

Skills Assessment - Suricata

Suricata Rule Development Exercise: Detecting WMI Execution (Through WMIExec)

PCAP source: <https://github.com/elcabezonn/Pcaps>

Attack description and possible detection points: <https://labs.withsecure.com/publications/attack-detection-fundamentals-discovery-and-lateral-movement-lab-5>

Windows Management Instrumentation (WMI) is a powerful feature in the Windows operating system that allows for management tasks, such as the execution of code or management of devices, both locally and remotely. As you might expect, this can be a very enticing tool for attackers who are seeking to execute malicious activities remotely.

To detect WMI execution (through wmiexec) over the network, we need to focus on the SMB (Server Message Block) and DCOM (Distributed Component Object Model) protocols, which are the primary means by which remote WMI execution is accomplished.

One method an attacker might use is to create a Win32_Process via the WMI service. In this instance, the attacker would create an instance of Win32_ProcessStartup, set its properties to control the environment of the new process, then call the Create method to start a new process such as cmd.exe or powershell.exe.

Review the previously referenced resource that discusses the network traces resulting from WMI execution, and then proceed to address the following question.

VPN Servers

Warning: Each time you "Switch", your connection keys are regenerated and you must re-download your VPN connection file.

All VM instances associated with the old VPN Server will be terminated when switching to a new VPN server.

Existing PwnBox instances will automatically switch to the new VPN server.

US Academy 3

Medium Load

PROTOCOL

☒ UDP 1337 ☐ TCP 443

DOWNLOAD VPN CONNECTION FILE



Connect to Pwnbox

Your own web-based Parrot Linux instance to play our labs.

Pwnbox Location

UK

160ms

Terminate Pwnbox to switch location

Go to Questions

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Snort Rule Development



Zeek

Zeek Fundamentals



Intrusion Detection With Zeek



Skills Assessment

Skills Assessment - Suricata



Skills Assessment - Snort



Skills Assessment - Zeek



My Workstation

OFFLINE

Start Instance

1 / 1 spawns left

Start Instance

∞ / 1 spawns left

Waiting to start...

☐ Enable step-by-step solutions for all questions ⓘ ✨

Questions

Answer the question(s) below to complete this Section and earn cubes!



Download VPN
Connection File

Target(s): [Click here to spawn the target system!](#)

SSH to with user **"htb-student"** and password **"HTB_@cademy_stdnt!"**

+ 3 📦 There is a file named pipekatposhc2.pcap in the /home/htb-student/pcaps directory, which contains network traffic related to WMI execution. Add yet another content keyword right after the msg part of the rule with sid 2024233 within the local.rules file so that an alert is triggered and enter the specified payload as your answer.

Answer format: C___e

Create

Submit

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✔ Mark Complete & Next

