

ESCAPE RESEARCH

THCON 2026
TOULOUSE HACKING CONVENTION

Vibe Coding at Scale

SYSTEMATIC DISCOVERY OF AUTHORIZATION FAILURES
AND DATA EXPOSURE IN AI-GENERATED APPS

35,000

EXPOSED VULNERABILITIES
DISCOVERED

2,000

HIGH

100+

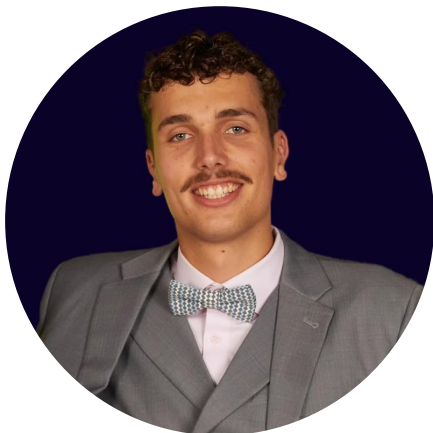
CRITICAL



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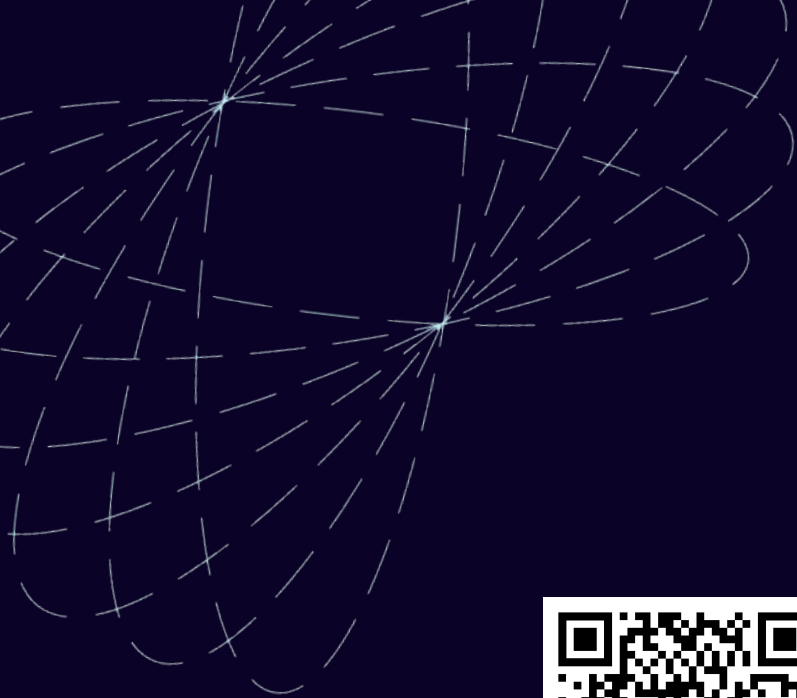
- R&D Software Engineer @ **Escape.tech**
- Attack Surface Management (ASM) Lead
- Automating discovery & pentesting
- ENSEEIHT / Tls-Sec



Gabin Fouquet

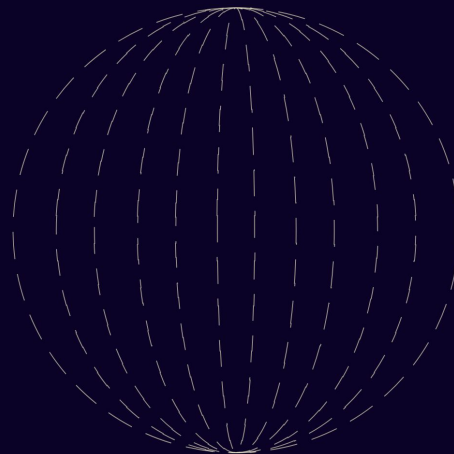
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- Security Research Product Owner
- In charge of vulnerability quality on Escape products
- ENSEEIHT / Tls-Sec



<https://escape.tech/state-of-security-of-vibe-coded-apps>

 ESCAPE



The State of Security of Vibe Coded Apps

How we discovered 2,000 high impact vulnerabilities and sensitive data leaks in apps built with vibe coding platforms

From LLMs to "Vibe-Coding"

Rise of LLMs in Code Generation



outside of IDE

Emergence of "Vibe Coding"



inside of IDE

Shift to Full AI Platforms



no more IDE

2023

2024

2025

Question to the Audience

How many of you use LLMs / AI in your job (or studies)?



Question to the Audience

How many of you use LLMs / AI in your job (or studies)?

Is it to code ?



The “gut feeling”

- LLMs ⇒ bugs, hallucinations, ...
- Human supervised LLM produce bugs
 - Fully AI generated code might be worse ?
- Unreviewed code, created by less technical people
- Generates both backend and frontend, infrastructure, handles the sensitive data, ...

⇒ There might be security issues there ?



Catalyst 1: Increase in Attack surface

15K

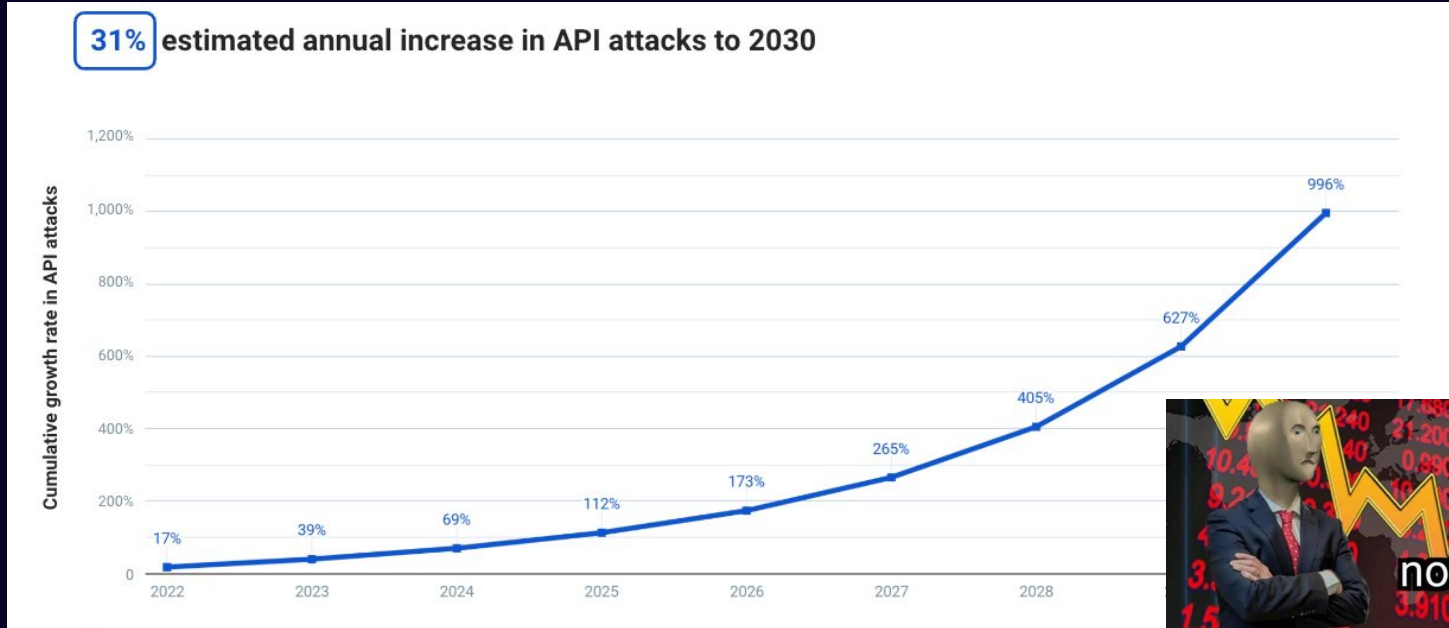
exposed Endpoints
per organization on
average

3K

exposed API Services
on 1 single organization



Catalyst 2: Increase in Attacks



+1000% in API Attacks
by the end of the decade



The “Explosive Cocktail”

1. Companies have more Applications that they can track
2. Increase in reported attacks
3. **No more human in the loop**



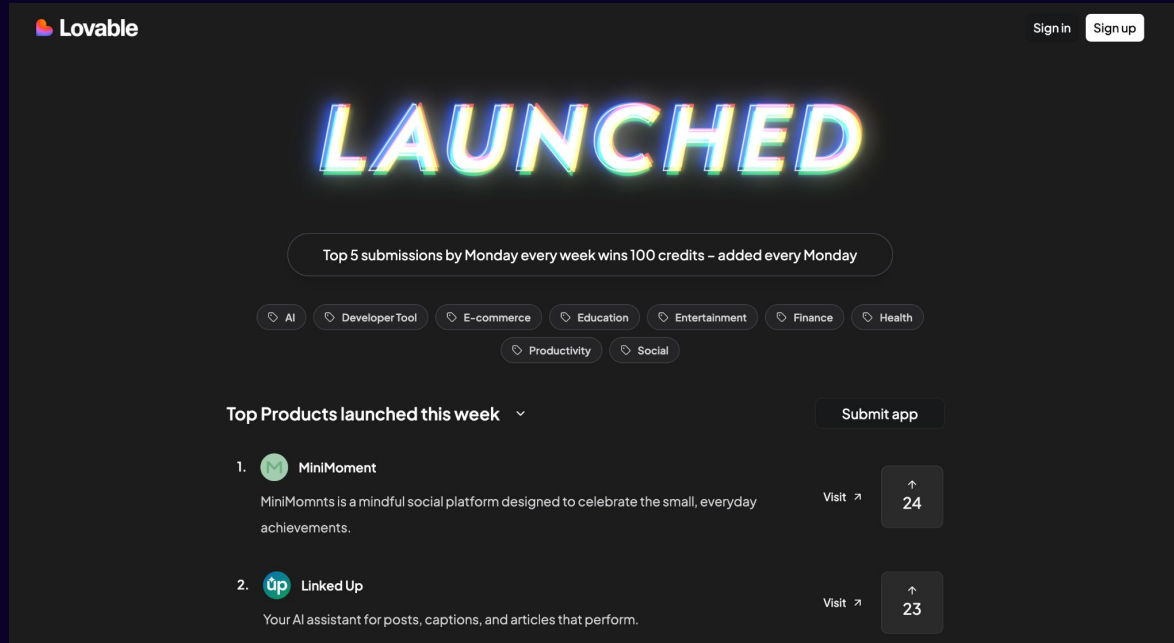
What could go **wrong**?

Methodology: Automated pentesting of “vibe coded” APPs

1.

Input

1. Input: Vibe Coded Apps Sources

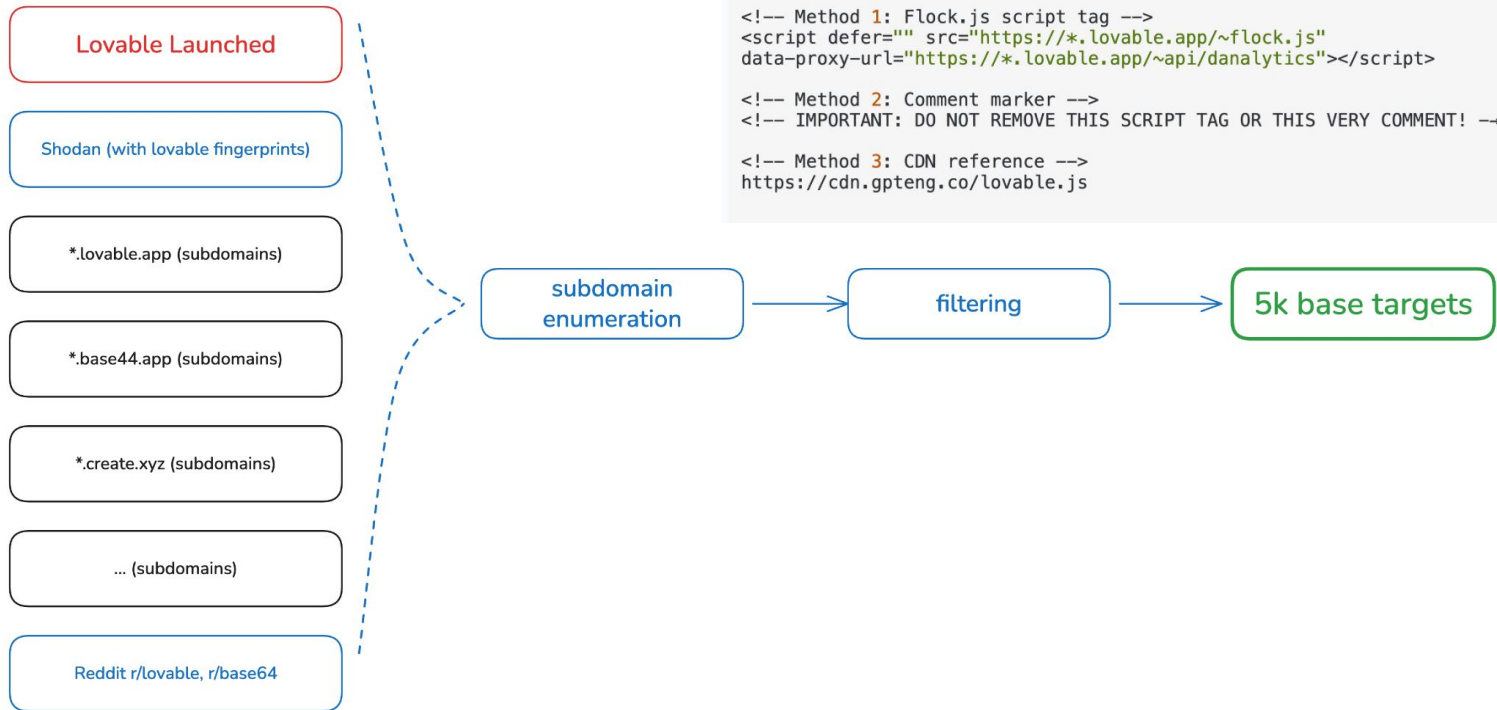


The screenshot shows the Lovable website interface. At the top left is the Lovable logo, and at the top right are 'Sign in' and 'Sign up' buttons. The main heading is 'LAUNCHED' in large, glowing, multi-colored letters. Below this is a promotional banner: 'Top 5 submissions by Monday every week wins 100 credits - added every Monday'. A horizontal row of category filters includes AI, Developer Tool, E-commerce, Education, Entertainment, Finance, Health, Productivity, and Social. The section 'Top Products launched this week' features a 'Submit app' button and a list of two products:

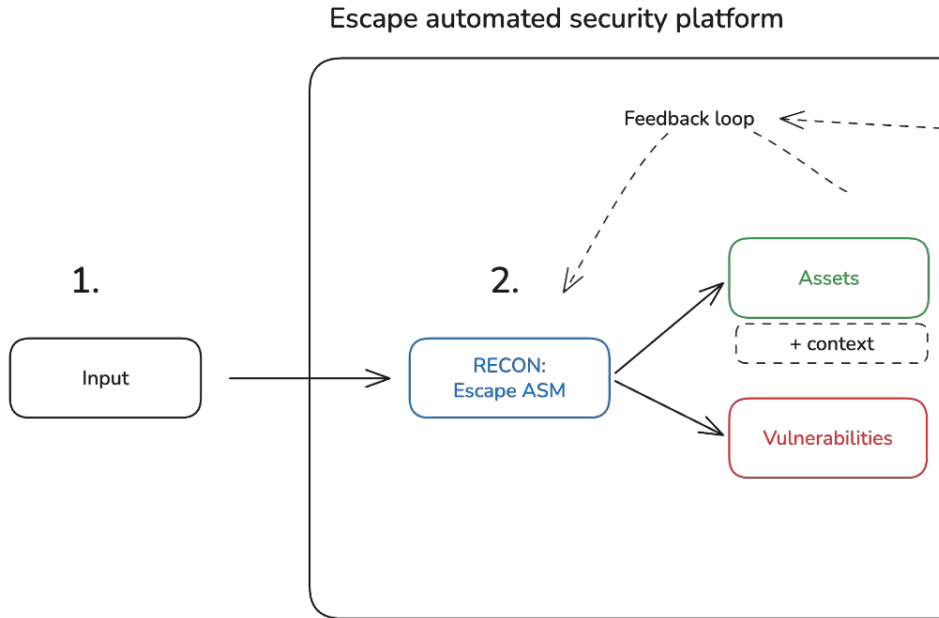
Rank	Product Name	Description	Visits
1.	MiniMoment	MiniMomnts is a mindful social platform designed to celebrate the small, everyday achievements.	24
2.	Up Linked Up	Your AI assistant for posts, captions, and articles that perform.	23

<https://launched.lovable.dev/>

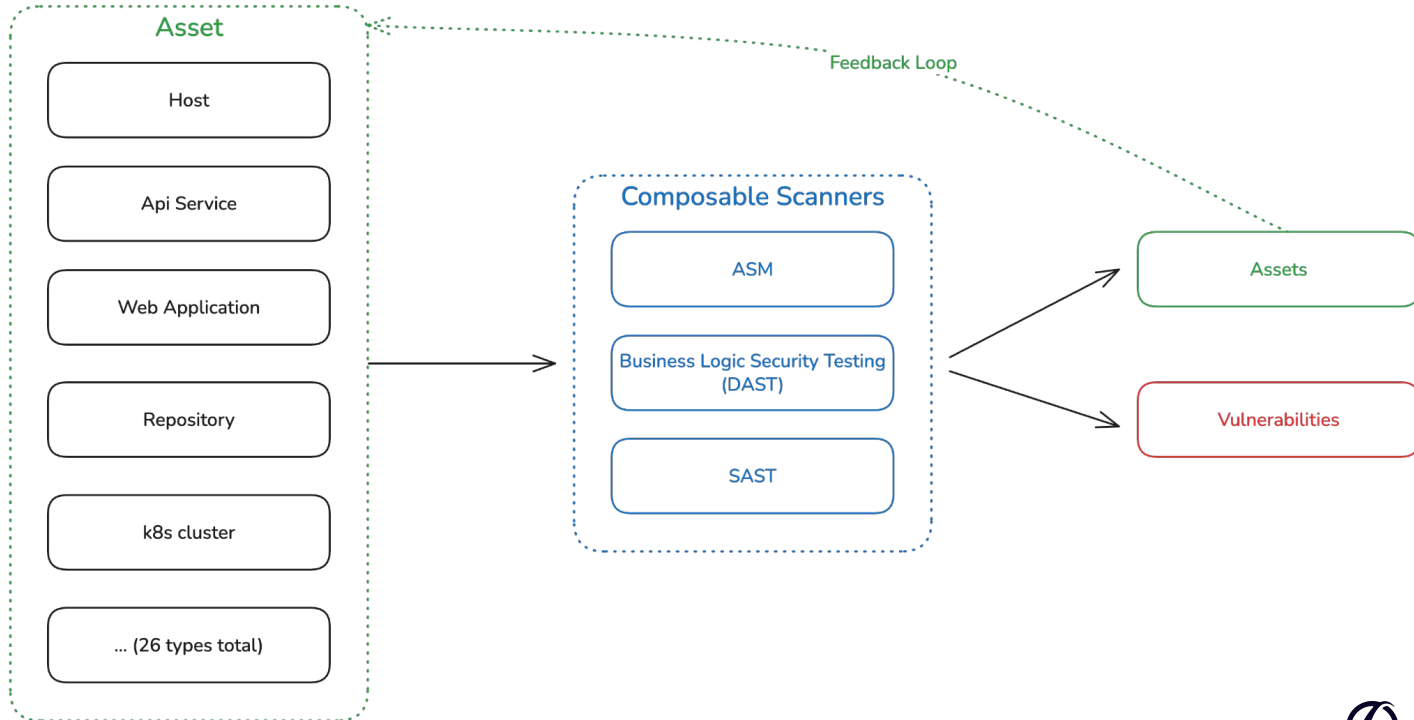
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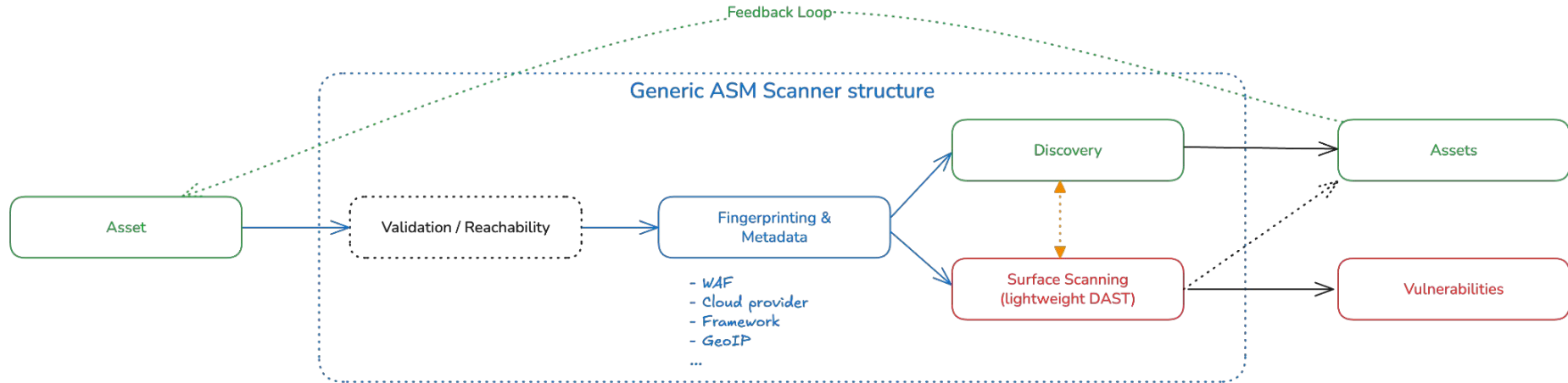
Methodology: Automated pentesting of “vibe coded” APPs



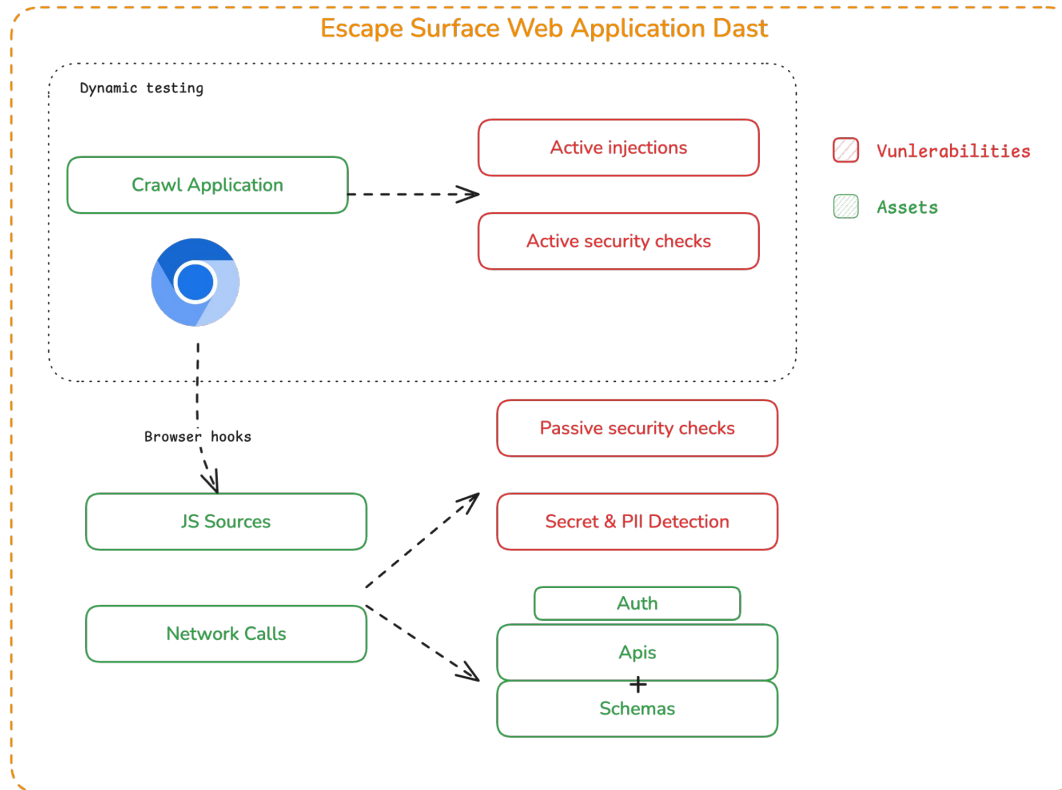
2. RECON: Internal setup



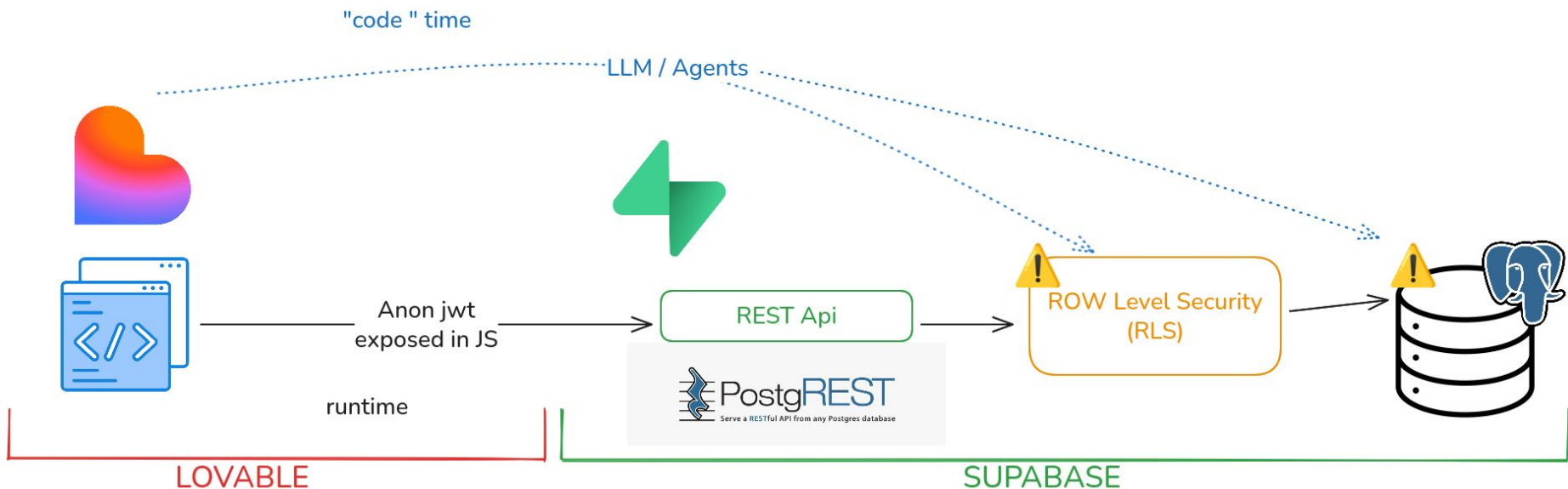
2. RECON: Anatomy of an ASM scanner



2. RECON: Anatomy of WEB App Scanning

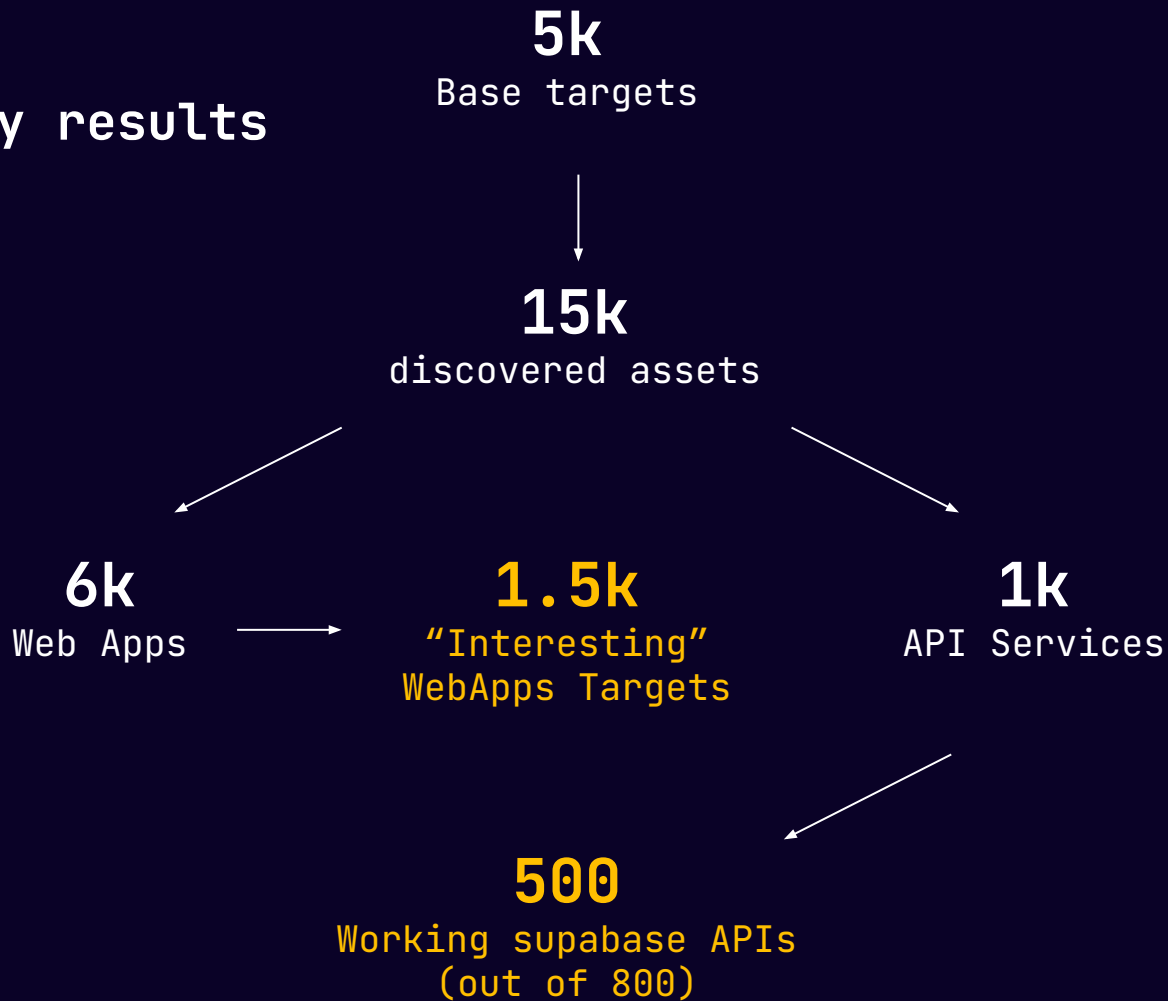


Lovable + Supabase integration for fullstack apps

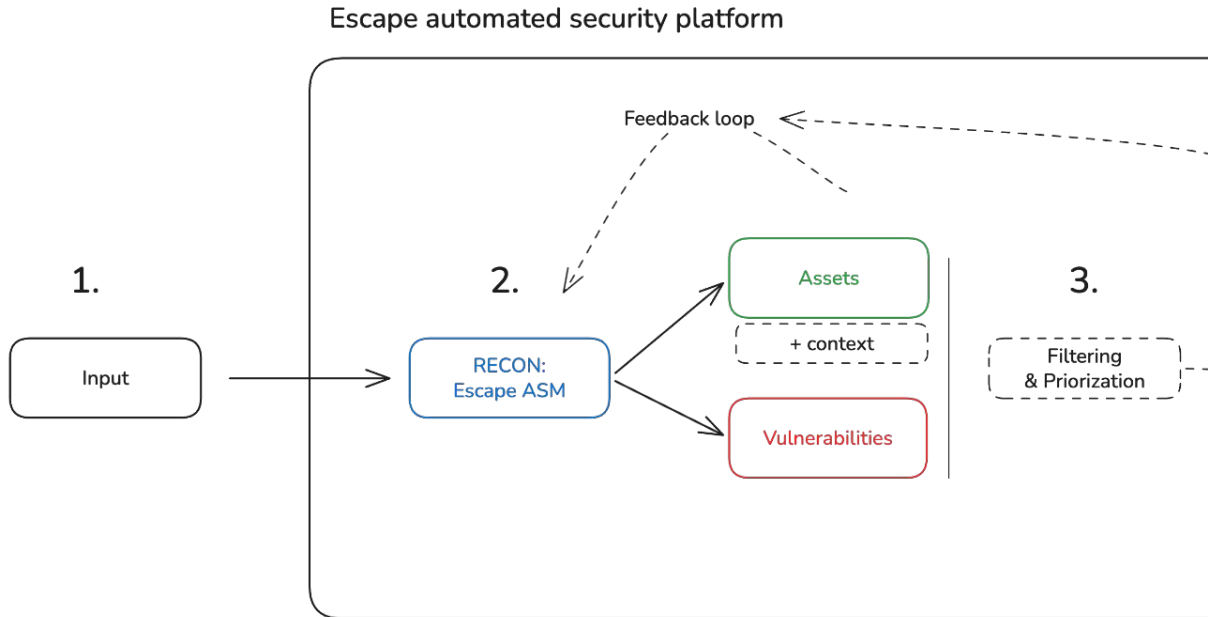


⚠ CVE-2025-48757

Discovery results

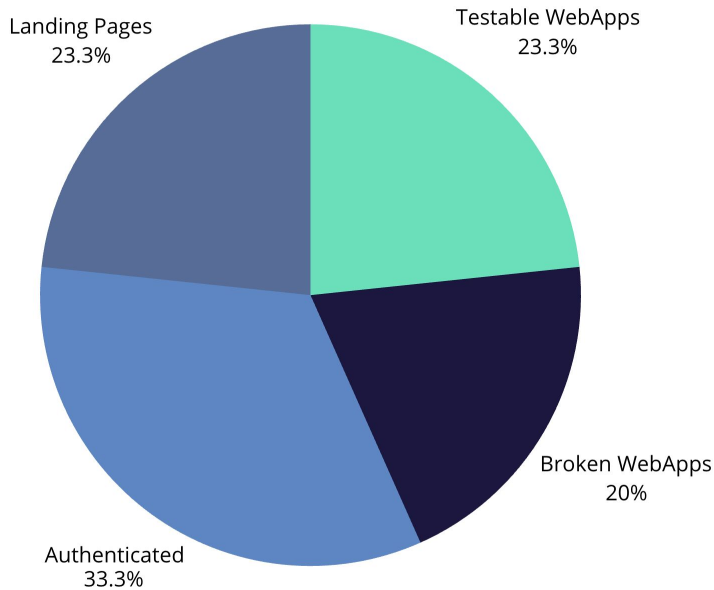


Methodology: Automated pentesting of “vibe coded” APPs

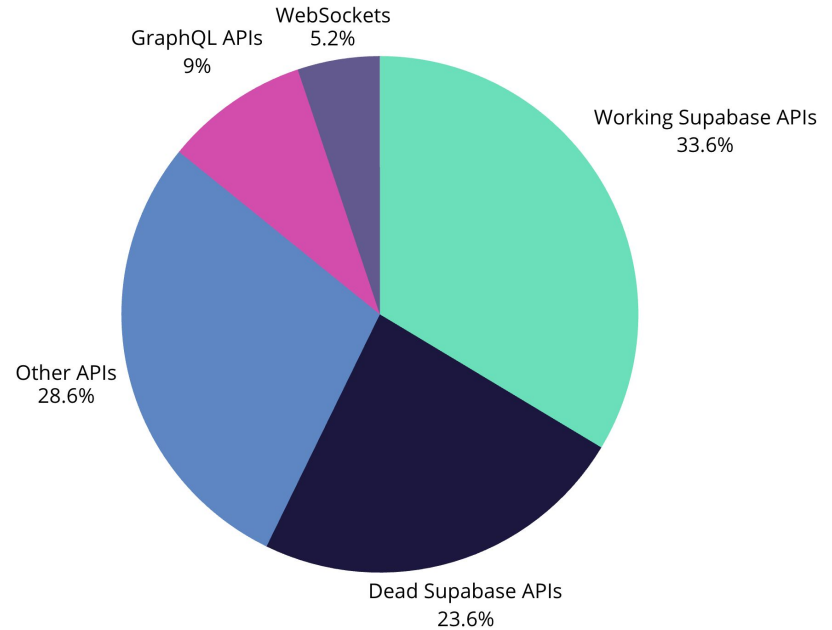


3. Filtering:

“Vibe-coded” applications are really broken, who could have guessed ?



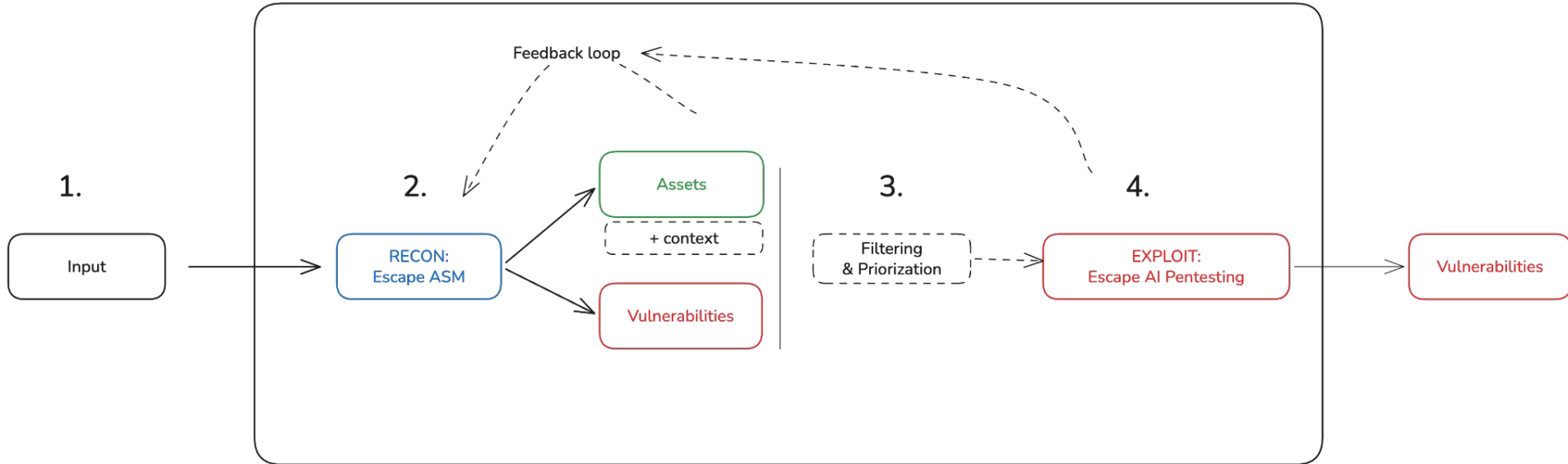
WebApps types (estimate)



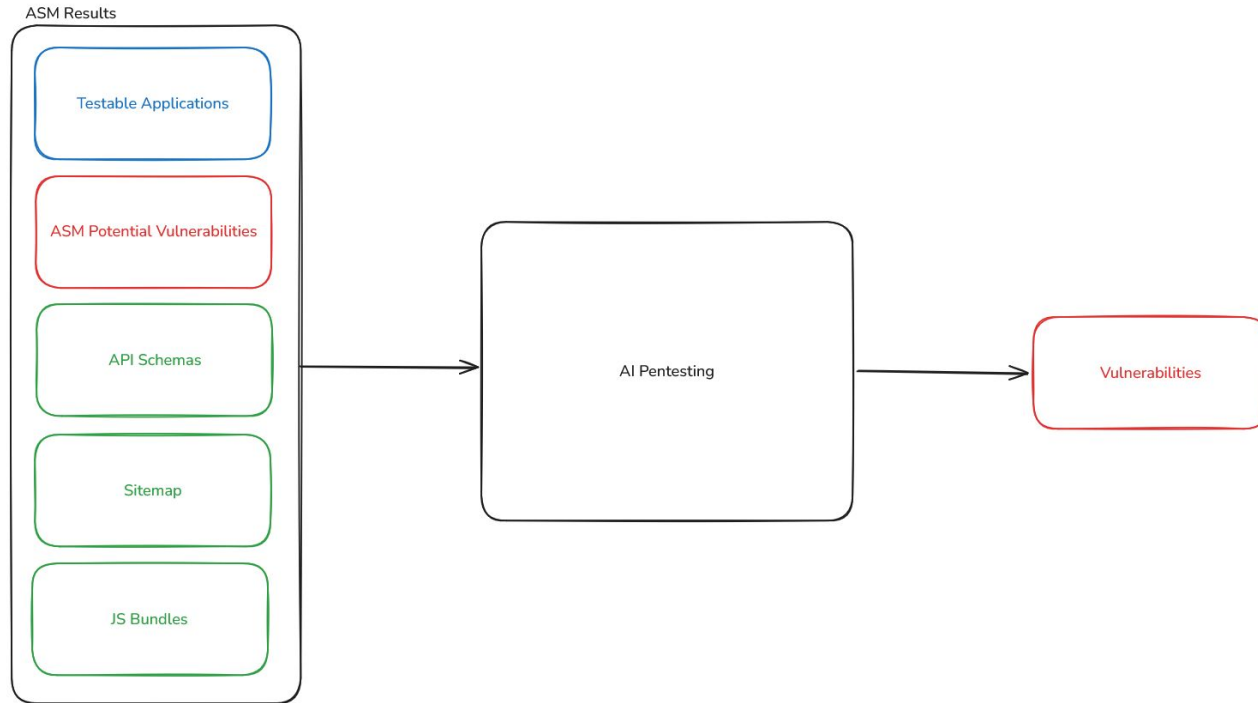
API types

Methodology: Automated pentesting of “vibe coded” APPs

Escape automated security platform



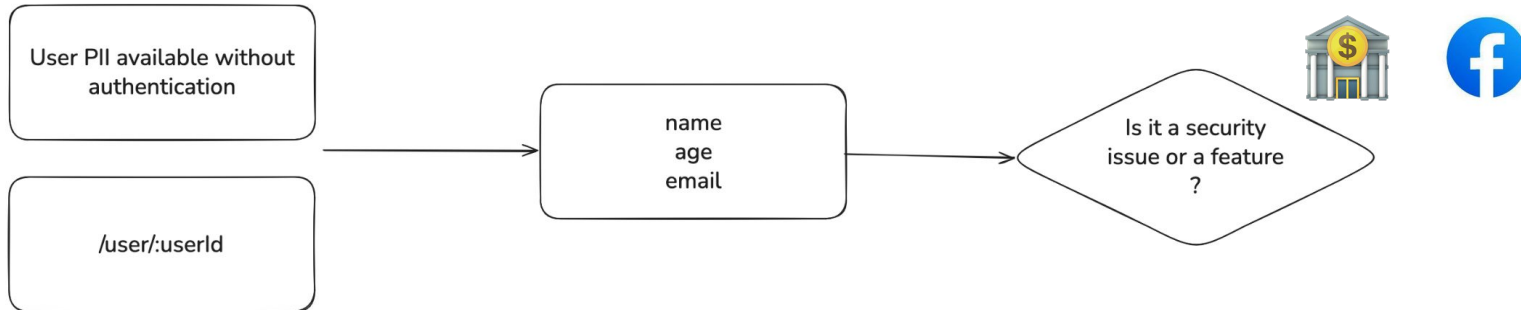
4. PENTEST: How are we testing these applications ?



4. PENTEST: Why did we decide to use AI Pentesting

- Input flexibility to leverage **all available data**
- Detecting **complex business flaws** impossible for DAST without manual config

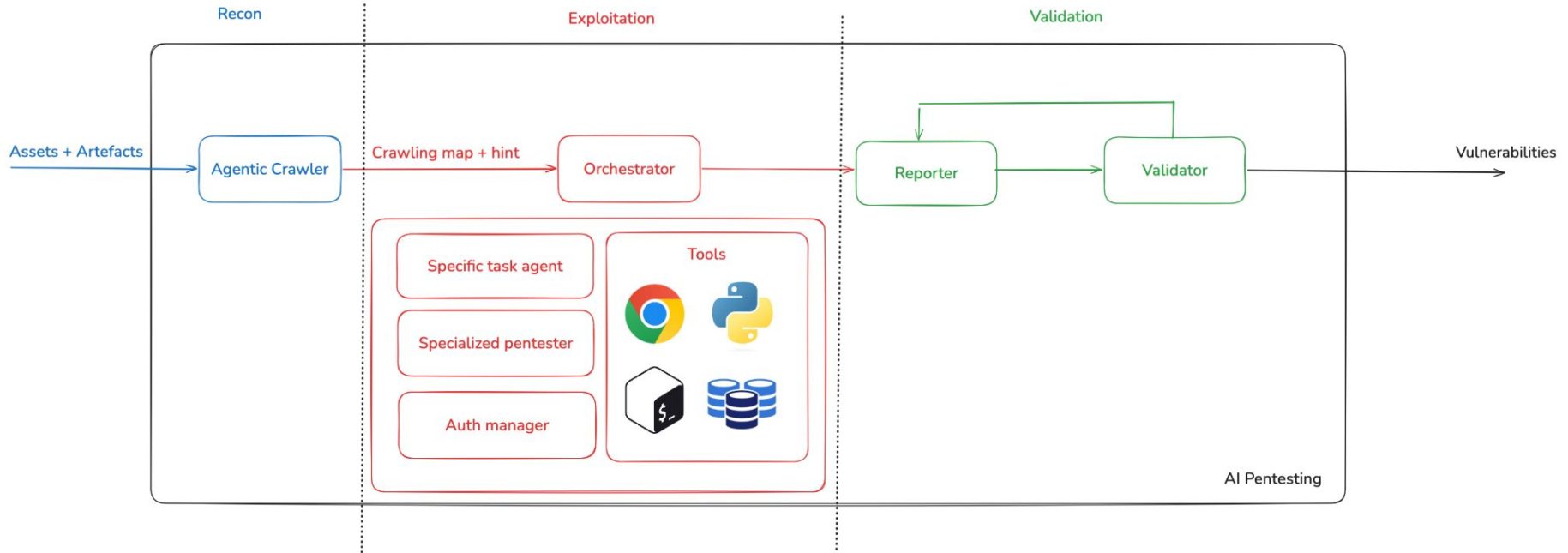
Example



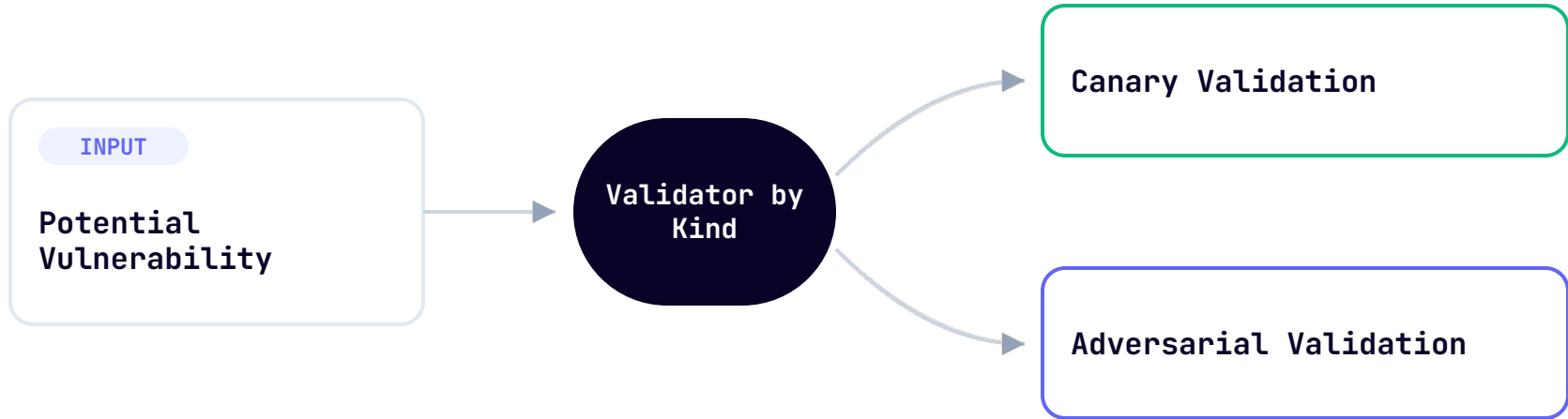
4. PENTEST: Testing LLMs with LLMs ?



4. PENTEST: AI Pentesting orchestration



4. PENTEST: AI Pentesting validation process



When to use Canaries:

Used for deterministic triggers like **XSS**. If the agent triggers the XSS in our provided browser, it is a confirmed high-fidelity finding.

When to use Adversarial:

Crucial for complex logic like **IDOR or BOLA**. Since these lack simple "canary" markers, an adversarial LLM agent validates the unauthorized data access.

Disclaimer: Challenges & Limitations

- **Broken / Untestable targets**
- **No Authentication**
 - WIP At the time: Automatic Authentication
- **Surface / Production mode scanning**
 - Harmless
 - Disabled checks (hard injections, ...)
 - Disabled state altering operations

**This introduced a strong bias
decreasing the results quantity and severity**



“vibe-coded” applications are really broken, trust me

API and SPA Vulnerabilities on Vibe-Coded Apps

34,232
vulnerabilities

~100
critical impact

2k+
high impact


400+
secret leaks

175
instances of PII Leaks
(for a total of 500+ PII's)

API and SPA Vulnerabilities on Vibe-Coded Apps

4

SSRFs

2

0 click account takeover

250+

Vulnerable dependencies (with CVEs)

2

re-confirmed
CVE-2025-48757

12

confirmed **BOLA (IDOR)**

4

confirmed **File Disclosure**

2 git leaks

400+

Misconfigured permissions / broken access control

Security Landscape Shift: From Technical Exploits to Business Logic Failures

Declining: "Old" Vulnerabilities

Traditional injection attacks are becoming rarer due to modern framework protections and automated scanning.

- Cross-Site Scripting (XSS)
- SQL Injection (SQLi)
- Command Injections

Rising: Logic & Authorization

Modern apps suffer from complex authorization flaws that bypass traditional firewalls and security layers.

- BOLA (Broken Object Level Auth)
- IDOR
- Complex Business Logic Flaws

Conclusion: Can AI cure AI?

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Take 1: AI is here, whether you like it or not

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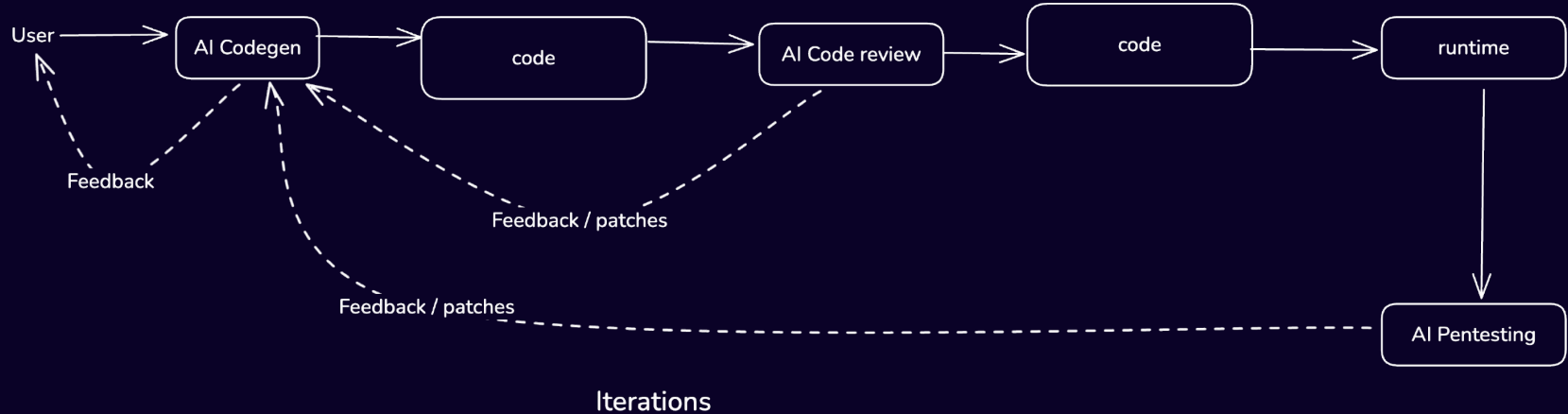
Take 2: It's increasing attack surface at an exponential rate

Conclusion: Can AI cure AI?

Take 1: AI is here, whether you like it or not

Take 2: It's increasing attack surface at an exponential rate

Take 3: But it makes security more scalable than ever



Opening: The race of AI cyber



Github Enterprise
CVE-2026-3854
by Wiz

Copy Fail

Copy Fail
CVE-2026-31431
by Xint Code

If we can automate pentesting with AI \Rightarrow so hackers can.

AI Assisted CVEs \Rightarrow new 0 days ?

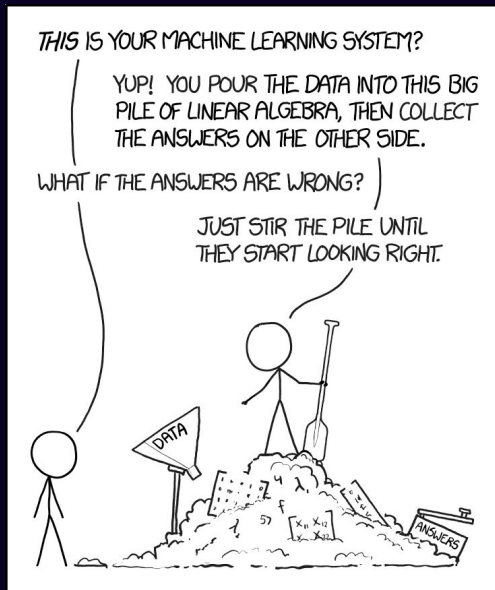
We have to defend with LLMs.

Who will win this race ?

Will we see major AI caused breaches in the near future ?



2026 in a nutshell



My job: Writing AIs with AIs to find vulnerabilities in AI generated apps so other AIs won't pirate it.



<https://escape.tech/>

For teams that are 100x outnumbered



Nohé Hinniger-Foray

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ENSEEIHT, INSA, ENAC tls-sec alumni.



Gabin Fouquet

Security Research Product Owner @
Escape



Thank you ! Questions ?

Q: IS THIS LEGAL ?

A: tldr; yes.

175

**instances of PII Leaks
(for a total of 500+ PII)**

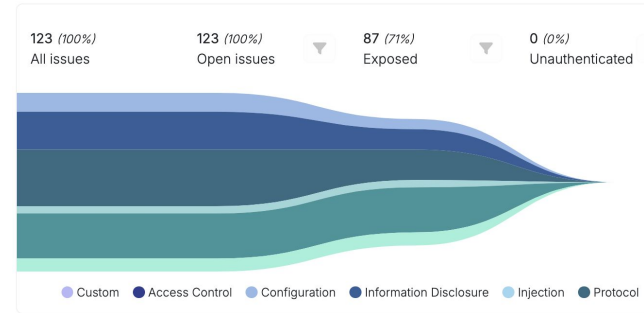
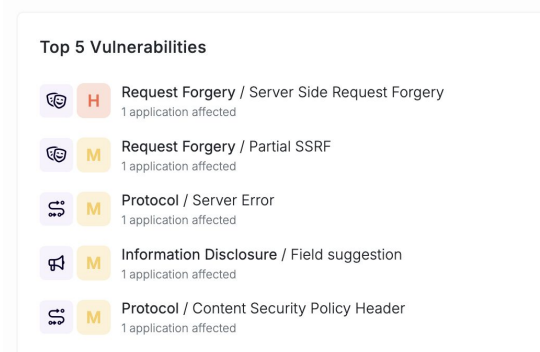
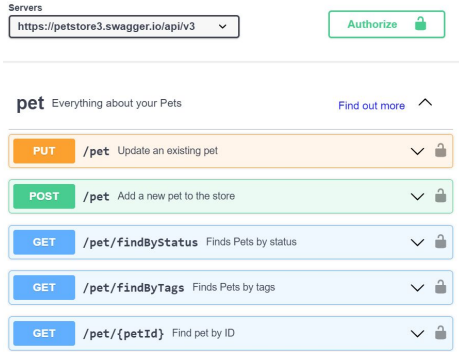
**Medical
Records**

IBANs

**Phone
numbers**

Emails

Conclusion: Mitigation strategies for Enterprises



1. Continuous Exposure Monitoring

Know your attack surface in real-time

2. Continuous Security Testing

Find vulnerabilities before others find it

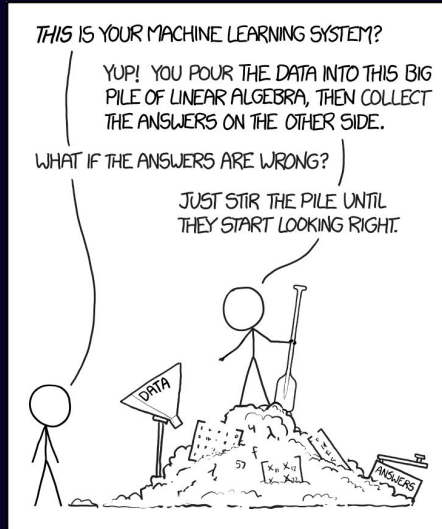
(CI/CD Integration)

3. Security by Design

Collaborate with devs to mitigate risk from conception to deployment

(Shift-left Security)

Conclusion: Mitigation



Review of AI generated code in critical paths
code with AI, but review your access control layer
or database schema,
I beg you