



ADAPTIGENT

Empowering the adaptive, intelligent enterprise.

IMS as a *client* in the new world

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Lifetime

IBM Champion

Agenda

- I. Intros
- II. IMS
- III. Outbound
- IV. Case Studies
- V. Q&A





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Ivory Service Architect(Ivory)

Adaptive Integration Fabric(Fabric)

<https://www.adaptigent.com>



Application Server

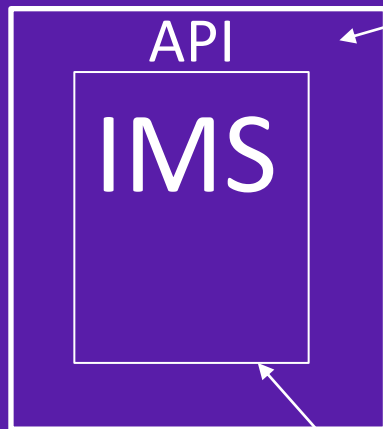
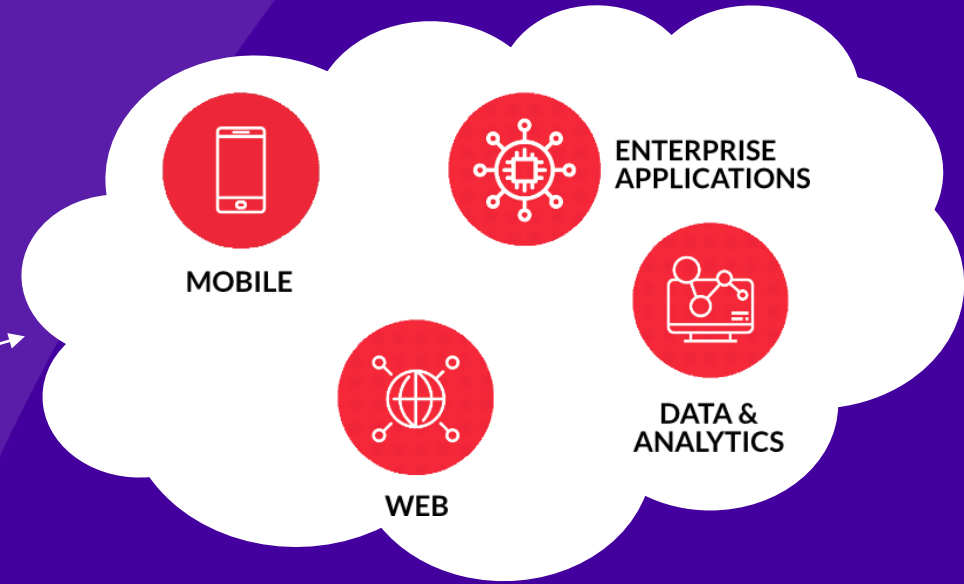
An **application server** is a modern form of platform middleware. It is system software that resides between the operating system (OS) on one side, the external resources (such as a database management system [DBMS], communications and Internet services) on another side and the users' applications on the third side. The function of the application server is to act as host (or container) for the user's business logic while facilitating access to and performance of the business application. The application server must perform despite the variable and competing traffic of client requests, hardware and software failures, the distributed nature of the larger-scale applications, and potential heterogeneity of data and processing resources required to fulfill the business requirements of the applications.

A high-end online-transaction-processing-style application server delivers business applications with guaranteed levels of performance, availability and integrity. An application server also supports multiple application design patterns, according to the nature of the business application and the practices in the particular industry for which the application has been designed. It typically supports multiple programming languages and deployment platforms, although most have a particular affinity to one or two of these

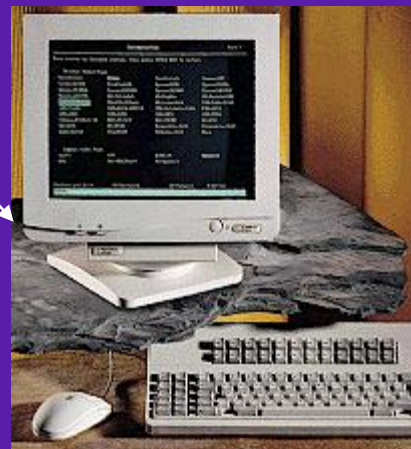
IMS = 1st Application Server



IMS: The one we know.....



- Secure
- Reliable
- Scalable
- Resilient
- **50+** Years of dependability

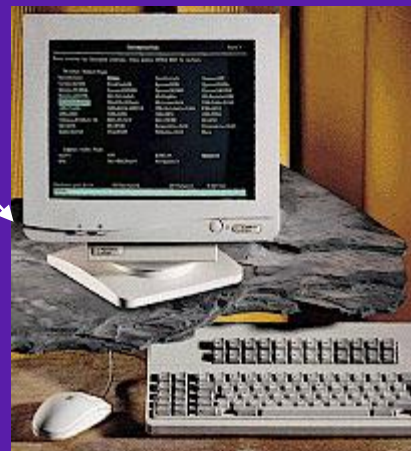
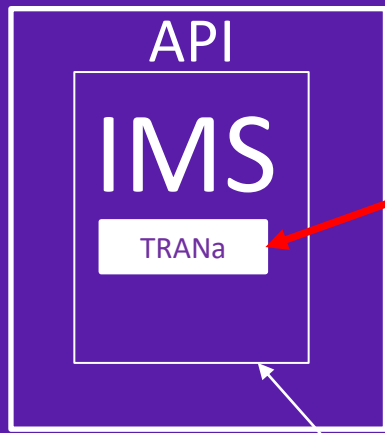
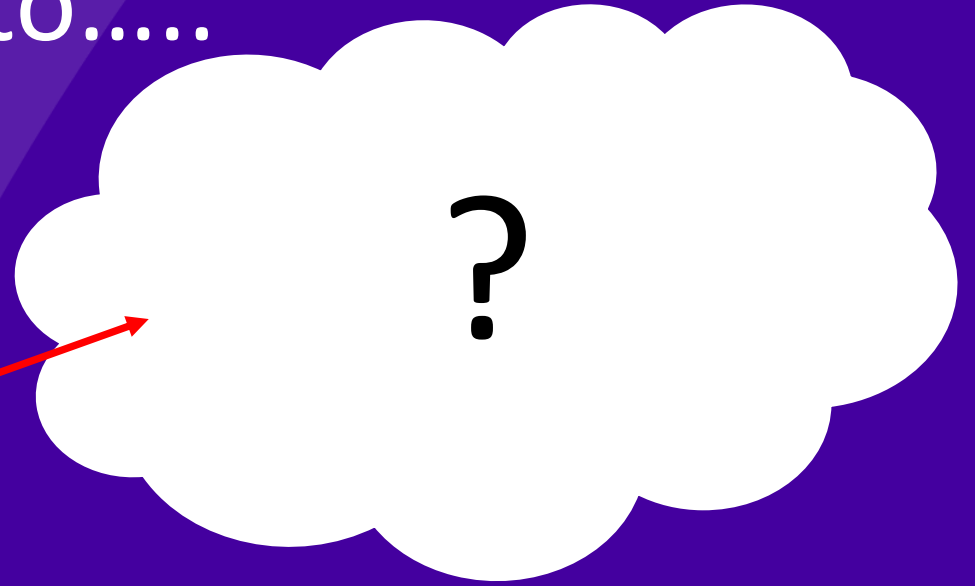


Legacy Application Complexities

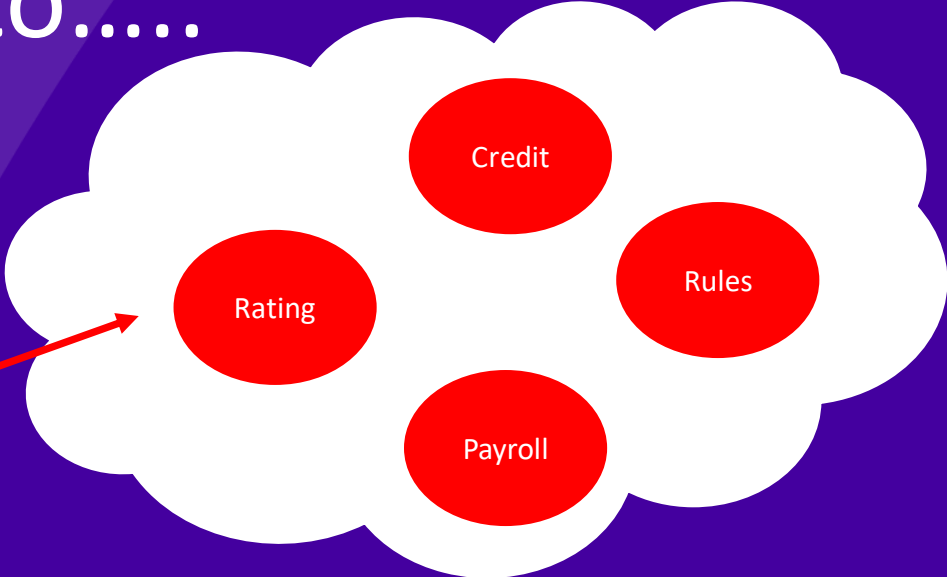
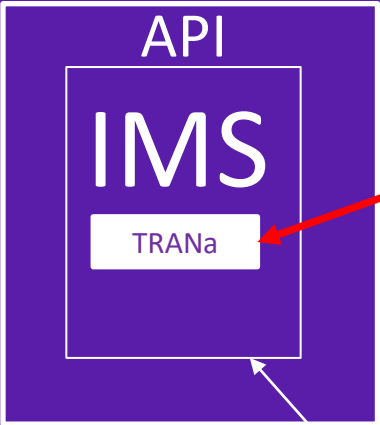
- Attributes
- Message switching / multiple program calls
- Multiple input and output messages
- Variable length, multi-part messages, different layouts
- Complex structures (REDEFINES & ODO)
- Null terminations, non-standard code x'**3fff**'
- Screen macros (zero or numeric fill)
- Conversational dialogs
- External and other 3270 applications
- Complex Conversational Transactions



IMS: The one we are going to.....



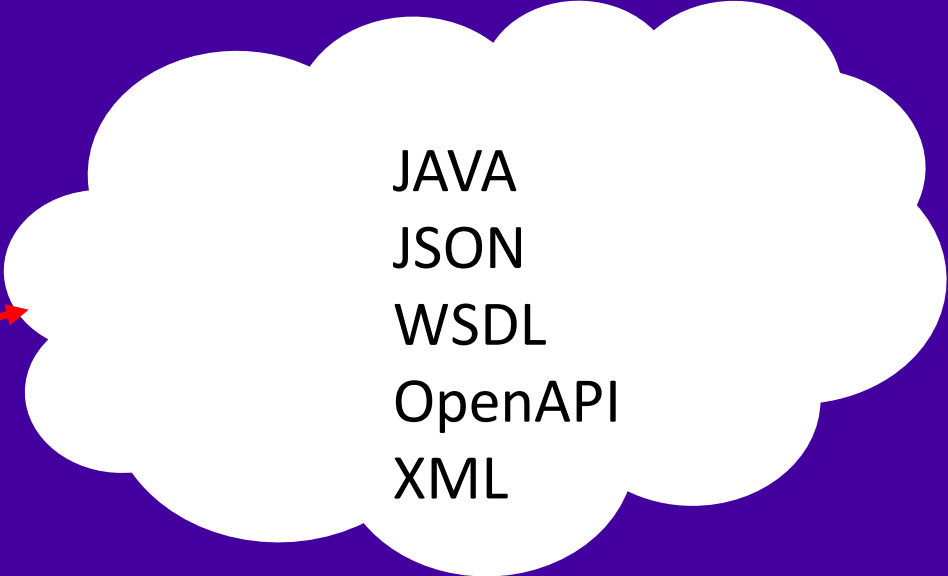
IMS: The one we are going to.....



IMS: The one we are going to.....



COBOL
PL/1
ASM



IMS: The one we are going to.....

1. Import OpenAPI/WSDL Doc
2. Generate Native Language Stubs
3. Add to existing or new programs
4. Add process to handle the calls
5. ??????



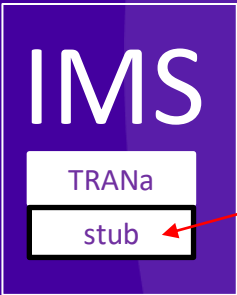
COBOL
PL/1
ASM

A white thought bubble with a scalloped edge, containing a list of supported languages and formats.

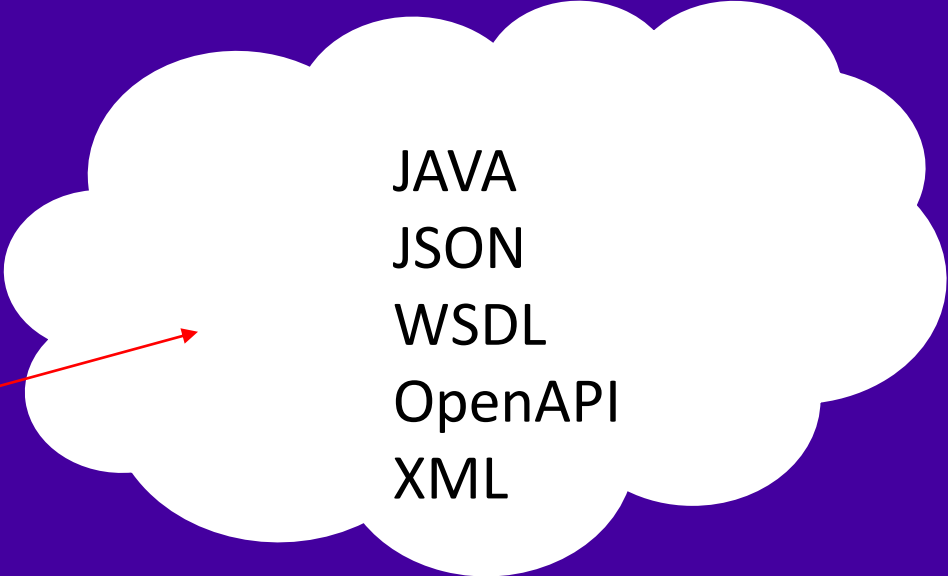
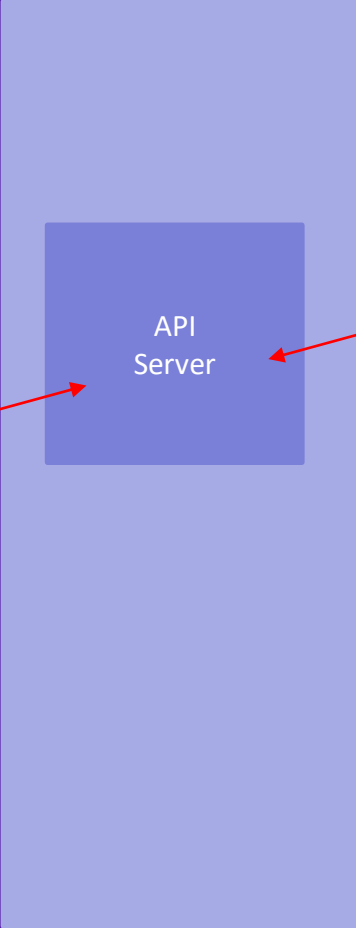
JAVA
JSON
WSDL
OpenAPI
XML



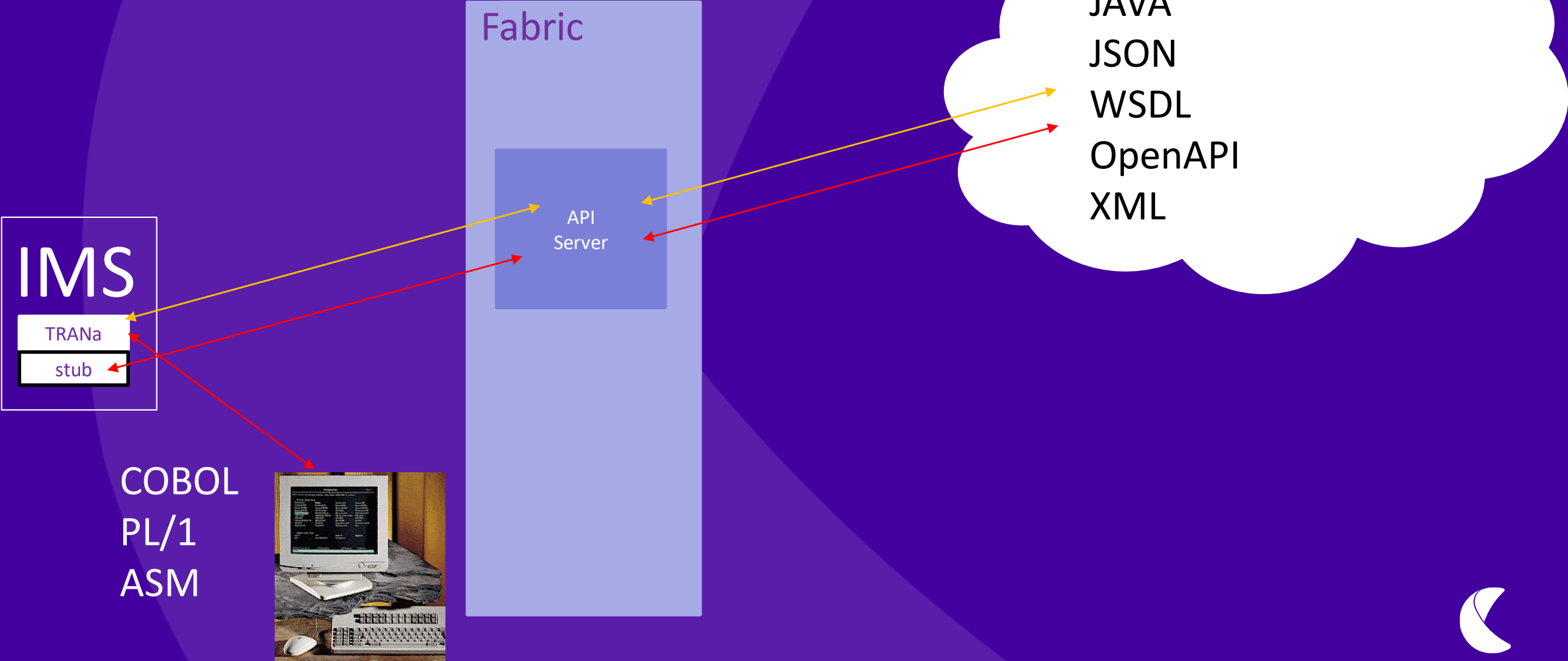
IMS: The one we are going to.....



COBOL
PL/1
ASM



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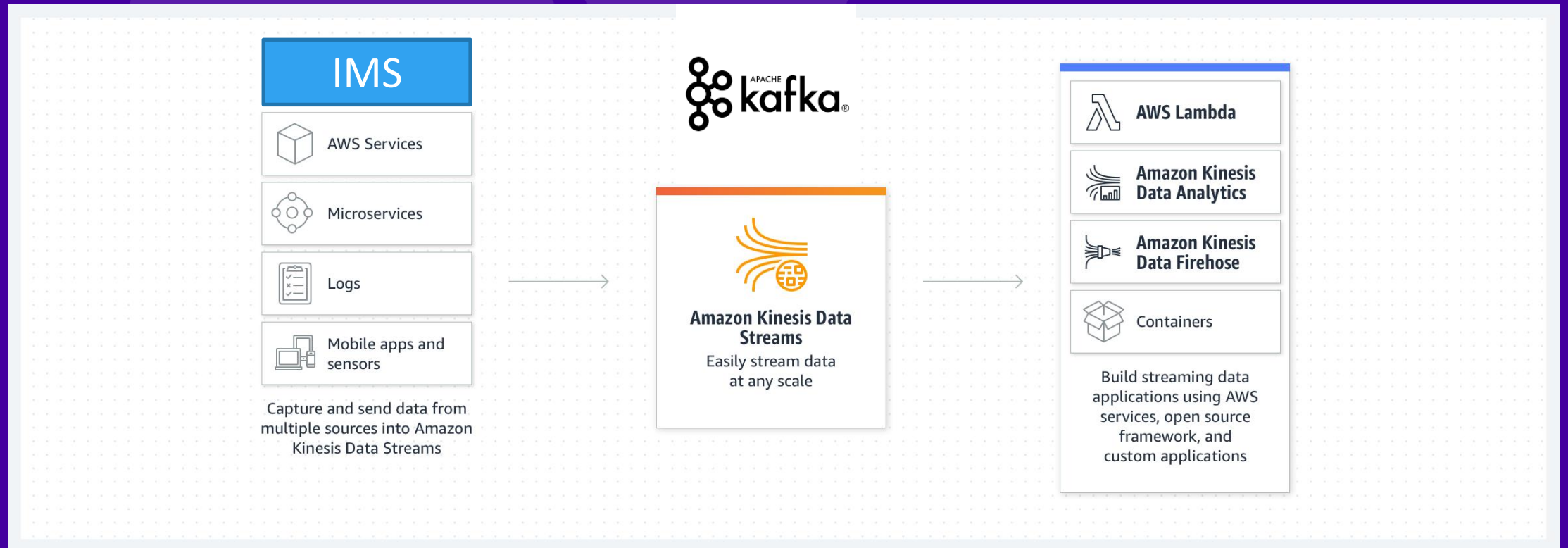


IMS: The one we are going to.....

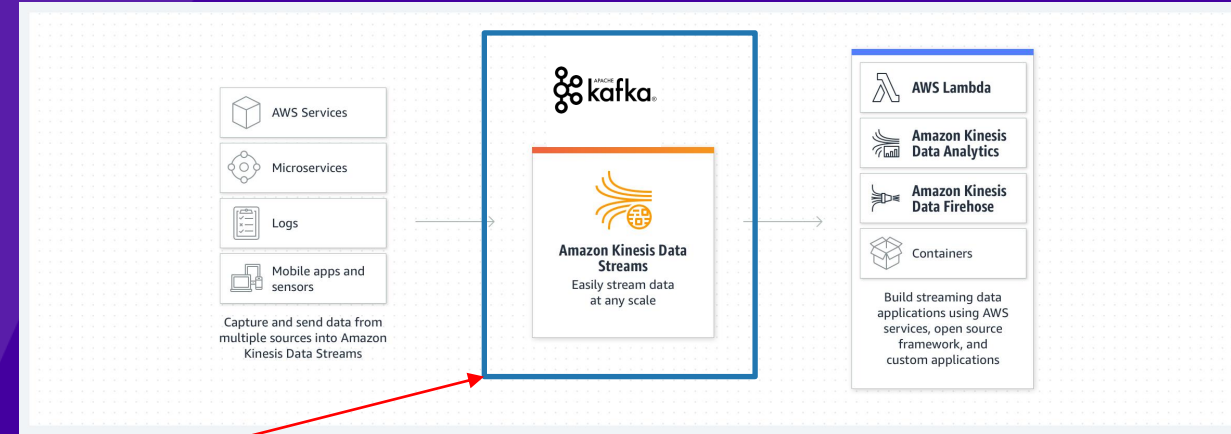
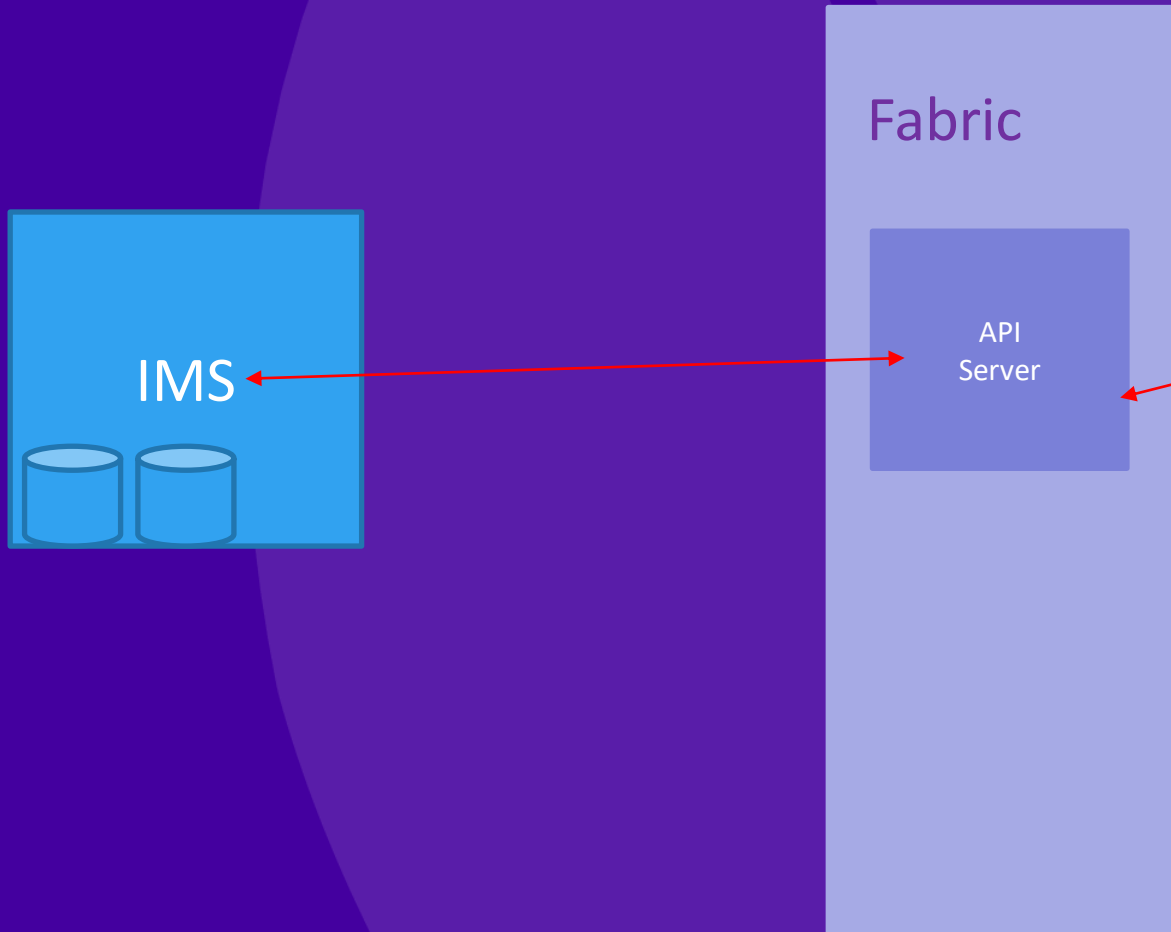
- Printer Inventory Servers
- SAP
- salesforce
- AWS Applications(*)
- Third Party Software(*)
- Anything with an API!!!
- Streaming Apps!!



IMS :Streaming Apps



IMS :Streaming Apps



IMS: Outbound considerations

- Segregate out the outbound MP regions
- Think of payload sizes
- COBOL PL/1 Data-types mapping
- Specify timeout values
- Consider the endpoint!!!!



Case Studies: Real world





Case Study: Swiss Bank



Challenge

A large Swiss bank needed to rapidly implement the ability to verify the status of a new customer (i.e. terrorist or known criminal) against the World Check system with a uniform set of API calls that could be initiated from a PL/1 program in their mainframe-based core banking system.



Solution

Using Fabric, the bank was able to develop the APIs (both SOAP and REST-based) without writing any code at both the integration layer and on the mainframe. They were also able to make the APIs accessible to all systems within the bank going forward.



Results

The bank was able to meet all of the specifications required by the banking regulations ahead of the specified timeframe and at a fraction of the cost that traditional methods would have taken.



Case Study: Airline



Challenge

As a result of a merger with another airline and the resulting regulatory requirements, the customer needed to rapidly unify multiple aircraft maintenance and parts inventory systems into a seamless solution for their maintenance and procurement teams



Solution

Fabric was used to rapidly generate a unified set of APIs connecting to multiple mainframe systems in order to power web and mobile front-end systems for maintenance and parts inventory..**Including calling out from IMS to third-party system.**



Results

The airline was able to meet its regulatory obligations in a fraction of the time alternative integration methods would have taken and achieved significant cost savings as a result. Also added and additional 4-5 million in services later



Case Study: Large French Bank



Challenge

A major multi-national bank was struggling with how their legacy mainframe systems could be used in tandem with modern third-party applications to process payments, detect fraud and comply with KYC guidelines – all in real time.



Solution

Fabric quickly generated the code needed for their mainframe to securely and reliably call out to FIS's Clear-2-Pay from a core banking COBOL application.



Results

They were able to create powerful bi-directional APIs to become the first bank to execute an instant payment in France. The drag-and-drop interface allowed them to do this without coding, and to move from **proof of concept to production in less than two months.**

Case Study: American Bank



Challenge

Wanted to implement Mobile applications to core systems(Savings,Checking, Loans, Credit) from one platform in a short period of time



Solution

Using Fabric, the bank was able to develop the APIs (both SOAP and REST-based) without writing any code at both the integration layer and on the mainframe. They were able to do this in months and supply Mobile apps(before) the other banks



Results

The bank was able to meet all of the specifications required by the Management in the specified timeframe and at a fraction of the cost that traditional methods would have taken.



IMS *Still Rocking* after all these years!!



SHARE Dallas 2022



SHARE is returning to in-person events in 2022!

Join us for **SHARE Dallas, March 27-30, 2022**, for three full days of unmatched education, face-to-face networking opportunities, live technical sessions and receptions to celebrate our reunion. The **technical agenda** is now live! View more than 100 technical sessions focusing on topics including DevOps, security, IT operations, MVS and professional development.

Dusty Rivers

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**SHARE Technology Expo
Booth 113**





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