

MINDSHARE

2025 10-11 SEP

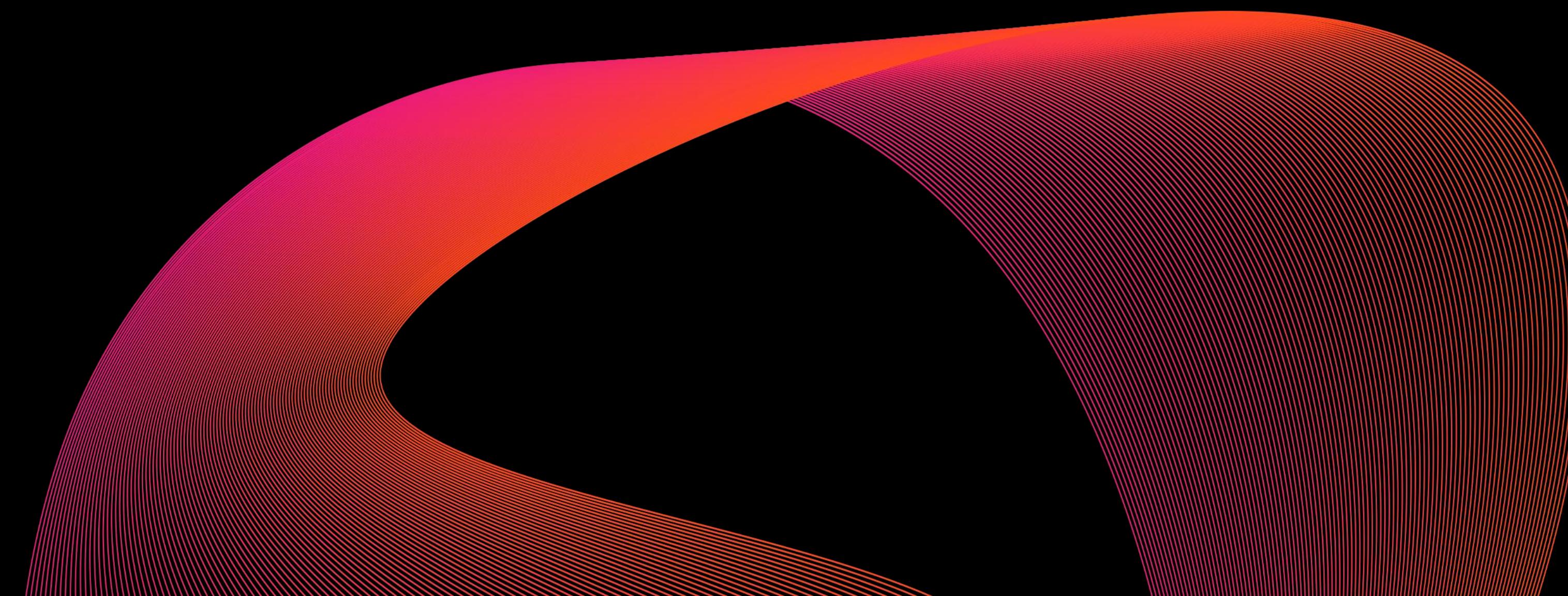
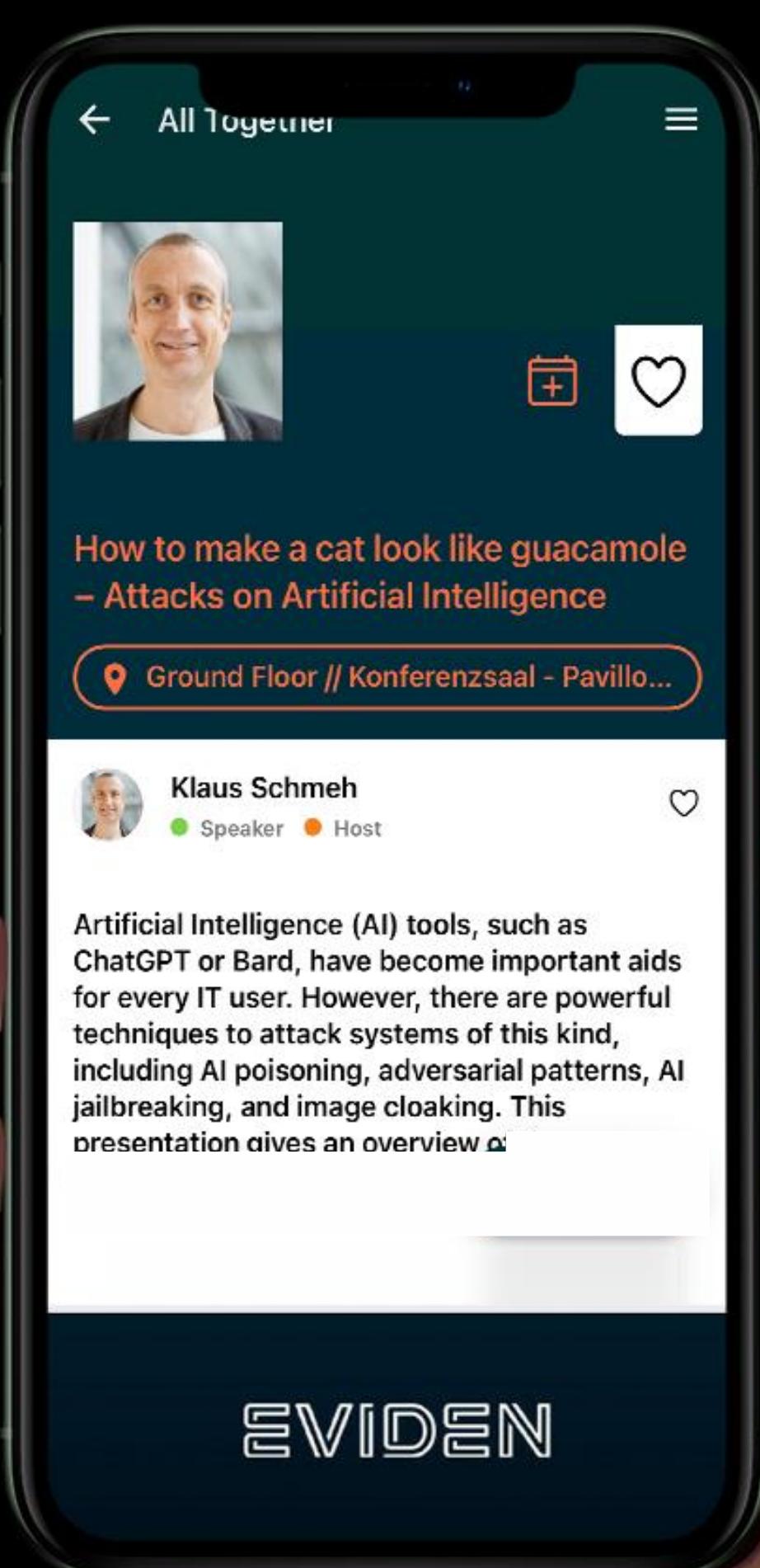
Securing  
Identity for  
our Digital  
Future

CYBERSECURITY  
LEADERSHIP FORUM

# MINDSHARE AGENDA



GET APP

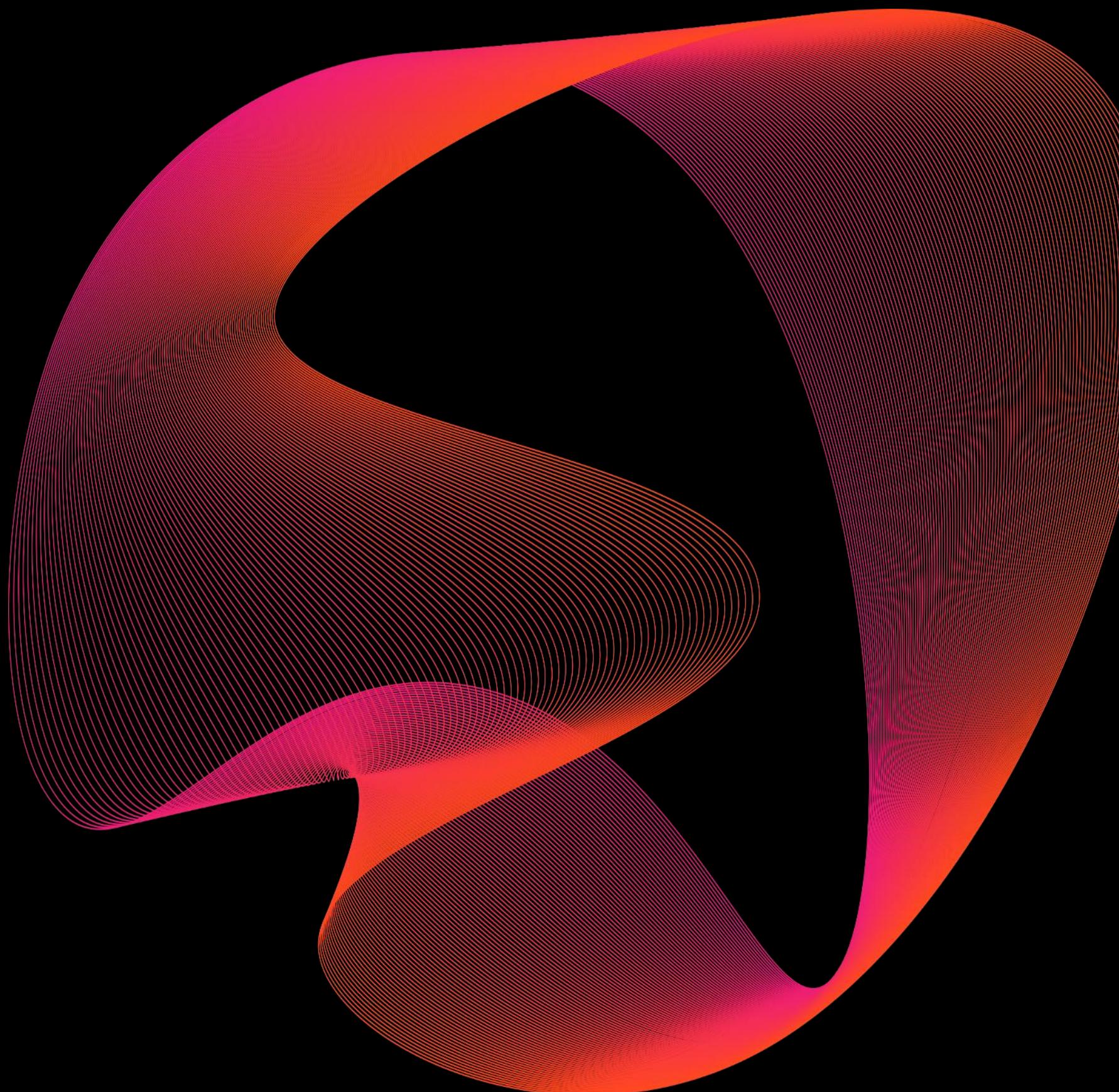


Dan Butnaru, Eviden  
Digital Identity

Code Signing:  
Protect your software,  
your partners,  
and your customers

# Code Signing

## Agenda



- Cybersecurity Context
- Example of use cases
- Technical overview
- Recommendations
- Takeaways

# Code Signing

## Cyber (in)security context

- Cyber attacks have risen dramatically

“Global critical infrastructure faced over 420 million cyberattacks, averaging approximately 13 attacks per second”<sup>1</sup>

61% of US Business affected by SLDC attacks between 2022 and 2023<sup>2</sup>

Solarwinds attack cost affected companies on average 11% of their annual revenue<sup>3</sup>

- Software is also a sovereignty issue
  - Public/private vital/important entities are exposed
  - Europe is moving forward : CRA, NIS-2, eIDAS

ars TECHNICA

FACEPALM GOES HERE

## Secure Boot is completely broken on 200+ models from 5 big device makers

Keys were labeled "DO NOT TRUST." Nearly 500 device models use them anyway.

DAN GOODIN - 25 JULI 2024 20:00 | 201

≡ SIW SECURITY INFOWATCH.COM ADVERTISE SUBSCRIBE FORUMS BUYER'S GUIDE CONTACT US CONNECT ON LINKEDIN

SECURITY EXECUTIVES INTEGRATORS VIDEO SURVEILLANCE ACCESS & IDENTITY CYBERSECURITY ARTIFICIAL INTELLIGENCE ALARMS & MONITORING RESIDENTIAL TECH

CYBERSECURITY

## Vulnerability management lessons from the JetBrains security incident

Despite the quick fix and the company claiming that there was no evidence that they had been attacked, there are lessons to be learned from this incident.

Ryan Smith

May 17, 2024

ars TECHNICA

TYPOSQUATTING AHEAD

## Hundreds of code libraries posted to NPM try to install malware on dev machines

These are not the developer tools you think they are.

DAN GOODIN - 5 NOV. 2024 00:28 | 63

An ongoing attack is uploading hundreds of malicious packages to the open source node package manager (NPM) repository in an attempt to infect the devices of developers who rely on code libraries there, researchers said.

The malicious packages have names that are similar to legitimate ones for the Puppeteer

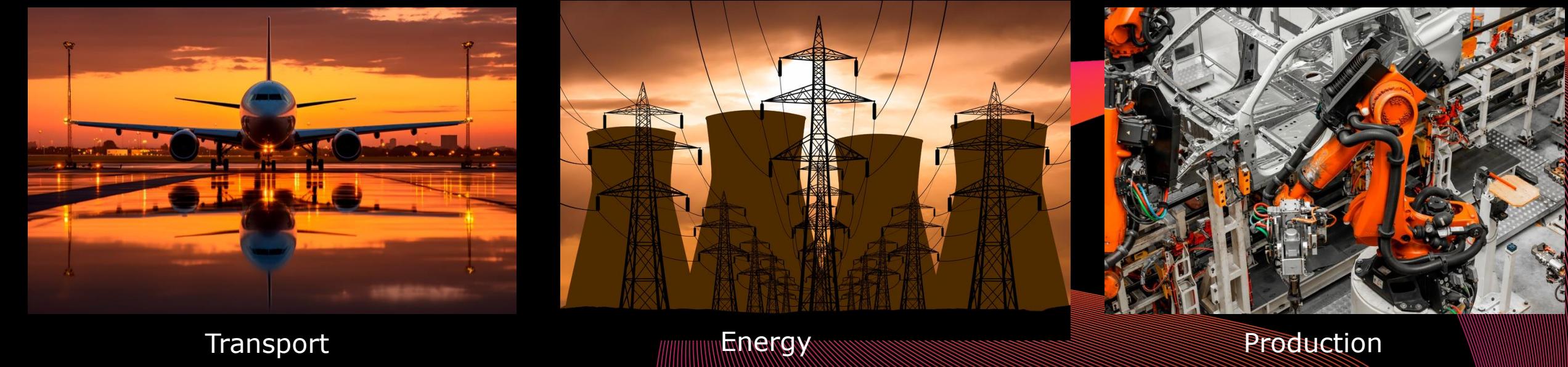
# Code Signing

## Typical use cases

S/W Developppment Lifecycle & Supply Chain

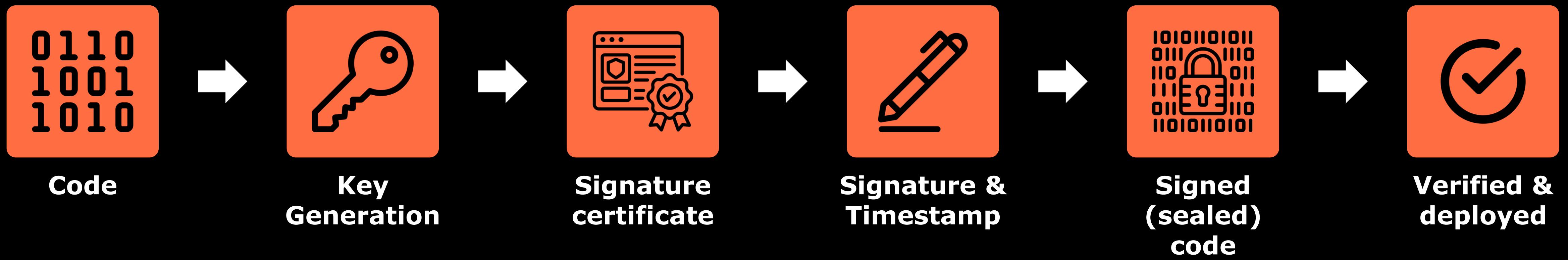


Update/upgrade of embedded S/W



# Code Signing

## Basics – Digital Signature Process



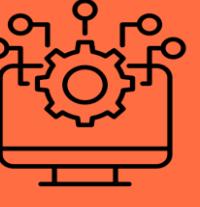
Code signing seals cryptographically the content to guarantee integrity and authenticity

# Code Signing

## Important subjects to focus on



Convenience



Integration into S/W Development Lifecycle (SDLC)



Audit and Traceability



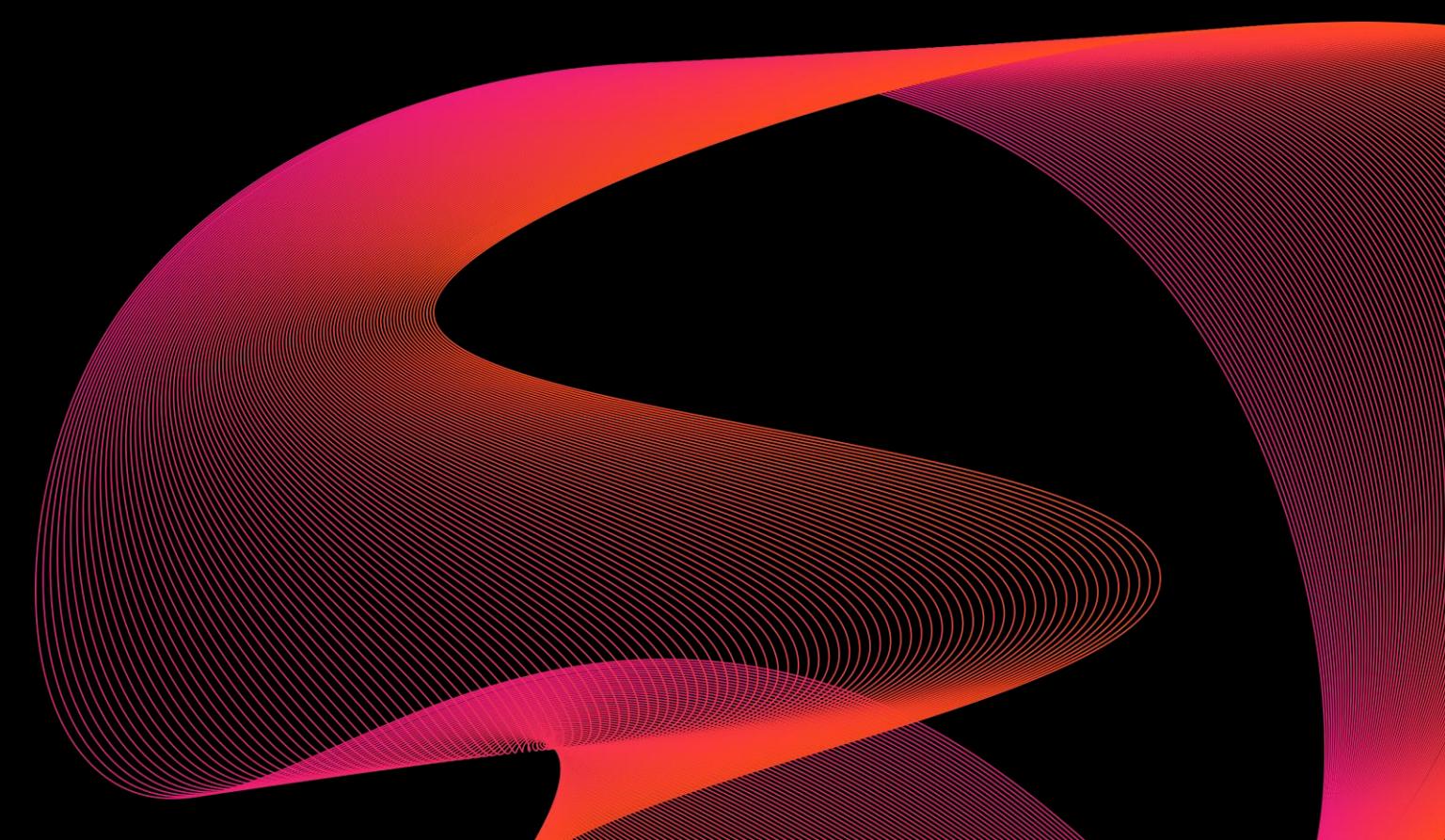
Secure Signature Process



Central Key Management

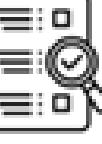
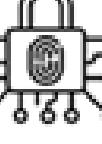


Compliance



# Code Signing

## Comparison of implementations

	Software	HW Token	HW Token & processes	Server Platform
 Convenience	✓	✗	✗	✓
 Integrated to SDLC	✗	✗	✗	✓
 Audit & Traceability	✗	✗	✓	✓
 Secure Signature Process	✗	✓	✓	✓
 Central Key Management	✗	✗	✗	✓
 Compliance	✗	✗	✓	✓

# Code Signing

## Take aways



- Essential Security Best Practise
- Guarantees S/W authenticity & integrity
- Secures S/W supply chain
- Protects critical infrastructure
- Not *what*, but *how* !
- EU Frameworks (CRA, NIS 2, eIDAS)

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# Questions

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## TAKE A MINUTE AND GIVE US FEEDBACK

