

SOC lab False Positive Triage

The home lab simulation presents the Security Operations Center (SOC) dashboard, showcasing a variety of active alerts and incidents across a controlled test environment. The interface displays real-time log sources, SIEM summary panels, and a visible sequence of triggered rules. Several false positives appear—highlighted by alerts for benign user activities, such as normal administrative logins and authorized software updates. The analyst has annotated the screenshot with key metrics, clearly marking the volume of false positives compared to genuine threat detections. This initial setup illustrates the baseline challenge, emphasizing the need for fine-tuning of correlation rules, alert thresholds, and source filtering.

The screenshot displays the 'Alert queue' interface in a dark-themed Splunk dashboard. At the top, it indicates '4 alerts incoming'. The left sidebar contains navigation links: Dashboard, Alert queue (highlighted), SIEM, Analyst VM, Documentation, Playbooks, and Case reports. The main panel shows an 'Assigned alert(s)' for ID 8814, titled 'Inbound Email Containing Suspicious External Link'. The alert is categorized as 'Medium' severity and 'Phishing' type, received on 'Nov 11th 2025 at 15:38'. A 'Write case report' button is visible in the top right. The alert details include a description, metadata (datasource, timestamp, subject, sender, recipient, attachment), and the email content. The content is a phishing email from 'onboarding@hrconnex.thm' to 'j.garcia@thetrydaily.thm' with a suspicious link. A 'Playbook link' is provided at the bottom.

Alert ID	Alert Title	Severity	Type	Timestamp
8814	Inbound Email Containing Suspicious External Link	Medium	Phishing	Nov 11th 2025 at 15:38

Description: This alert was triggered by an inbound email contains one or more external links due to potentially suspicious characteristics. As part of the investigation, check firewall or proxy logs to determine whether any endpoints have attempted to access the URLs in the email and whether those connections were allowed or blocked.

Metadata:
datasource: email
timestamp: 11/11/2025 15:36:48.897
subject: Action Required: Finalize Your Onboarding Profile
sender: onboarding@hrconnex.thm
recipient: j.garcia@thetrydaily.thm
attachment: None

Content: Hi Ms. Garcia,\n\nWelcome to TheTryDaily!\n\nAs part of your onboarding, please complete your final profile setup so we can configure your access.\n\nKindly click the link below:\n<https://hrconnex.thm/onboarding/15400654060/j.garcia>>Set Up My Profile.\n\nIf you have questions, please reach out to the HR Onboarding Team.

Direction: inbound

[Playbook link](#)

As I work through the SOC simulation on TryHackMe using Splunk Enterprise, I focus on analyzing firewall logs to determine if a flagged email alert is actually a false positive phishing attempt. I use Splunk's powerful search capabilities to filter all network events corresponding to the timestamp of the suspected phishing email, tracing both incoming and outgoing connections for the recipient's workstation. By looking for unusual traffic patterns, connections to suspicious IP addresses, or any evidence of blocked attempts, I find that all the related network activity is normal and consistent with legitimate business use. No signs of malware payload delivery, command-and-control traffic, or unauthorized data extraction appear in the firewall logs. This process helps me confidently classify the phishing alert as a false positive, demonstrating the effectiveness of combining lab-based SOC skills with real-world log analysis in Splunk.

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			i	Time	Event	
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			>	11/11/25 3:43:11.897 PM	<pre>[{ Action: allowed Application: web-browsing DestinationIP: 192.168.10.5 DestinationPort: 443 Protocol: TCP Rule: Allow-Internet SourceIP: 10.20.2.1 SourcePort: 61185 URL: https://intranet.thetrydaily.thm/dashboard datasource: firewall timestamp: 11/11/2025 15:43:11.897 }]</pre> Show as raw text	host = 10.10.210.219:8989 source = eventcollector sourcetype = _json
			>	11/11/25 3:43:05.897 PM	<pre>[{ Action: allowed Application: web-browsing DestinationIP: 142.250.64.78 DestinationPort: 443 Protocol: TCP Rule: Allow-Internet SourceIP: 10.20.2.30 SourcePort: 62992 URL: https://www.google.com/search?q=how+to+manage+team+tasks+in+Asana datasource: firewall timestamp: 11/11/2025 15:43:05.897 }]</pre> Show as raw text	host = 10.10.210.219:8989 source = eventcollector sourcetype = _json

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			i	Time	Event				
			>	11/11/25 3:44:38.897 PM	<pre>{"datasource":"firewall","timestamp":"11/11/2025 15:44:38.897","Action":"allowed","SourceIP":"10.20.2.24","SourcePort":"60582","DestinationIP":"34.120.58.11","DestinationPort":"443","URL":"https://crm.hubspot.com/deals","Application":"web-browsing","Protocol":"TCP","Rule":"Allow-Internet"}</pre> Show syntax highlighted	host = 10.10.210.219:8989 source = eventcollector sourcetype = _json			
			>	11/11/25 3:44:32.897 PM	<pre>[{ attachment: None content: One candidate rescheduled-sending the updated list shortly. datasource: email direction: internal recipient: j.carter@thetrydaily.thm sender: j.carter@thetrydaily.thm subject: RE: RE: Hiring Update - Interview Schedule timestamp: 11/11/2025 15:44:32.897 }]</pre> Show as raw text	host = 10.10.210.219:8989 source = eventcollector sourcetype = _json			
			>	11/11/25 3:44:15.897 PM	<pre>[{ attachment: None content: Reminder: Sign-ups close tomorrow. datasource: email direction: internal recipient: g.wright@thetrydaily.thm sender: g.wright@thetrydaily.thm subject: FWD: Employee Appreciation Day - Volunteer Sign-Up timestamp: 11/11/2025 15:44:15.897 }]</pre>				