



# APISEC

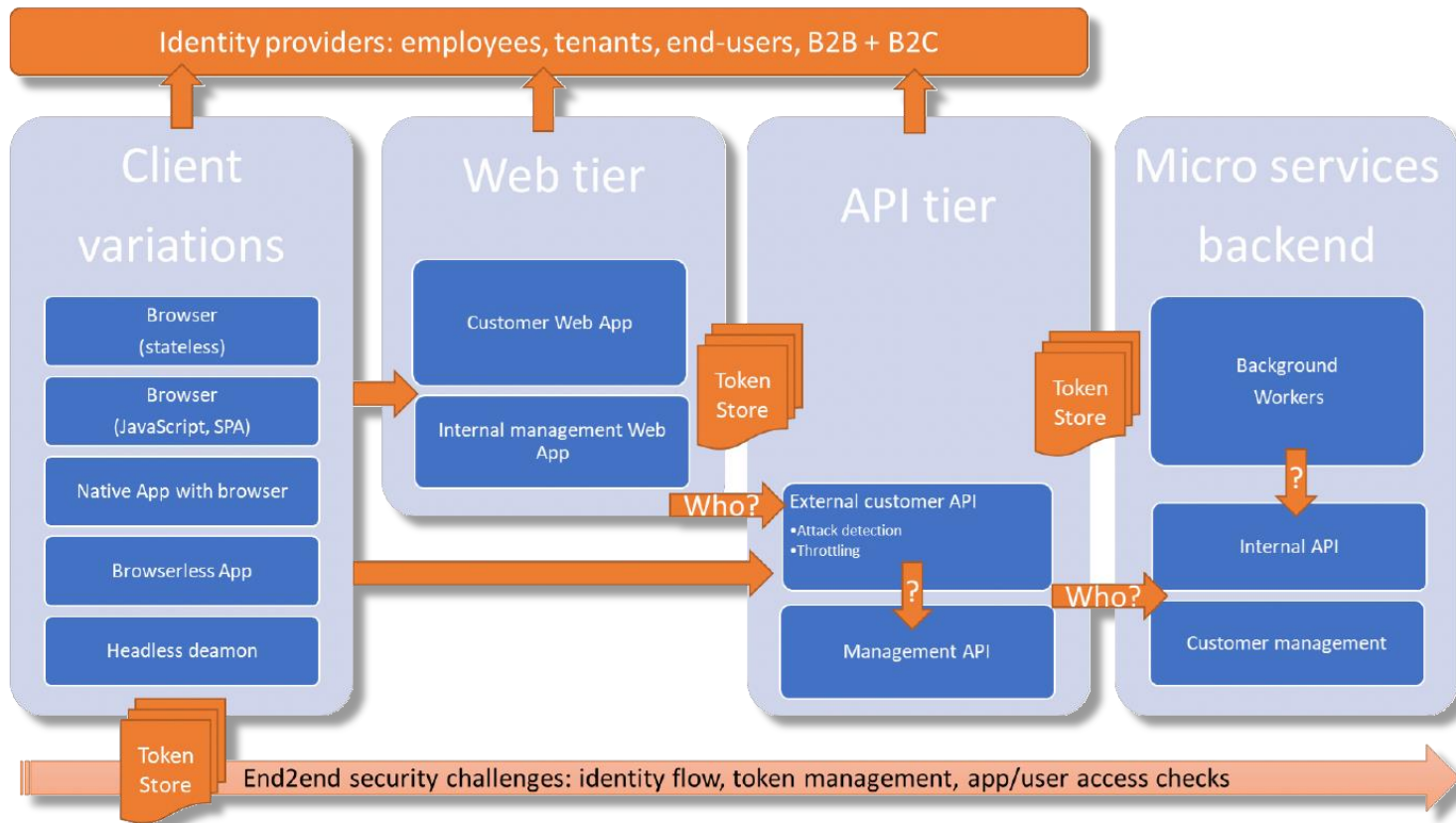
Secure APIs for fintech companies

 **DistriNet**

# Context and motivation



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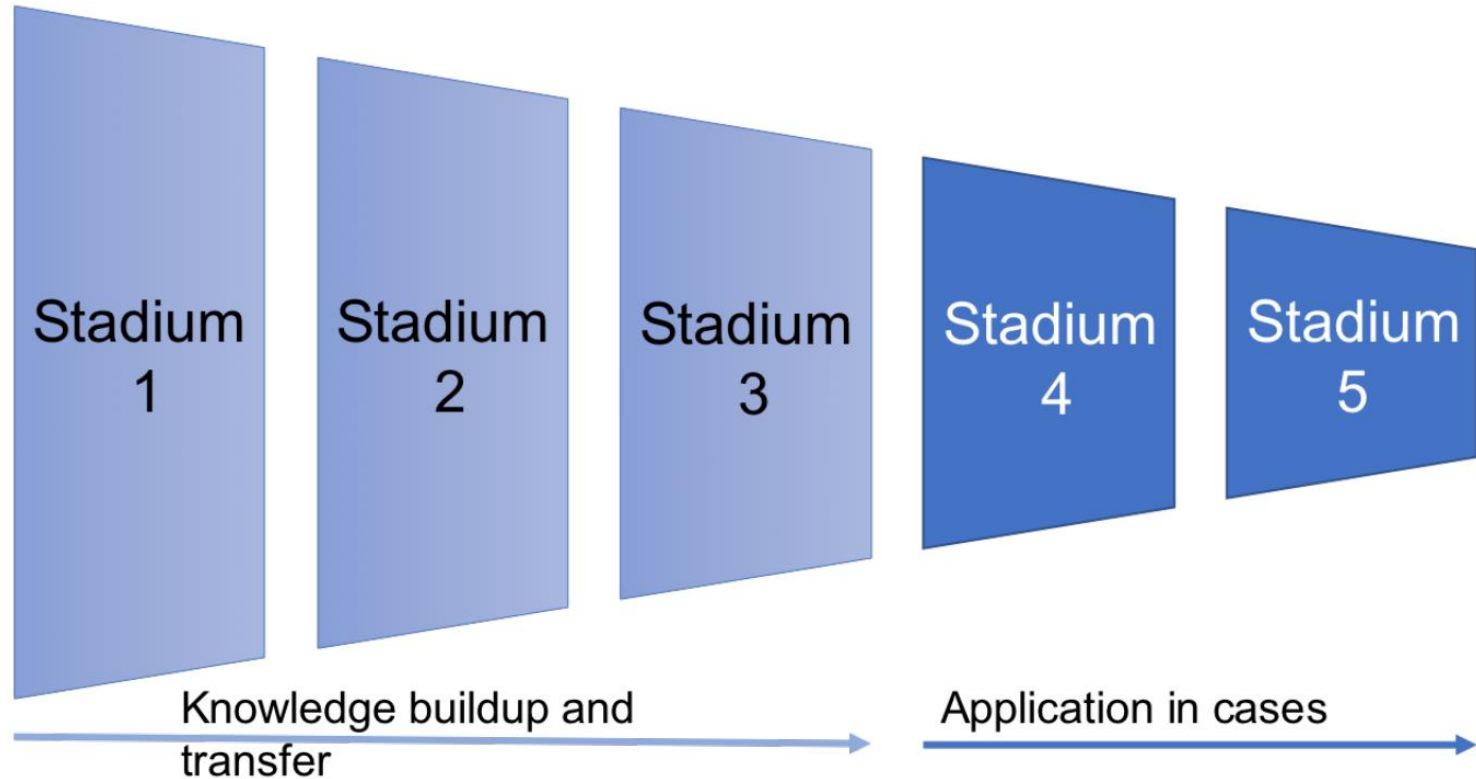
- › Akamai observed 85,422,079,109 credential abuse attacks over a 2-year period
  - › 473,518,955 against financial services, or ~ 650,000 attacks/day
  - › 20% were against obvious API endpoints

“ Finally, API usage and widespread adoption have enabled criminals to automate their attacks. This is why the volume of credential stuffing incidents has continued to grow year over year, and why such attacks remain a steady and constant risk across all market segments.

# Aim of the project

- › One main goal: ***knowledge building and transfer with regard to safe and robust use of APIs***
  - › End-to-end architectures, blueprints, and trade-off analyses
  - › Security of API clients
  - › Server-based security

# Phased approach



# Timeline

**MARCH 2020**

**Kick-off**

Official start of the project

**FEB 2022**

**End of group guidance**

End of project for the research partner; start of the development of company-specific cases

**FEB 2023**

**End Project**

End of the project and deadline for submitting company-specific cases



# Agenda

- › Welcome & Intro
- › Presentation “API Security, a nightmare?”
- › Plan of action
- › Presentation of the partners
- › Virtual networking event

# API Security, a nightmare?

Erwin Geirnaert, Shift Left Security

# Plan of action

# COOCK program

- › Flemish Government Decree to regulate support for projects  
Collective R&D and Collective Knowledge Dissemination  
(COOCK)
  - » Valorisation of (basic) research results by accelerating the introduction of technology and / or knowledge at a wide group of companies
  - » Translating new technology, new knowledge and transferring it to usable concepts / prototypes that respond to common needs of and / or offer new market opportunities to a wide range of companies

# COOCK project

COOCK project = 2 complementary parts

**Part A**  
support to research  
organizations

**Part B**  
support  
companies

# Activities within COOCK part A: what to DO ...



- › **Collective research: TRANSLATE research**  
(possibly knowledge building and / or generic cases)
- › **Broad knowledge dissemination**  
(seminars / publications, workshops, lectures, ...)

# Activities within COOCK part A: what NOT to do...



- › 1-on-1 activities with companies without (or insufficient) generic learning component
- › Prenormative activities, tests required for registration, education / training
- › Strategic basic research
- › Pure roadmap studies / market studies / preparation of internationalization strategy
- › Basic operation of research organization
- › Cluster organizations, federations or collective centers
- › Policy preparation work

# APISEC part A

- › Interactive seminars
  - » Hands-on workshops with specific technologies
  - » Group coaching on trade-off analysis
- › Public deliverables
  - » white papers, evaluation grids and implementation examples
- › Public outreach
  - » seminars, workshops, conferences and other events



## Part B... company-specific cases

- › Requirements?
  - › Unique and clear link with part A.
- › Support can be applied for through support programs VLAIO
  - › SME portfolio, development projects, SME growth subsidies, ...
  - › Cases at the company's own expense also count towards KPIs

# Interact with partners

- › A meeting about monthly
  - › Presentations from technology experts and partners
  - › Interactive round table
  - › Discussion of fintech use cases
  - › Clustered knowledge transfer
- › Parallel: building a long-term knowledge center

# Presentation of the Partners

# DistrinEet

Thank you!

<https://distrinet.cs.kuleuven.be/>