

```
Procedure: Executed elevated PowerShell payload
Criteria: High integrity powershell.exe spawning from control.exe (spawned from sdclt.exe)
                                                                                Q
  bypassUAC = spark.sql(
  SELECT a.Image, a.CommandLine
  FROM apt29Table a
  INNER JOIN (
      SELECT ProcessGuid
      FROM apt29Table
      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"
  ''')
  bypassUAC.show(truncate = False, vertical = True)
Results
               | C:\Windows\System32\WindowsPowerShell\v1.0\powershell.exe
   CommandLine | "PowerShell.exe" -noni -noexit -ep bypass -window hidden -c
```





```
Cyb3rWard0g commented on May 13, 2020
                                                             Contributor (Author) •••
Security Event Logs
                                                                               Q
  SELECT Message
  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"
Output:
  A new process has been created.
                                                                               Q
  Creator Subject:
                                  S-1-5-21-1830255721-3727074217-2423397540-1107
          Security ID:
          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:
       New Process ID: 0xba0
New Process Name: C:\Windows\System32\WindowsPowerShell\v1.0\powers
       Token Elevation Type: %%1937
       Mandatory Label:
                                       S-1-16-12288
       Creator Process ID: 0x131c
       Creator Process Name: C:\Windows\System32\control.exe
        Process Command Line: "PowerShell.exe" -noni -noexit -ep bypass -window
```



```
Cyb3rWard0g commented on May 13, 2020
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3.B.3 Commonly Used Port
Procedure: Established C2 channel (192.168.0.5) via PowerShell payload over TCP port 443
Criteria: Established network channel over port 443
Sysmon Event Logs
  SELECT Message
                                                                               Q
  FROM apt29Host d
  INNER JOIN (
    SELECT a.ProcessGuid
    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"
    ON a.ParentProcessGuid = b.ProcessGuid
    WHERE a.Channel = "Microsoft-Windows-Sysmon/Operational"
      AND a.EventID = 1
      AND a.IntegrityLevel = "High"
  ) c
  ON d.ProcessGuid = c.ProcessGuid
  WHERE d.Channel = "Microsoft-Windows-Sysmon/Operational"
    AND d.EventID = 3
Results:
  Network connection detected:
                                                                               Q
  UtcTime: 2020-05-02 02:58:46.099
  ProcessGuid: {47ab858c-e1e4-5eac-b803-000000000400}
  ProcessId: 2976
  Image: C:\Windows\System32\WindowsPowerShell\v1.0\powershell.exe
  User: DMEVALS\pbeesly
  Protocol: tcp
  Initiated: true
  SourceIsIpv6: false
  SourceIp: 10.0.1.4
  SourceHostname: -
  SourcePort: 59846
  SourcePortName: -
  DestinationIsIpv6: false
  DestinationIp: 192.168.0.5
  DestinationHostname: -
  DestinationPort: 443
  DestinationPortName: -
Security Logs
```

```
Q
  SELECT Message
  FROM apt29Host d
  INNER JOIN (
      SELECT split(a.NewProcessId, '0x')[1] as 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 LOWER(hex(CAST(ProcessId as INT))) = c.NewProcessId
  WHERE LOWER(Channel) = "security"
      AND d.EventID = 5156
Results
                                                                            Q
  The Windows Filtering Platform has permitted a connection.
  Application Information:
         Process ID:
         Application Name:
                               \device\harddiskvolume2\windows\system32\windowsp
  Network Information:
                                Outbound
         Direction:
         Source Port: 59846
         Destination Address: 192.168.0.5
         Destination Port:
                                        443
         Protocol:
  Filter Information:
         Filter Run-Time ID:
                                68659
         Layer Name:
                                Connect
          Layer Run-Time ID:
```



Cyb3rWard0g commented on May 13, 2020

(Contributor) (Author) •••

3.B.4 Standard Application Layer Protocol

Procedure: Used HTTPS to transport C2 (192.168.0.5) traffic Criteria: Evidence that the network data sent over the C2 channel is HTTPS

Maybe Zeek Logs?



Cyb3rWard0g commented on May 13, 2020

Contributor Author •••

3.B.5 Standard Cryptographic Protocol

Procedure: Used HTTPS to encrypt C2 (192.168.0.5) traffic Criteria: Evidence that the network data sent over the C2 channel is encrypted

Zeek Logs maybe?



This was referenced on May 13, 2020

- 4.A) PowerShell, Deobfuscate/Decode Files or Information #8
- 4.B) Process Discovery, File Deletion #9





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