

# Inside SOC: Triage Smarter, Not Harder

Tom DeJong

# About Me

## BHIS SOC

Triage Lead | DFIR

## Education

Information Technology Degree

## Hobbies

Snowboarding  
Rock Climbing  
Hiking

## Contact

tdejong@blackhillsinfosec.com  
[www.linkedin.com/in/dejongtom](https://www.linkedin.com/in/dejongtom)



# Today's Agenda

Triage Fundamentals



Anatomy Of An Alert



Real Threat vs Noise



Common Mistakes



Live Demo



Triage Mindset



Triage Process



Escalation vs Closure



Real World Tips



Q&A



# What Is Triage?

## Key Goals

- Determine severity & impact of an alert
- Identify real threats that need escalation or immediate action
- Document decisions & findings
- Filtering out false positives

## What It Involves

- Reviewing alert metadata
- Judging if behavior is normal, suspicious, or malicious
- Make a decision: escalate, further investigation, or close
- Enriching data with threat intel or internal context



A photograph of a modern building with a cantilevered upper section and a brick building below it, set against a dark background.

# Why Triage Matters

- Becoming more efficient

- Reducing alert fatigue

- Improving threat detection

- Building trust in your decisions

# Triage Mindset



## Efficient & Decisive

- Efficient not rushed
- Decision oriented
- Calm under pressure



## Analytic & Context Aware

- Curious not complacent
- Context driven
- Pattern oriented
- Skeptical not paranoid



## Clear & Communicative

- Communicative
- Consistent documentation
- Ask questions



# Anatomy of an Alert

Core Elements	Questions to Ask	Work Smarter
<ul style="list-style-type: none"><li>Alert/Rule Name</li><li>Detection Logic</li></ul>	1. Is this normal for the user/host?	<ul style="list-style-type: none"><li>Spot red flags early</li></ul>
<ul style="list-style-type: none"><li>Timestamp</li><li>Username</li><li>Hostname</li></ul>	2. Does the command/domain look suspicious?	<ul style="list-style-type: none"><li>Focus on key data fields</li></ul>
<ul style="list-style-type: none"><li>Process ID</li><li>Process Name</li><li>Command Line</li></ul>	3. Have I seen this pattern before?	<ul style="list-style-type: none"><li>Check for enrichments</li></ul>
<ul style="list-style-type: none"><li>File Path</li><li>Hashes</li><li>Domain</li></ul>	4. Do I have enough context?	<ul style="list-style-type: none"><li>Correlate with other alerts or logs</li></ul>
<ul style="list-style-type: none"><li>Source IP/Port</li><li>Destination IP/Port</li></ul>	5. What logs or tools can verify this?	<ul style="list-style-type: none"><li>Refer to internal documentation</li></ul>

e0568715-1259-43e5-90e0-a63c6942638f

[VIEW TIMELINE](#) → [COPY SOURCE](#)  [MARK FALSE POSITIVE](#)  [VIEW RULE](#) →

CATEGORY	TIME
Potentially Suspicious Rundll32 Activity	2025-12-17 08:02:22
SOURCE	
desktop-9r92o0e.localdomain	

[DETECTION](#) [ROUTING](#) [AI EXPLAIN](#)

```

{
  "detection": {
    "author": "_ext-sigma-7a14fbc3-54d9-4b4d-8700-61eddada04f0[bulk][segment]"
    "cat": "Potentially Suspicious Rundll32 Activity"
    "detect": {
      "event": {
        "COMMAND_LINE": "rundll32.exe url.dll,FileProtocolHandler http://8.8.8.8"
        "FILE_IS_SIGNED": 1
        "FILE_PATH": "C:\\Windows\\system32\\rundll32.exe"
        "HASH": "076592ca1957f8f357cc201f0015072c612f5770ad7de85f87f254253c754dd7"
        "PARENT": {
          "BASE_ADDRESS": 140700588507136
          "COMMAND_LINE": "C:\\Windows\\system32\\cmd.exe"
          "FILE_IS_SIGNED": 1
          "FILE_PATH": "C:\\Windows\\system32\\cmd.exe"
          "HASH": "badf4752413cb0cbdc03fb95820ca167f0cdc63b597ccdb5ef43111180e088b0"
          "MEMORY_USAGE": 2076672
          "PARENT_ATOM": "5e8679047aae5e9c4717bb5a69424bfff"
          "PARENT_PROCESS_ID": 5116
          "PROCESS_ID": 5940
          "THIS_ATOM": "7b7c00ee65c37f0c2500c71f6942638a"
          "THREADS": 1
          "TIMESTAMP": 1765958538048
          "USER_NAME": "DESKTOP-9R9200E\\TomDeJong"
        }
        "PARENT_PROCESS_ID": 5940
        "PROCESS_ID": 5560
      }
    }
  }
}
```

[https://github.com/refractionPOINT/sigma-limacharlie/blob/rules/latest/windows\\_process\\_creation/proc\\_creation\\_win\\_rundll32\\_susp\\_activity.yml](https://github.com/refractionPOINT/sigma-limacharlie/blob/rules/latest/windows_process_creation/proc_creation_win_rundll32_susp_activity.yml)



# The Triage Process



## Review The Alert

- Carefully read the alert
- Check severity, rule name, detection logic, and key metadata
- Ask What triggered the alert? What behavior was flagged?



## Gather Context

- Check the users role and behavior history
- Check the asset involved such as the endpoint or server
- Enrich the alert with threat intel
- Review relevant logs or previous alerts



## Make a Decision

- Based on the alert and context decide one of the following
  - **Escalate:** Malicious or highly suspicious
  - **Investigate Further:** Still unclear or potentially important
  - **Close:** Benign, false positive, or known behavior



## Document Outcome

- Document a note saying
  - What you reviewed
  - What context you found
  - Why you chose to escalate, close, or investigate further
- Include URLs or screenshots
- Follow internal documentation standards

# Real Threat or Just Noise

## Real Threat

Identify red flags that spark a deeper investigation

- Behavior that is abnormal for the user/host
- Hacking tools (e.g. mimikatz, metasploit)
- Sequence of alerts showing multi-step activity (e.g. execution → lateral movement → exfiltration)

## Tools & Techniques

- SIEM/EDR enrichment
- Threat intelligence platforms (e.g. VirusTotal, URLScan)
- Internal playbooks (What's the SOP for this alert type)
- Host/user baselining (What's normal for this environment)

## Just Noise

Identify benign patterns that are expected in the environment

- Scheduled PowerShell Backups
- Admins using RMM tools (e.g. PsExec, RDP)
- Known good external domains (e.g. Microsoft Telemetry)
- Vulnerability scanners hitting systems

## When in Doubt

- Search for past occurrences of the alert
- Default to "Investigate More" instead of blindly escalating
- Ask a senior analyst for help
- Document what you tried, even if you're still unsure



# Escalate or Close

## Criteria For Escalation

- Confirmed malicious behavior
- Behavior matches known attack patterns
- Abnormal behavior for the user/host
- Connections to suspicious/malicious IP/domain
- Use of unauthorized tools
- Activity on critical system
- Persistence mechanism or signs of backdoor
- Requires containment or isolation

## Criteria For Closure

- Alert from a noisy or broad rule
- Expected behavior of a known business process
- Activity covered by existing tuning/allowlist
- Benign network behavior
- Alerts triggered by internal tools
- No indicators of compromise
- Alert in test or lab environment
- Repeated alert that is already escalated or handled

# Common Mistakes To Avoid

## Escalating Without Evidence

**Why it's harmful:** Wastes time, erodes trust, & creates unnecessary alert noise

**What to do instead:** Investigate, enrich, & document. Escalate with proper justification

## Over Investigating Low Risk Alerts

**Why it's harmful:** Reduces time for higher priority work & increases burnout

**What to do instead:** Use internal resources & context to confidently close benign alerts

## Skipping Context Checks

**Why it's harmful:** Can lead to false positives or missed threats

**What to do instead:** Check internal documentation before fully digging into an alert

## Weak or Missing Documentation

**Why it's harmful:** Creates gaps for audit & leads to repeated triage of the same alert

**What to do instead:** Clearly document what was investigated, what you found, & what decision you made

## Not Asking For Help When Needed

**Why it's harmful:** Can slow analyst growth, increases risk of mistakes, & leads to burnout

**What to do instead:** Ask questions to your team

## Treating All Alerts The Same

**Why it's harmful:** Leads to alert fatigue, burnout, & can be a misallocation of time

**What to do instead:** Prioritize high value assets, suspicious behavior or known threat patterns.



# Tips For Making The Right Call



## Don't escalate out of fear

- Escalation should be evidence based not an emotionally driven decision
- If you feel unsure investigate more until you have the evidence you need



## Use a checklist

Before escalating or closing an alert ask yourself

- Is this activity abnormal?
- Does this activity pose a risk to the business?
- Is there enough context to justify an action?
- Can I describe why this is suspicious/malicious?



## Know your environment

- What looks suspicious in one company may be totally normal in another
- Build familiarity with asset roles, user behavior, and common processes & procedures

# Smart Documentation Tips

## What To Include In a Good Triage Note



### Summary

Description of what triggered the alert



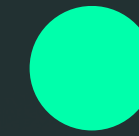
### Actions Taken

Checks performed during investigation



### Findings

Key details found during investigation



### Decisions

Why you chose to escalate, close, or investigate further

## Tips for Better Smarter Notes



### Be Specific

Document detailed findings



### Be Concise

Summarize findings



### Be Consistent

Use the same structure across investigations



### References

Include links to resources used/found



# Basic Documentation Template

## [Summary]

Brief description of the alert and what triggered it

## [Actions Taken]

Checks you performed (tools, logs, enrichment sources)

## [Findings]

Key context, suspicious or benign behavior, notable evidence

## [Decision]

Escalated, closed, Investigate further | Document your reasoning for this decision

- Use bullet points for clarity
- Keep it short but meaningful
- Link to relevant tools or logs if allowed

# Soft Skills

## That Make A Difference

### Communication

- Write concise & clear notes
- Asking good questions
- Sharing relevant updates

### Active Listening

- Listening carefully before reacting
- Taking time to understand context
- Asking clarifying questions

### Collaboration

- Sharing findings or shortcuts with team
- Picking up slack when things get busy
- Giving & receiving feedback without ego

### Composure

- Using playbooks when its chaotic
- Think before you escalate
- Managing time and focus when busy



# Managing Alert Fatigue



## Alert Fatigue Symptoms

- Skimming alerts
- Escalating to be “safe”
- Closing alerts too quickly
- Feeling burnout



## Why It Happens

- Poorly tuned detections
- Pressure to act quickly on every alert
- Repetitive low-fidelity alerts
- Growing workload without automation or support



## Managing Fatigue

- Leverage internal documentation
- Use enrichment wisely
- Tune & improve detections
- Take mental breaks



## Shift Mindset

- Triage is about consistency
- Focus on progress
- Trust the process
- Lean on your team

# Live Demo



<https://limacharlie.io/>



<https://obsidian.md/>



# Rule Logic

- [https://github.com/refractionPOINT/sigma-limacharlie/blob/rules/latest/windows\\_process\\_creation/proc\\_creation\\_win\\_powershell\\_non\\_interactive\\_execution.yml](https://github.com/refractionPOINT/sigma-limacharlie/blob/rules/latest/windows_process_creation/proc_creation_win_powershell_non_interactive_execution.yml)
- [https://github.com/refractionPOINT/sigma-limacharlie/blob/rules/latest/windows\\_process\\_creation/proc\\_creation\\_win\\_powershell\\_encode.yml](https://github.com/refractionPOINT/sigma-limacharlie/blob/rules/latest/windows_process_creation/proc_creation_win_powershell_encode.yml)
- [https://github.com/refractionPOINT/sigma-limacharlie/blob/rules/latest/windows\\_process\\_creation/proc\\_creation\\_win\\_powershell\\_base64\\_encoded\\_cmd.yml](https://github.com/refractionPOINT/sigma-limacharlie/blob/rules/latest/windows_process_creation/proc_creation_win_powershell_base64_encoded_cmd.yml)



<https://limacharlie.io/>

# Thank You

for Your Time and Attention

**Present by Tom DeJong**

tdejong@blackhillsinfosec.com  
[www.linkedin.com/in/dejongtom](https://www.linkedin.com/in/dejongtom)