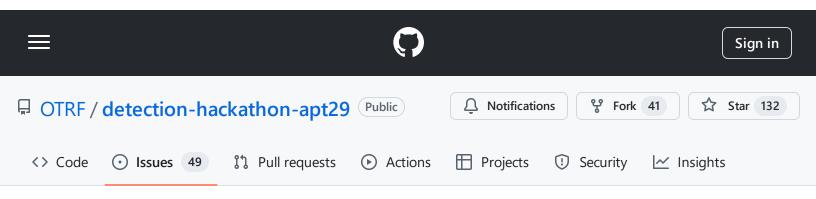
3.B) Component Object Model Hijacking, Bypass User Account Control, Commonly Used Port, Standard Application Layer Protocol, Standard Cryptographic Protocol · Issue #6 · OTRF/detection-hackathon-apt29 · GitHub - 31/10/2024 19:41 https://github.com/OTRF/detection-hackathon-apt29/issues/6



3.B) Component Object Model Hijacking, Bypass User Account Control, Commonly Used Port, Standard Application Layer Protocol, Standard Cryptographic Protocol #6



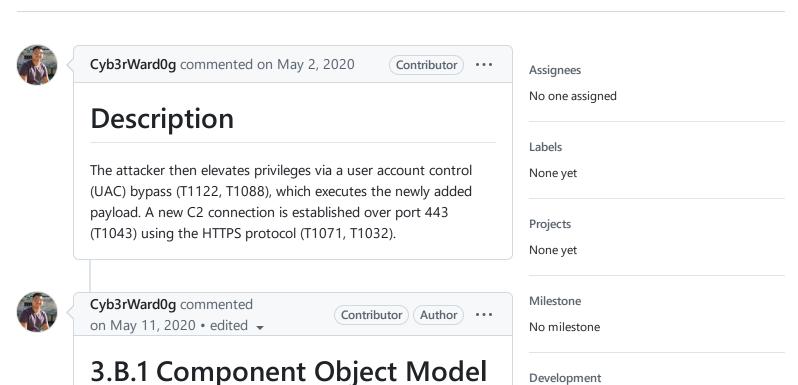


Hijacking

sdclt.exe using PowerShell

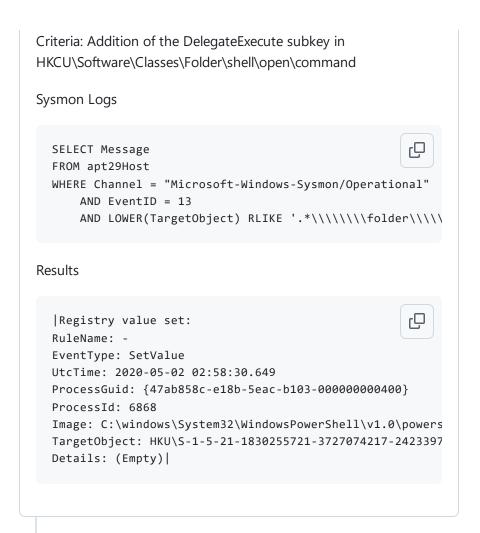
Cyb3rWard0g opened this issue on May 2, 2020 · 7 comments

Procedure: Modified the Registry to enable COM hijacking of



No branches or pull requests

1 participant





Cyb3rWard0g commented on May 11, 2020

3.B.2 Bypass User Account Control

Detection Category (Telemetry)

Procedure: Executed elevated PowerShell payload Criteria: High integrity powershell.exe spawning from control.exe (spawned from sdclt.exe)

bypassUAC = spark.sql(

SELECT a.Image, a.CommandLine FROM apt29Table a INNER JOIN (

```
SELECT ProcessGuid
      FROM apt29Table
      WHERE Channel = "Microsoft-Windows-Sysmon/Operationa
          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\WindowsPowerShe ┌☐ |.
   CommandLine | "PowerShell.exe" -noni -noexit -ep bypass
```





```
Cyb3rWard0g commented on May 13, 2020

Security Event Logs

Contributor Author ...
```

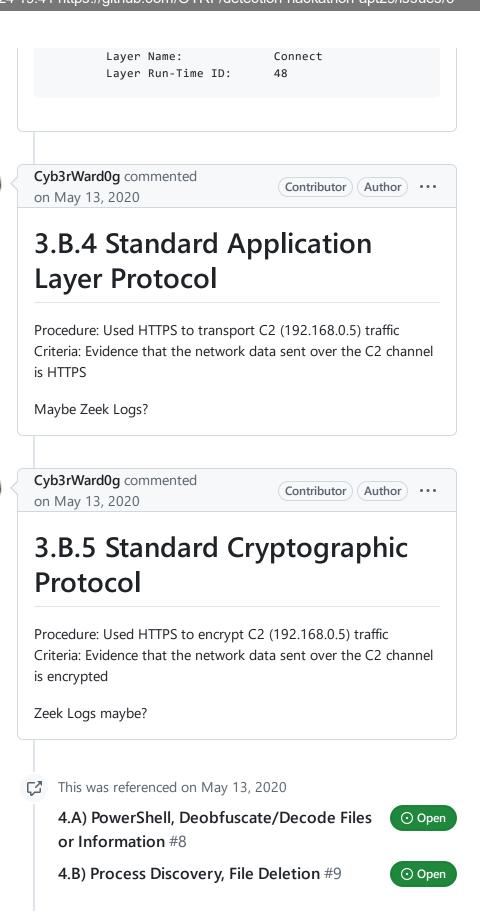
```
Q
  SELECT Message
  FROM apt29Host a
  INNER JOIN (
      SELECT NewProcessId
      FROM apt29Host
      WHERE LOWER(Channel) = "security"
          AND EventID = 4688
          AND LOWER(NewProcessName) LIKE "%control.exe"
          AND LOWER(ParentProcessName) LIKE "%sdclt.exe"
  ) b
  ON a.ProcessId = 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:
          Security ID:
                                  S-1-5-21-1830255721-3727
          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:
                                  0xba0
          New Process Name:
                                 C:\Windows\System32\Wind
          Token Elevation Type: %%1937
          Mandatory Label:
                                          S-1-16-12288
          Creator Process ID: 0x131c
          Creator Process Name: C:\Windows\System32\cont
          Process Command Line: "PowerShell.exe" -noni -
```



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

```
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
                                                      Q
  SELECT Message
  FROM apt29Host d
  INNER JOIN (
    SELECT a.ProcessGuid
    FROM apt29Host a
    INNER JOIN (
      SELECT ProcessGuid
      FROM apt29Host
      WHERE Channel = "Microsoft-Windows-Sysmon/Operationa
          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/Operationa
      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:
                                                      Q
  Network connection detected:
  RuleName: -
  UtcTime: 2020-05-02 02:58:46.099
  ProcessGuid: {47ab858c-e1e4-5eac-b803-000000000400}
  ProcessId: 2976
  Image: C:\Windows\System32\WindowsPowerShell\v1.0\powers
  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 NewProcessI
      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
  The Windows Filtering Platform has permitted a con [ c
  Application Information:
          Process ID:
                                 2976
          Application Name:
                                \device\harddiskvolume2\
  Network Information:
         Direction:
                                 Outbound
          Source Address:
                                10.0.1.4
          Source Port:
                                59846
         Destination Address: 192.168.0.5
         Destination Port:
                                        443
          Protocol:
  Filter Information:
          Filter Run-Time ID:
                                 68659
```



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