



The Trivial Things We're Told vs. The Vital Things We're Not







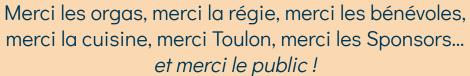






# Thanks, staff











Dark Night Call. Around 3am. A man is searching for something under the lone street light. He lost his car keys in the parking lot.







## The Street Light Effect

We've got EDR, NDR, MDR, XDR, we have SIEM, SOAR, CASB, SASE ...

We're nearly running out of letters in the alphabet. And still, we're looking under the spotlight.





Our security posture is a giant, advanced fire alarm system... installed in a swimming pool. It's loud, it's wet, and yet we completely miss the sharks.





ISSP / Vuln Mgmt Policy: a "Severity-based Time To Fix" became "CVSS-Score Based Time-to-Fix"

-Anyone in the room?









### CVE-2017-17551

Base Score: 8.8 HIGH

Vector:

CVSS:3.0/AV:N/AC:L/PR:N/U

I:R/S:U/C:H/I:H/A:H



### CVE-2017-17692

Base Score: 7.5 HIGH

Vector:

CVSS:3.0/AV:N/AC:L/PR:N/U

I:N/S:U/C:H/I:N/A:N



### CVE-2020-15501

Base Score: 6.5 MEDIUM

Vector:

CVSS:3.1/AV:N/AC:L/PR:N/U

I:R/S:U/C:N/I:H/A:N



### CVE-2025-6260

Score: 9.4, CRITICAL

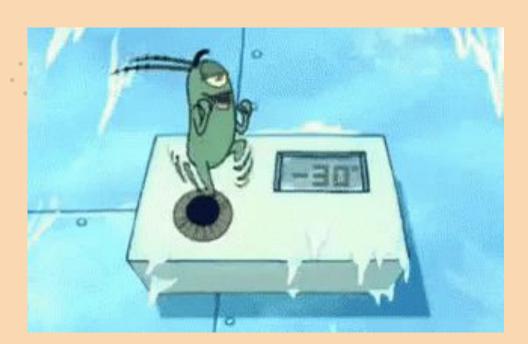
CVSS:4.0/AV:N/AC:L/AT:N/P

R:N/UI:N/VC:H/VI:H/VA:H/S

C:N/SI:N/SA:N







### **THERMOSTAT**



CVE-2025-6260

Score: 9.4, CRITICAL

CVSS:4.0/AV:N/AC:L/AT:N/P

R:N/UI:N/VC:H/VI:H/VA:H/S

C:N/SI:N/SA:N







### CVE-2017-17551

Base Score: 8.8 HIGH

Vector:

CVSS:3.0/AV:N/AC:L/PR:N/U

I:R/S:U/C:H/I:H/A:H

# VENDING MACHINE







### COFFEE !!!



Base Score: 7.5 HIGH

Vector:

CVSS:3.0/AV:N/AC:L/PR:N/U

I:N/S:U/C:H/I:N/A:N











### CVE-2020-15501

Base Score: 6.5 MEDIUM

Vector:

CVSS:3.1/AV:N/AC:L/PR:N/U

I:R/S:U/C:N/I:H/A:N

### **FRIDGE**







Our top talent is now the first line of defense for the snack machine.

### Cult of the CVSS Score

It's easy, everyone understand the scale.
It's normalized, everyone can use the calc.
It's even automated / automatable.
Yet, it's not personalized.
(still, I do care about the Coffee Machine)

#### Better things to do:

- **Move** the Coffee Machine out of the network
- Do *risk tagging* to minimize absolute scores
- Use contextualized score, like EPSS, which tries to integrate the exploitability

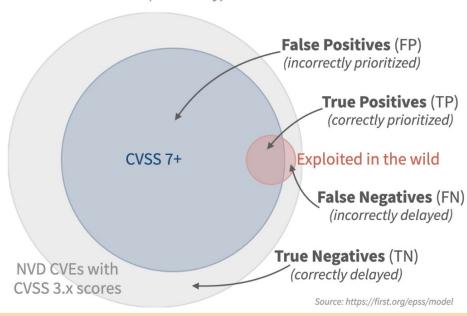




### Performance: Remediating CVSS 7 and above

Looking at the performance of CVSS scores produced October 1st, 2023, comparing against the observed exploitation activity recorded from Oct 1st to Oct 30th, 2023. CVSS threshold is (arbitrarily) set at 7.

	Exploitation Activity Not	
	Observed	Observed
Our Decision		
Remediate (CVSS 7+)	3,166 (2.3%) True Positives (TP)	76,858 (55.1%) False Positives (FP)
Delay (< CVSS 7)	686 (0.5%) False Negatives (FN)	58,763 (42.1%) True Negatives (TN)



src: https://www.first.org/epss/





### Apologies?

Do you ever go to the car mechanic telling them you've got to change the connecting rod?

Don't waste time with precision when no precision is required.

"Et sérieusement les gens, parlez français. Merci."
Tolérance, Inclusivité, Nationalisme, Ouverture, anyone?







### Spam

Obvious noise you don't like

"Meet the Anonymous in your region"



### **Phishing**

Obvious attacks you discard

"You have again winned \$15M through the national lottery this Thursday [1]"

[1] (draws are on Mon., Wed. and Sat.)



## Mailing lists and notifications

Good mail, good information.

Most of them I don't want
anymore, though.

Our SOCs have become professional unsubscribers for security newsletters nobody wants





# Missed Notifs



## Target, 2013

**Consequences**: 200 HERE ARE CREDIT CARD INFO FOR 70m CUSTOMERS

**Vector**: Fazio Mechanical Services, a third-party HVAC vendor

**Missed Notification**: FireEye detected the initial breach and the movement of the attackers within the network, flagged it as suspicious and issued alerts. The security team either dismissed them as false positives.





## Rouen, 2019

Consequences: 404 HOSPITAL NOT

**RESPONDING** 

**Vector**: Phishing

Missed Notification: Virus Alert, single computer. It can be a ransomware since it's on a single computer. Then: "Living off your land", they used internal tools, then they ransom'd





## Colonial Pipeline, 2021

Consequences: 204 NO MORE FUEL

**Vector**: Account Takeover

**Missed Notification**: Probably an impossible traveler notification which was not deemed as important. A non-blocking alert, coupled to a lack of MFA.





# Silent Ghosts





### NSA, 2016

**Consequences**: 200 HERE ARE YOUR DATA

**Vector**: An employee using a NSA USB Key to... exfiltrate NSA data.

**Missed**: NSA was poorly looking at what actual employees did (3yrs after Snowden)



### SolarWinds, 2019

Consequences: 500 CI/CD NOT

**AVAIL** 

**Vector**: Living of your Land

Missed: Third-Party Vendor
Management, customers of
SolarWinds were very confident in
SolarWindws (reminder: CircleCI, Dec., 2023)



## Kiabi, 2024

Consequences: 100M€

**Vector**: I'm a accountant, I make

accounting

**Missed**: Who controls the controllers?



But the scariest part is what's NOT in your inbox. The noise is bad. It burns us out. But it's not the biggest danger. The biggest danger... is the silence.





### "I wasn't sure if this is indeed a security

**risk** ": Data-driven Understanding of Security Issue Reporting in GitHub Repositories of Open Source npm Packages

> Rajdeep Ghosh, Shiladitya De, Mainack Mondal June 2025

# 10,907,467



PR analyzed in Open Source Projects





### Some stats



0.13%

TAG::Security

aka Developer declares they fixed a security issue



14.8%

are missing TAG::Security

A grand total of 1,617,738 security-related issues



1/113

ratio of CVE'd vulns

aka Security Issues that will never get a CVE

# Silly Bounties













To... security@company.com

Subject... Unencrypted Traffic Vector Puts User Data at Risk of Man-in-the-Middle Attacks

### Lack of HSTS headers















# New Bug Bounty Report To... security@company.com Subject... Accessibility Flaw Presenting Phishing and Social Engineering Vector ALT tag missing on company logo























To... security@company.com

Subject... Sensitive Directory Traversal and Information Disclosure via Misconfigured File on Webserver

robots.txt





















To... security@company.com

Subject... Critical Information Disclosure via Unrestricted File Access

S3 Bucket open to public, it contains our marketing PDFs and user profile pictures.





















To... security@company.com

Subject... Sensitive API Key Exposure Leading to Potential Data Leak

Your Google Maps API Key has leaked























To... security@company.com

Subject... Unauthorized Account Provisioning Due to Unverified Email Registration

I can create an account with a non-existing email





















To... security@company.com

Subject... Source Code Information Leakage Threat

"Comments in HTML Code"















# Thanks!

Do you have any questions?

**Seb**, aka **Koreth** Informaticien dans ton cinéma

@linkedin.com/reboot

@Barbhack: Spot the Kilt Guy



