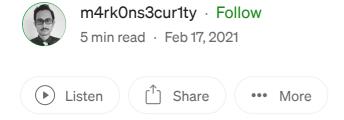
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Investigating Windows [TryHackMe]



Lab Link: https://tryhackme.com/room/investigatingwindows
Answer Cheatsheet:

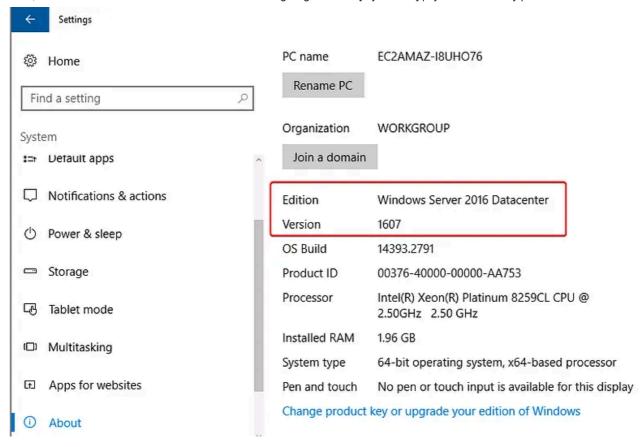
https://github.com/m4rk0ns3cur1ty/Walkthrough/blob/main/TryHackMe/investigating_windows.md



Task: Investigating a windows machine that has been previously compromised.

At Windows system, Basic information like **Windows Version**, **OS Build**, Installed Hardware Information etc. can be found from the **Windows Settings > System > About** or Type "**systeminfo**" on Command Prompt.

X



Basic Information of Windows OS

Challenge Question: Whats the version and year of the windows machine?

Answer: Windows Server 2016

Windows Event Logs is a comprehensive record of the windows system and it's applications. A windows log contains the source of the log, date and time, user details, Event ID etc.

Event logs can be viewed by "Event Viewer" comes preinstalled with Windows OS.

Event logs are mainly three types -

Application: Contains the logs occurs by an application.

Security: Contains the logs regarding any security events like Login, Logoff etc.

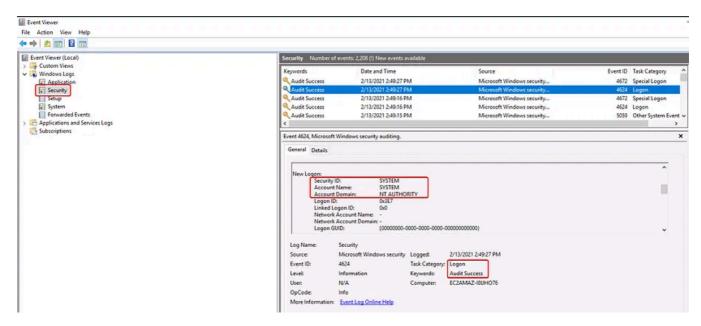
System: Contains the logs generated by Operating system itself. Example: Failure of

a driver.

Last logged in user details & timestamp related logged in can be found under the **Event Viewer > Security** section. Then use Event ID:4624 as a filter to sort the logged in related logs. And use Event ID:4672 for timestamp related information about Special privileged assigned to a new logon.

Event ID 4624: An account was successfully logged in

Event ID 4672: Special privileges assigned to new logon



Event Logs regarding Successful Logged In.

Challenge Question: Which user logged in last?

Answer: Administrator

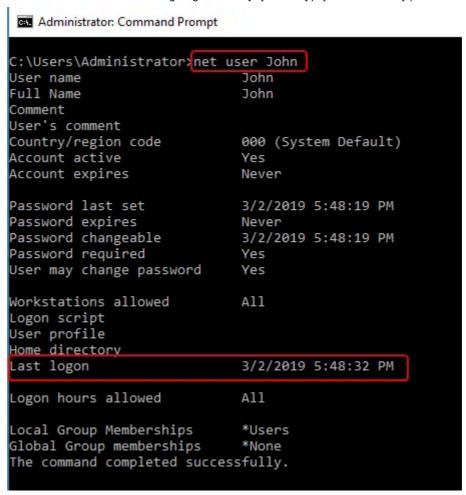
Challenge Question: At what time did Windows first assign special privileges to a

new logon?

Answer: 03/02/2019 4:04:49 PM

To know about a user information like **Last logged on**, **Local or Global group**, **password related information** etc., we can use "**net user**" command with the username from the command prompt. Only "**net user**" command helps us to know about the available users of the system.

net user John



Last Logon information of user John

Challenge Question: When did John log onto the system last?

Answer: 03/02/2019 5:48:32 PM

Challenge Question: What two accounts had administrative privileges (other than

the Administrator user)?

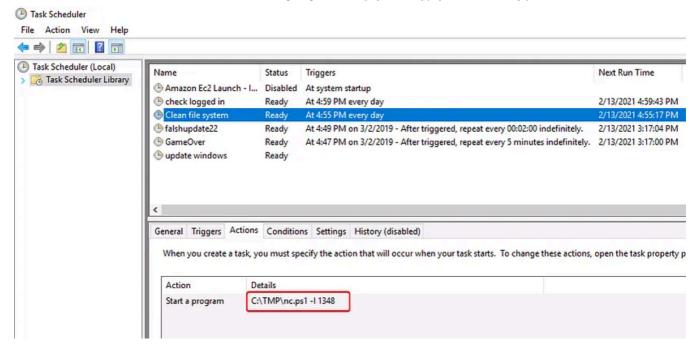
Answer: Jenny, Guest

Challenge Question: When did Jenny last logon?

Answer: Never

Windows Task Scheduler is a inbuilt tool that enables you to create and execute a automatically schedule any task on your system. Most of the time malware use this features to do it's bad things on your system.

To know about the active scheduled task on system. Launch **Task Scheduler > Task Scheduler Library**. By clicking on a scheduled task from the list you will able to see more details about the scheduled task like created **timestamp** of the task, **action** or related commands of the task etc.



Windows Task Scheduler

Challenge Question: Whats the name of the scheduled task that is malicious.

Answer: Clean file system

Challenge Question: What file was the task trying to run daily?

Answer: nc.ps1

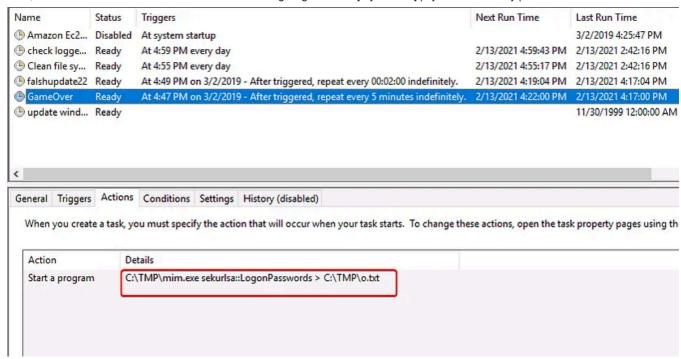
Challenge Question: What port did this file listen locally for?

Answer: 1348

Challenge Question: At what date did the compromise take place?

Answer: 03/02/2019

There is a question on lab i.e. What tool was used to get Windows passwords?. To answer this question, I investigate the automated task from Task Scheduler. I noticed there is a task called "GameOver" under the action tab I saw there is a executable called "mim.exe" located at TMP directory of the system it triggered every 5 min and save the output at o.txt file located at same directory. When I investigate that text file (o.txt) I saw "mimikatz" tool is used for capturing windows password.



Evidence related to Mimikatz

Challenge Question: What tool was used to get Windows passwords?

Answer: Mimikatz

Windows registry is a type of database that contains information & settings regarding installed software and hardware of a system. "**Registry Editor**" is used to view this registry information from your system.

HKEY_CLASSES_ROOT: Contain the file type, extension etc. related information.

HKEY_CURRENT_USER: Contain settings of a logged in users.

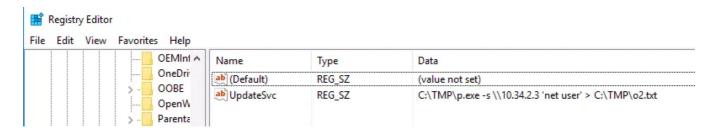
HKEY_LOCAL_MACHINE: Contain information about installed hardware, software and their related settings.

HKEY_USERS: Contain information about the all users present on the system.

HKEY_CURRENT_CONFIG: Contains the Hardware profile

$HKEY_LOCAL_MACHINE \backslash Software \backslash Microsoft \backslash Windows \backslash Current Version \backslash Run$

This registry key can control the programs to run each time that a user logged on. This key is also used by malware to become persistence on the system.



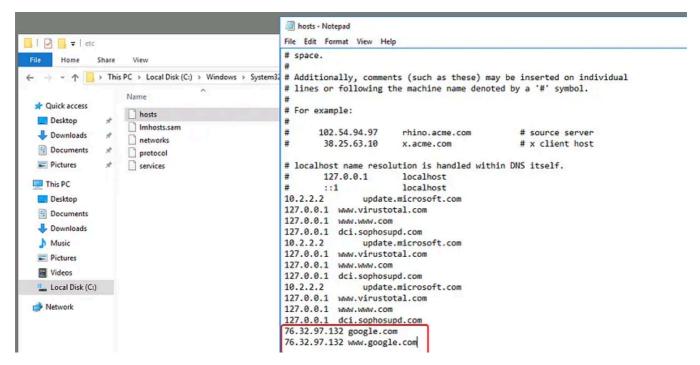
Startup Command in Registry Key

Challenge Question: What IP does the system connect to when it first starts?

Answer: 10.34.2.3

Windows **hosts** file is used for maps the server or hostname to IP addresses.

In windows the location of the hosts file is C:\Windows\System32\drivers\etc\hosts



Windows Hosts file

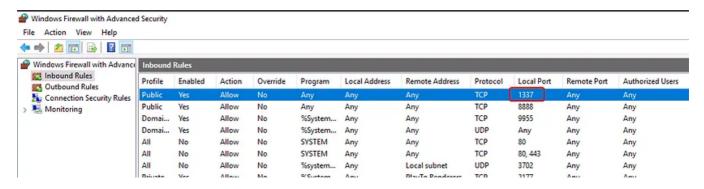
Challenge Question: What was the attackers external control and command servers IP?

Answer: 76.32.97.132

Challenge Question: Check for DNS poisoning, what site was targeted?

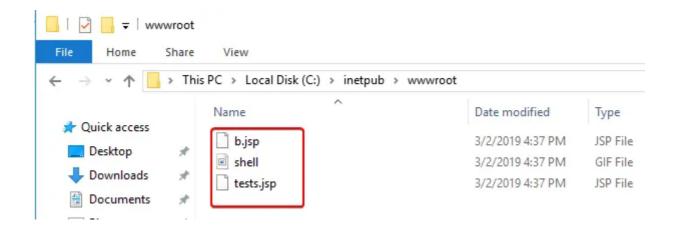
Answer: google.com

Windows firewall's **Inbound Rules** defend the network against the incoming traffic. It is always helpful to save your system from malware or DDOS related attacks. It also contains the details of the **port** and **address** of the local and remote server.



Windows Firewall Inbound Traffic Rules

Microsoft uses IIS (Internet Informaion Services) as a default web server on the Windows. **inetpub** is the default folder situated under C:\inetpub. It contains the webserver's content. **wwwroot** is a subfolder placed under the inetpub (C:\inetpub\wwwroot) holds all the content like of a webpages.



Challenge Question: What was the extension name of the shell uploaded via the servers website?

Answer: .jsp

That's all!!







Written by m4rk0ns3cur1ty

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What are your thoughts?

Respond

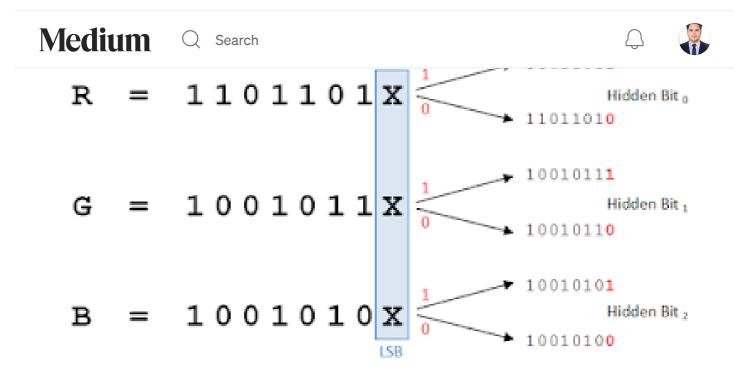


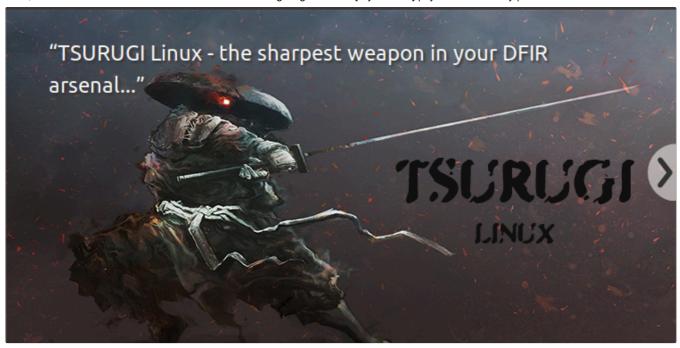


Image Challenges -1 [Cats are innocent, right?]

This challenge is taken from Codefest'19 CTF. It is a steganography challenge based on LSB (Least Significant Bit) Steganography.

Aug 29, 2019 *** 8







Tsurugi Linux- A Short Review

Tsurugi Linux- A Open Source Project for Digital Forensics and Incident Response purposes.

Nov 27, 2018 **№** 115 **Q** 1 ...

```
root@kali: ~
View Search Terminal Help
~# arp-scan -l
 eth0, datalink type: EN10MB (Ethernet)
arp-scan 1.9.5 with 256 hosts (https://github.com/royhills/arp
      00:50:56:c0:00:08
                               VMware, Inc.
9.1
                               VMware, Inc.
9.2
      00:50:56:f5:99:22
9.129 00:0c:29:7a:d8:bd
                               VMware, Inc.
9.254 00:50:56:f9:11:64
                               VMware, Inc.
received by filter, 0 packets dropped by kernel
p-scan 1.9.5: 256 hosts scanned in 2.041 seconds (125.43 hosts)
```



Jul 25, 2019 3 26

Symfonos: 1 Walkthrough [VulnHub]

Download Link- https://www.vulnhub.com/entry/symfonos-1,322/ Difficulty: Beginner

See all from m4rk0ns3cur1ty

Recommended from Medium

 \Box

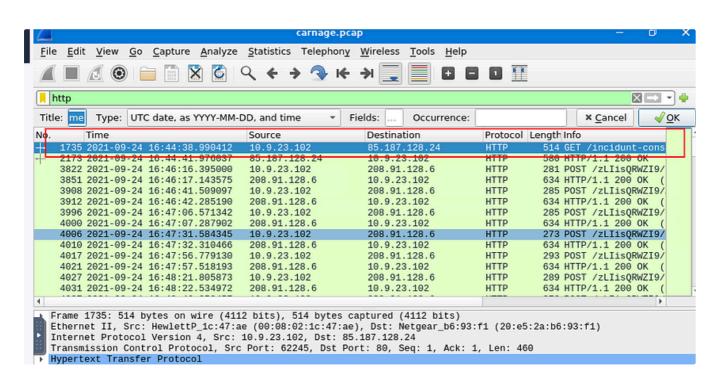
```
vmlinuz.old
rd.img.old
            lib64
                                                        tmp
                        media
                                opt
                                      root
                                            sbin
                                                   srv
                                                             var
            lost+found
                        mnt
                                            snap
                                                             vmlinuz
                                proc
                                      run
                                                        usr
var/log
log# ls
cloud-init-output.log
                        dpkg.log
                                         kern.log
                                                     lxd
                                                               unattended-upgrades
cloud-init.log
                         fontconfig.log
                                         landscape
                                                    syslog
                                                               wtmp
dist-upgrade
                        journal
                                         lastlog
                                                     tallylog
log# cat auth.log | grep install
                                  PWD=/home/cybert ; USER=root ; COMMAND=/usr/bin/
8-55 sudo:
             cybert : TTY=pts/θ ;
8-55 sudo:
             cybert : TTY=pts/0 ; PWD=/home/cybert ; USER=root ; COMMAND=/usr/bin/
             cybert : TTY=pts/0 ; PWD=/home/cybert ; USER=root ; COMMAND=/bin/chow
8-55 sudo:
hare/dokuwiki/bin /usr/share/dokuwiki/doku.php /usr/share/dokuwiki/feed.php /usr/s
hare/dokuwiki/install.php /usr/share/dokuwiki/lib /usr/share/dokuwiki/vendor -R
log#
```

Dan Molina

Disgruntled CTF Walkthrough

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

Oct 22, 2024 ----





[TryHackMe Write-up] Carnage

Apply your analytical skills to analyze the malicious network traffic using Wireshark.

Aug 17, 2024 👋 50



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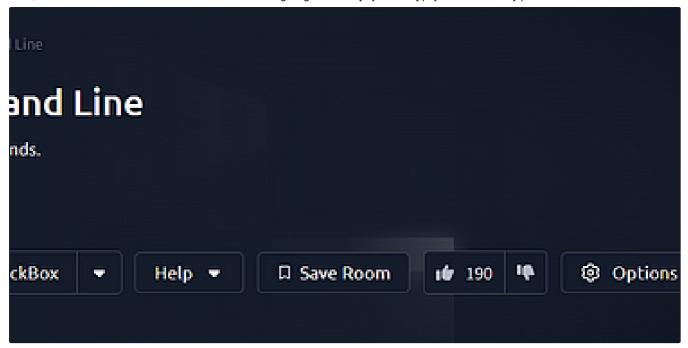
Windows Fundamentals 1—Complete Beginner—Windows Exploitation Basics—TryHackMe Walkthrough

In part 1 of the Windows Fundamentals module, we'll start our journey learning about the Windows desktop, the NTFS file system, UAC, the...

Oct 23, 2024



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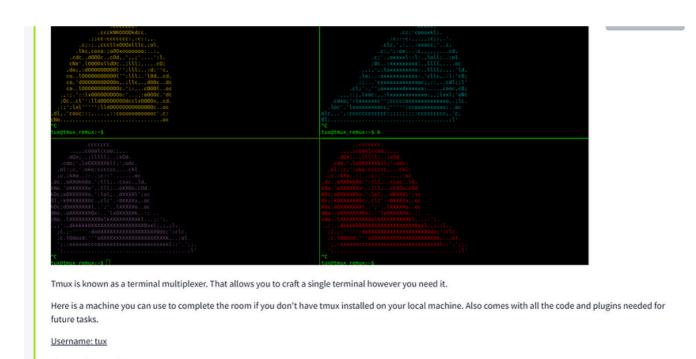




Windows Command Line

Windows Command Line

Oct 27, 2024 *** 30



Daniel Schwarzentraub

Tryhackme Free Walk-through Room: REmux The Tmux

Tryhackme Free Walk-through Room: REmux The Tmux

Nov 10, 2024 W 1

 Image: Control of the control of the





Writeup > LetsDefend: Adobe ColdFusion RCE

Scenario: Our ERD software was triggered, alerted, and isolated a web server for suspicious use of the "nltest.exe" command. Investigate...

Nov 14, 2024

See more recommendations