



Cyb3rWard0g commented on May 13, 2020 Contributor Author · · ·

4.B.1 Process Discovery

Procedure: Enumerated current running processes using

PowerShell

Criteria: powershell.exe executing Get-Process



```
Cyb3rWard0g commented
                                     Contributor (Author)
on May 13, 2020
Telemetry showed powershell.exe executing Get-Process. The
event was correlated to a parent alert for Bypass User Account
Control of control.exe spawning powershell.exe.
Sysmon Logs + PowerShell Logs
  SELECT Message
  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/Operat
              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/Operat
          AND a.EventID = 1
          AND a.IntegrityLevel = "High"
      ) c
      ON d.ParentProcessGuid= c.ProcessGuid
      WHERE d.Channel = "Microsoft-Windows-Sysmon/Operation
        AND d.EventID = 1
        AND d.Image LIKE '%powershell.exe'
  ) e
  ON f.ExecutionProcessID = e.ProcessId
  WHERE f.Channel = "Microsoft-Windows-PowerShell/Operatic
      AND f.EventID = 4104
      AND LOWER(f.ScriptBlockText) LIKE "%get-process%"
Results
                                                      ſĠ
  Creating Scriptblock text (1 of 1):
  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 NewProcessI
      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.ex
        ) 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"
      ) c
      ON d.ProcessId = c.NewProcessId
      WHERE LOWER(d.Channel) = "security"
        AND d.EventID = 4688
        AND d.NewProcessName LIKE '%powershell.exe'
  ) e
  ON LOWER(hex(f.ExecutionProcessID)) = e.NewProcessId
  WHERE f.Channel = "Microsoft-Windows-PowerShell/Operatio"
      AND f.EventID = 4104
      AND LOWER(f.ScriptBlockText) LIKE "%get-process%"
Results
                                                      Q
  Creating Scriptblock text (1 of 1):
  get-process
  ScriptBlock ID: 66a7f650-8a84-4dcf-a0f7-41d06de51f5c
```



Cyb3rWard0g commented on May 13, 2020

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 ▼

Contributor Author ...

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

SELECT Message FROM apt29Host f

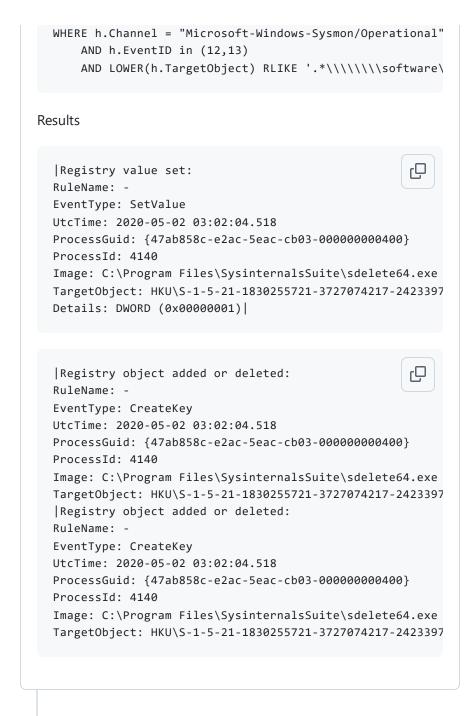


```
INNER JOIN (
      SELECT d.ProcessId, d.ProcessGuid
      FROM apt29Host d
      INNER JOIN (
        SELECT a.ProcessGuid, a.ParentProcessGuid
        FROM apt29Host a
        INNER JOIN (
          SELECT ProcessGuid
          FROM apt29Host
          WHERE Channel = "Microsoft-Windows-Sysmon/Operat
              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/Operat
          AND a.EventID = 1
          AND a.IntegrityLevel = "High"
      ) c
      ON d.ParentProcessGuid= c.ProcessGuid
      WHERE d.Channel = "Microsoft-Windows-Sysmon/Operation"
        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%'
Results
                                                      Q
  Process Create:
  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\sdelete
  CurrentDirectory: C:\Program Files\SysinternalsSuite\
  User: DMEVALS\pbeesly
  LogonGuid: {47ab858c-dabe-5eac-812e-370000000000}
  LogonId: 0x372E81
  TerminalSessionId: 2
  IntegrityLevel: High
```

Hashes: SHA1=7BCD946326B67F806B3DB4595EDE9FBDF29D0C36,MD



```
Cyb3rWard0g commented
                                    Contributor (Author) · · ·
on May 13, 2020
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/Oper
                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/Oper
            AND a.EventID = 1
            AND a.IntegrityLevel = "High"
        ) c
        ON d.ParentProcessGuid= c.ProcessGuid
        WHERE d.Channel = "Microsoft-Windows-Sysmon/Operat
          AND d.EventID = 1
          AND d.Image LIKE '%powershell.exe'
      ) e
      ON f.ParentProcessGuid = e.ProcessGuid
      WHERE f.Channel = "Microsoft-Windows-Sysmon/Operatic
        AND f.EventID = 1
        AND LOWER(f.Image) LIKE '%sdelete%'
        AND LOWER(f.CommandLine) LIKE '%3aka3%'
  ) g
  ON h.ProcessGuid = g.ProcessGuid
```





Cyb3rWard0g commented on May 13, 2020 Security Logs 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"
      ) 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"
    ) c
    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-1-5-21-1830255721-3727
          Account Name:
                                 pbeesly
          Account Domain:
                                 DMEVALS
          Logon ID:
                                  0x372E81
  Target Subject:
                                  S-1-0-0
          Security ID:
          Account Name:
          Account Domain:
          Logon ID:
                                  0x0
  Process Information:
          New Process ID:
                                 0x102c
          New Process Name: C:\Program Files\Sysinte
          Token Elevation Type: %%1937
          Mandatory Label:
                                          S-1-16-12288
          Creator Process ID:
                                0xf24
```

```
Creator Process Name: C:\Windows\System32\Wind
Process Command Line: "C:\Program Files\Sysint
```



Cyb3rWard0g commented on May 13, 2020 Contributor Author

4.B.3 File Deletion

Cyb3rWard0g commented

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



```
Contributor ( Author )
on May 13, 2020
Leveraging new event 23 and a correlation from the BypassUAC
detection #6
Sysmon
                                                       Q
  SELECT Message, g.CommandLine
  FROM apt29Host h
  INNER JOIN (
    SELECT f.ProcessGuid, f.CommandLine
    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/Operat
              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/Operat
          AND a.EventID = 1
          AND a.IntegrityLevel = "High"
      ) c
```

```
ON d.ParentProcessGuid= c.ProcessGuid
     WHERE d.Channel = "Microsoft-Windows-Sysmon/Operation"
       AND d.EventID = 1
       AND d.Image LIKE '%powershell.exe'
   ) e
   ON f.ParentProcessGuid = e.ProcessGuid
   WHERE f.Channel = "Microsoft-Windows-Sysmon/Operationa
     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 = 23
Results
                                                  Q
              | File Delete:
  Message
  RuleName: -
 UtcTime: 2020-05-02 03:03:14.765
 ProcessGuid: {47ab858c-e2f2-5eac-d203-000000000400}
 ProcessId: 8760
 User: DMEVALS\pbeesly
 Image: C:\Program Files\SysinternalsSuite\sdelete64.exe
 Hashes: SHA1=B639091A8FA004CAA8E2D95DF4476374D7D09221,MD
 IsExecutable: false
 Archived: true
  CommandLine | "C:\Program Files\SysinternalsSuite\sdele
```



```
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/Operat
              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/Operat
          AND a.EventID = 1
          AND a.IntegrityLevel = "High"
      ) c
      ON d.ParentProcessGuid= c.ProcessGuid
      WHERE d.Channel = "Microsoft-Windows-Sysmon/Operatic
        AND d.EventID = 1
        AND d.Image LIKE '%powershell.exe'
    ) e
    ON f.ParentProcessGuid = e.ProcessGuid
    WHERE f.Channel = "Microsoft-Windows-Sysmon/Operationa
      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\\\
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-1-5-21-1830255721-3727074217-2423397
  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-1-5-21-1830255721-3727074217-2423397
  |Registry object added or deleted:
  RuleName: -
```

```
EventType: CreateKey
UtcTime: 2020-05-02 03:03:14.702
ProcessGuid: {47ab858c-e2f2-5eac-d203-0000000000000000}
ProcessId: 8760
Image: C:\Program Files\SysinternalsSuite\sdelete64.exe
TargetObject: HKU\S-1-5-21-1830255721-3727074217-2423397
```



```
Cyb3rWard0g commented
                                    Contributor (Author) •••
on May 13, 2020
Security Logs
                                                      ſĠ
  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"
    ) 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"
  ) c
  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
```

A new process has been created.

Q

Creator Subject:

Security ID: S-1-5-21-1830255721-3727

Account Name: pbeesly Account Domain: DMEVALS 0x372E81 Logon ID:

Target Subject:

Security ID: S-1-0-0

Account Name: Account Domain: Logon ID: 0x0

Process Information:

New Process ID: 0x2238

New Process Name: C:\Program Files\Sysinte

Token Elevation Type: %%1937

Mandatory Label: S-1-16-12288

0xf24 Creator Process ID:

Creator Process Name: C:\Windows\System32\Wind "C:\Program Files\Sysint Process Command Line:



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

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