



7 Metrics of Security Operations Effectiveness

You can't improve what you don't measure. To mature your security operations program, you need to evaluate its effectiveness. But this is a task many organizations still struggle with. If showing the effectiveness of your security operations is a challenge, it might be time to re-evaluate your KPIs and your ability to measure them.

Why Measure Your Security Operations Effectiveness?

The fact is, you might not be doing as well as you'd like.

indicated threat actors are present on victims' networks for a median of before being detected.1

A 2018 Mandiant report

77% of organizations were compromised during a 12-month period.2

But, if you reduce the dwell time of a cyberthreat, you could save the day.

confined to seven days, the impact is reduced by

When dwell time is

day, business impact is reduced by as much as

If shortened to just one

of your SOC will help you focus your efforts on the areas where improvements will provide the highest gains.

And, measuring the effectiveness





can help you prove the value of your program to your board.

Last but not least,

visualizing your progress



7 Metrics to Improve Your Team's Effectiveness

mean time to detect (MTTD) and mean time to respond (MTTR). These are the critical indicators of your operational effectiveness. Reducing

You're likely already tracking

MTTD and MTTR is the primary goal of a resilient security operations program.

through each stage of Threat Lifecycle Management? By baselining your team's capabilities at this level, you can easily see how you can reduce your MTTD and MTTR.

But are you measuring the

effectiveness of your team

Critical KPIs for Evaluating

Like any core business operation, mature organizations will want to measure operational effectiveness to identify whether KPIs and SLAs are being realized. Following are some of the key operational metrics that allow enterprises to measure

and communicate to the business current organizational and operational effectiveness

Security Operations Effectiveness

when it comes to being able to detect and respond to cyber-related threats. Alarm Time to Triage (TTT) = Date/Time Alarm Inspection - Date/Time of Alarm Creation Measures latency in your team's ability to inspect an alarm

Alarm Time to Qualify (TTQ) = Date/Time of Alarm Closure or Addition to Case - Date/Time of Alarm Creation

Measures the time it takes your team to fully inspect and qualify an alarm

Measures the time it takes your team to investigate a qualified threat

= Date/Time Incident Mitigated - Date/Time Incident Determination

Threat Time to Investigate (TTI)

Time to Mitigate (TTM)

= Date/Time of Case Closed or Elevated to Incident - Date/Time of Case Creation

Measures the time it takes your team to mitigate an incident and eliminate immediate risk to your business

Time to Recover (TTV)

= Date/Time of Recovery from Incident - Date/Time of Incident Mitigation Measures the time it takes your team to complete full recovery of an incident Incident Time to Detect (TTD)

Measures the time it takes your team to confirm and qualify an incident

Incident Time to Response (TTR)

Farliest

Evidence

The following figure shows the key workflow metrics that should be measured to ultimately determine TLM operational effectiveness, and effectiveness of the supporting TLM technological solution.

Collect

Measures the time it takes your team to investigate and mitigate a confirmed incident

= Date/Time of Incident Mitigation - Date/Time Initiation of Investigation

= Date/Time Threat Qualified for Investigation/Case Creation - Date/Time of Initial Indicator of Threat

Workflow Metrics

TTT TTQ TTI TTM TTV TTD TTR TLM Stage

Alarm Discover Creation Initial Qualify Inspection Case Investigate Creation Elevate Investigate to Incident Mitigate Neutralize Recovery Recover

Learn How LogRhythm Can Help

SOC metrics help teams uncover opportunities to improve operational efficiency, including identifying tasks better suited for automation, and enable you to measure

and report on the effectiveness of your security program.

With LogRhythm, measuring the effectiveness of your SOC is easy. Our embedded

Want to see it in action? Schedule a demo today.

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