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Skills Assessment - Suricata

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

PCAP source: https://github.com/elcabezzonn/Pcaps

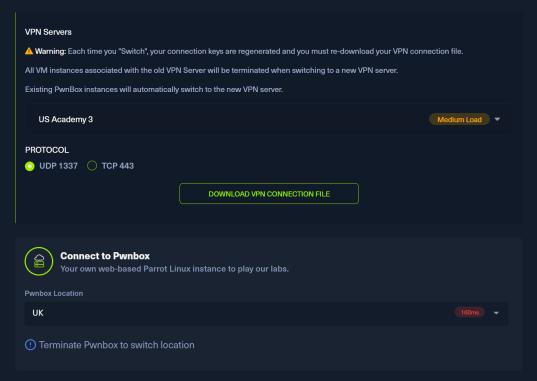
Attack description and possible detection points: https://labs.withsecure.com/publications/attack-detection-fundamentals-discovery-and-lateral-movement-lab-5

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.

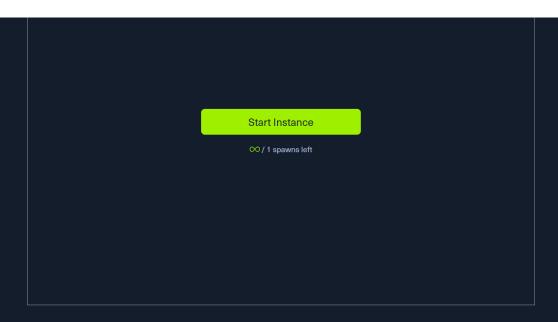
To detect WMI execution (through wmiexec) over the network, we need to focus on the SMB (Server Message Block) and DCOM (Distributed Component Object Model) protocols, which are the primary means by which remote WMI execution is accomplished.

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.



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