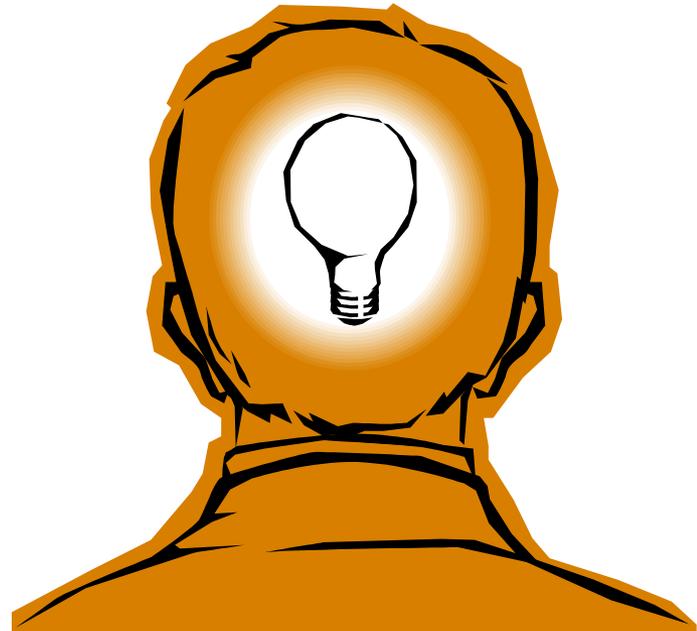

IBM BlueMix Introduction



Jeffrey Liu
Senior Software Engineer
IBM China Development Lab

The next billion
dollar idea starts
with a single
developer.

That developer
starts with a single
line of code



Translates into an application development environment that...



Brings the best of born-on-the-cloud development without leaving behind enterprise data and services

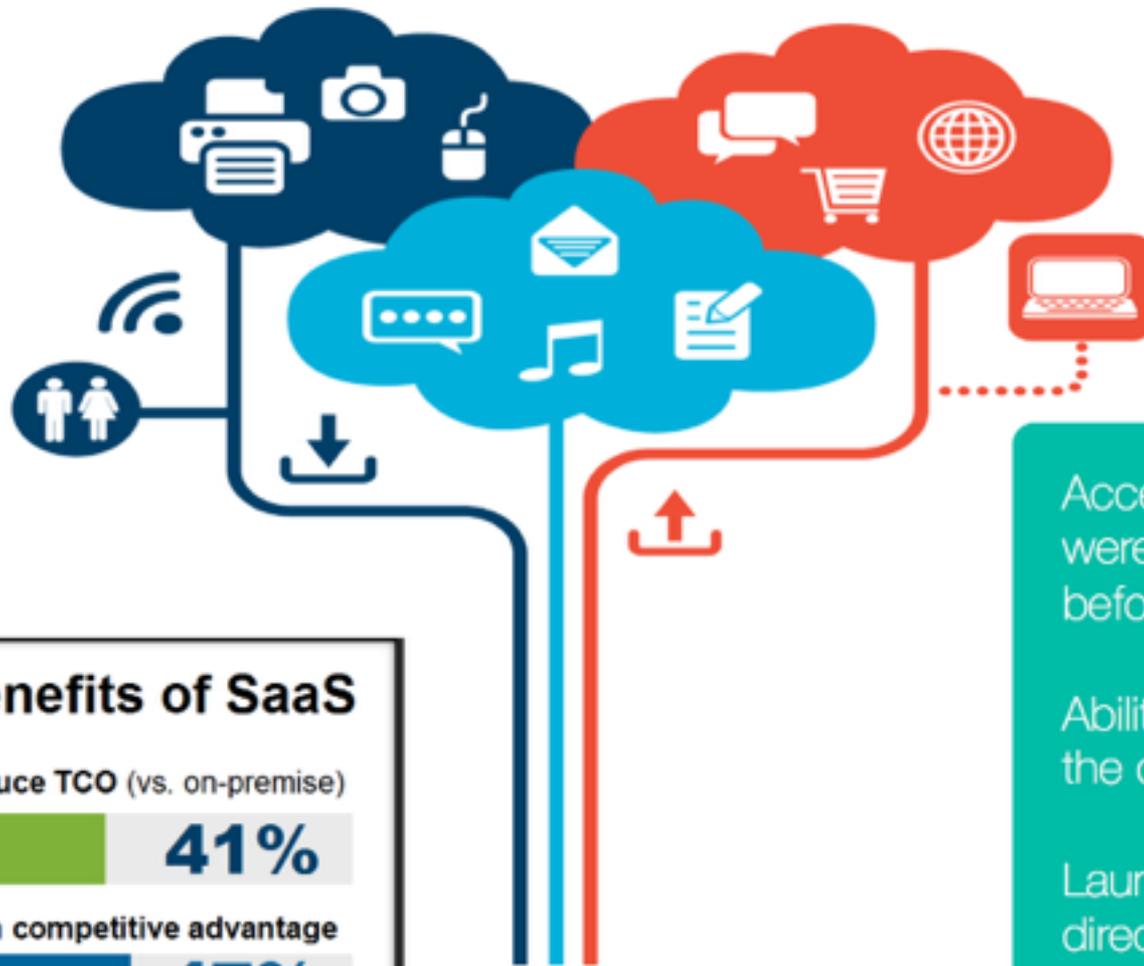
Combines the flexibility of a platform as a service (PaaS) with existing suites of software as a service (SaaS)

Offers freedom of choice to use any software or open technologies

Scales from a single developer to global teams

Enables a massive and open ecosystem built on open standards

Cloud opens up **new possibilities** for developers



Access to services that were never available before

Ability to bring and access the data that you need

Launch new initiatives to directly engage your clients

Benefits of SaaS

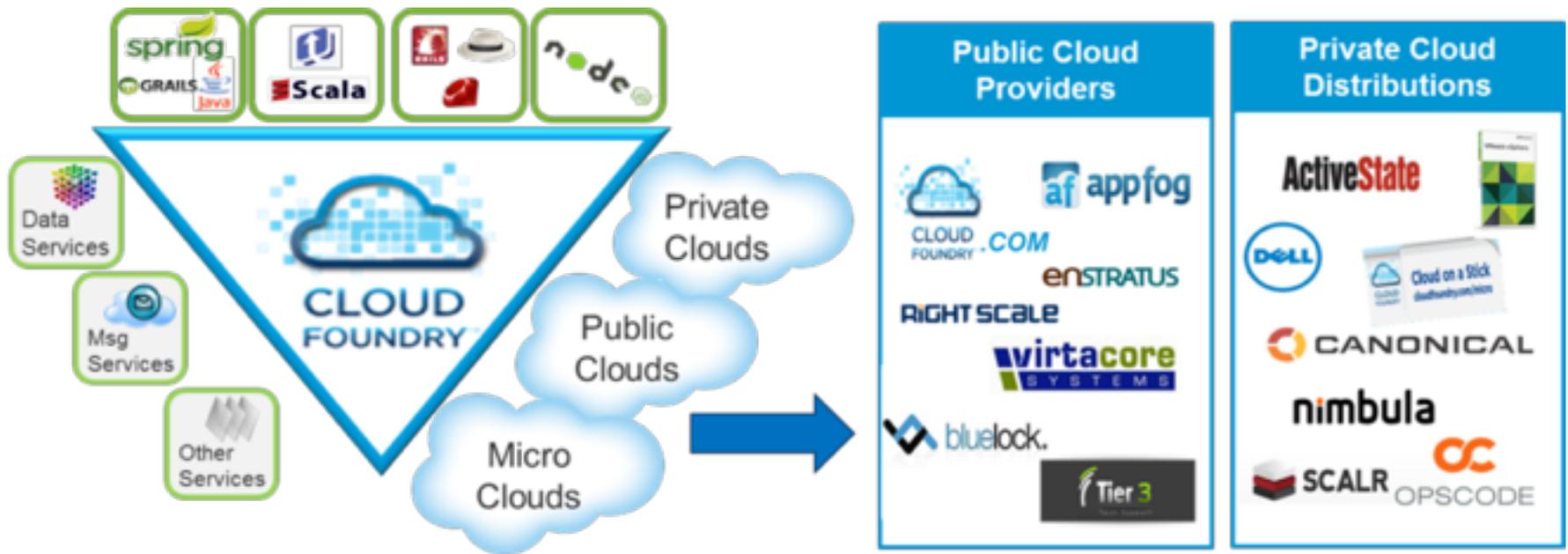
Reduce TCO (vs. on-premise)



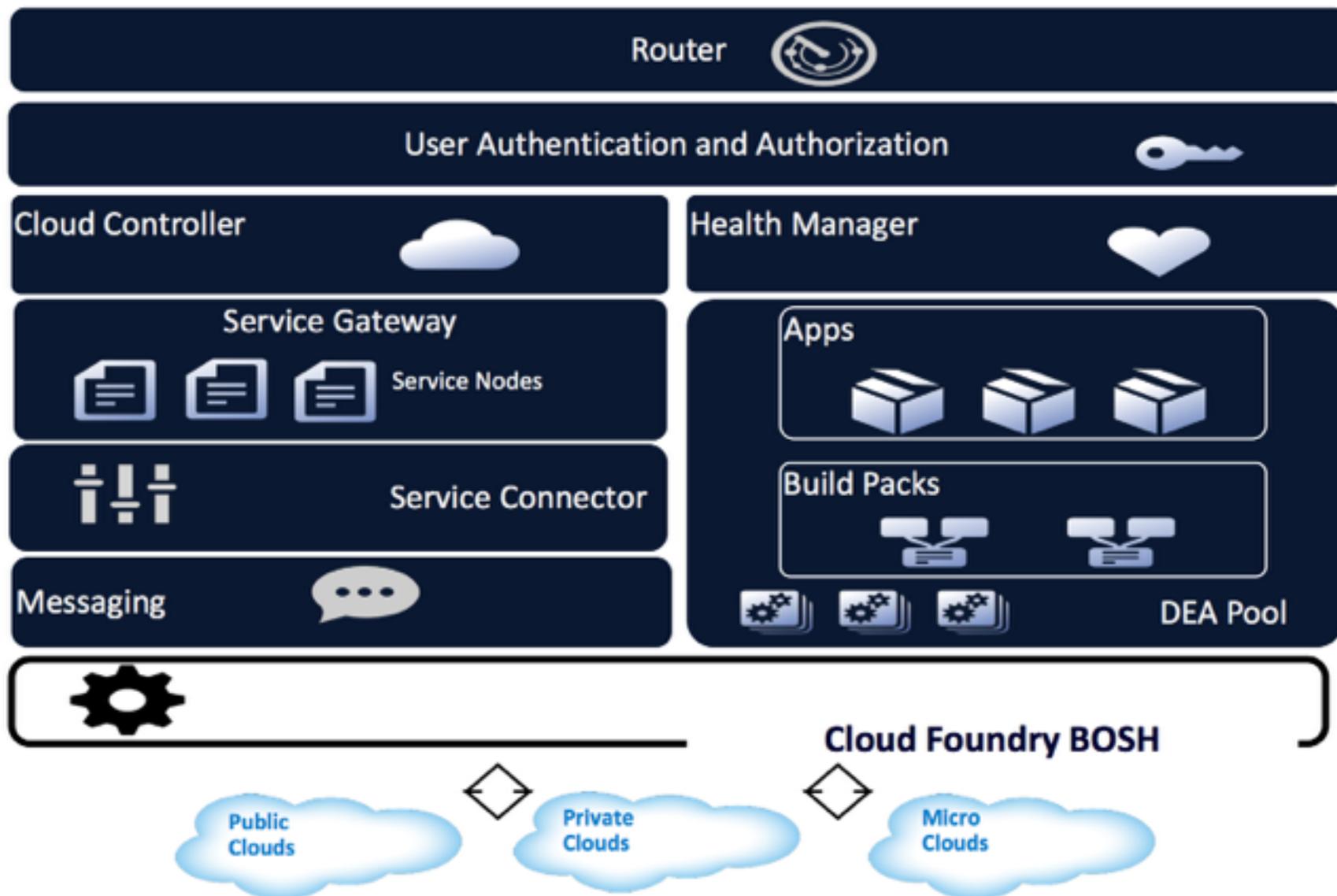
Gain competitive advantage



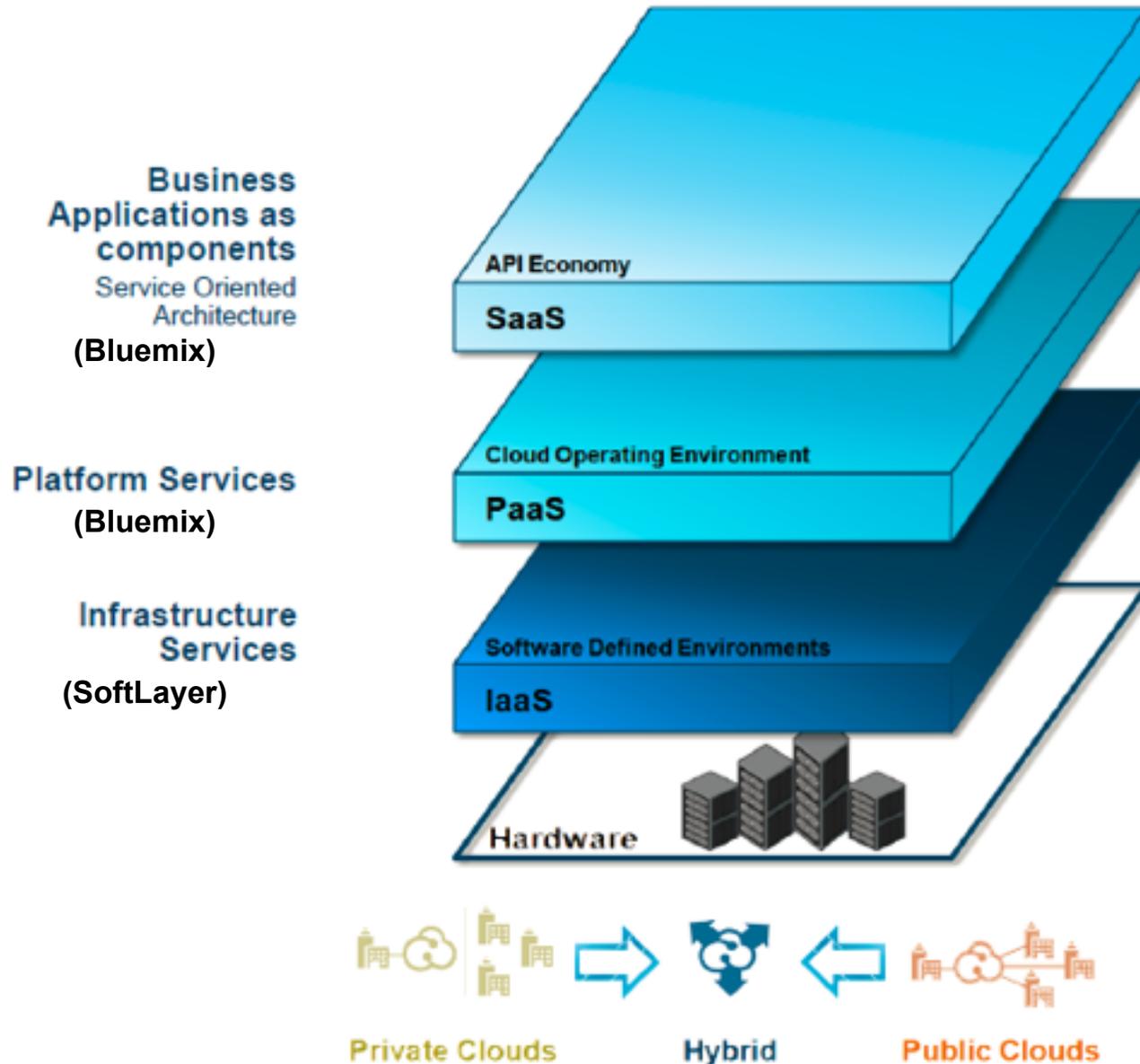
An open platform-as-a-service (**PaaS**). The system supports **multiple** frameworks, **multiple** application infrastructure services and deployment to **multiple** clouds.



Making Multi-Cloud a Reality



IBM Cloud computing layers



What is Bluemix?

Bluemix is an **open-standard**, cloud-based **platform** for **building, managing, and running applications of all types** (web, mobile, big data, new smart devices, and so on).



Go Live in Seconds

The developer can choose any language runtime or bring their own. Zero to production in one command.

APIs and Services

A catalog of IBM, third party, and open source API services allow the developer to stitch an application together in minutes.

On-Prem Integration

Build hybrid environments. Connect to on-premise assets plus other public and private clouds.

DevOps

Development, monitoring, deployment, and logging tools allow the developer to run the entire application.

Layered Security

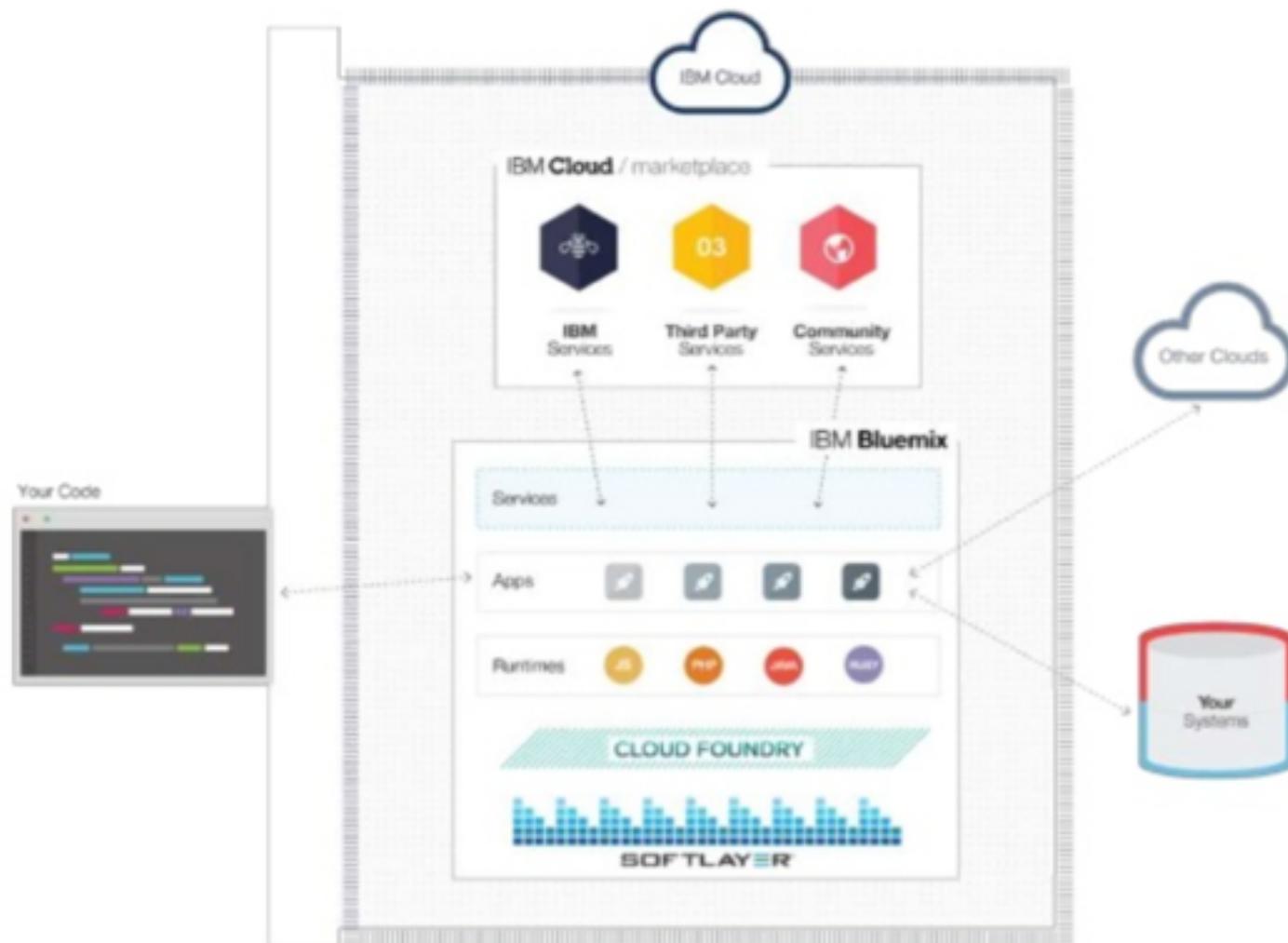
IBM secures the platform and infrastructure and provides you with the tools to secure your apps.

Flexible Pricing

Sign up in minutes. Pay as you go and subscription models offer choice and flexibility.

How does Bluemix work?

Bluemix **embraces** Cloud Foundry as an **open source Platform as a Service** and **extends** it with IBM, third party, and community built services.



BlueMix UI – Dashboard



The screenshot shows the IBM BlueMix UI Dashboard. At the top, the navigation bar includes the IBM logo, the text "Codename: BlueMix", and the "Dashboard" link. Other navigation options are "DASHBOARD", "CATALOG", "DOCS", and "COMMUNITY". The user's email "owei@tw.ibm.com" and a profile icon are on the right.

On the left sidebar, there is a "Space: dev" dropdown menu with options for "dev" and "test", and a "Manage Spaces" button. Below this is a list of resources: "ALL (1)", "APPS (1)", and "SERVICES (0)". At the bottom of the sidebar is an "ADD-ONS" section with a "+ Connect an Add-on" button.

The main dashboard area features three large circular gauges: "MEMORY: 128MB / 8GB", "APP HEALTH" (indicated by a green checkmark), and "SERVICES: 0 / 20". Below these is a search bar and a section titled "Applications" with a large "+ Add an application" button.

A detailed view of an application is shown in a white panel on the right. It features a rocket icon, the title "Sentiment Analysis", a URL [sentimentanalysis-7ee0c5b6-3769-48aa-80e-1f62f...](#), a status icon, and a green message: "Your app is running great!".

At the bottom of the dashboard, the "Services" section is partially visible.

IBM Codename: BlueMix **Catalog** DASHBOARD CATALOG DOCS COMMUNITY owei@tw.ibm.com

Search IBM Created 3rd Party Community

Boilerplates

- Internet of Things
- JAVA Web Starter
- Mobile Cloud
- NODE JS WEB STARTER
- Node-RED
- JAVA+DB Web Starter

Runtimes

Code in the language that works for you

- .java** liberty
Liberty for Java™
IBM Created
- .js**
Node.js
IBM Created
- .rb** on rails
Ruby on Rails
Community
- .rb** SINATOR
Ruby Sinatra
Community

Add-Ons

Manage and monitor your applications

- Auto-Scaling
- Auto-Scaling Clg

Runtimes in the BlueMix represent different buildpacks that are provided. Each runtime is an application with a starter application code deployed, and a starter application is a template so that you can use it directly with the existing buildpack from BlueMix user interface.



Runtimes

Code in the language that works for you

Runtime	Language	Created By	
Liberty for Java™	.java	liberty	IBM Created
Node.js	.js		IBM Created
Ruby on Rails	.rb	on rails	Community
Ruby Sinatra	.rb	Sinatra	Community

Services

A service is a piece of code that BlueMix hosts. And the service offers a piece of functionality for applications to use. BlueMix provides a set of predefined services that can you can use directly

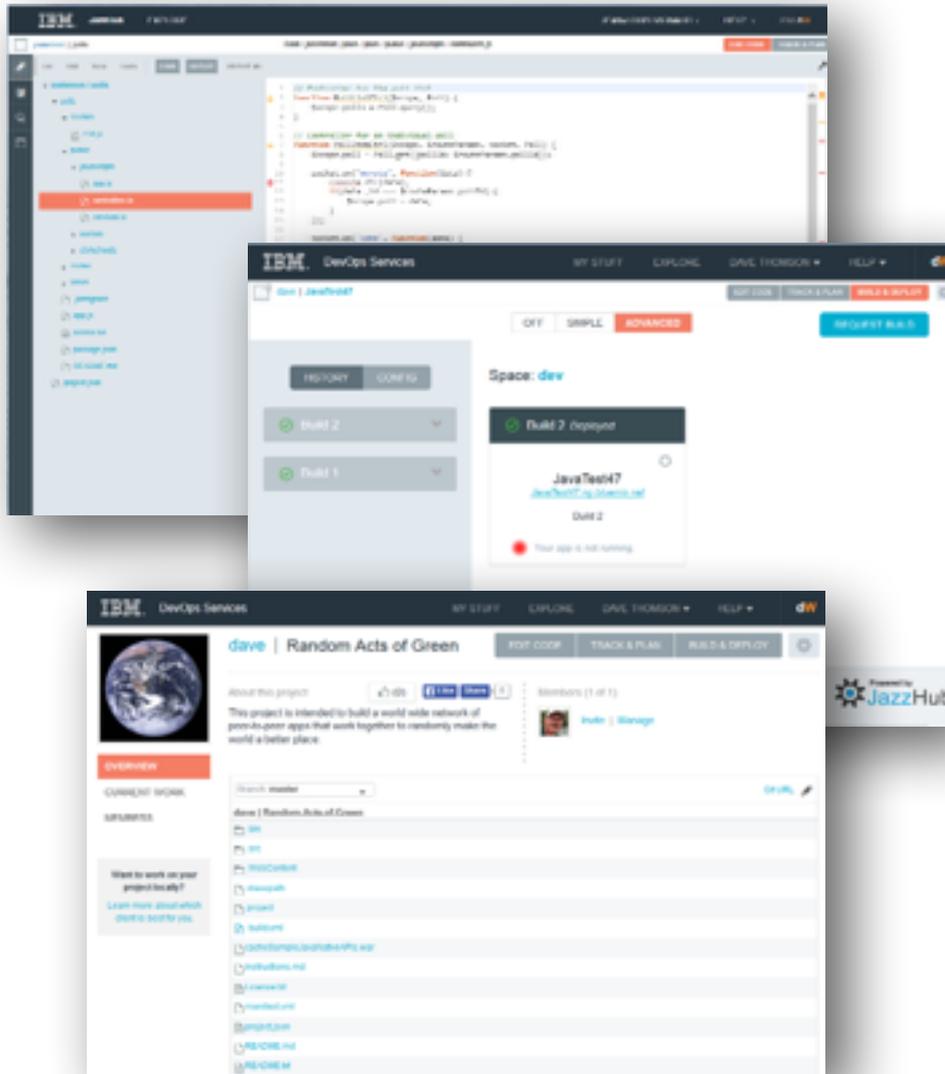
The screenshot displays the IBM Bluemix Services catalog, organized into two main sections: 'Web and Application' and 'Mobile'.

Web and Application
Leverage enterprise grade capabilities in your applications

Service Name	Created By
CastIronLive	IBM Created
CloudIntegration	IBM Created
DataCache	IBM Created
ElasticMQ	IBM Created
LogAnalysis	IBM Created
RapidApps	IBM Created
Rules	IBM Created
SessionCache	IBM Created
SSO	IBM Created
CloudAMQP	3rd Party
Geocoding	3rd Party
Memcached Cloud	3rd Party
Redis Cloud	3rd Party
Reverse Geocoding	3rd Party
SendGrid	3rd Party
Travel Boundary S...	3rd Party
Validate Address	3rd Party
rabbitmq	Community
redis	Community
Wearable Fitness	Community

Mobile
Accelerate your mobile app development

Service Name	Created By
InternetOfThings	IBM Created
MAS	IBM Created
Mobile Data	IBM Created
MobileQualityAssur...	IBM Created
Push	IBM Created
Twilio	3rd Party



- DevOps Solution in the cloud for building mobile and cloud applications
- Optimized for use with BlueMix
- Integrated task tracking, agile planning, source control with auto deploy
- Use your favorite tools or work from the Web IDE
- Hosted Jazz SCM or Git or link to GitHub
- Public and private projects
- Continuous Integration and Deployment with Jenkins
- Mobile quality and application performance monitoring (coming)



- IBM cloud marketplace
<http://www.ibm.com/cloud>
- IBM BlueMix
<https://ace.ng.bluemix.net/>
- IBM BlueMix introduction
https://www.ibm.com/developerworks/cloud/blueprint/html/ibm_bluemix_intro.html
- Getting started with BlueMix and JazzHub
<https://hub.jazz.net/tutorials/jazzeditor>



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