

Who Says Elephants Can't Dance with Node.js  
and JavaScript ?

The Challenge

# Reality Check

Open Source Communities

IBM Platforms

Internal Use

Production Deployment Options and Developer Tooling

Customers

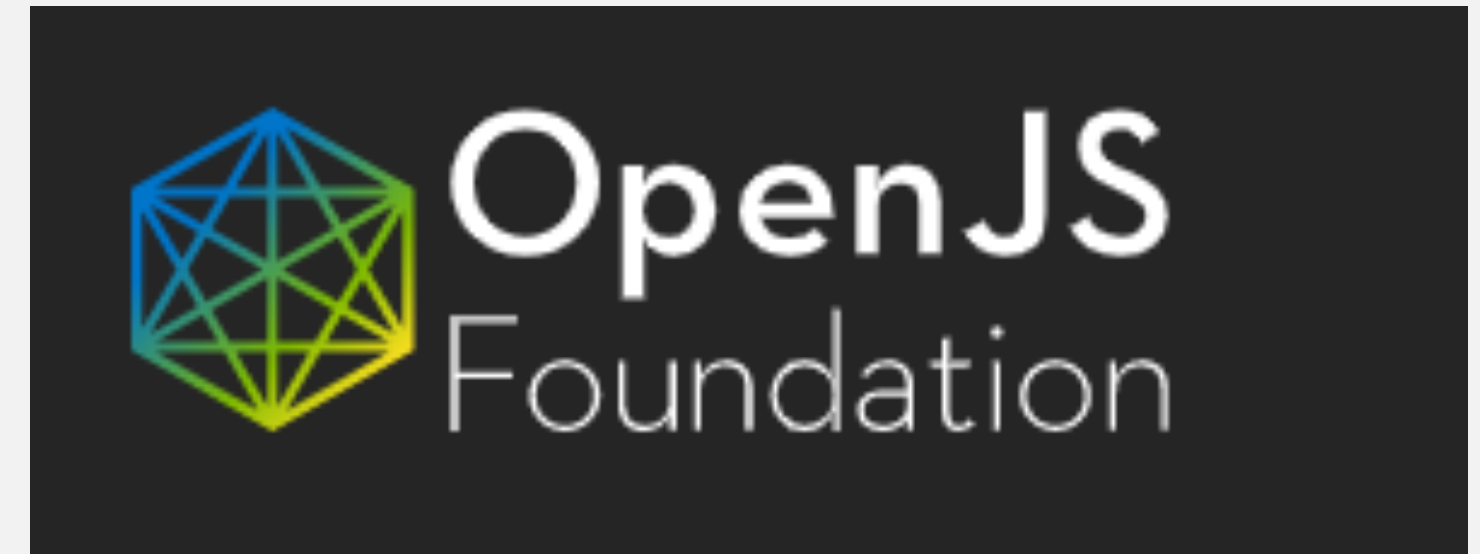
# Open Source Communities – OpenJS Foundation

## Projects

Node.js

Node-Red

Mocha



Cross project Council

Board

Node.js Community

**IBM's focus  
on enterprise  
requirements.**

Stable & Predictable Releases

Diagnostics

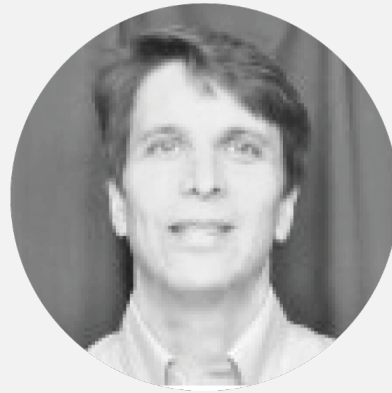
Security

Performance

Internationalization

Code quality & safety net

# Node.js Community Leadership @ IBM



Michael  
Dawson



Gireesh  
Punathil



Bethany  
Griggs



Ben  
Noordhuis



Christopher  
Hiller



Sam  
Ruby



Richard  
Lau



Steven  
Loomis



Yi-Hong  
Wang



Christian  
Clauss

Three TSC members & ten total Node.js core collaborators

# IBM Platforms



IBM **LinuxONE**<sup>TM</sup>

Internal Use

Vibrant Community

Multiple teams

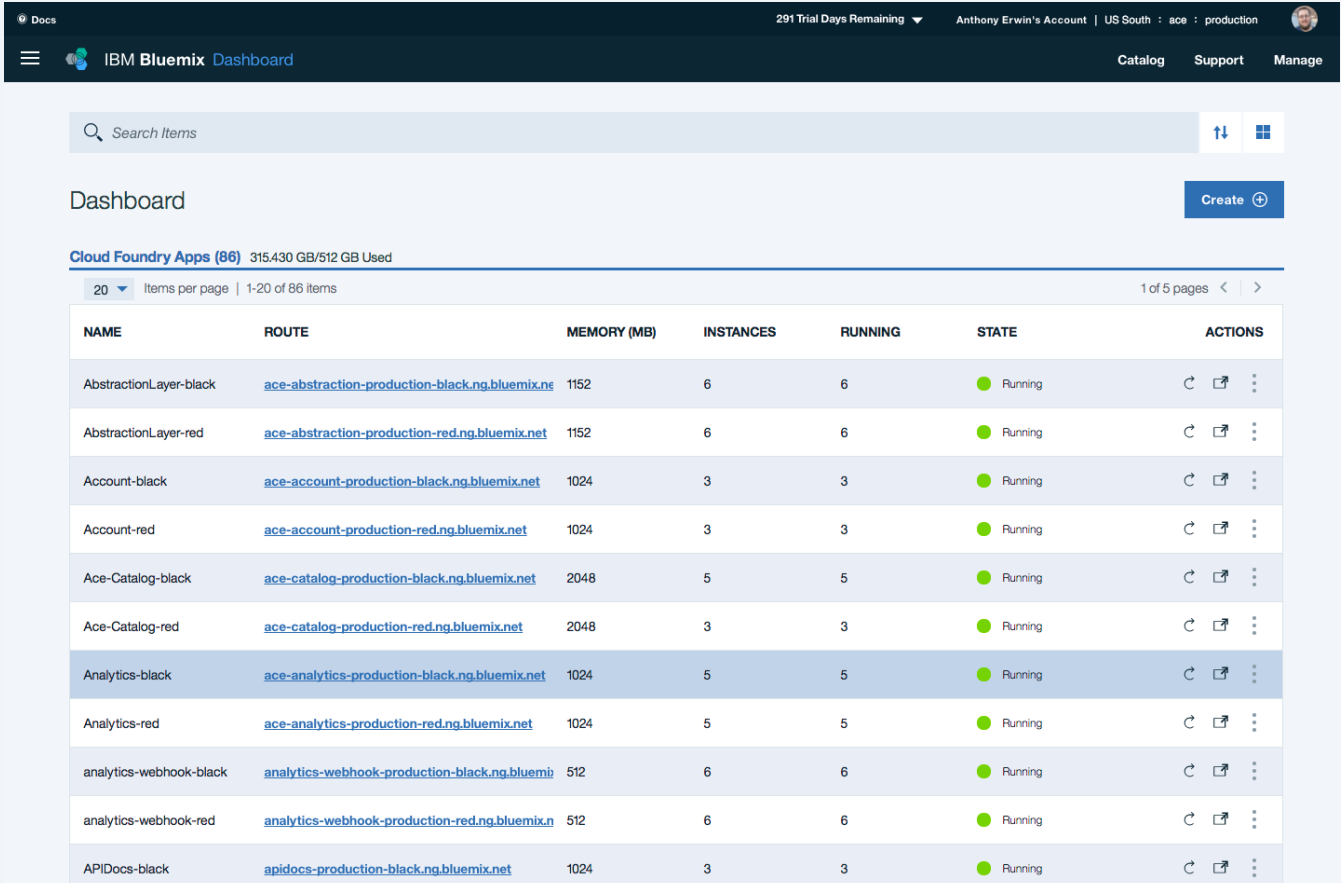
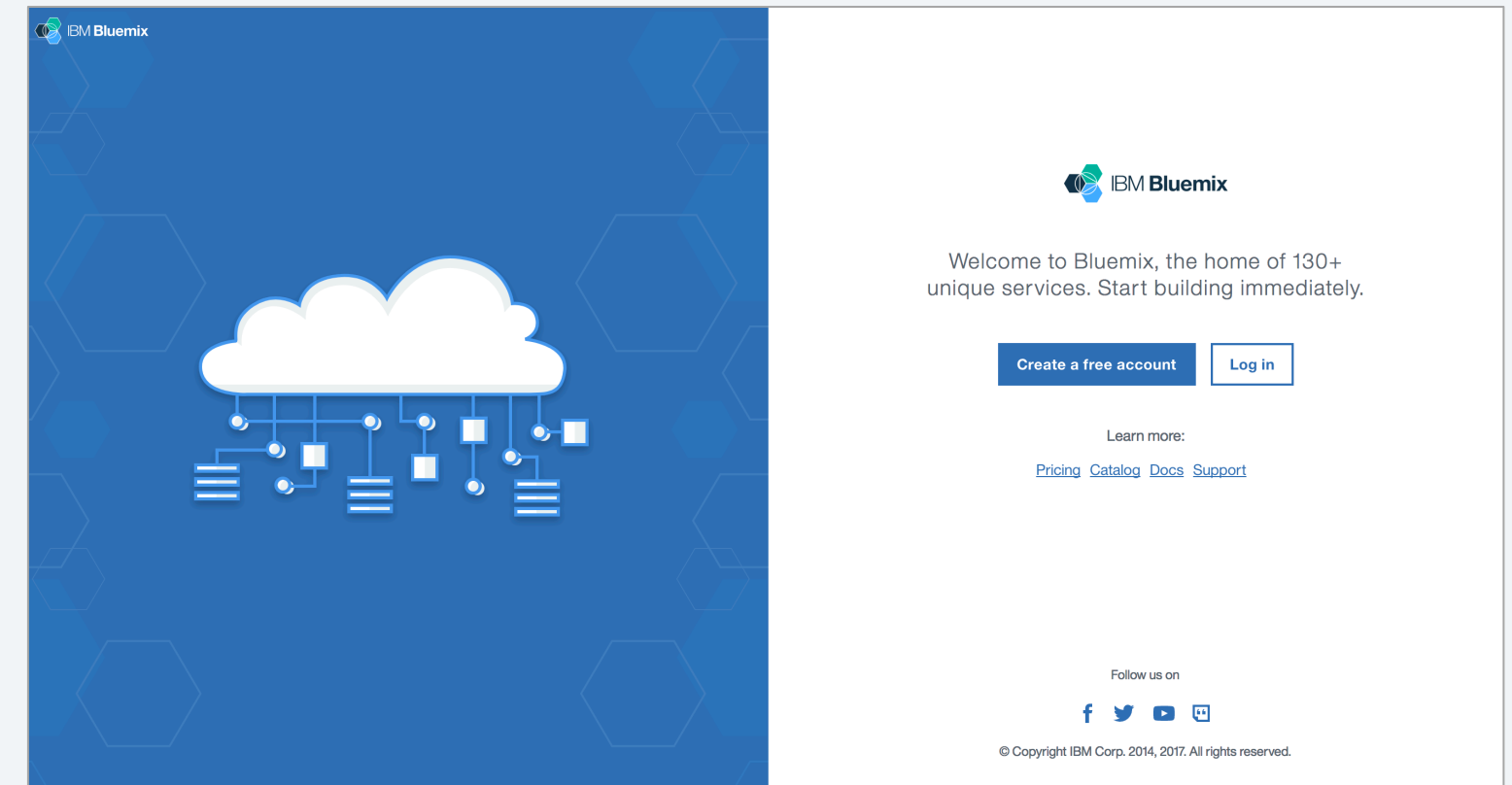
Slack Channels

Major Deployments



# Major Deployment - IBM Cloud Console

- Large UI serving as front-end to the IBM Cloud
- Lets users create, view, and manage PaaS/IaaS resources
  - Kubernetes clusters
  - Virtual servers
  - Bare metal
  - Cloud Foundry apps & services
- Provides additional functionality for:
  - Registration/onboarding
  - Identity and Access Management (IAM)
  - Billing/usage
  - Docs
- Serves as the front-end to IBM Cloud

The image shows a screenshot of the IBM Bluemix Dashboard. The top navigation bar includes "Docs", "291 Trial Days Remaining", "Anthony Erwin's Account", "US South", "ace : production", and a user profile icon. The main content area has a search bar, a "Create" button, and a table of Cloud Foundry Apps. The table has columns for NAME, ROUTE, MEMORY (MB), INSTANCES, RUNNING, STATE, and ACTIONS. The table lists 12 apps, all in a "Running" state.

NAME	ROUTE	MEMORY (MB)	INSTANCES	RUNNING	STATE	ACTIONS
AbstractionLayer-black	<a href="#">ace-abstraction-production-black.ng.bluemix.net</a>	1152	6	6	Running	<a href="#">↺</a> <a href="#">↻</a> <a href="#">⋮</a>
AbstractionLayer-red	<a href="#">ace-abstraction-production-red.ng.bluemix.net</a>	1152	6	6	Running	<a href="#">↺</a> <a href="#">↻</a> <a href="#">⋮</a>
Account-black	<a href="#">ace-account-production-black.ng.bluemix.net</a>	1024	3	3	Running	<a href="#">↺</a> <a href="#">↻</a> <a href="#">⋮</a>
Account-red	<a href="#">ace-account-production-red.ng.bluemix.net</a>	1024	3	3	Running	<a href="#">↺</a> <a href="#">↻</a> <a href="#">⋮</a>
Ace-Catalog-black	<a href="#">ace-catalog-production-black.ng.bluemix.net</a>	2048	5	5	Running	<a href="#">↺</a> <a href="#">↻</a> <a href="#">⋮</a>
Ace-Catalog-red	<a href="#">ace-catalog-production-red.ng.bluemix.net</a>	2048	3	3	Running	<a href="#">↺</a> <a href="#">↻</a> <a href="#">⋮</a>
Analytics-black	<a href="#">ace-analytics-production-black.ng.bluemix.net</a>	1024	5	5	Running	<a href="#">↺</a> <a href="#">↻</a> <a href="#">⋮</a>
Analytics-red	<a href="#">ace-analytics-production-red.ng.bluemix.net</a>	1024	5	5	Running	<a href="#">↺</a> <a href="#">↻</a> <a href="#">⋮</a>
analytics-webhook-black	<a href="#">analytics-webhook-production-black.ng.bluemix.net</a>	512	6	6	Running	<a href="#">↺</a> <a href="#">↻</a> <a href="#">⋮</a>
analytics-webhook-red	<a href="#">analytics-webhook-production-red.ng.bluemix.net</a>	512	6	6	Running	<a href="#">↺</a> <a href="#">↻</a> <a href="#">⋮</a>
APIDocs-black	<a href="#">apidocs-production-black.ng.bluemix.net</a>	1024	3	3	Running	<a href="#">↺</a> <a href="#">↻</a> <a href="#">⋮</a>

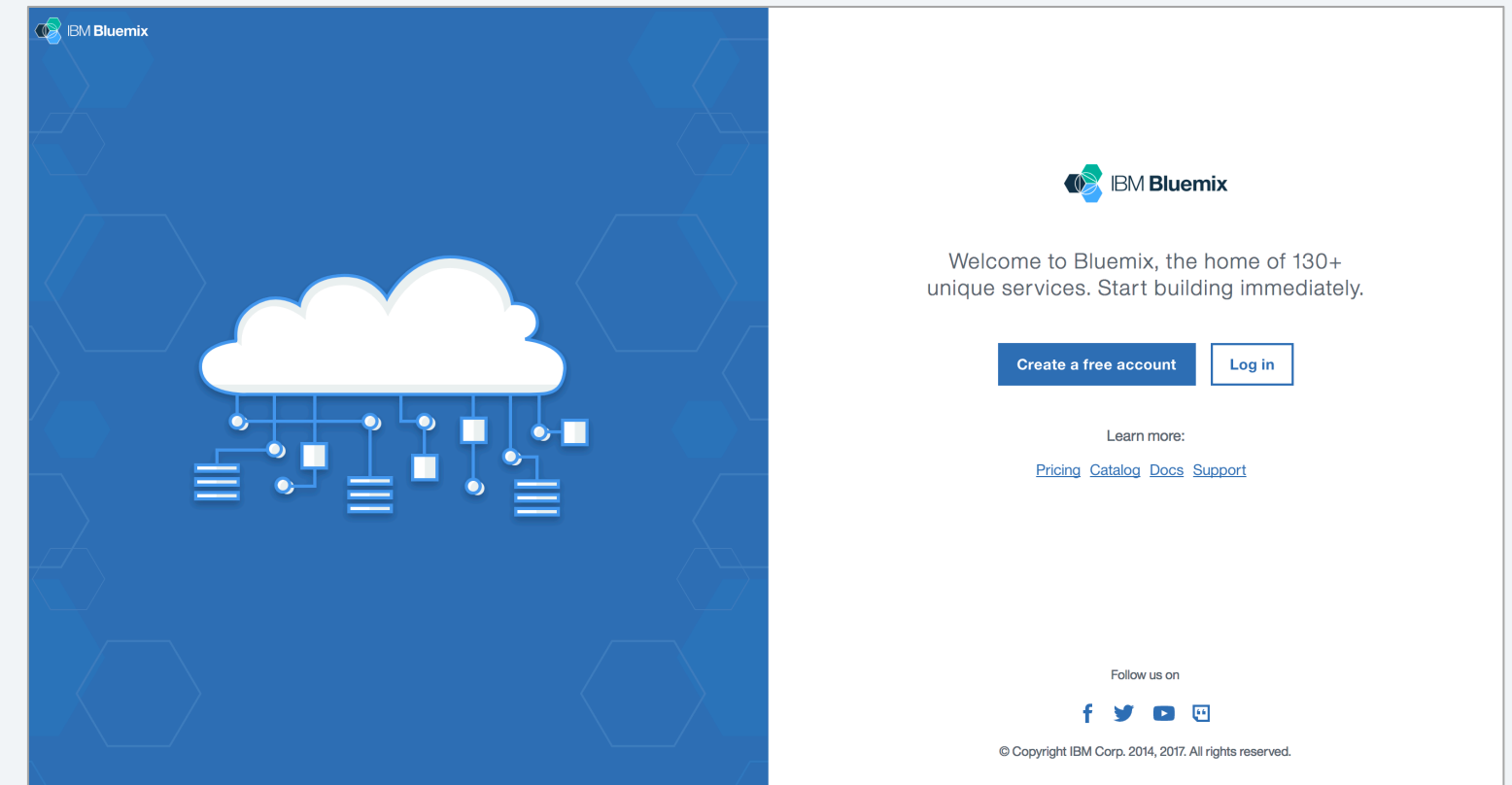
# Major Deployment - IBM Cloud Console

## Microservice Based

- ~**90** Node.js microservices
- Designed for plugins
  - ~**50** teams have contributed plugins

## Deployed in **Kubernetes**

**10** Geo load-balanced clusters deployed around the world



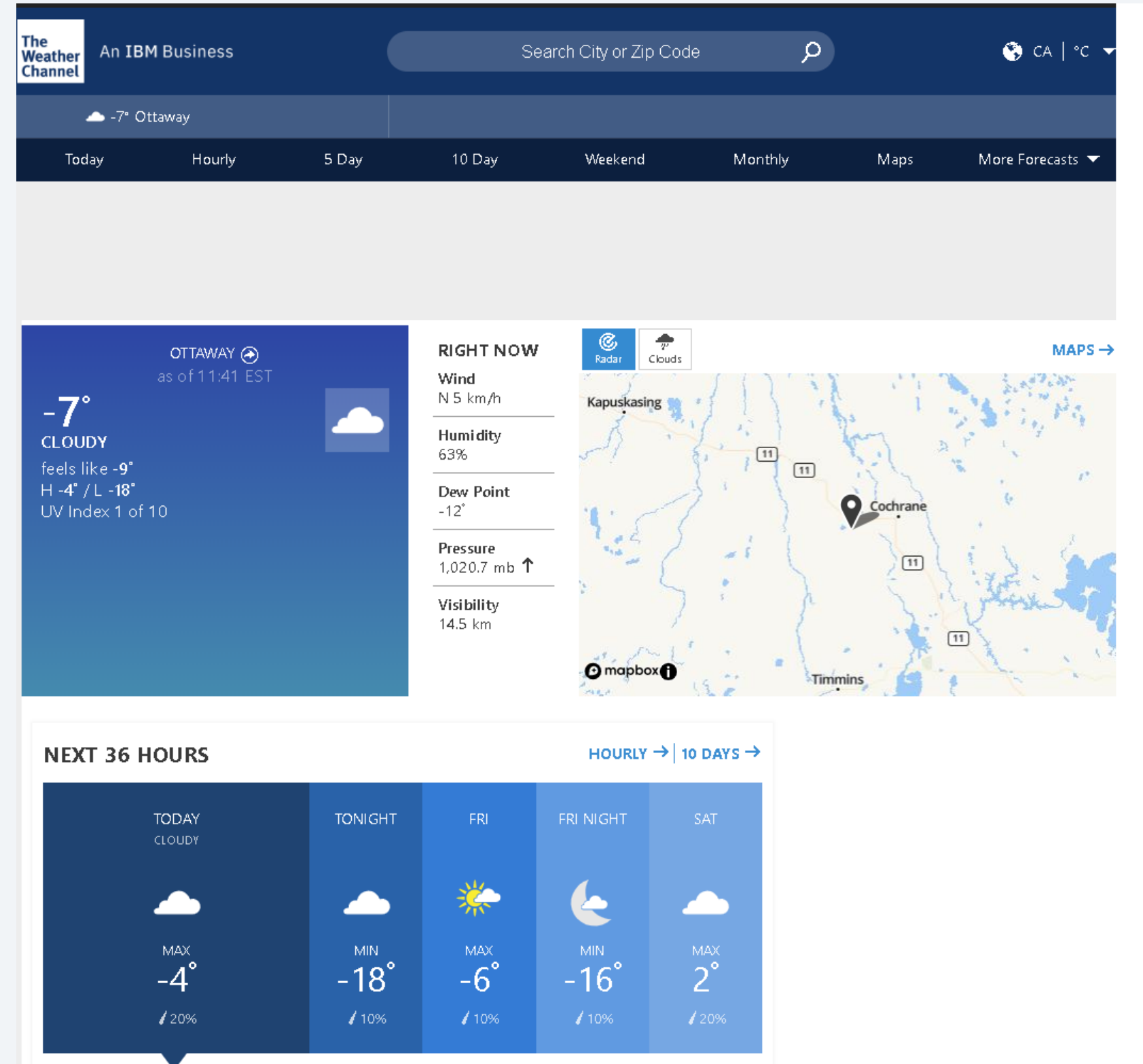
# Major Deployment – The Weather Company

<https://www.ibm.com/weather>

- Outage Prediction
- Weather Signals
- Advanced Insights
- Breaking Weather News

[www.weather.com](https://www.weather.com)

– Powered by



www.weather.com

<https://developer.ibm.com/articles/nodejs-weather-company-success-story/>

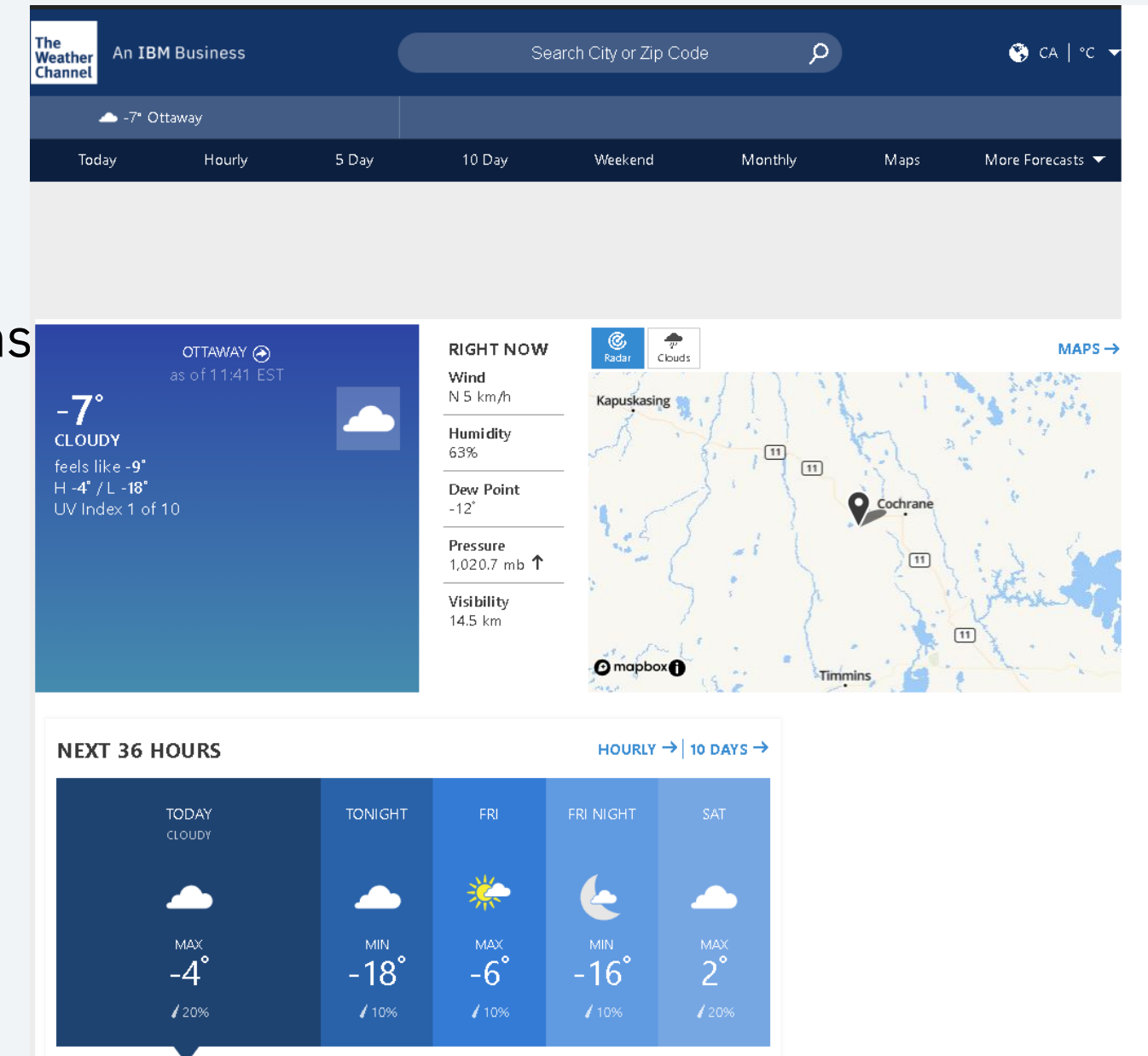
## Truly Global Application

- Billions of locations
- Cities, Zip codes, specific latitude and longitude combinations
- 60 Languages and 230+ Locals

## Global Infrastructure

- 4 regions
- 7 Kubernetes Clusters
- 400+ worker nodes
- Dozens of services scaled from 3 to 100+ replicas
- All running on IBM Cloud

Running 24/7 serving large public audience

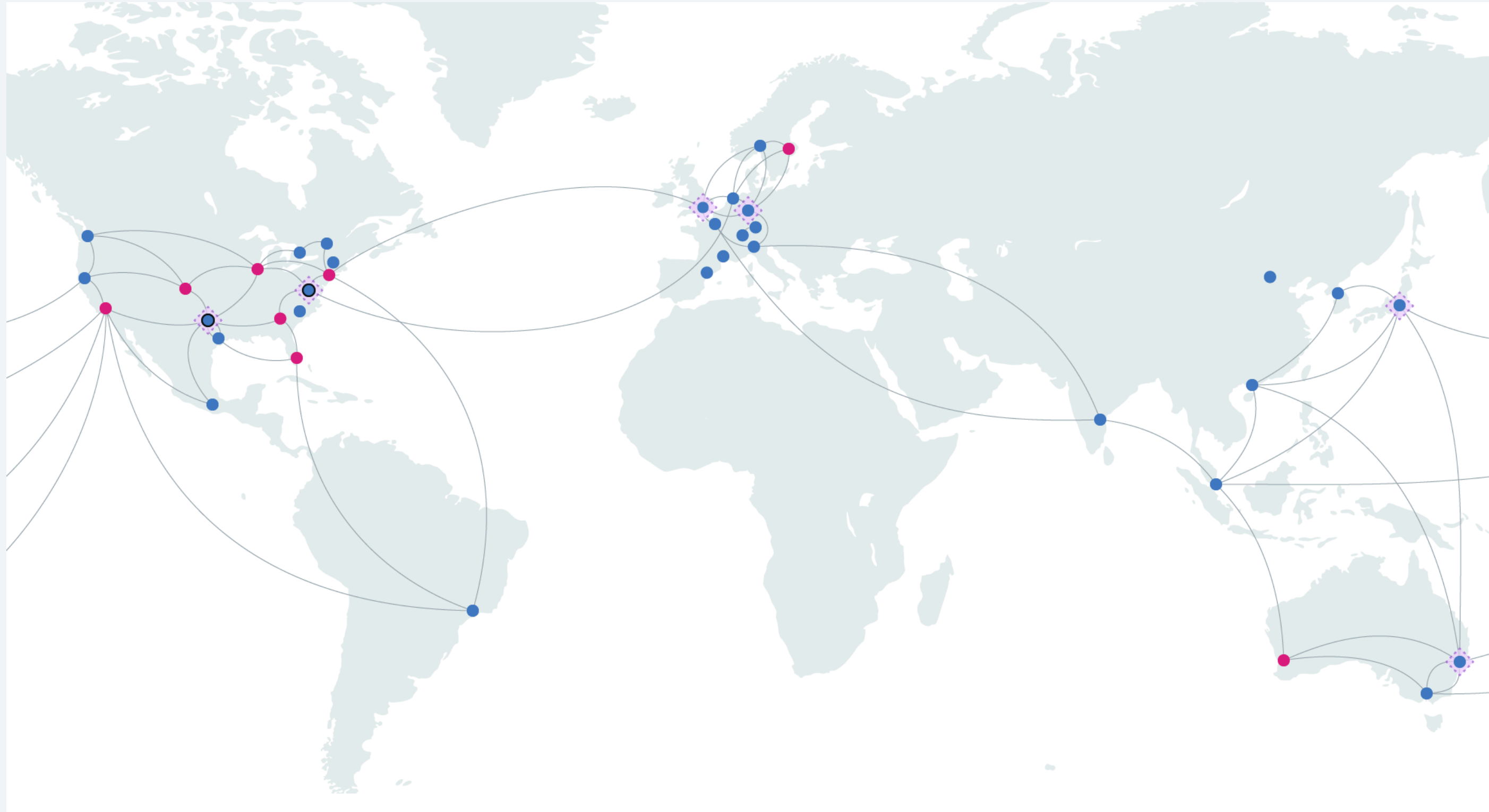


# Production Deployment Options and Developer Tooling

IBM Public Cloud

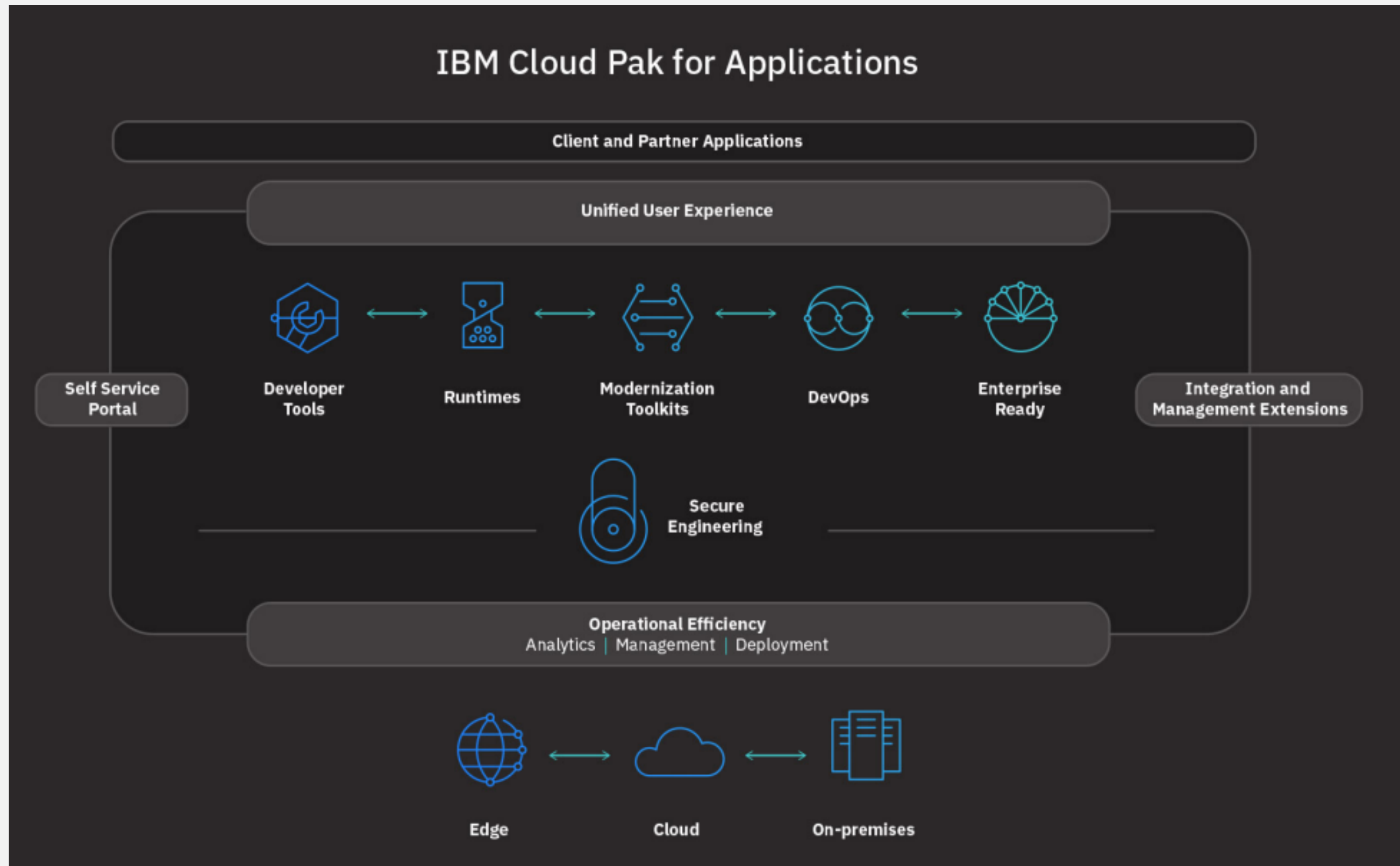
IBM Cloud Pak for Applications (Hybrid)

# IBM Cloud



Managed Kubernetes  
OpenShift  
Serverless  
Function as a Service  
Services, Services, Serivces

# IBM Cloud Pak for Applications



<https://www.ibm.com/cloud/cloud-pak-for-applications>

Node.js Commercial Support @ IBM

# **Node.js Support through offerings and platforms**

<https://developer.ibm.com/technologies/nodejs/articles/support-offering-for-nodejs/>

Service from a Trusted Partner - Let our experts help you.



To Learn More

<https://developer.ibm.com/technologies/node-is/>

Thank You