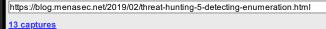
MENASEC - Applied Security Research: Threat Hunting #5 - Detecting enumeration of users via Net.exe or Net1.exe utility - 31/10/2024 15:44 https://web.archive.org/web/20230329163438/https://blog.menasec.net/2019/02/threathunting-5-detecting-enumeration.html

We're continuing to fight for universal access to quality information—and you can help as we continue to make improvements. Will you chip in?

NOV Go







Applied Security Research

Home About us

Wednesday, 6 February 2019

Threat Hunting #5 - Detecting enumeration of users via Net.exe or Netl.exe utility

Detecting an attacker during the reconnaissance phase is very important, because if he\she is at this stage, it means she\he already bypassed all your peripheral and endpoint standard security solutions. If you can detect and stop him at this stage then good for you!

Microsoft Net.exe utility can be used to enumerate local and domain users and groups [a must to do for any attacker trying to get answers for who/where/what/etc. to complete the objectives].

Famous detection techniques for users enumeration with the net.exe utility are limited to processes's command line value and process name verification (i.e. process_name:net.exe and/or commandLine:.*net.*users.*). which is a vulnerable/weak detection and can be bypassed by simply renaming the process name or introducing special obfuscation characters in the command line (i.e. ^, set x, environment variables etc.)

In this post we will be using event ID 4661 to detect enumeration attempts of known privileged AD accounts/groups:

- Enterprise Admins
- Domain Admins
- Administrators group
- Administrator

Below an example of "Domain Admins" group enumeration:



You will need to enable this event on all your domain controllers (expected target for any domain user enumeration). Note that this method can also detect user enumeration with other utilities/tools.

Detection Logic:

Look for event 4661 with Messgae body containing known AD privileged groups/accounts SID values. Example of IBM Qradar

select "SourceUserName", "ObjectType", "ObjectName" from events where "EventID"=4661 and not (SourceUserName IMATCHES '.*\\$') and (UTF8(payload) IMATCHES '.*\\$-1-5-21-.*-(512|502|500|505|519|520|544|551|555).*') last 180 DAYS

References:

Blog Archive

- **2022 (2)**
- **2020 (4)**
- **2019 (39)**
- ► November (2)
- ► April (3)
- ▶ March (7)
- ▼ February (26)

Threat Hunting #23 - Microsoft Windows DNS Server ...

Threat Hunting #18 - Run/RunOnce - Shell-Core

Threat Hunting #15 - Detecting Doc with Macro invo...

Threat Hunting #13 - Detecting CACTUSTORCH using S...

Suspicious strings in Regist...

MENASEC - Applied Security Research: Threat Hunting #5 - Detecting enumeration of users via Net.exe or Net1.exe utility - 31/10/2024 15:44 https://web.archive.org/web/20230329163438/https://blog.menasec.net/2019/02/threat-hunting-5-detecting-enumeration.html

