NIST CSF 2.0-DE.CM-01-Ex2

DETECT (DE): Possible cybersecurity attacks and compromises are found and analyzed Continuous Monitoring (DE.CM)

Assets are monitored to find anomalies, indicators of compromise, and other potentially adverse events DE.CM-01

Networks and network services are monitored to find potentially adverse events

Ex2

Monitor wired and wireless networks for connections from unauthorized endpoints

Compliance Framework References:

CCMv4.0: IVS-03

CCMv4.0: IVS-09

CCMv4.0: LOG-01

CCMv4.0: LOG-03

CCMv4.0: LOG-05

CCMv4.0: LOG-08

CCMv4.0: TVM-02

CCMv4.0: TVM-10

CCMv4.0: UEM-10

CIS Controls v8.0: 13.1

CRI Profile v2.0: DE.CM-01

CRI Profile v2.0: DE.CM-01.01

CRI Profile v2.0: DE.CM-01.02

CRI Profile v2.0: DE.CM-01.03

CRI Profile v2.0: DE.CM-01.04

CRI Profile v2.0: DE.CM-01.05

CRI Profile v2.0: DE.CM-01.06

CSF v1.1: DE.CM-1

CSF v1.1: DE.CM-4

CSF v1.1: DE.CM-5

CSF v1.1: DE.CM-7

SP 800-53 Rev 5.1.1: AC-02

SP 800-53 Rev 5.1.1: AU-12

SP 800-53 Rev 5.1.1: CA-07

SP 800-53 Rev 5.1.1: CM-03

SP 800-53 Rev 5.1.1: SC-05

SP 800-53 Rev 5.1.1: SC-07

SP 800-53 Rev 5.1.1: SI-04

Vendor: Cisco Meraki

Comments: By ingesting wired network logs and wireless network logs it is possible to discern these types of events. However, it is likely these events are vendor specific, and likely not translated to specific UDM fields. This would require research and custom queries to be successful.

Note: This is a Cisco Meraki specific query. This query is based on the elements in the SecOps parser for authorization. However, as Meraki also makes firewalls, this could also find firewall events (not just wired or wireless) events that resulted in blocked action.

While syntactically correct, this query has not been tested. This would need to be tested against a Meraki switch/wifi infrastructure.

UDM Search Query:

```
$hostname = $e.principal.hostname
$hostname = /.*/
$hostname != ""

$e.metadata.log_type = "CISCO_MERAKI"
$e.security_result.action = "BLOCK"

match:
    $hostname

outcome:
    $block_count = count($e.metadata.id)

order:
    $hostname
```

10-20-2024

hostname	destip	count
calm-orion-8112	207.3.50.185	7088
loud-blaze-4706	37.198.57.90	875
eager-glyph-3607	41.249.102.22	3152
tough-zephyr-6801	162.195.41.129	8183
keen-bear-2972	18.240.44.191	9823
warm-fox-0927	42.28.42.216	9220
lively-lion-7689	191.95.195.233	5858
calm-glyph-5246	178.93.96.212	8215
nifty-meteor-5590	112.40.225.248	4566
rich-ember-2213	129.112.53.246	1836

09-20-2024

hostname	destip	count
calm-orion-8112	207.3.50.185	7088
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08-20-2024

hostname	destip	count
calm-orion-8112	207.3.50.185	7088
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