程外代写代数 世编毕辅导

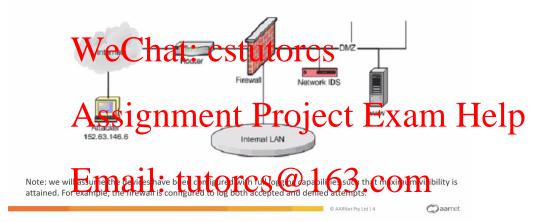
Security Engineering Masterclass

SIEM:

In SIEM systems, we rinformation from logs from all sorts of place:



logs, so knowing how to read and interpret ne below image, it shows that possible logs can come firewall etc.



Consider this log from the router, what is it saying? 749389476

independent analysis https://tutorcs.com

What can we observe with the below Router Logs (Cisco):

May 31 09:27:44 router.company.com 1410875: May 31 09:27:43: %SEC-6-IPACCESSLOGP: list from-internet denied tcp 152.63.146.6(1459) -> xxx.yyy.zzz.1(80), 1 packet

May 31 09:27:50 router.company.com 1410880: May 31 09:27:50: %SEC-6-IPACCESSLOGP: list from-internet denied tcp 152.63.146.6(1673) -> xxx.yyy.zzz.2(80), 1 packet

May 31 09:27:54 router.company.com 1410883: May 31 09:27:53: %SEC-6-IPACCESSLOGP: list from-internet denied tcp 152.63.146.6(1750) -> xxx.yyy.zzz.3 (80), 1 packet

May 31 09:27:57 router.company.com 1410885: May 31 09:27:56: %SEC-6-IPACCESSLOGP: list from-internet denied tcp 152.63.146.6(1722) -> xxxx.yyy.zzz.5(80), 1 packet

May 31 09:27:58 router.company.com 1410886: May 31 09:27:57: %SEC-6-IPACCESSLOGP: list from-internet denied tcp 152.63.146.6(1930) -> xxxx.yyy.zzz.6(80), 1 packet

May 31 09:28:01 router.company.com 1410888: May 31 09:28:00: %SEC-6-IPACCESSLOGP: list from-internet denied tcp 152.63.146.6(1976) -> xxxx.yyy.zzz.7(80), 1 packet

May 31 09:28:05 router.company.com 1410891: May 31 09:28:04: %SEC-6-IPACCESSLOGP: list from-internet denied to 152.63.146.6(2167) -> xxxx.yyy.zzz.8(80), 1 packet

<data pruned>

- Router access control lists have been configured to allow inbound TCP port 80 traffic with ephemeral source ports to xxx.yyy.zzz.4 because this is our company web server.
- Can we answer the Five 'W's (Who, What, When, Where, Why)

- Who: 152.63.146.6. But no user attached to IP.
- What: Broad scanning of xxx.yyy.zzz.0/24
- When: May 31 <time>
- Where: DMZ company
- Why: brute forcing ip addr



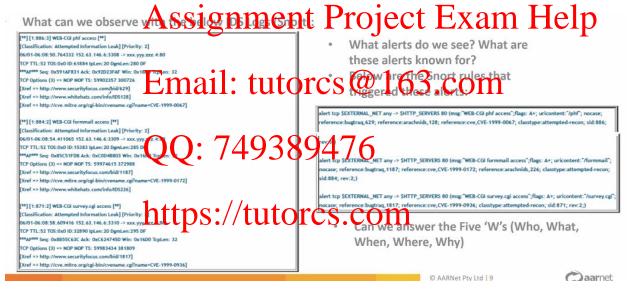
- Who: 152.63.14

- What: Attempt scripts.

- Where: DMZ company trying to gain access still.

- Why: Research shows that phf, formmail and survey.cgi are all exploitable scripts.

Attempts malicious activity because if accessed, these scripts would allow remote execution. The access in isolation is a pool novel of the red team because it flags it as malicious activity.



- Who: 152.63.146.6

- What: Attempt to leak info about the vulnerable scripts.
- Where: DMZ company trying to gain access still.
- Why: Attempting to leak information from the scripts to exploit them.

Note: Parsing the logs (which are in different format) is required in order to stitch together this information.

Limitations of single device analysis:

- False positives,
- Incomplete info
- Missing the 'why'
- Miss lateral movement or other activities (e.g. exfiltation)

Summary:

- Analysing single devices is the computerised version of tunnel vision.
- Security events should be analysed from as many sources as possible.

- Security Awareness of an environment can be attained by listening to what its devices are saying. 程序代写代做 CS编程辅导



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