Sysmon/Operational"
                AND EventID = 1
                AND LOWER(Image) LIKE "%control.exe"
                AND LOWER(ParentImage) LIKE "%sdclt.exe"
          ) b
          ON a.ParentProcessGuid = b.ProcessGuid
          WHERE a.Channel = "Microsoft-Windows-Sysmon/Operational"
            AND a.EventID = 1
            AND a.IntegrityLevel = "High"
        ) c
        ON d.ParentProcessGuid= c.ProcessGuid
        WHERE d.Channel = "Microsoft-Windows-Sysmon/Operational"
          AND d.EventID = 1
          AND d.Image LIKE '%powershell.exe'
      ) e
      ON f.ParentProcessGuid = e.ProcessGuid
      WHERE f.Channel = "Microsoft-Windows-Sysmon/Operational"
        AND f.EventID = 1
        AND LOWER(f.Image) LIKE '%sdelete%'
        AND LOWER(f.CommandLine) LIKE '%3aka3%'
  ) g
  ON h.ProcessGuid = g.ProcessGuid
  WHERE h.Channel = "Microsoft-Windows-Sysmon/Operational"
      AND h.EventID in (12,13)
      AND LOWER(h.TargetObject) RLIKE '.*\\\\\\software\\\\\\\sysinternals\\\\\
Results
                                                                             Q
  |Registry value set:
  RuleName: -
  EventType: SetValue
  UtcTime: 2020-05-02 03:02:04.518
  ProcessId: 4140
  Image: C:\Program Files\SysinternalsSuite\sdelete64.exe
  TargetObject: HKU\S-1-5-21-1830255721-3727074217-2423397540-1107\Software\Sysinte
  Details: DWORD (0x00000001)|
  |Registry object added or deleted:
                                                                             Q
  RuleName: -
  EventType: CreateKey
  UtcTime: 2020-05-02 03:02:04.518
  ProcessGuid: {47ab858c-e2ac-5eac-cb03-000000000400}
  ProcessId: 4140
  Image: C:\Program Files\SysinternalsSuite\sdelete64.exe
  TargetObject: HKU\S-1-5-21-1830255721-3727074217-2423397540-1107\Software\Sysinte
  |Registry object added or deleted:
  RuleName: -
  EventType: CreateKey
  UtcTime: 2020-05-02 03:02:04.518
  ProcessGuid: {47ab858c-e2ac-5eac-cb03-000000000400}
  ProcessId: 4140
```

Image: C:\Program Files\SysinternalsSuite\sdelete64.exe
TargetObject: HKU\S-1-5-21-1830255721-3727074217-2423397540-1107\Software\Sysinte



```
Cyb3rWard0g commented on May 13, 2020
                                                             Contributor ( Author ) •••
Security Logs
  SELECT Message
                                                                               Q
  FROM apt29Host f
  INNER JOIN (
    SELECT d.NewProcessId
    FROM apt29Host d
    INNER JOIN(
      SELECT a.ProcessId, a.NewProcessId
      FROM apt29Host a
      INNER JOIN (
        SELECT NewProcessId
        FROM apt29Host
        WHERE LOWER(Channel) = "security"
            AND EventID = 4688
            AND LOWER(NewProcessName) LIKE "%control.exe"
            AND LOWER(ParentProcessName) LIKE "%sdclt.exe"
      ) b
      ON a.ProcessId = b.NewProcessId
      WHERE LOWER(a.Channel) = "security"
        AND a.EventID = 4688
        AND a.MandatoryLabel = "S-1-16-12288"
        AND a.TokenElevationType = "%%1937"
    ON d.ProcessId = c.NewProcessId
    WHERE LOWER(d.Channel) = "security"
      AND d.EventID = 4688
      AND d.NewProcessName LIKE '%powershell.exe'
  ) e
  ON f.ProcessId = e.NewProcessId
  WHERE LOWER(f.Channel) = "security"
    AND f.EventID = 4688
    AND LOWER(f.NewProcessName) LIKE '%sdelete%'
    AND LOWER(f.CommandLine) LIKE '%3aka3%'
Results
                                                                               Q
  A new process has been created.
  Creator Subject:
          Security ID:
                                  S-1-5-21-1830255721-3727074217-2423397540-1107
          Account Name:
                                  pbeesly
          Account Domain:
                                  DMEVALS
          Logon ID:
                                  0x372E81
  Target Subject:
          Security ID:
                                  S-1-0-0
          Account Name:
          Account Domain:
          Logon ID:
                                  0x0
  Process Information:
          New Process ID:
                                  0x102c
          New Process Name:
                                  C:\Program Files\SysinternalsSuite\sdelete64.exe
          Token Elevation Type: %%1937
                                           S-1-16-12288
          Mandatory Label:
                                  0xf24
          Creator Process ID:
                                  C:\Windows\System32\WindowsPowerShell\v1.0\powers
          Creator Process Name:
                                  "C:\Program Files\SysinternalsSuite\sdelete64.exe
          Process Command Line:
```



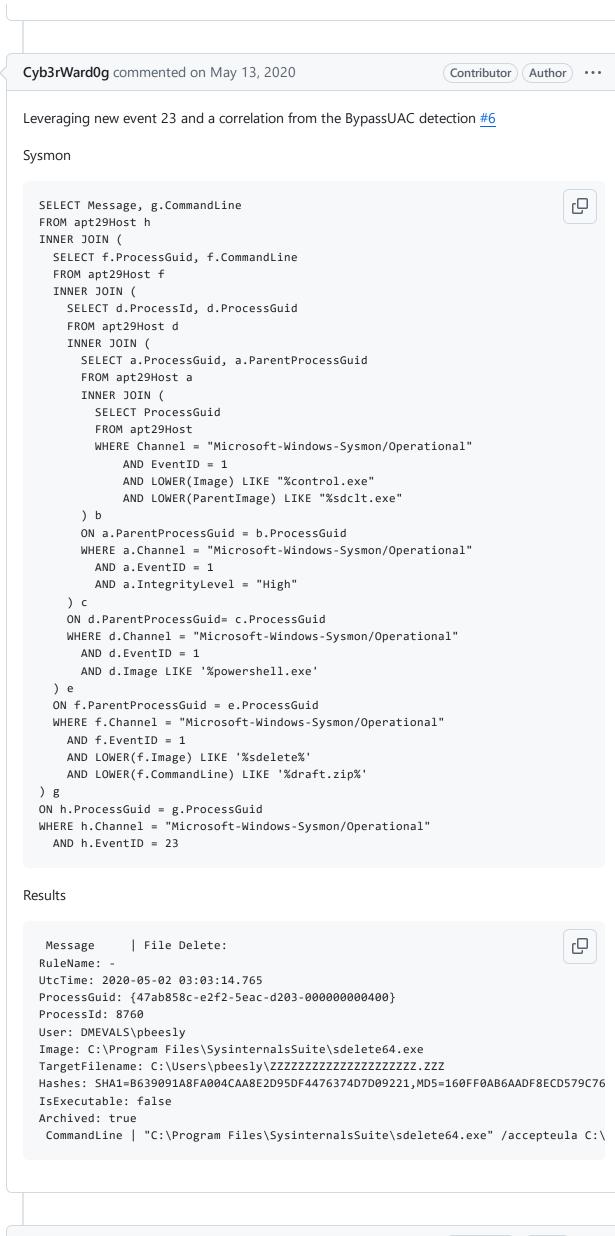
Cyb3rWard0g commented on May 13, 2020

Contributor Author

or · · ·

4.B.3 File Deletion

Procedure: Deleted Draft.zip on disk using SDelete Criteria: sdelete64.exe deleting the file draft.zip



```
Cyb3rWard0g commented on May 13, 2020

Sysmon + Registry

SELECT Message
FROM apt29Host h
INNER JOIN (
SELECT f.ProcessGuid
FROM apt29Host f
INNER JOIN (
SELECT d.ProcessId, d.ProcessGuid
FROM apt29Host d
INNER JOIN (
```

```
SELECT a.ProcessGuid, a.ParentProcessGuid
        FROM apt29Host a
        INNER JOIN (
          SELECT ProcessGuid
          FROM apt29Host
          WHERE Channel = "Microsoft-Windows-Sysmon/Operational"
              AND EventID = 1
              AND LOWER(Image) LIKE "%control.exe"
              AND LOWER(ParentImage) LIKE "%sdclt.exe"
        ) b
        ON a.ParentProcessGuid = b.ProcessGuid
        WHERE a.Channel = "Microsoft-Windows-Sysmon/Operational"
          AND a.EventID = 1
          AND a.IntegrityLevel = "High"
      ON d.ParentProcessGuid= c.ProcessGuid
      WHERE d.Channel = "Microsoft-Windows-Sysmon/Operational"
        AND d.EventID = 1
        AND d.Image LIKE '%powershell.exe'
    ON f.ParentProcessGuid = e.ProcessGuid
    WHERE f.Channel = "Microsoft-Windows-Sysmon/Operational"
      AND f.EventID = 1
      AND LOWER(f.Image) LIKE '%sdelete%'
      AND LOWER(f.CommandLine) LIKE '%draft.zip%'
  ) g
  ON h.ProcessGuid = g.ProcessGuid
  WHERE h.Channel = "Microsoft-Windows-Sysmon/Operational"
    AND h.EventID in (12,13)
    AND LOWER(h.TargetObject) RLIKE '.*\\\\\software\\\\\\sysinternals\\\\\\
Result
                                                                               Q
  |Registry value set:
  RuleName: -
  EventType: SetValue
  UtcTime: 2020-05-02 03:03:14.702
  ProcessGuid: {47ab858c-e2f2-5eac-d203-000000000400}
  ProcessId: 8760
  Image: C:\Program Files\SysinternalsSuite\sdelete64.exe
  TargetObject: HKU\S-1-5-21-1830255721-3727074217-2423397540-1107\Software\Sysinte
  Details: DWORD (0x00000001)|
  |Registry object added or deleted:
  RuleName: -
  EventType: CreateKey
  UtcTime: 2020-05-02 03:03:14.702
  ProcessGuid: {47ab858c-e2f2-5eac-d203-000000000400}
  ProcessId: 8760
  Image: C:\Program Files\SysinternalsSuite\sdelete64.exe
  TargetObject: HKU\S-1-5-21-1830255721-3727074217-2423397540-1107\Software\Sysinte
  |Registry object added or deleted:
  RuleName: -
  EventType: CreateKey
  UtcTime: 2020-05-02 03:03:14.702
  ProcessGuid: {47ab858c-e2f2-5eac-d203-000000000400}
  ProcessId: 8760
  Image: C:\Program Files\SysinternalsSuite\sdelete64.exe
  TargetObject: HKU\S-1-5-21-1830255721-3727074217-2423397540-1107\Software\Sysinte
```



```
Cyb3rWard0g commented on May 13, 2020
                                                              Contributor ( Author ) •••
Security Logs
                                                                                Q
  SELECT Message
  FROM apt29Host f
  INNER JOIN (
  SELECT d.NewProcessId
  FROM apt29Host d
  INNER JOIN(
    SELECT a.ProcessId, a.NewProcessId
    FROM apt29Host a
    INNER JOIN (
      SELECT NewProcessId
      FROM apt29Host
      WHERE LOWER(Channel) = "security"
          AND EventID = 4688
          AND LOWER(NewProcessName) LIKE "%control.exe"
          AND LOWER(ParentProcessName) LIKE "%sdclt.exe"
```

```
ON a.ProcessId = b.NewProcessId
    WHERE LOWER(a.Channel) = "security"
      AND a.EventID = 4688
      AND a.MandatoryLabel = "S-1-16-12288"
      AND a.TokenElevationType = "%%1937"
  ON d.ProcessId = c.NewProcessId
  WHERE LOWER(d.Channel) = "security"
    AND d.EventID = 4688
    AND d.NewProcessName LIKE '%powershell.exe'
  ) e
  ON f.ProcessId = e.NewProcessId
  WHERE LOWER(f.Channel) = "security"
  AND f.EventID = 4688
  AND LOWER(f.NewProcessName) LIKE '%sdelete%'
  AND LOWER(f.CommandLine) LIKE '%draft.zip'
Results
                                                                              Q
  A new process has been created.
  Creator Subject:
                                 S-1-5-21-1830255721-3727074217-2423397540-1107
          Security ID:
          Account Name:
                                 pbeesly
          Account Domain:
                                 DMEVALS
          Logon ID:
                                  0x372E81
  Target Subject:
         Security ID:
                                 S-1-0-0
          Account Name:
          Account Domain:
          Logon ID:
                                  0x0
  Process Information:
          New Process ID:
                                 0x2238
         New Process ID: 0x2238

New Process Name: C:\Program Files\SysinternalsSuite\sdelete64.exe
          Token Elevation Type: %%1937
          Mandatory Label:
                                          S-1-16-12288
          Creator Process ID: 0xf24
          Creator Process Name: C:\Windows\System32\WindowsPowerShell\v1.0\powers
          Process Command Line: "C:\Program Files\SysinternalsSuite\sdelete64.exe
```



Cyb3rWard0g commented on May 13, 2020

Contributor Author · · ·

4.B.4 File Deletion

Procedure: Deleted SysinternalsSuite.zip on disk using SDelete Criteria: sdelete64.exe deleting the file SysinternalsSuite.zip

Same as before but looking for sysinternalssuite.zip 😉

hitenkoku mentioned this issue on Apr 24, 2021

SIGMAルール読み込み共通部分対応 Yamato-Security/hayabusa#90

⊘ Closed

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