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# RSA® Conference 2022

San Francisco & Digital | June 6 – 9

## TRANSFORM

SESSION ID: STR-M02

# Are Low-Code and No-Code Tools a Security Risk?

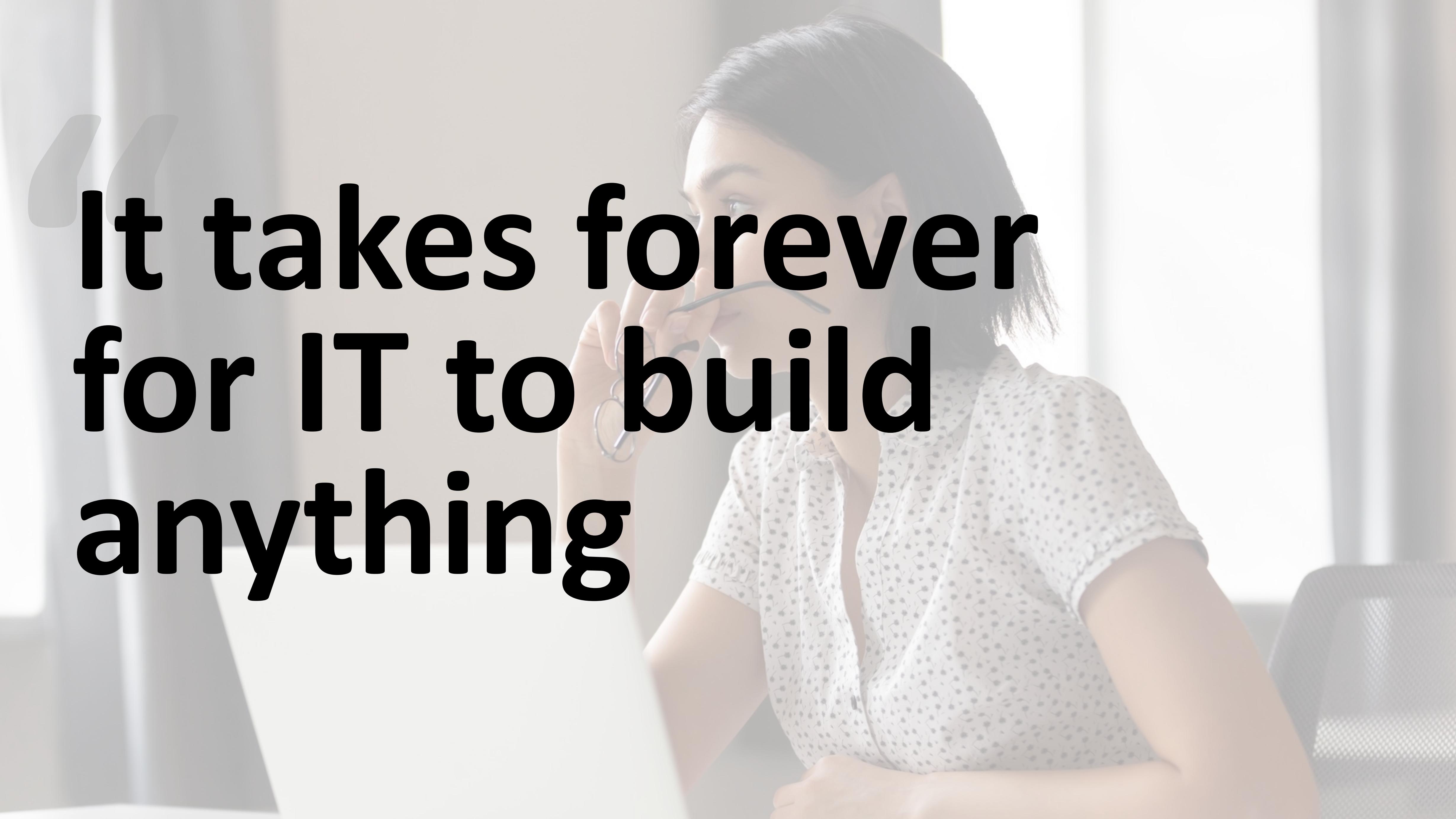
**Mark Nunnikhoven**

Distinguished Cloud Strategist  
Lacework  
@marknca





**“It takes forever  
for IT to build  
anything”**





A black and white photograph of a young man with short curly hair and glasses, wearing a light-colored plaid shirt. He is sitting at a desk, looking down at a laptop screen with a thoughtful expression. On the desk, there is a white mug, a keyboard, and some papers. In the background, there's a window with a view of a building and some plants.

**Everyone thinks  
their request is  
special**



VS



## Business challenges

- Need to move fast to address customer needs & market trends
- Streamline processes to simplify workflows
- IT is too complicated distracting users from their business focus

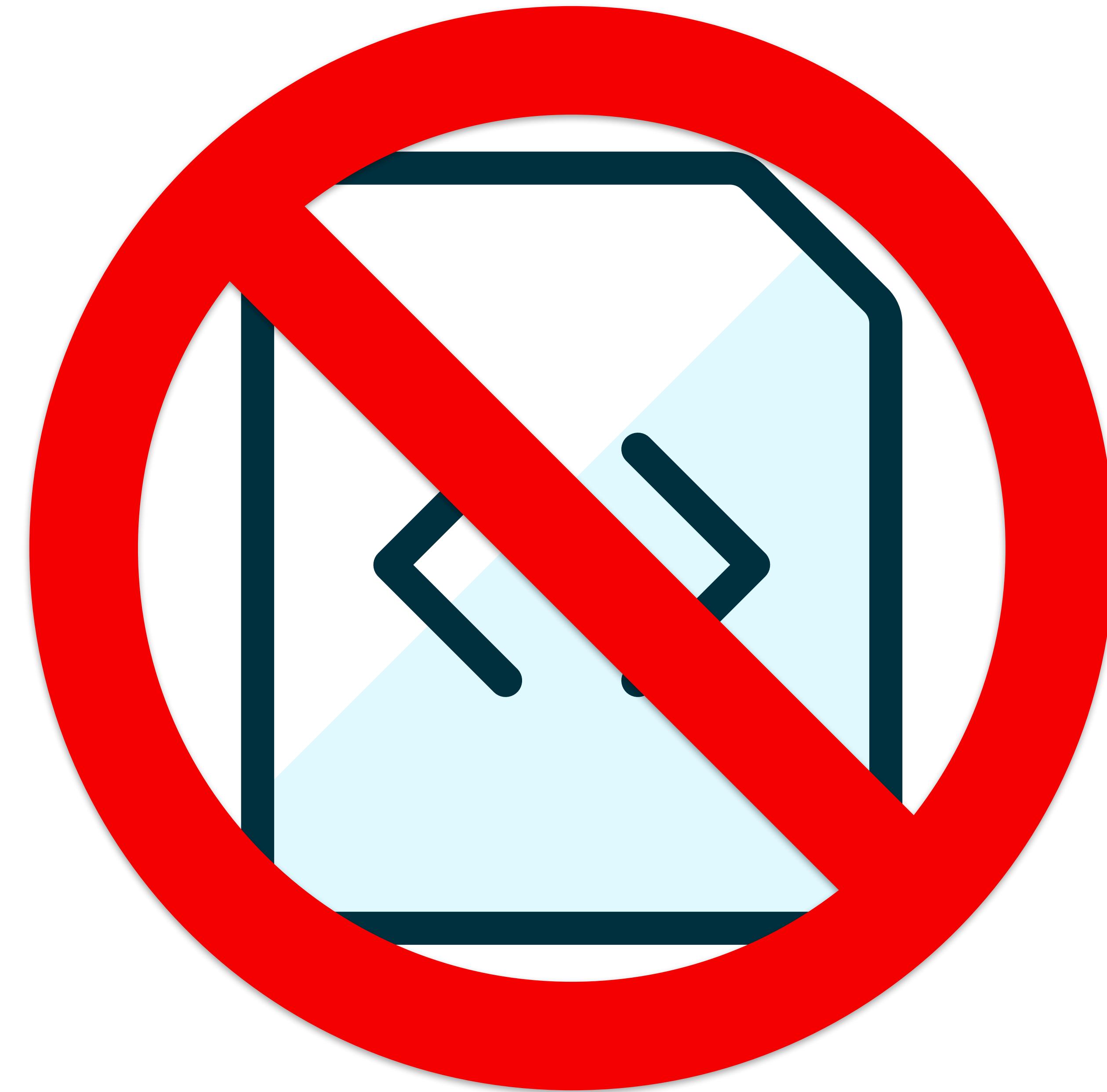
## Development challenges

- Business struggles to define clear requirements
- Developers are a limited resource
- Resilient systems required more than just developers (ops, security, etc.)





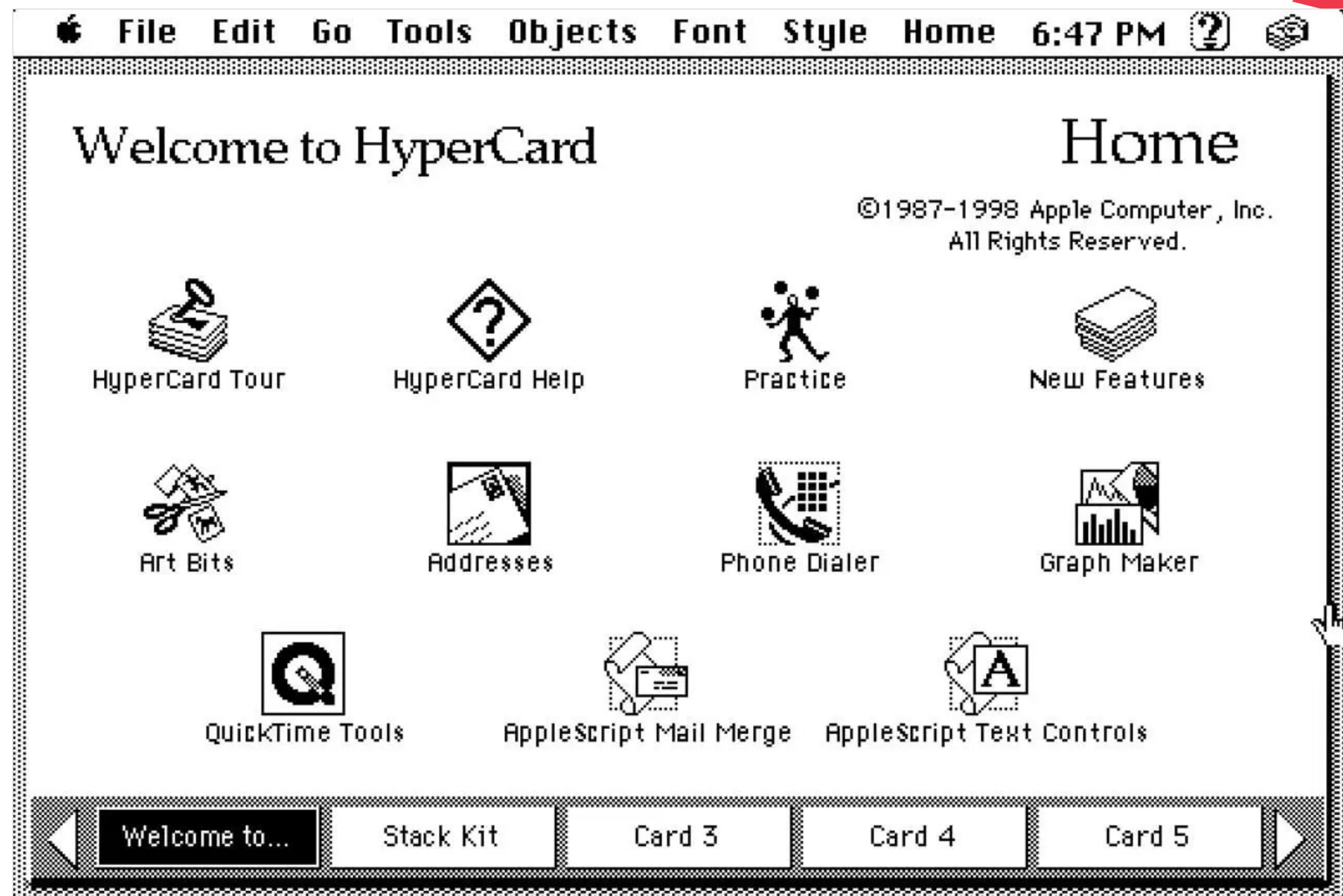
**Business users  
should build their  
own solutions**

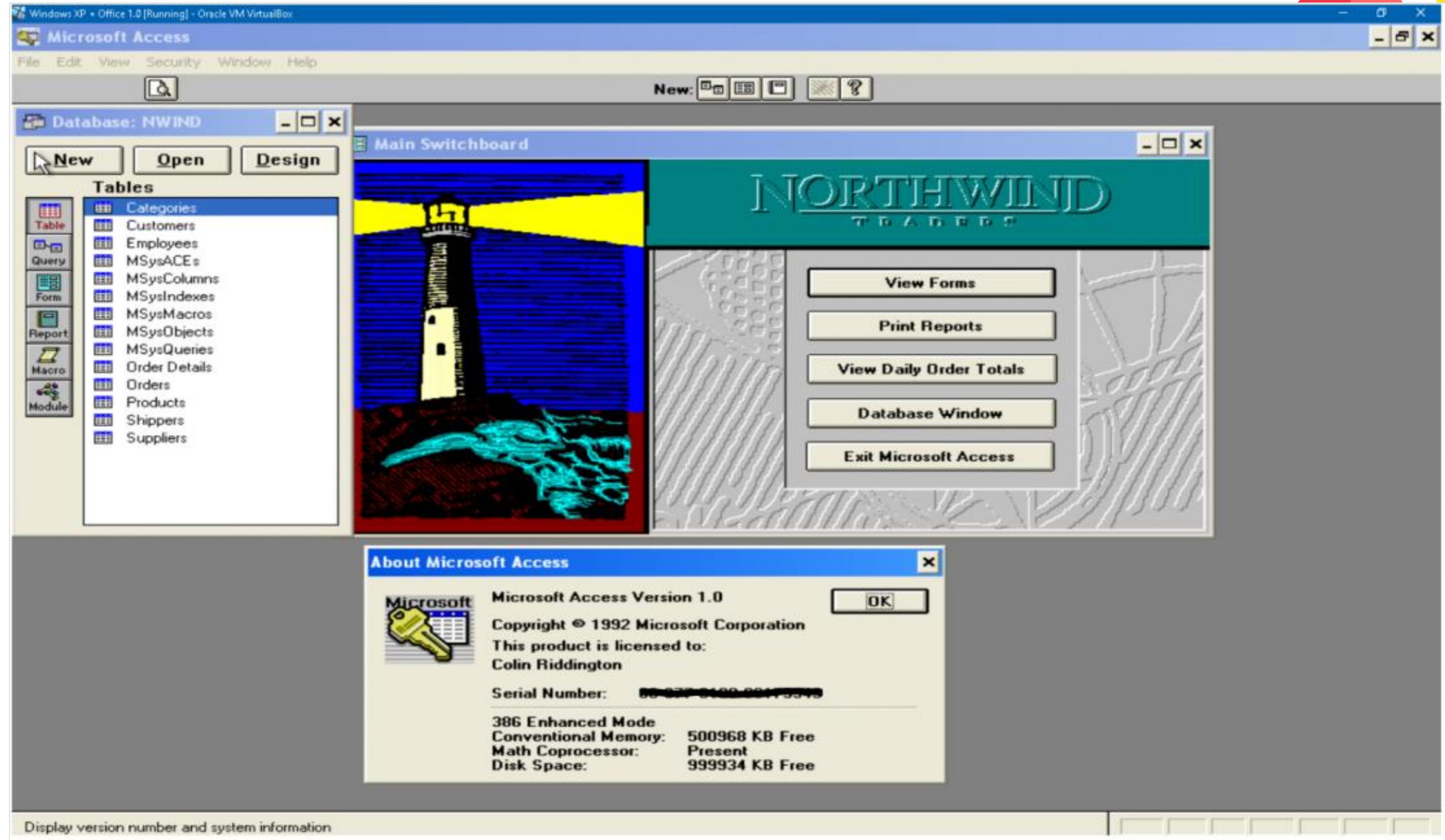


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This is not a new trend







**Invoice**

Records: 2 Total (Unsorted) Show All New Record Delete Record Find Sort Layout: Record Detail-Invoices View As: Preview A3 Edit Layout

## Invoices

Customers Products Invoices Preferences

### Invoice No. 7

#### Del McCoury Band

**Detail** Order Mix View Invoice ?

Invoice ID:	7	Ship Date:	06/25/09	Print Invoice
Sale Date:	06/24/09	Status:	New	Email Invoice
Bill To:	Del McCoury	Ship To:	Del McCoury	Print Address Label
Email:	bobby@mpanashville.com	Email:	bobby@mpanashville.com	Print Packing Slip
Company:	Del McCoury Band	Company:		
Address:	124 12th Ave. South	Address:	124 12th Ave. South	
City:	Nashville	City:	Nashville	
State:	TN	State:	TN	
Zip:	37203	Zip:	37203	
Country:	USA	Country:	USA	Update Inventory

**Product ID** Product Name **Part Number** **Taxable** **Qty** **Price** **Extended Price**

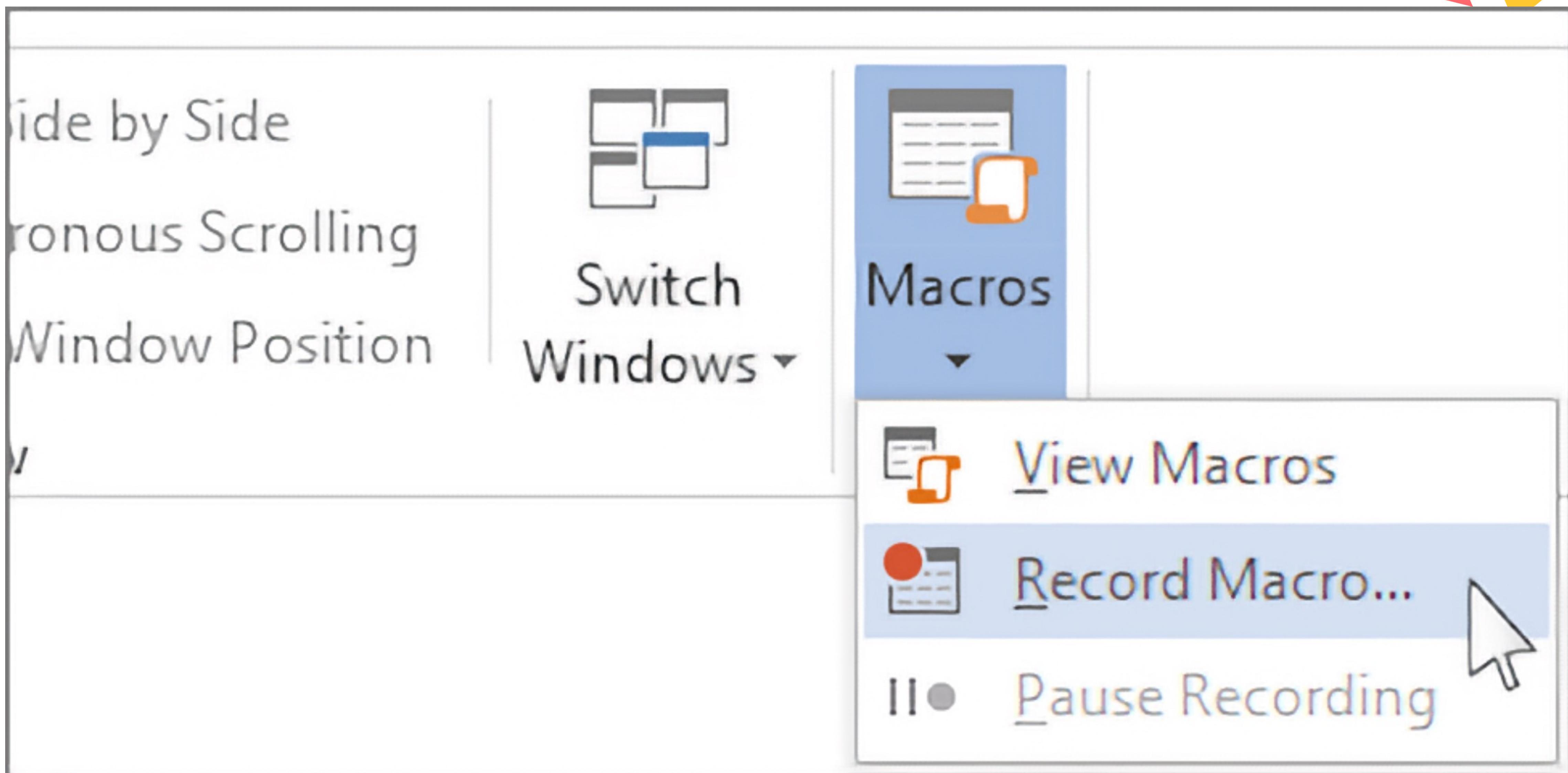
09	Cremora SB-3 Bass Fiddle (3/4)	SB3	<input checked="" type="checkbox"/>	1	\$1995.95	\$1995.95	X
04	Martin D-16GT Gloss Top Dreadnought Guitar	D-16GT	<input checked="" type="checkbox"/>	1	\$1500.95	\$1500.95	X
10	Barcus Berry Chromatic Acoustic/Electric Violin/Fiddle	BAR-CAE	<input checked="" type="checkbox"/>	1	\$899.99	\$899.99	X
			<input type="checkbox"/>				

**Notes**

Discount Rate: **Subtotal:** \$4,396.89  
 Sales Tax Rate: **Discount:** \$0.00  
 Terms: Net 30 **Tax:** \$0.00  
 F.O.B: **Shipping:**  
 Ship Via:  Air  Ground **Total:** \$4,396.89

Created By: Rick Kalman Date: 06/24/09 Modified By: Rick Kalman Date: 07/29/09

100 Browse



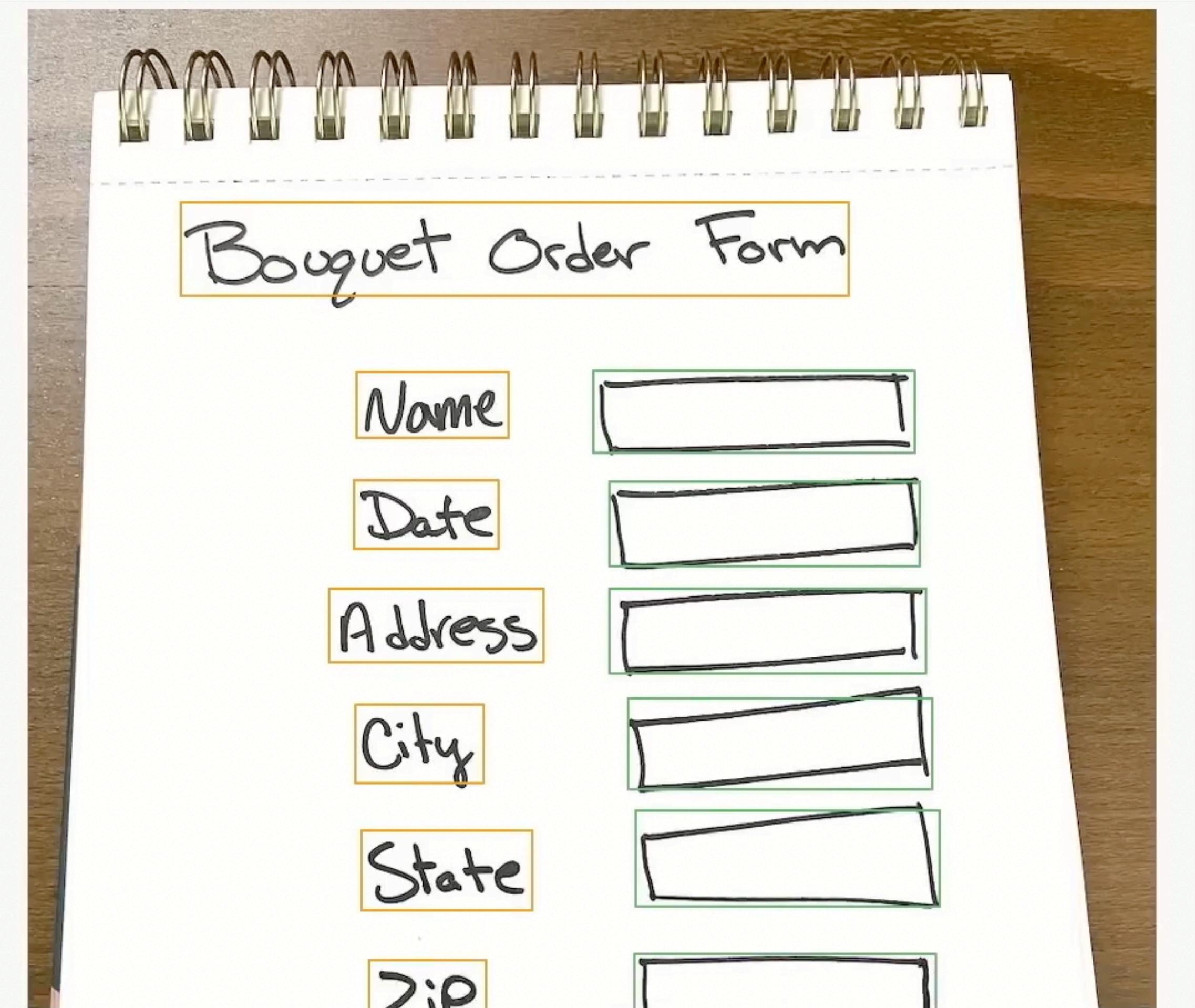




## ← Draw tags and assign components

- Image
- Components
- Data
- Table
- Columns (optional)
- Review

Draw boxes, or tags, around things that should appear in the app. Then for each tag, assign a component. If something doesn't have a tag, draw a box around it. Learn more about tags



Tags applied Guidance

### Tagging

Each tag corresponds to a component in the app. You can draw new tags, change them, or remove them. Tagging tips

- Text label
- Text input
- Date picker

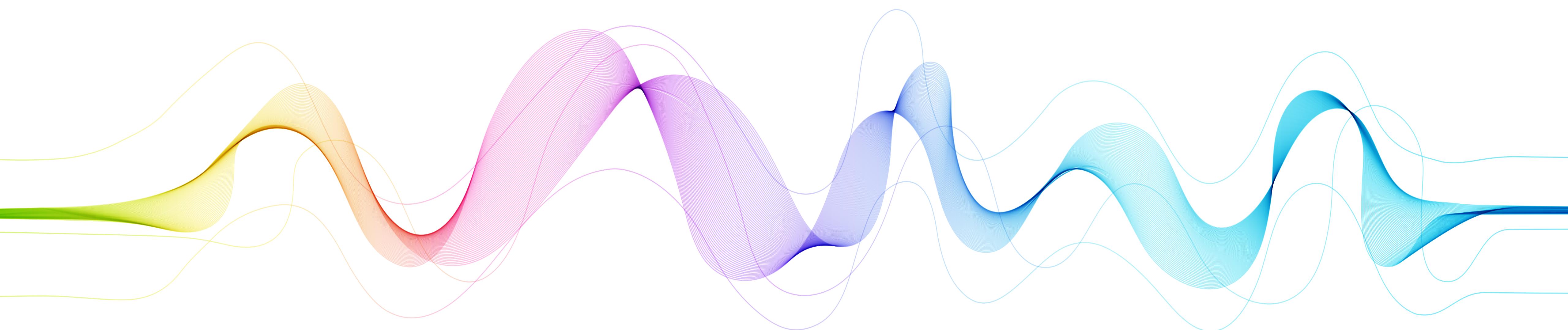
### Get help or send feedback

Get the answers you need, or tell us about your experiences.

[Get help](#)

[Back](#) [Next](#)

[Close](#)



**No-code**



**Low-code**

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## Rapid growth



A close-up photograph of a person's hand holding a white smartphone. The phone's screen displays the Gartner logo, which consists of the word "Gartner" in a blue, sans-serif font with a registered trademark symbol. The background of the image is blurred, showing what appears to be a keyboard or a desk surface.

**65% of application  
development will be  
low code by 2024.**

A Low-code application platform is “an application platform that supports rapid application development, one-step deployment, execution and management using declarative, high-level programming abstractions.”

## Some of the current offers



.bubble  
buildfire



# OWASP Top Ten (First Draft)

- (1) Identity misuse
- (2) Credential sharing
- (3) Authentication and security communication failures
- (4) Data leakage & unexpected consequences
- (5) Security misconfiguration
- (6) Injection handling failures
- (7) Vulnerable, unmanaged, and untrusted components
- (8) Data and secret handling failures
- (9) Asset management failures
- (10) Security logging and monitoring failures

## Contained

- Data stays within service
- Component-based processing
- Risk evaluation like any other SaaS application

## Connected

- Direct connections can be made to other services
- Flexible processing models
- Uh-oh...

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## A quick example





amazon  
**Honeycode**  
**BETA**

Announcing the new Honeycode experience! Create an app to give it a try. [Read our FAQ](#) [X](#)

HONEYCODE

DASHBOARD

[My Apps](#) My Apps

[What's new](#) What's new

TEAMS

[Mark Nunnikhoven's Team](#) ...

LEARNING & RESOURCES

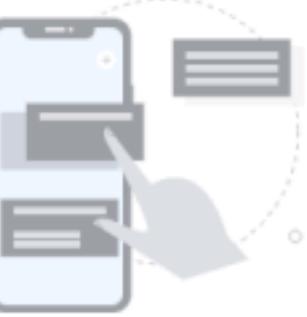
[New experience guide](#) NEW

[Classic builder guide](#)

[Ask the community](#)

Hi Mark!

[Create app](#)

 Create your first app.

[Get started](#)

Announcing the new Honeycode experience! Create an app to give it a try. [Read our FAQ](#) [X](#)

HONEYCODE

DASHBOARD

Hi Mark!

[Create app](#)

[My Apps](#)

[What's new](#)

TEAMS

Mark Nunnikhoven's Team ...

LEARNING & RESOURCES

New experience guide NEW

Classic builder guide

Ask the community

Pick an app. Any app.

Get a head start with one of our templates.

Search templates

All

Campaign Manager

Keep campaigns on time and on budget.

Event Planner

Oversee time-based planning for meetings and parties.

Expense Reporter

Submit expenses wherever you are.

Inspection Manager

Conduct inspections, anywhere.

Inventory System

Collect details and keep tabs on stuff.

Lead Tracker

Manage lead details in one easy to use app.

Product Roadmap

Project Tracker

Back

Create

app.honeycode.aws

STARTER APP Item EDIT SCREEN SHARE ? MN

Build your own app using a common screen pattern - the initial screen lists top-level information, selecting an item displays further details where updates can be made, plus an entry screen where users add new items.

## Items

Add an item

**Item 1**

Description  
Item 1 description

Contact  
Mark Nunnikhoven

**Item 2**

Description  
Item 2 description

Contact  
John Doe

Congratulations & welcome to your live app!

This is your fully functional app. Go ahead and take it for a spin! To make changes to your app, select edit screen.

Green Status Date 6/14/22

Yellow Status Date 7/5/22

The screenshot shows a Honeycode application window titled 'app.honeycode.aws'. At the top, there's a navigation bar with icons for file operations, a shield, a lock, a cube, JS, and a cloud. The title bar shows the URL 'app.honeycode.aws'. On the right side of the title bar are buttons for 'EDIT SCREEN', 'SHARE', a bell icon, a question mark, and initials 'MN'. Below the title bar, the main content area has a dark background. A central modal window is open, displaying the message 'Congratulations & welcome to your live app!' in bold black text. Below the message, a smaller text says 'This is your fully functional app. Go ahead and take it for a spin! To make changes to your app, select edit screen.' In the background, there are two card-like items labeled 'Item 1' and 'Item 2'. Each item has a title, a 'Description' section, and a 'Contact' section. Item 1 has 'Item 1 description' and 'Mark Nunnikhoven' as contact. Item 2 has 'Item 2 description' and 'John Doe' as contact. To the right of these items, there are two cards for 'Status' and 'Date'. The first card for 'Green' status shows 'Green' and '6/14/22'. The second card for 'Yellow' status shows 'Yellow' and '7/5/22'. Each card has a trash bin icon at the top right.

This browser is not fully supported (yet!). Log in with [Google Chrome](#) for the best experience. [Learn more](#)

STARTER APP ... INSERT + VIEW APP SHARE MN

APP SCREENS < Item

Item Form

Item Details

STARTER APP Item

Build your own app using a common screen pattern - the initial screen lists top-level information, selecting an item displays further details where updates can be made, plus an entry screen where users add new items.

Items

Add an item

**Item 1**

Description  
Item 1 description  
Contact  
Mark Nunnikhoven

Status  
Green

Date  
6/14/22

**Item 2**

Description  
Item 2 description  
Contact  
John Doe

Status  
Yellow

Date  
7/5/22

PROPERTIES >

DATA >

APPEARANCE >

FIELDS >

Title  
Items

Image  
+ Field

Fields  
Aa Item

Aa Description

Q Contact

+ Field

Aa Status

Calendar Date

+ Field

ACTIONS >

ADD ONS >

This browser is not fully supported (yet!). Log in with [Google Chrome](#) for the best experience. [Learn more](#)

STARTER APP ... INSERT + OVERVIEW VIEW APP SHARE ? MN

APP SETTINGS

APP NAME Starter App

APP THEME Beehive

SCREEN NAVIGATION

Icons on mobile, text on web. [ⓘ](#)

Homepage

Item

Items

Item 1

Item 2

Item Form

Add an item

Item Details

Item

Version

APP SETTINGS

APP NAME Starter App

APP THEME Beehive

SCREEN NAVIGATION

Icons on mobile, text on web. [ⓘ](#)

Homepage

Item

Other screens

Select screen

Item Form

Add an item

Item Details

Item

Version



Live in under one  
minute...including  
mobile

We're here to help! Find help for the experience you're building in. To make it easy, articles are tagged for you. [Check out the article](#) X

## 🔒 Honeycode Functions

Classic Experience Functions & Formulas classic new-experience

 LoriA 35 Apr '20

[Simplify formula writing](#)  
[Honeycode functions](#)  
[Common functions](#)  
[A](#)  
[C](#)  
[D](#)  
[E](#)  
[F](#)  
[G](#)  
[H](#)  
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[P](#)  
[R](#)  
[S](#)  
[T](#)  
[U](#)  
[V](#)  
[W](#)  
[X](#)  
[Y](#)

### Simplify formula writing

Think of a function as a kind of **built-in formula**. Honeycode supports many common functions you may be familiar with. But, you'll also find some new ones that are totally unique to Honeycode.

To make formula writing even simpler, Honeycode **provides suggestions** as you type. This feature works anywhere you'd enter a formula, just activate it by typing the = sign.

### Honeycode functions

Function	Description	Parameters
<a href="#">FILTER</a>	Returns any rows that match the filter conditions.	table, condition, [condition_parameters, ...]
<a href="#">FILTERDIFF</a>	Returns rows that are unique to the first filter.	filter, filter
<a href="#">FINDLASTROW</a>	Returns the last row that matches the condition. The first parameter can be a filter or table.	table, condition, [condition_parameters, ...]
<a href="#">FINDROW</a>	Returns the first row that matches the condition. The first parameter can be a filter or table.	table, condition, [condition_parameters, ...]
<a href="#">GETROW</a>	Returns a rowlink based on an offset to a specific row.	table, offset, linked_row
<a href="#">INDEXROW</a>	Returns a rowlink by index in a specific domain.	table, index
<a href="#">ISREF</a>	Tests if the argument is a reference to a cell or range of cells.	value
<a href="#">ROWS</a>	Returns the number of rows in a given reference.	reference

honeycodecommunity.aws

What's New

Connect to your existing tools and data

Honeycode announces integrations with Zapier and Amazon AppFlow, allowing you to connect your existing workflows and data sources with your Honeycode apps, plus new Honeycode APIs!

These integrations, along with new Honeycode APIs, enable end-to-end solutions for your team and improve business productivity. They also bring together SaaS applications and AWS services with Honeycode apps, to help team achieve even more in their business processes.

Honeycode APIs allow you to read and write directly from Honeycode tables. Use APIs to pull table and column metadata, then use the read and write APIs to programmatically read and write from the tables.

External Applications

The diagram illustrates the integration of Honeycode with external applications. At the center is a Honeycode application window showing a table with columns like Description, Amount, Department, and Status. Surrounding this central application are three main integration points: Zapier (represented by a red asterisk icon), AppFlow (represented by a dark blue circular icon with a white double-headed arrow), and a ring of various SaaS logos including Salesforce (blue cloud), Slack (purple hexagon), and others. The entire interface is presented within a web browser window with standard navigation and search tools.

Two-way integrations, new APIs, team settings, conditional styling, and more improvements

What's New

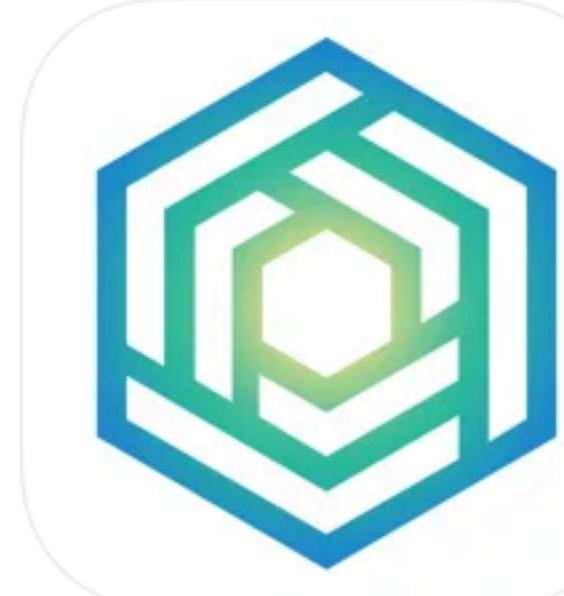
- Connect to your existing tools and data
- Import data to existing tables
- Control how an object looks in your app with styling rules
- Allow app users to filter and sort lists

What's Improved

- Enhanced app wizard
- Manage team level access and authorizations with Team settings
- Support for single sign-on with popular identity providers

Import data to existing tables

This app is available only on the App Store for iPhone.



**Amazon Honeycode** 4+

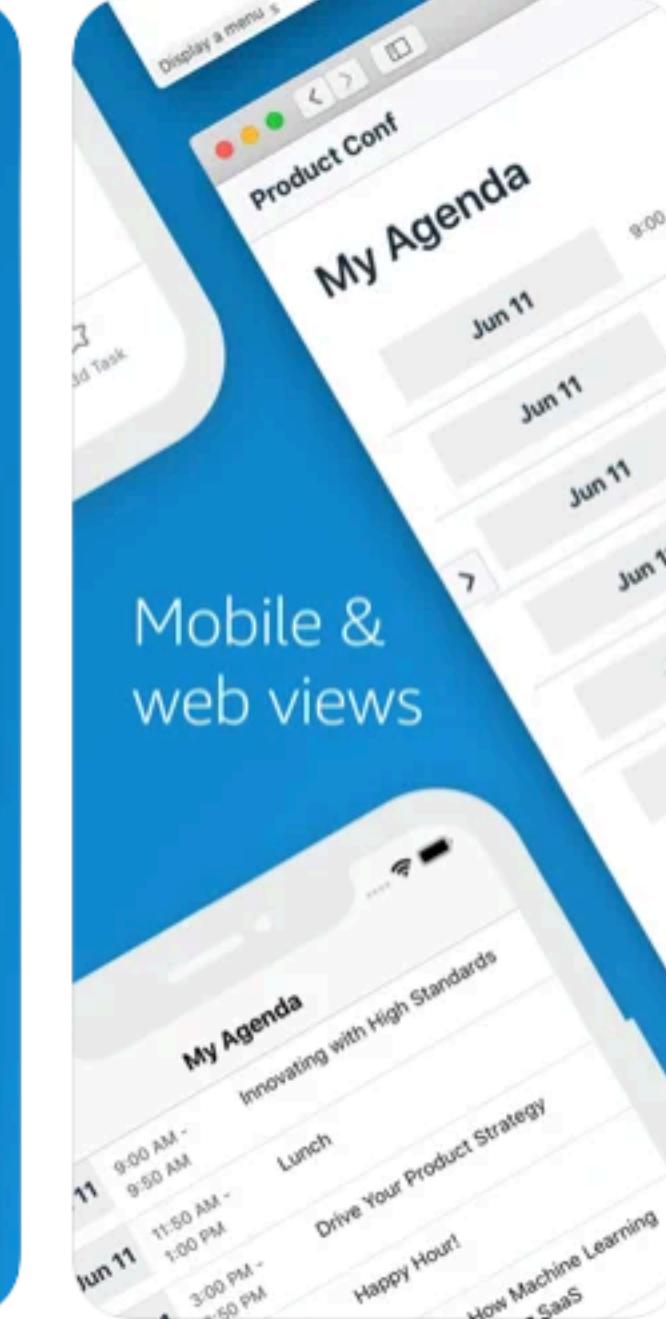
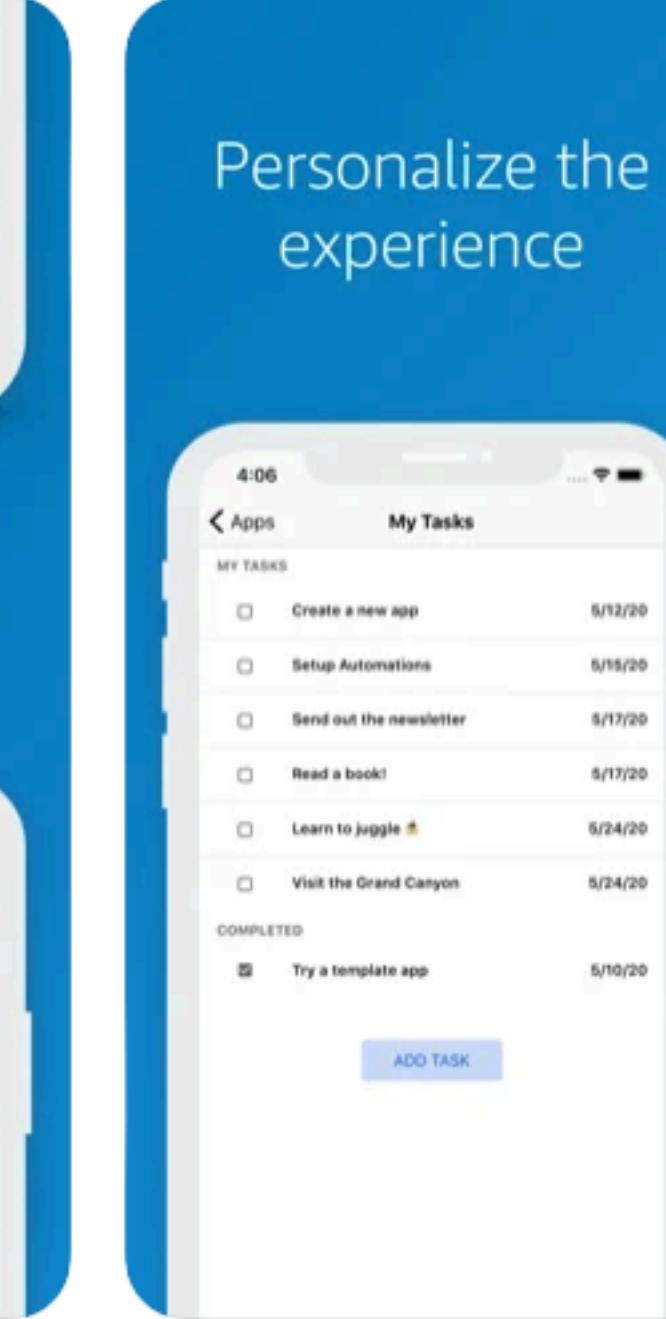
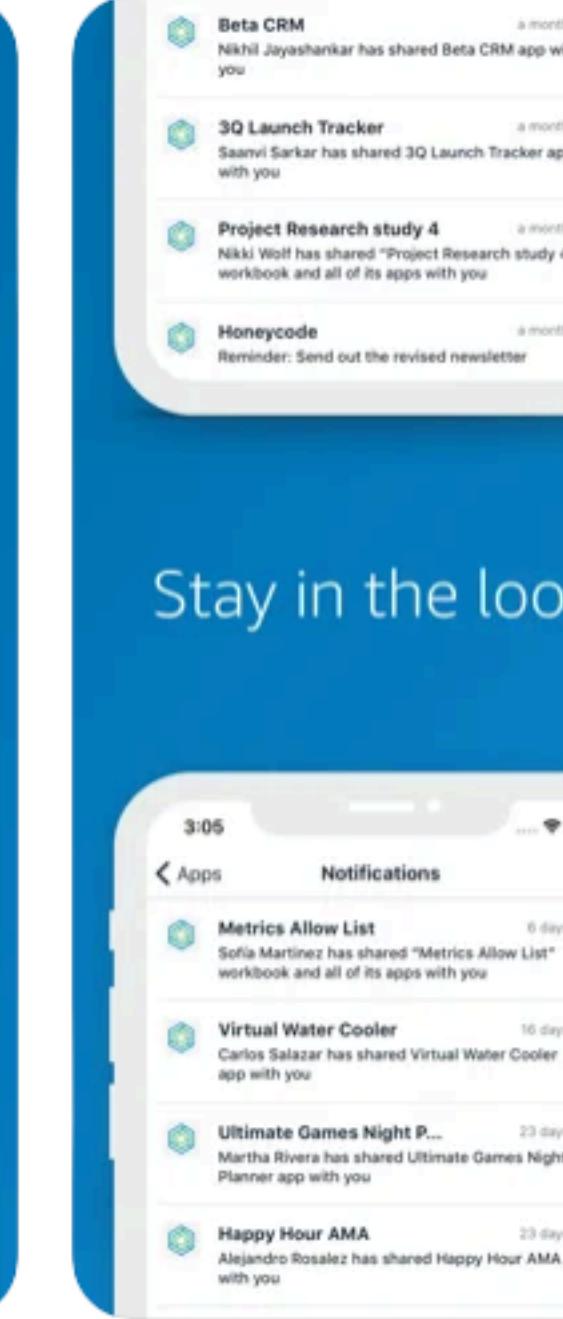
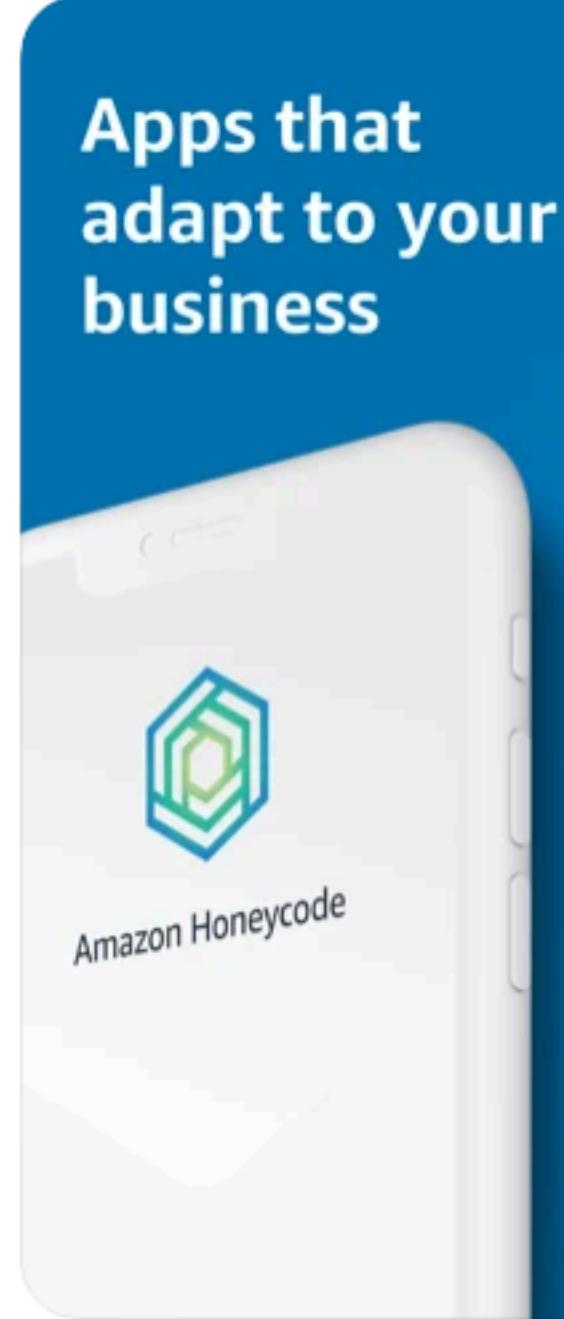
Build a better way to work

**AMZN Mobile LLC**

★★★★★ 4.5 • 27 Ratings

Free

### iPhone Screenshots



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## Connected platforms



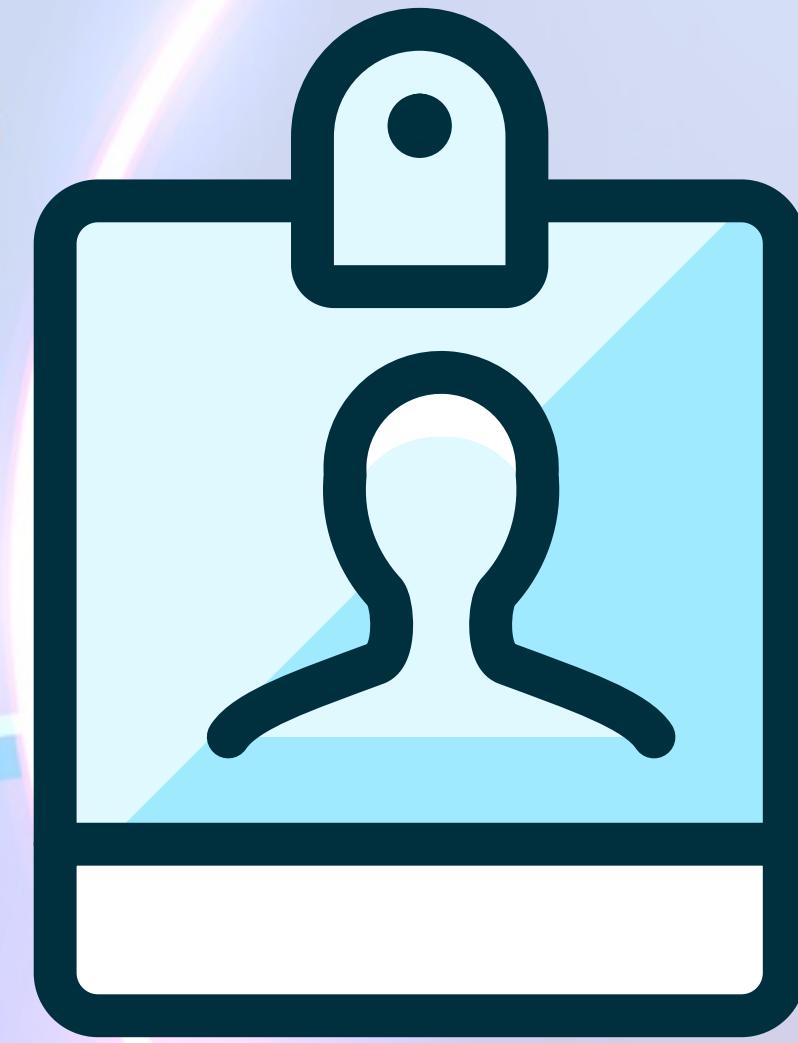
## Connected platforms

- Data lives on the select platform
- Can pull in data from other services
- Can send data to other services

# Core platform concerns



**Visibility**



**Authentication**



**Compliance**



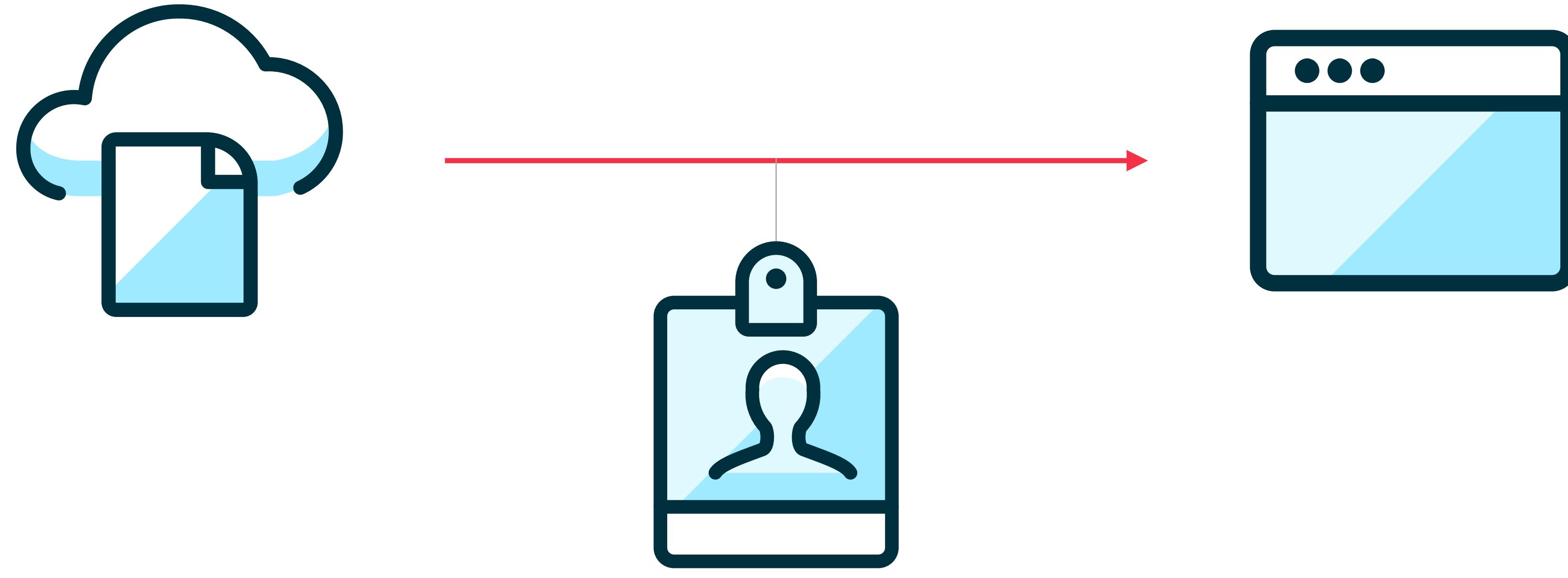
**Controls**



# Connected platforms



# Connected platforms

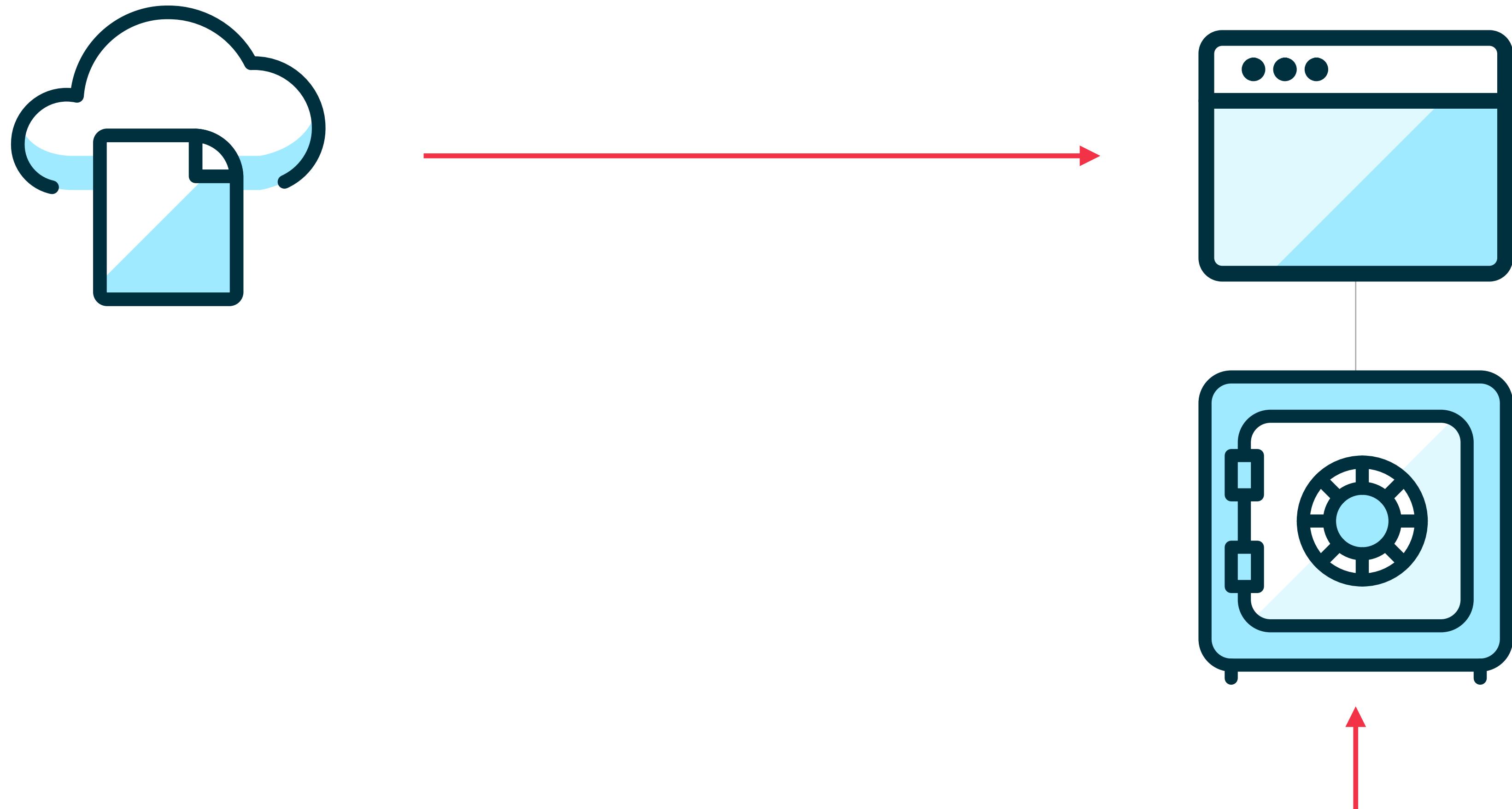


Authentication? Authorization?

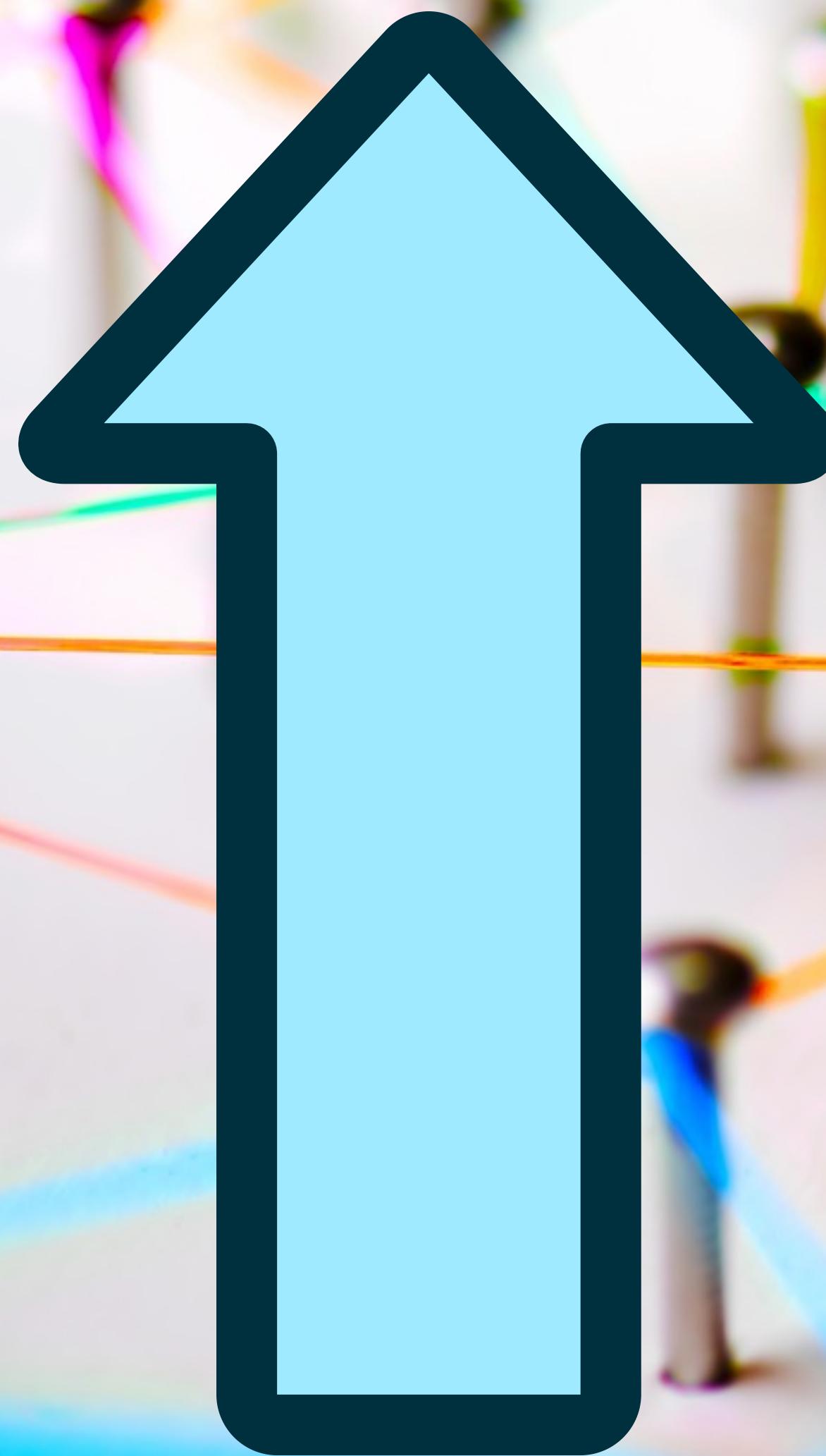


This is often **one** user's credentials!

# Connected platforms



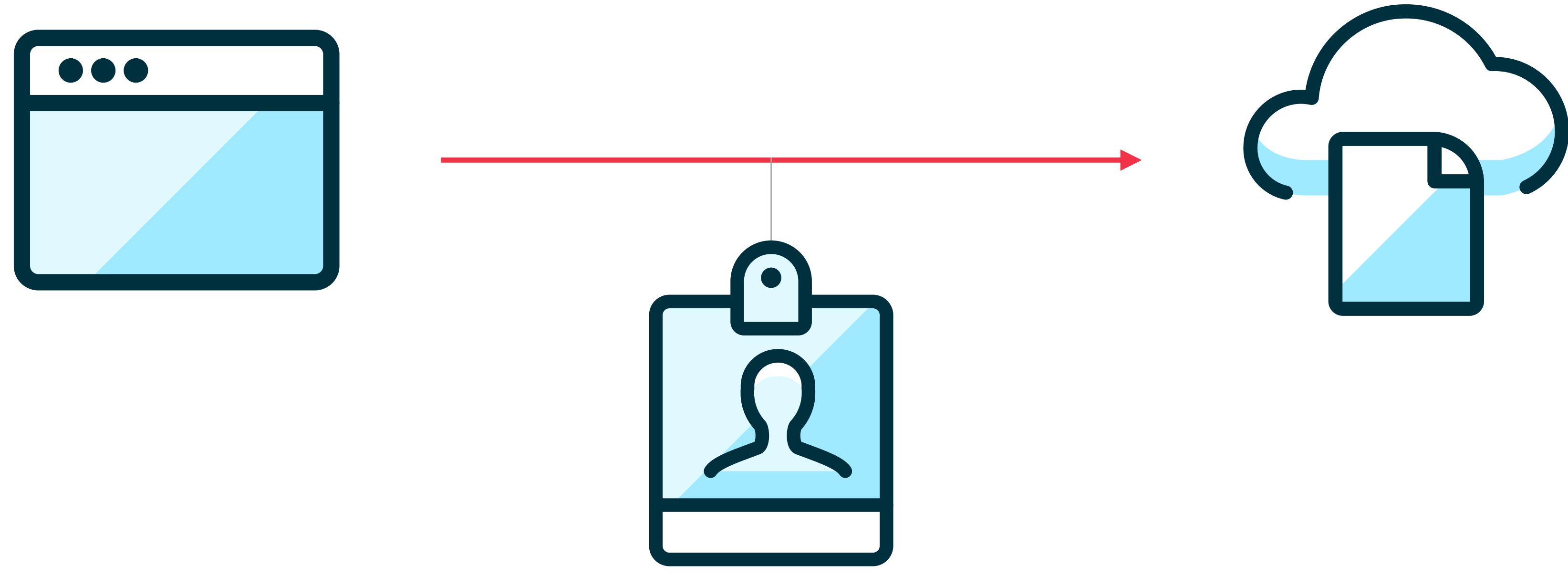
Does this platform meet risk appetite for the imported data?



# Connected platforms



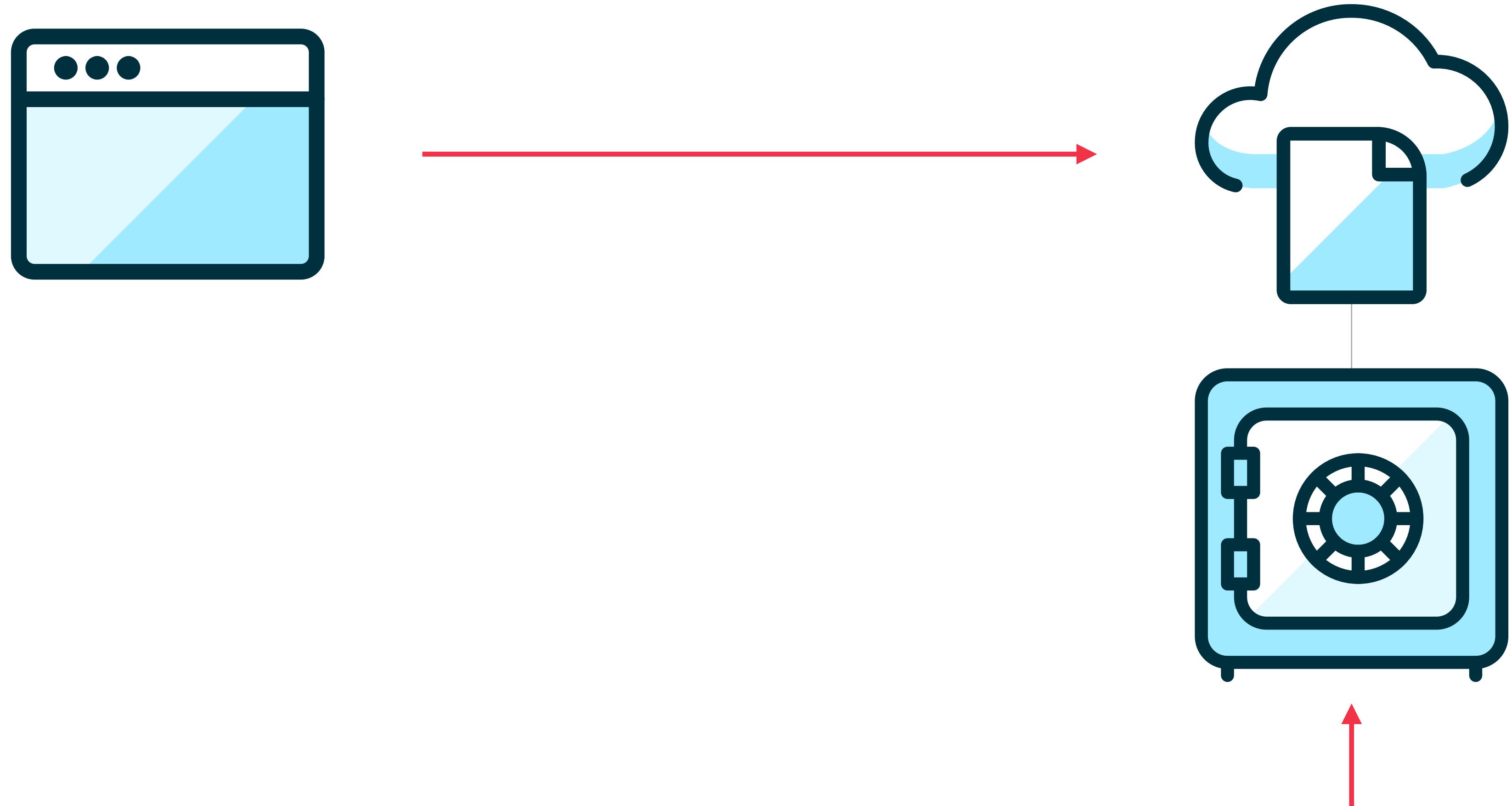
# Connected platforms



Authentication? Authorization?

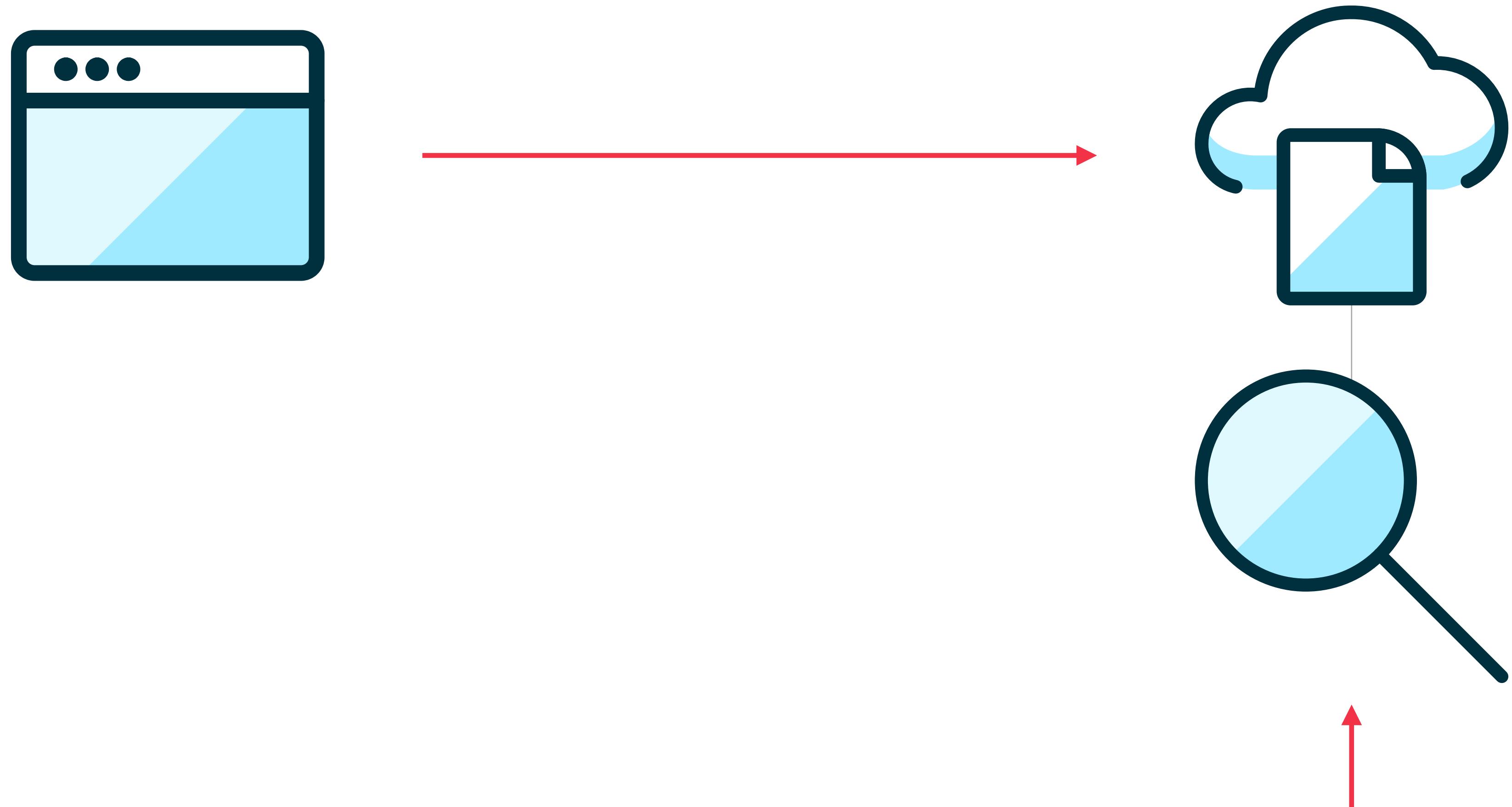
This is often **one** user's credentials!

# Connected platforms



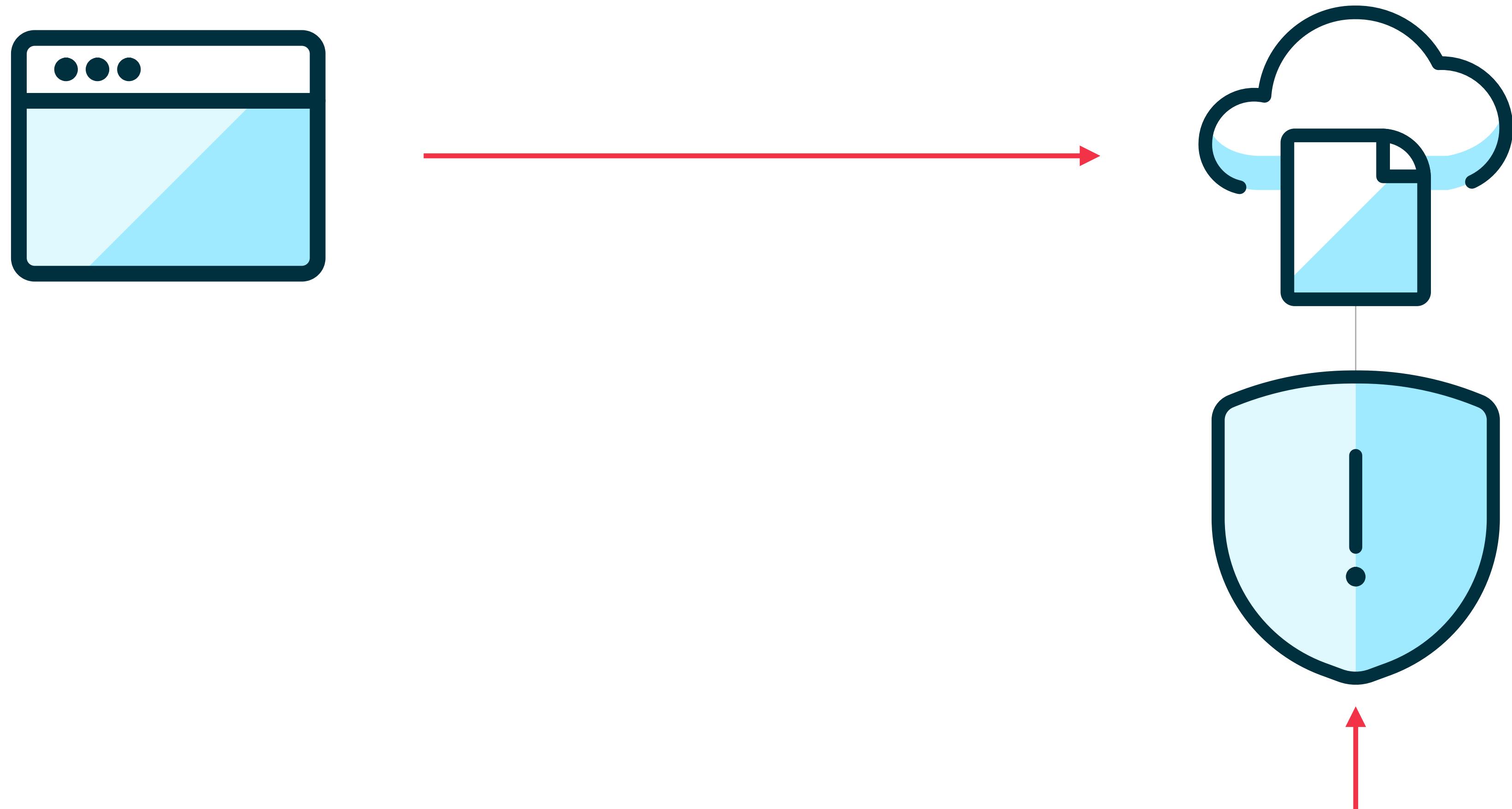
Does this platform meet risk appetite for the exported data?

# Connected platforms



Do you have visibility into the external platform?

# Connected platforms



Can you apply any security controls to the external platform?

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## Takeaways



# Applied what you have learned today

- Next week you should:
  - Identify no-code and low-code applications in use in your environment
  - Sort those applications into “contained” and “connected”
- In the first three months following this presentation you should:
  - Evaluate the core platform for all no-code and low-code platforms
  - Conduct a risk assessment for each “connected” platforms
  - Use the draft OWASP Top Ten as a guideline
- Within six months you should:
  - Develop a policy for your organization on the use of no-code and low-code platforms
  - Continue to research visibility options for “connected” platforms and add these to your observability practice

# Thank you.



Find me @marknca and <https://markn.ca>