

NIST CSF 2.0-DE.CM-01-Ex3

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

Ex3

Monitor facilities for unauthorized or rogue wireless networks

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 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.

This is a Cisco Meraki specific query.

The current query lists the full security_result.description. Theoretically, re.capture should enable the ability to get rid of everything except the actual SSID. However, it ends up leaving the SSID column blank with only the event type listed.

Here is the re.capture that should be in the place of line 1: `$ssid = re.capture($e.security_result.description, /.*/: (.*/))`

NOTE: BE SURE TO GET RID OF "CONTAINING_DEVICE" IN THE FINAL VERSION OF THE QUERY.

UDM Search Query:

```
$ssid = $e.security_result.description
```

```
$e.metadata.log_type = "CISCO_MERAKI"
```

```
$e.metadata.product_event_type = "airmarshal_events"
```

```
$e.security_result.summary
```

```
/rogue_ssid_detected|containing_device|ssid_spoofing_detected/
```

```
match:
```

```
    $ssid
```

```
outcome:
```

```
    $violation_type = array_distinct($e.security_result.summary)
```

```
    $last_seen
```

```
timestamp.get_date(max($e.metadata.event_timestamp.seconds))
```

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 |
| loud-blaze-4706 | 37.198.57.90 | 875 |
| eager-glyph-3607 | 41.249.102.22 | 3152 |
| tough-zephyr-6801 | 162.195.41.129 | 8183 |
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| calm-glyph-5246 | 178.93.96.212 | 8215 |
| nifty-meteor-5590 | 112.40.225.248 | 4566 |
| rich-ember-2213 | 129.112.53.246 | 1836 |

08-20-2024

| 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 |
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