



```
Cyb3rWard0g commented on May 11, 2020

From PS Logs

systemdrawingdll = spark.sql(

""

SELECT EventID

FROM apt29Table

WHERE Channel != "Microsoft-Windows-Sysmon/Operational"

AND LOWER(Message) LIKE "%copyfromscreen%"

"")

systemdrawingdll.show(100,truncate = False, vertical = F
```



```
Cyb3rWard0g commented
                                     (Contributor) (Author) •••
on May 14, 2020
Telemetry showed powershell.exe executing CopyFromScreen from
System.Drawing.dll. The event was correlated to a parent alert for
Bypass User Account Control of control.exe spawning
powershell.exe.
Sysmon
  SELECT Payload
  FROM apt29Host f
  INNER JOIN (
      SELECT d.ProcessId, d.ParentProcessId
      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 = 4103
  AND LOWER(f.Payload) LIKE "%copyfromscreen%"
Results
                                                      ſŪ
  CommandInvocation(Start-Job): "Start-Job"
  ParameterBinding(Start-Job): name="Name"; value="Serechs
  ParameterBinding(Start-Job): name="ScriptBlock"; value="
          Write-Host "`nJobPID`n----`n$PID"
          while($true){
              $RandomFileName = [System.IO.Path]::GetRando
              $Filepath="$env:USERPROFILE\Downloads\$Rando
              Add-Type -AssemblyName System.Windows.Forms;
              Add-type -AssemblyName System.Drawing;
              $Screen = [System.Windows.Forms.SystemInform
              $Width = $Screen.Width;
              $Height = $Screen.Height;
              $Left = $Screen.Left;
              $Top = $Screen.Top;
              $bitmap = New-Object System.Drawing.Bitmap $
```



Cyb3rWard0g commented on May 14, 2020

Contributor Author

\$graphic = [System.Drawing.Graphics]::FromIr \$graphic.CopyFromScreen(\$Left, \$Top, 0, 0, \$

\$bitmap.Save(\$Filepath);
Start-Sleep -Seconds

Security Logs + PowerShell Logs

```
Q
SELECT Payload
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 = 4103
AND LOWER(f.Payload) LIKE "%copyfromscreen%"
```



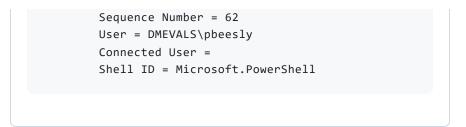
Cyb3rWard0g commented on May 14, 2020 7.A.2 Clipboard Data Procedure: Captured clipboard contents using PowerShell Criteria: powershell.exe executing Get-Clipboard Sysmon + PowerShell Logs SELECT Message FROM apt29Host f

```
INNER JOIN (
    SELECT d.ProcessId, d.ParentProcessId
    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/Operatio")
AND f.EventID = 4103
AND LOWER(f.Payload) LIKE "%get-clipboard%"
```

Results

```
CommandInvocation(Get-Clipboard): "Get-Clipboard"
Context:
        Severity = Informational
        Host Name = ConsoleHost
        Host Version = 5.1.18362.628
        Host ID = b802b425-c255-486e-81a2-6d10f7563af8
        Host Application = powershell.exe
        Engine Version = 5.1.18362.628
        Runspace ID = f703f141-62e0-4a88-967c-42505edb0c
        Pipeline ID = 21
        Command Name = Get-Clipboard
        Command Type = Cmdlet
        Script Name =
        Command Path =
        Sequence Number = 62
        User = DMEVALS\pbeesly
        Connected User =
        Shell ID = Microsoft.PowerShell
```

```
Security + 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"
      ) 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'
  ON LOWER(hex(f.ExecutionProcessID)) = e.NewProcessId
  WHERE f.Channel = "Microsoft-Windows-PowerShell/Operation"
  AND f.EventID = 4103
  AND LOWER(f.Payload) LIKE "%get-clipboard%"
Results
  CommandInvocation(Get-Clipboard): "Get-Clipboard"
  Context:
          Severity = Informational
          Host Name = ConsoleHost
          Host Version = 5.1.18362.628
          Host ID = b802b425-c255-486e-81a2-6d10f7563af8
          Host Application = powershell.exe
          Engine Version = 5.1.18362.628
          Runspace ID = f703f141-62e0-4a88-967c-42505edb0c
          Pipeline ID = 21
          Command Name = Get-Clipboard
          Command Type = Cmdlet
          Script Name =
          Command Path =
```





Cyb3rWard0g commented on May 14, 2020 Contributor

Contributor Author · · ·

7.A.3 Input Capture

Procedure: Captured user keystrokes using the GetAsyncKeyState API

Criteria: powershell.exe executing the GetAsyncKeyState API

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