Critical-Tryhackme Writeup

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Acquire the basic skills to analyze a memory dump in a practical scenario.

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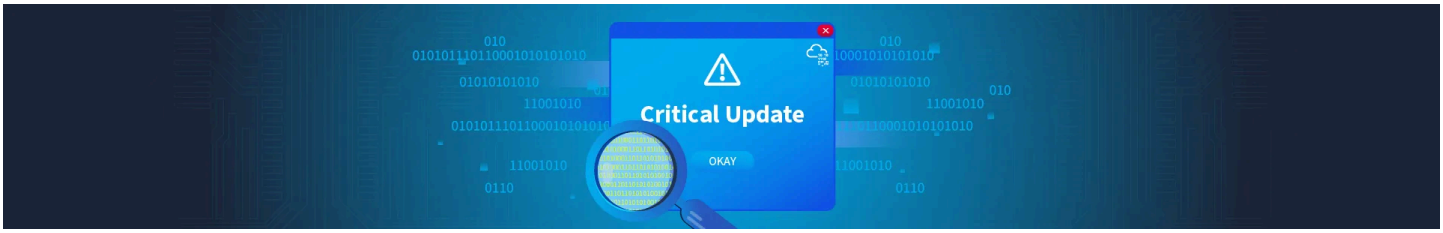

Link to the room https://tryhackme.com/r/room/critical

Task 1:Introduction

In this room, we'll learn how to extract essential information and artifacts when performing a memory forensic task in a compromised machine using the Windows OS. First, we'll learn basic memory forensics concepts before setting up our working environment. Next, we'll learn how to get basic information about the compromised target and how to search for suspicious activity. Finally, we will extract interesting data that may help us identify potential malicious actors.

Task 2:Memory Forensics

> *What type of memory is analyzed during a forensic memory task?*

Ans: RAM

> *In which phase will you create a memory dump of the target system?*

Ans: Memory Acquisition

Task 3:Environment & Setup

> *Which plugin can help us to get information about the OS running on the target machine?*

Ans: Windows.info

> *Which tool referenced above can help us take a memory dump on a Linux OS?*

Ans: LIME

> *Which command will display the help menu using Volatility on the target machine?*

Ans: vol -h

Task 4:Gathering Target Information

> *Is the architecture of the machine x64 (64bit) Y/N?*

Ans: y

> *What is the Verison of the Windows OS*

Ans: 10

> *What is the base address of the kernel?*

Ans: 0xf8066161b000

Task 5:Searching for Suspicious Activity

> *Using the plugin “windows.netscan” can you identify the IP address that establish a connection on port 80?*

Ans: 192.168.182.128

grep 80 along with cmd

> *Using the plugin "windows.netscan," can you identify the program (owner) used to access through port 80?*

Ans: msedge.exe

> *Analyzing the process present on the dump, what is the PID of the child process of critical_updat?*

Ans: 1612

grep for 1648 (pid of critical_updat)

> *What is the time stamp time for the process with the truncated name critical_updat?*

Ans: 2024–02–24 22:51:50.000000

Task 6:Finding Interesting Data

> *Analyzing the "windows.filescan" output, what is the full path and name for critical_updat?*

Ans: C:\Users\user01\Documents\critical_update.exe

> *Analyzing the "windows.mftscan.MFTScan" what is the Timestamp for the created date of important_document.pdf?*

Ans: 2024–02–24 20:39:42.000000

> *Analyzing the updater.exe memory output, can you observe the HTTP request and determine the server used by the attacker?*

Ans: SimpleHTTP/0.6 Python/3.10.4

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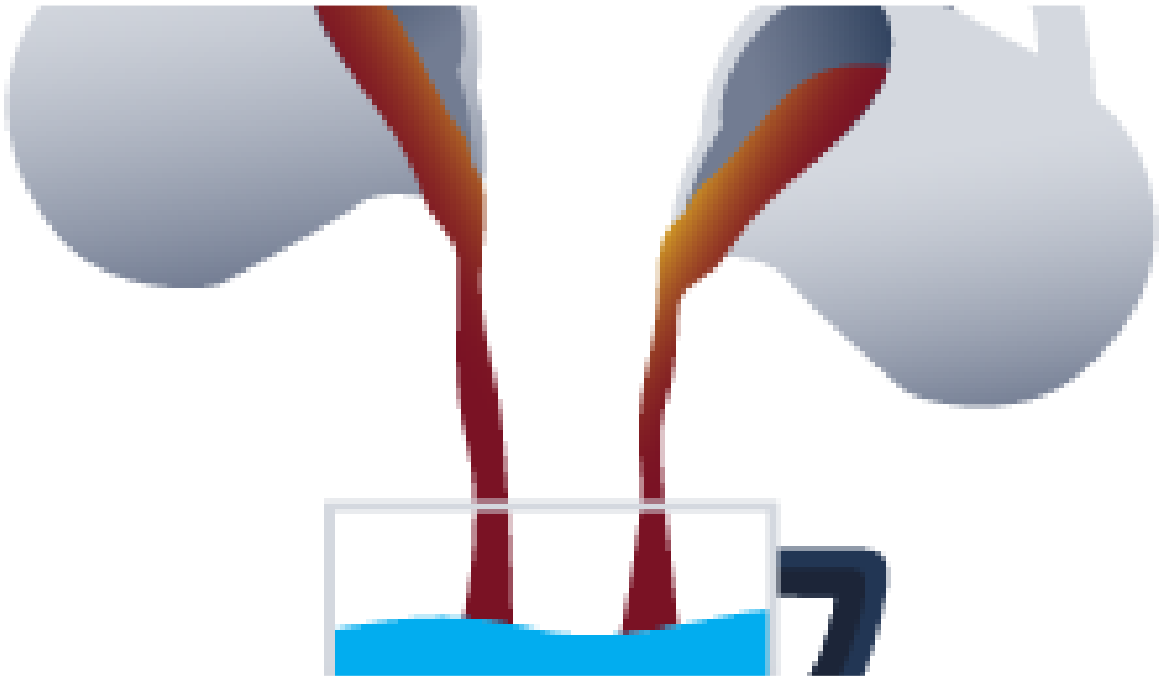

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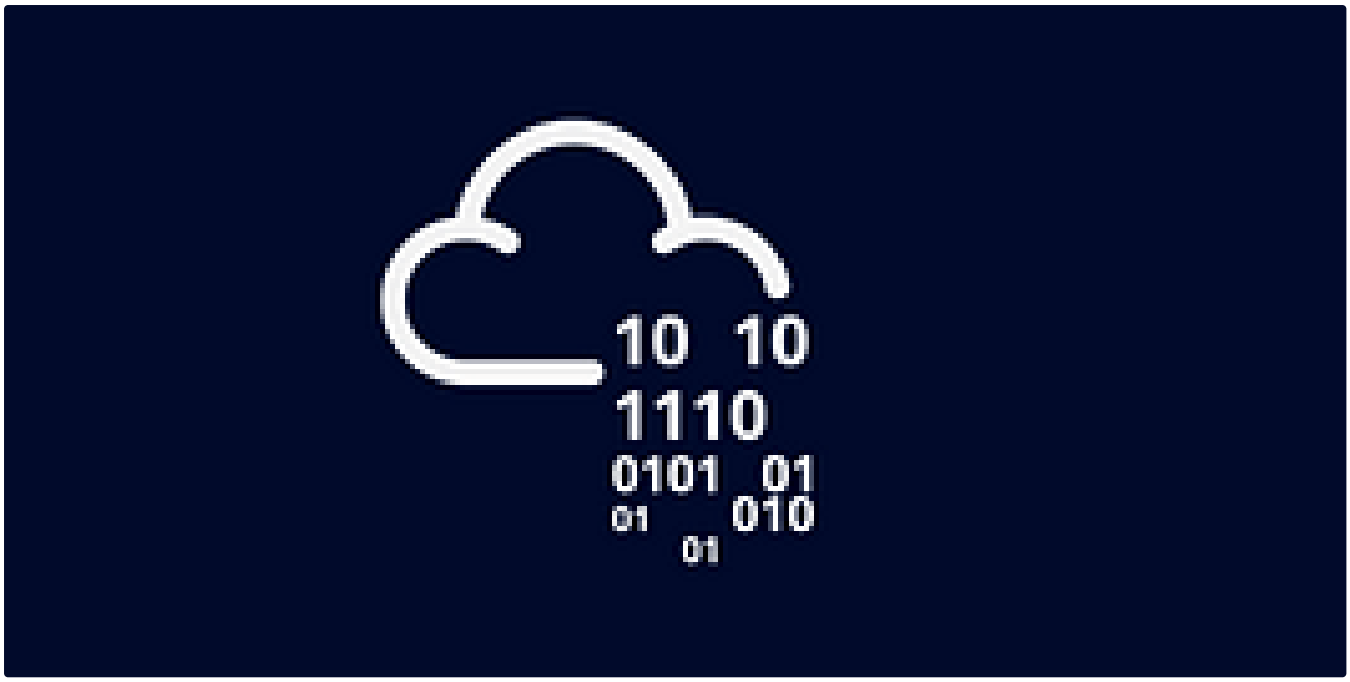

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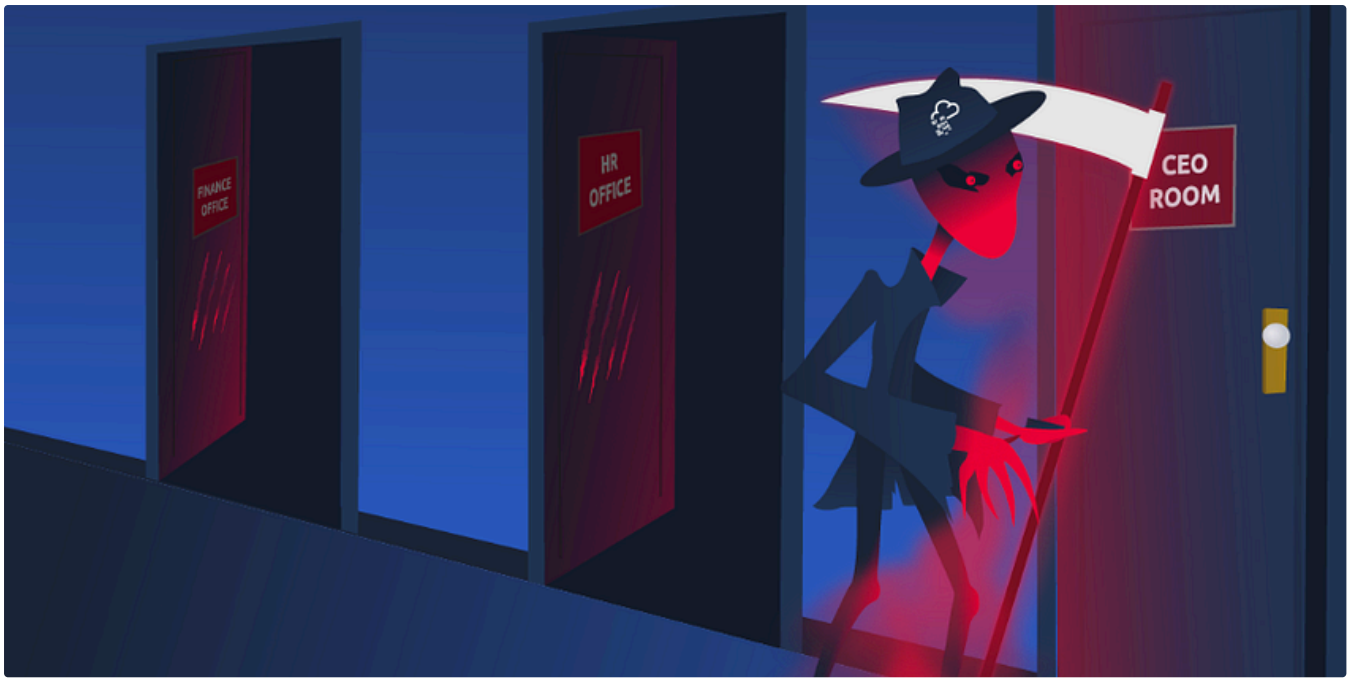

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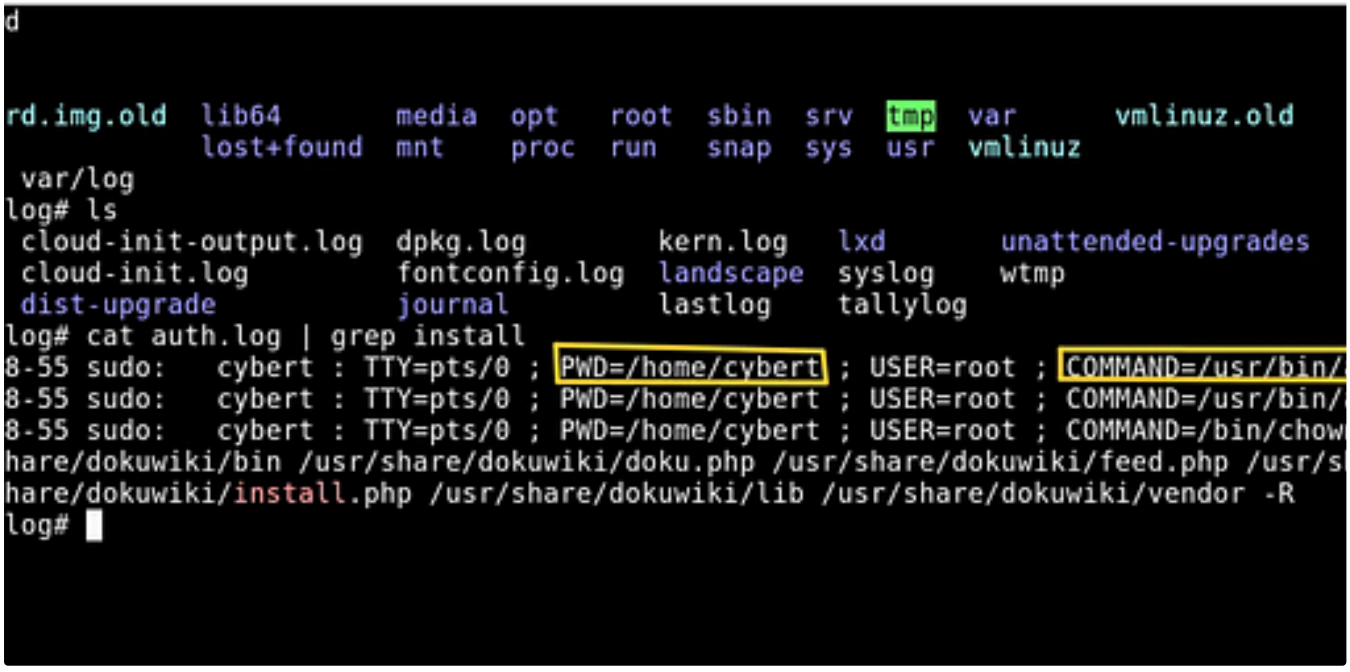

Dan Molina

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This is a great CTF on TryHackMe that can be accessed through this link here: https://tryhackme.com/room/disgruntled

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