

IBM SOCIAL AND ANALYTICS CONFERENCE 2017

Redefine work with Watson

Application modernization in the API economy era

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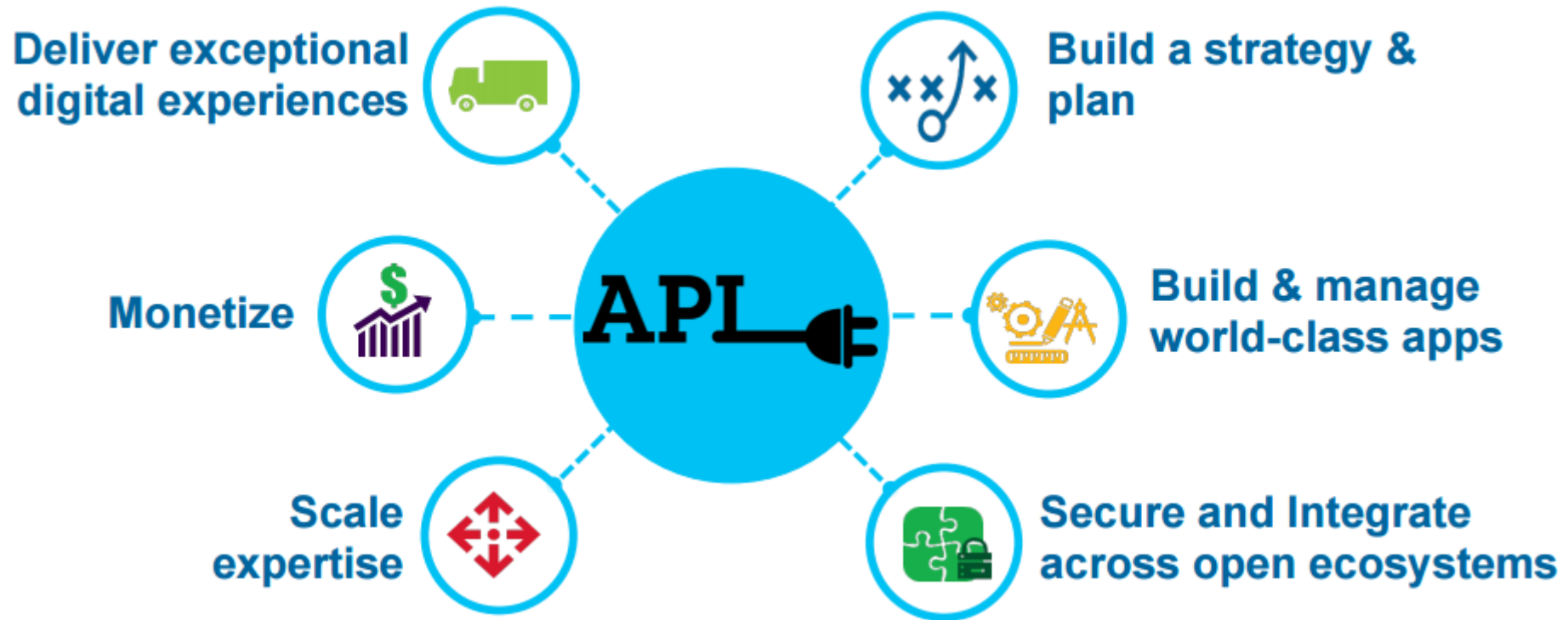
Agenda

- API?
- API Economy
- Approach
- Weapons of choice
- Q & A

What is an API?

- Application Programming Interface
- Communication between various software components
- May be used for web-based systems, database systems, software libraries

APIs in economy era



Getting started with API Economy



Build a Strategy & Plan

Clients can leverage IBM's Journey Map to evaluate their current maturity level, and IBM's starter workshops and digital transformation services to advance their strategic & technical planning

Result: It's quick and easy to get started!



Build and Manage World-Class Apps

APIs don't always have to be exposed to the world. Many companies build much of their internal code as APIs, for reusability.

Result: a library of useful components that can be reused to greatly accelerate app development



Secure and Integrate

Enterprises are taking existing businesses into the mobile world. Their data resides on-premise, but needs to be available to mobile apps running on devices everywhere.

Result: APIs provide a secure and simple way to allow mobile & hybrid cloud apps to access existing on-premise data.



Scale Expertise

Your team may have 10's to 100's of developers. The rest of the world has millions.

Result: APIs enable you to access a wider set of partners, entrepreneurs, developers to innovate around your business – without having them on your payroll!



Monetize

Businesses often have existing high-value data and services which they could sell to others.

Result: APIs allow companies to sell data and services to external business partners via APIs, for new high margin revenue stream



Exceptional Digital Experiences

Clients increasingly expect digital experiences that are seamlessly integrated across company lines

Result: APIs allow you to integrate other companies' services into your app & web page experiences, and vice versa

Why do we need to modernize?

- Work with personalized and relevant data
- Manage your tasks easily
- Consumer-like features
 - Notifications
 - Anywhere access
 - Ability to work in real time
 - Personalization

Domino + API

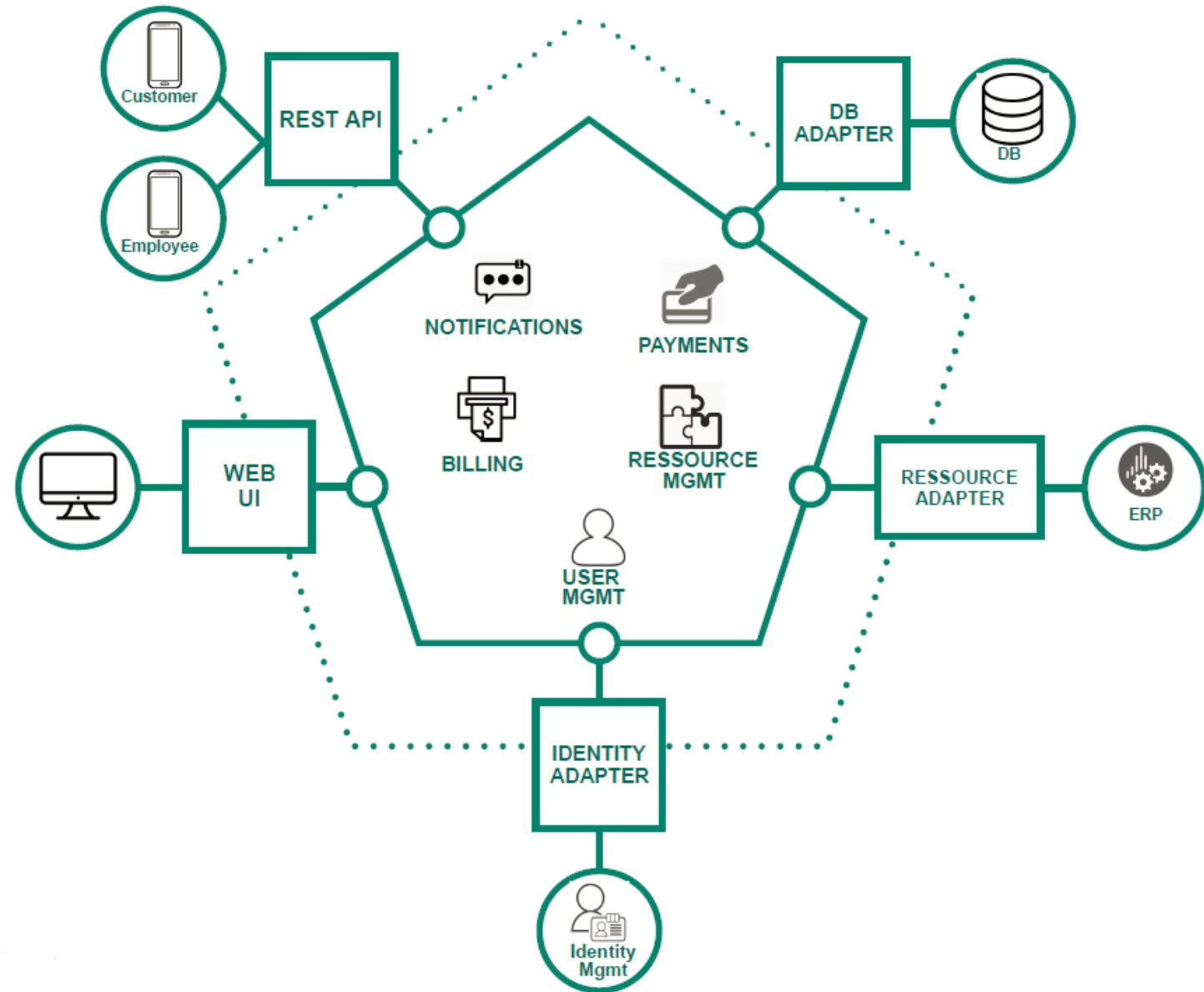
- Domino's strength

- Security
- Integration
- Collaboration
- Customization
- Replication
- Social
- (Almost) unlimited API development capabilities

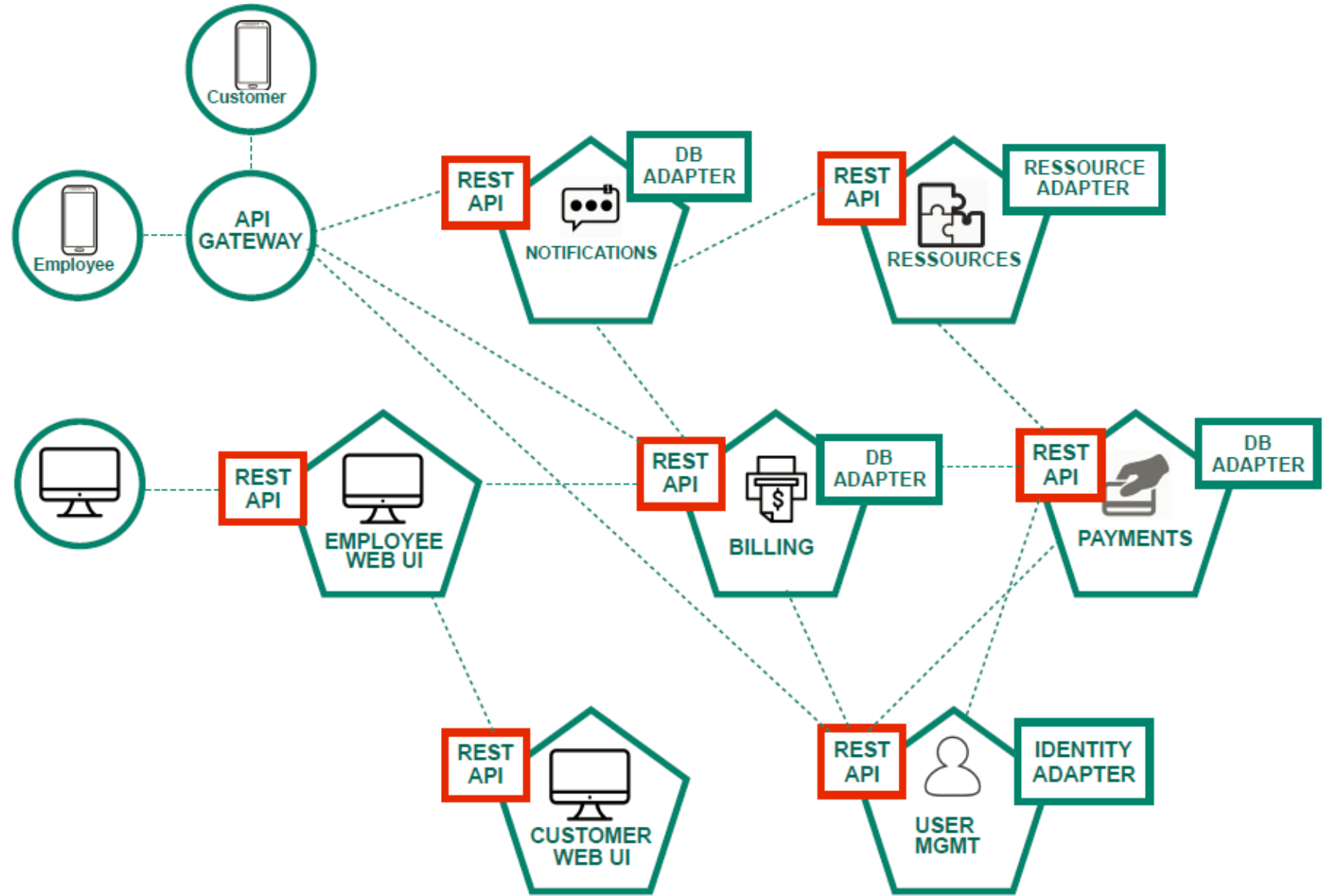
- API's strength

- Saving time
- Manage your application more easily
- Faster response even with a lot of data
- Breathes new vision and new life to your applications

Past



Future



Logical Blocks

Microservices: single-purpose containers accessible by APIs



Recipe –actions expressed as "if, then" and "when, then" statements along with ingredients that are added to the statements.



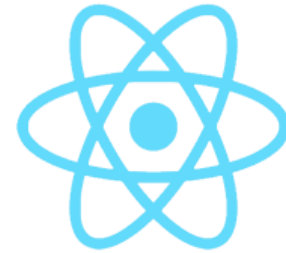
Libraries: The templates that support automation patterns, user interfaces, and application layouts.



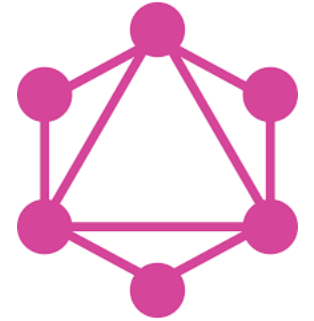
Templates and page layouts: UI to lay out the components onto a page and create a relationship between components.



APIs to use



React



express



What is React

- A JavaScript library for building user interface
- React is the “V” of MVC (Model View Controller)
- HTML is placed in JavaScript classes to create React Components
- React makes use of a Virtual DOM and Diffing
- React works with modules to deliver cutting edge client-side capabilities
- Setup with Node.js
- Used in Connection Pink!

React with XPages

- React can easily be used to develop parts of a new or existing application
- To include React.js in XPages, you need the following 2 JS files:
 - react.min.js
 - react-dom.min.js
- 95% of your React logic will be written in JavaScript
- Only targeted `<div>` tags will exist in your XPage or Custom Control designs

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Thank you!

