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Auditing & Monitoring TryHackMe Walkthrough



TL;DR Walkthrough of the <u>Auditing & Monitoring TryHackMe room</u>, part of the Security Engineer pathway.

A full list of our TryHackMe walkthroughs and cheatsheets is here.

Background

X

The Security Engineer pathway is new to TryHackMe. It's a good pathway overall so far, however it has really glazed over some details. This room is another example of that. Tasks 1 through 4 had typos and misspelled "organization" in the questions. Task 7 only mentioned Event Viewer for viewing and querying Windows logs and completely neglected to mention PowerShell.

Most of the room was simply Googling and finding the answers. I'll show how we queried to get the answers using the provided VMs in Tasks 6 and 7.

Let's get to it.

-- Task 1 --

What do you call the systematic review of an organization's technological infrastructure, policies and operations?

Auditing

What do you call the continuous observation of an organization's computer technologies and related resources?

Monitoring

-- Task 2 --

Which type of audit is conducted by independent auditors?

External audit

Which type of audit is conducted by an organization's own personnel?

Internal audit

— — Task 3 — -

What is the standard used by organization's that process card payments?

PCI DSS

Yes, "PCI DSS", not "PCI-DSS" as I have seen it written everywhere else. TryHackMe is wonky sometimes with the exact verbiage in their answers.

01/2025, 11:09 Who developed ITIL?	Auditing & Monitoring TryHackMe Walkthrough by Rich Medium		
-			
CCTA			
(British Government's Central Computer and Telecommunications Agency)			
Who developed COBIT?			
ISACA			
(Information Systems Audit &	c Control Association)		
— — Task 4 — -			
Which step do we present ou issues noted?	r findings about non-conformities, weaknesses and		
4			
At which stage does an organ for proper and satisfactory in	isation review the steps based on recommendations nplementation?		
5			
At which stage do the auditor	rs establish the audit scope and define its objectives?		
1			
— — Task 5 — -			
Check the Intro to Logs room	for more detailed logging coverage.		
No answer needed			
— — Task 6 — -			

ssh maxine@10.10.58.255

Connect to the VM:

Password = AuditMe!

Using aureport, how many failed logins have occurred so far?

```
sudo aureport --failed
```

263

Using ausearch, how many failed logins are related to the username mike?

```
sudo ausearch --message USER_LOGIN --success no --interpret | grep acct=mike |
```

4

Using ausearch, how many failed logins are related to the username root?

```
sudo ausearch --message USER_LOGIN --success no --interpret | grep acct=root |

◆
```

227

```
[maxine@ip-10-10-58-255 ~]$ sudo aureport -- failed
Failed Summary Report
Range of time in logs: 06/08/2023 12:18:12.635 - 05/26/2024 03:36:01.972
Selected time for report: 06/08/2023 12:18:12 - 05/26/2024 03:36:01.972
Number of changes in configuration: 0
Number of changes to accounts, groups, or roles: 6
Number of logins: 0
Number of failed logins: 263
Number of authentications: 0
Number of failed authentications: 1537
Number of users: 4
Number of terminals: 9
Number of host names: 6
Number of executables: 19
Number of commands: 17
Number of files: 119
Number of AVC's: 20
Number of MAC events: 0
Number of failed syscalls: 299
Number of anomaly events: 0
Number of responses to anomaly events: 0
Number of crypto events: 0
Number of integrity events: 0
Number of virt events: 0
Number of keys: 6
Number of process IDs: 386
Number of events: 2137
[maxine@ip-10-10-58-255 ~]$ sudo ausearch --message USER_LOGIN --success no --interpret | grep acct=mike | wc -l
[maxine@ip-10-10-58-255 ~]$ sudo ausearch --message USER_LOGIN --success no --interpret | grep acct=root | wc -l
[maxine@ip-10-10-58-255 ~]$
```

— — Task 7 — -

Connect to the VM:

```
xfreerdp /v:10.10.173.144 /u:dawn /p:AuditMe! /dynamic-resolution
```

What is the event ID for a failed login attempt?

4625

How many failed login attempts do you have under the security events?

```
(Get-EventLog -LogName Security -InstanceId 4625).Count
```

2

How many failed login attempts took place in 2021?

(Get-EventLog -LogName Security -InstanceId 4625 | Where-Object {\$_.TimeGenerat

1

Alt method to answer both questions with one query:

```
Get-EventLog -LogName Security -InstanceId 4625 | Select-Object TimeGenerated

◆
```

-- Task 8 --

Ensure you have read and taken note of the difference between logging and monitoring.

No answer needed

- Task 9 - -

Consider joining one of the recommended information for an in-depth exploration of a SIEM.

No answer needed

-- Task 10 --

Ensure you have noted the main concepts presented in this room.

No answer needed

Summary

We wrote howtos on configuring logging in Windows here, here, and here.

We went over how to query logs and some things to look for <u>here</u>.

TryHackMe has a really good room on logs in the Cyber Defense Pathway called 'Windows Event Logs'. We wrote a walkthrough of it <u>here</u>.

This room really just skims over logging, so I would highly recommend looking at other sources as well. I am also a big fan of PowerShell for this stuff as querying in Event Viewer quickly becomes unworkable as logs get larger.

References

Get-WinEvent vs Get-EventLog:

https://www.reddit.com/r/PowerShell/comments/69kbkd/getwinevent_vs_geteventlog_performance/

Get events between two dates:

https://www.reddit.com/r/PowerShell/comments/16obstu/how_can_i_output_event_viewer_data_of_a_specific/

Tryhackme Walkthrough Tryhackme Writeup Windows Logs



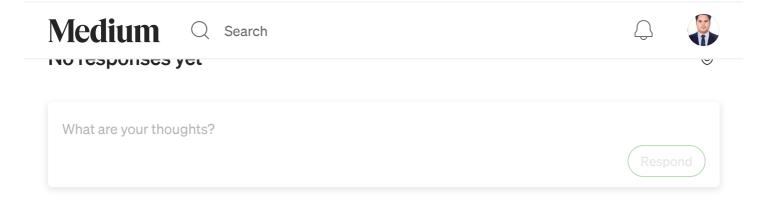
Linux Log



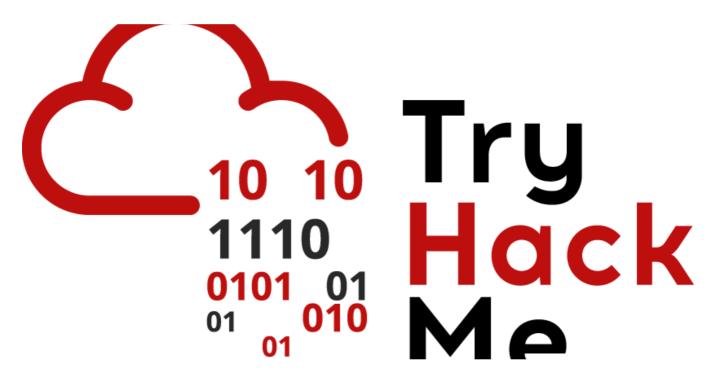
Written by Rich

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I work various IT jobs & like Windows domain security as a hobby. Most of what's here is my notes from auditing or the lab.



More from Rich





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Dec 17, 2024 •••





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TL;DR walkthrough of the TryHackMe Tempest room.

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Image: Control of the control of the



them to hack us!

IVIIIIIINalZ





Mimikatz Cheatsheet

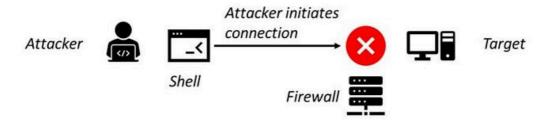
TL;DR Mimikatz cheatsheet of things I have found useful in CRTP and the lab.

Aug 26, 2022



 \Box

Without Reverse Shell



With Reverse Shell





Windows Reverse Shells Cheatsheet

TL;DR Combination walkthrough of THM Weaponization under the Red Team Pathway & general cheatsheet of reverse shells from Windows to Kali

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, 		See all from Rich		

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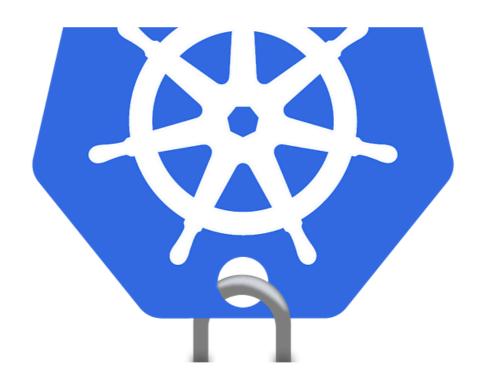




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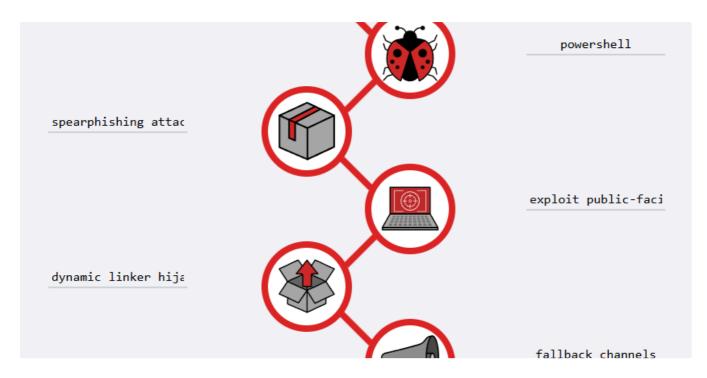




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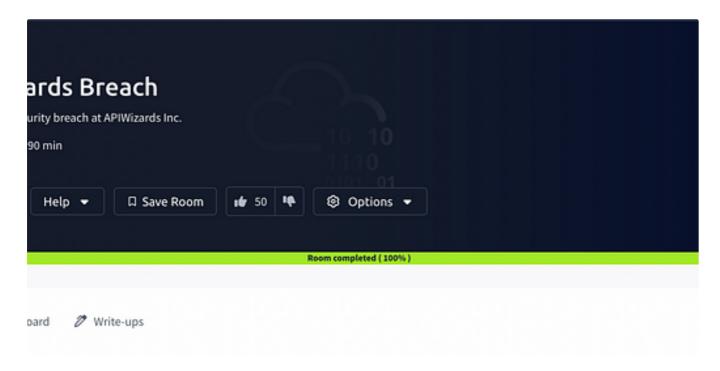


Jasper Alblas

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