

```
Q
  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/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 = 4103
  AND LOWER(f.Payload) LIKE "%copyfromscreen%"
Results
                                                                               Q
  CommandInvocation(Start-Job): "Start-Job"
  ParameterBinding(Start-Job): name="Name"; value="Screenshot"
  ParameterBinding(Start-Job): name="ScriptBlock"; value="
          Write-Host "`nJobPID`n----`n$PID"
          while($true){
              $RandomFileName = [System.IO.Path]::GetRandomFileName();
              $Filepath="$env:USERPROFILE\Downloads\$RandomFileName.bmp";
              Add-Type -AssemblyName System.Windows.Forms;
              Add-type -AssemblyName System.Drawing;
              $Screen = [System.Windows.Forms.SystemInformation]::VirtualScreen;
              $Width = $Screen.Width;
              $Height = $Screen.Height;
              $Left = $Screen.Left;
              $Top = $Screen.Top;
              $bitmap = New-Object System.Drawing.Bitmap $Width, $Height;
              $graphic = [System.Drawing.Graphics]::FromImage($bitmap);
              $graphic.CopyFromScreen($Left, $Top, 0, 0, $bitmap.Size);
              $bitmap.Save($Filepath);
              Start-Sleep -Seconds
```



```
Cyb3rWard0g commented on May 14, 2020
                                                              Contributor ( Author ) •••
Security Logs + PowerShell Logs
  SELECT Payload
                                                                                Q
  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'
) e

ON LOWER(hex(f.ExecutionProcessID)) = e.NewProcessId

WHERE f.Channel = "Microsoft-Windows-PowerShell/Operational"

AND f.EventID = 4103

AND LOWER(f.Payload) LIKE "%copyfromscreen%"
```



```
Cyb3rWard0g commented on May 14, 2020
                                                             Contributor (Author) •••
7.A.2 Clipboard Data
Procedure: Captured clipboard contents using PowerShell
Criteria: powershell.exe executing Get-Clipboard
Sysmon + PowerShell Logs
                                                                               Q
  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/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'
  ) e
  ON f.ExecutionProcessID = e.ProcessId
  WHERE f.Channel = "Microsoft-Windows-PowerShell/Operational"
  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-42505edb0ce4
          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/Operational"
  AND f.EventID = 4103
  AND LOWER(f.Payload) LIKE "%get-clipboard%"
Results
  CommandInvocation(Get-Clipboard): "Get-Clipboard"
                                                                               Q
  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-42505edb0ce4
          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
```



Cyb3rWard0g commented on May 14, 2020

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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