

# Modernisation des applications dans un monde multcloud : comment trouver le bon équilibre entre sécurité, agilité et expérience utilisateur ?

# Agenda

**09:30**

**Cloud 2022 et au-delà : la modernisation des applications et un environnement cloud natif pour exploiter pleinement votre potentiel commercial**

**10:00**

**Cloud 2022 et au-delà : se préparer à un univers multcloud et exploiter son potentiel commercial – Red Hat**

**10:40**

Pause

**11:00**

**Comment KBC améliore l'expérience utilisateur en utilisant Dynatrace sur la plateforme Openshift – KBC**

**11:20**

**Faciliter les pratiques DevSecOps avec conteneurs – Démo – Red Hat**

**11:40**

**Applications fonctionnant dans un cloud moderne : comment optimiser l'expérience utilisateur à l'aide d'une plateforme DevSecOps tout-en-un – Dynatrace**

**12:20**

**Prochaines étapes**

**12:20**

Repas de midi



# Modernisation des applications dans un monde multcloud

---

# Welcome



**Stefan Smeets**

Business line manager

Multi-cloud Data  
integration

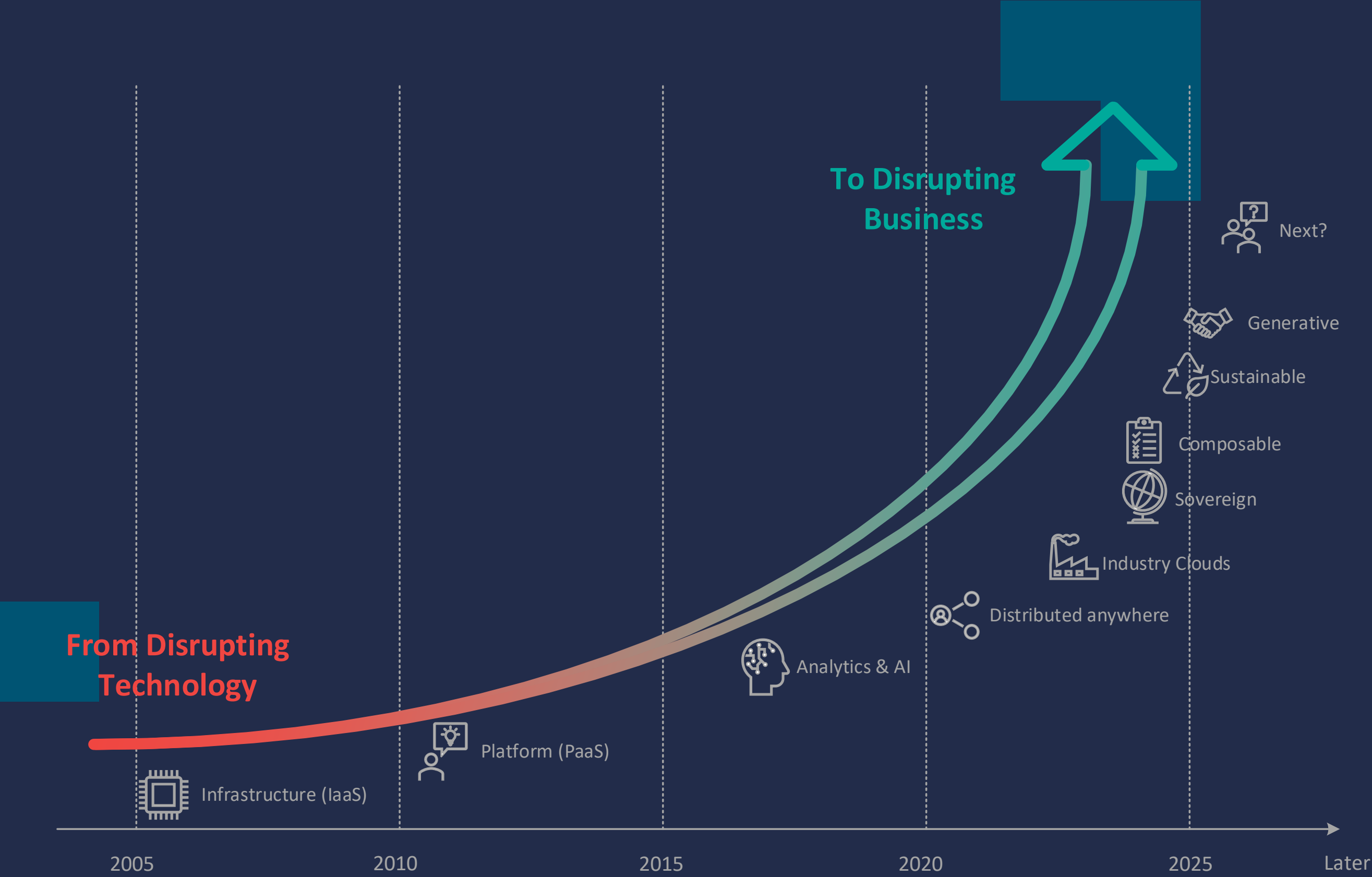


**Chafik Bensaber**

Solution manager  
modernisation



# From technology strategy towards business innovation

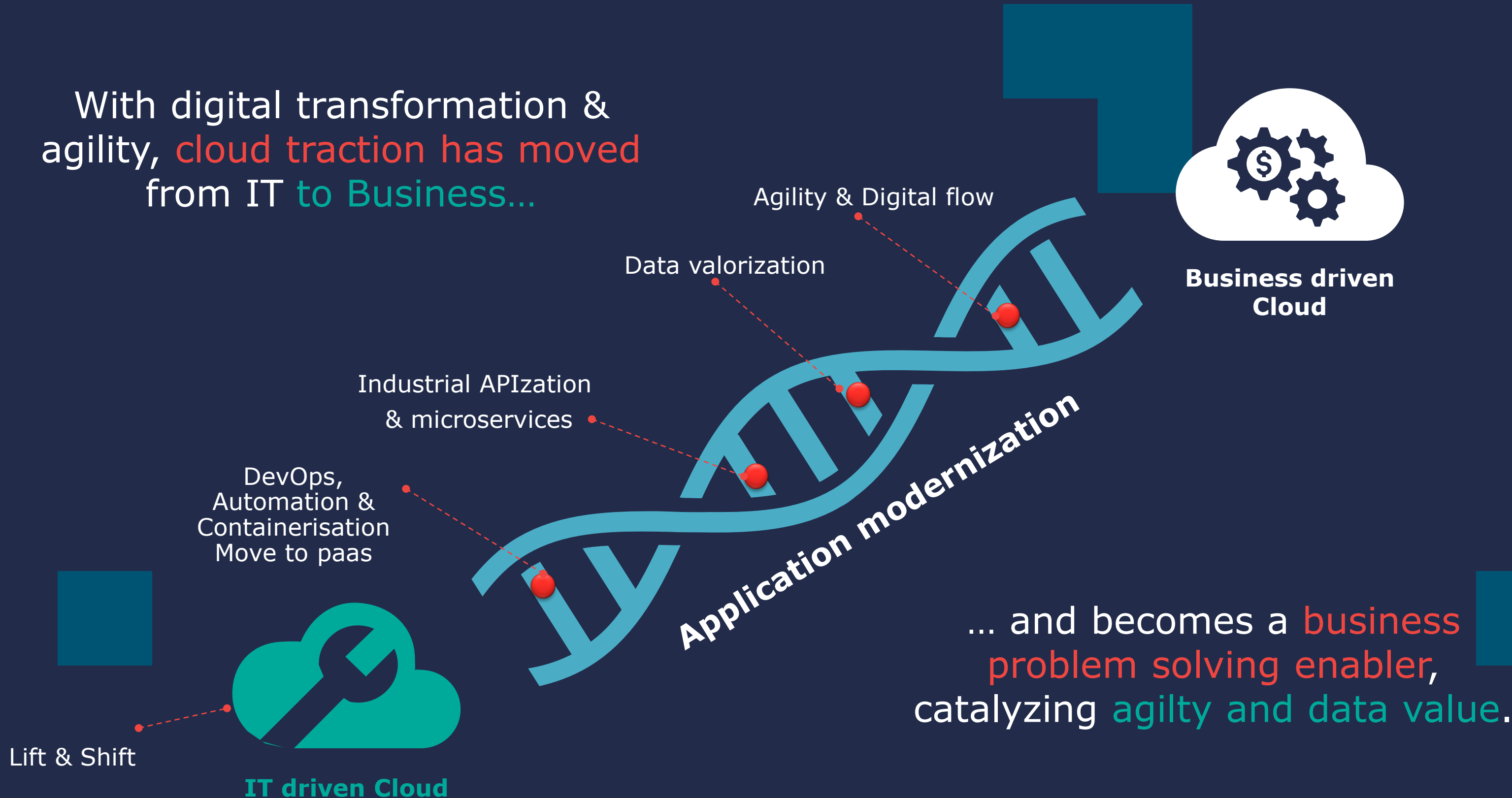


From Disrupting Technology

To Disrupting Business

# Cloud is entering in a new era

With digital transformation & agility, cloud traction has moved from IT to Business...



... and becomes a business problem solving enabler, catalyzing agility and data value.

# Modern Operating Model

**TRADITIONAL OPERATIONS**  
PROACTIVE & REACTIVE

**IT OPERATIONS 3.0**  
INDUSTRIALIZED & PREDICTIBLE

TRANSFORMATION

Level 0,1 and 2 optimization

STRATEGIC

TACTIC

OPERATIVE

MANAGEMENT AND REPORTING

LEVEL - 3

LEVEL - 2

LEVEL - 1

LEVEL - 0

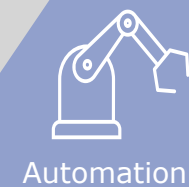
MANAGEMENT AND REPORTING

LEVEL - 3

LEVEL - 2

LEVEL - 1

LEVEL - 0



Automation



AIOPS



Advanced Monitoring

IT OPERATIONS WITH  
A TRADITIONAL MODEL

IT OPERATIONS WITH  
A TRADITIONAL MODEL

OPTIMIZED OPERATIONS



&



 **Digital strategies that drive outcomes**

 **Deep sector expertise and custom approach**

 **Combining industrial speed with a hands-on, local approach**

**We've come together to help customers become confident in the face of change.**



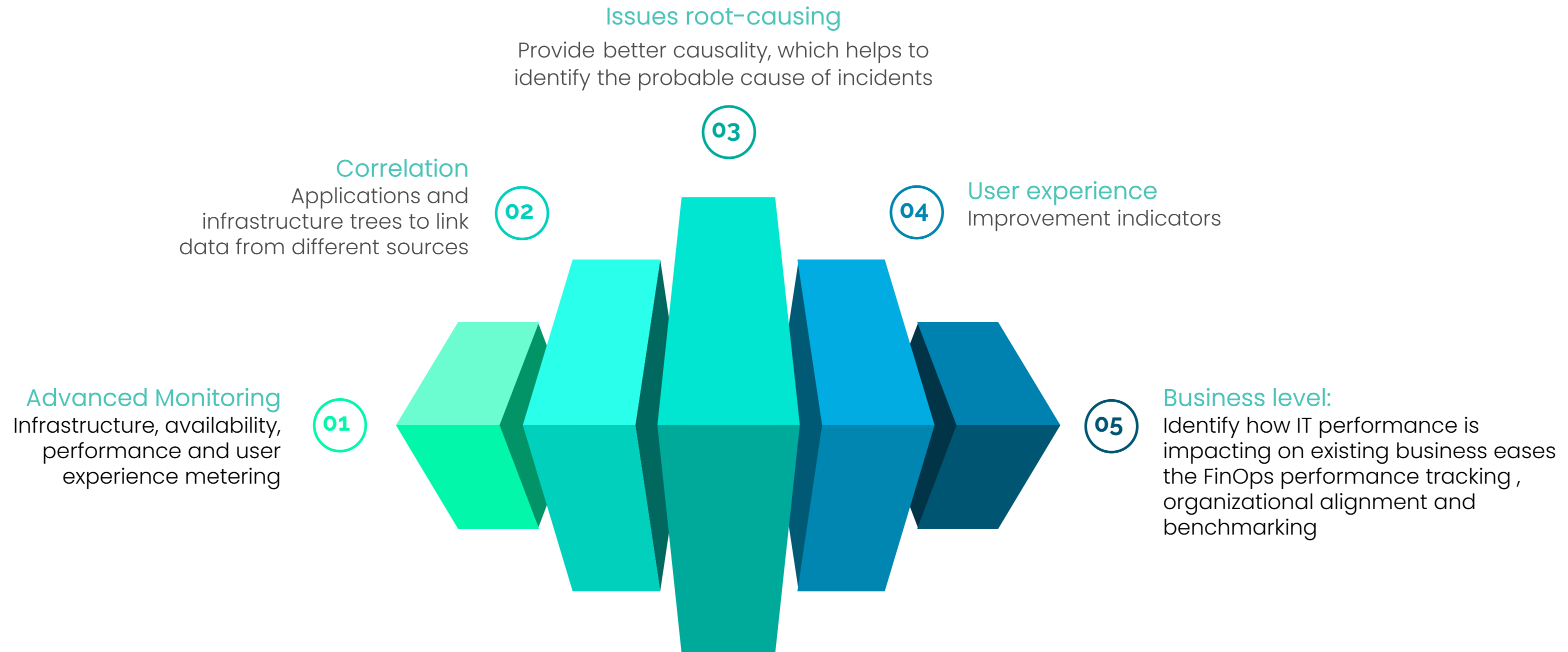
 **Open and flexible architectures to accelerate transformation**

 **Solutions to work across platforms and environments**

 **Build flexible, powerful IT infrastructure foundation**



# Cloud Governance - Observability





 **Maximize value for IT and Business by focussing on the outcomes**

 **Deep integrated into toolset, DevOps and ITSM practices**

 **Cloud managed service provider 3.0 for a lot of our key customer**

**We've come together to help customers become confident in the face of change.**

 **Simplify cloud complexity and innovate faster**

 **Observability, AIOps and application security in 1 platform**

 **Support management & modernisation, provide operational and business metrics**

# Your transformation journey

From **optimising today**

## Infrastructure optimisation

- Cost control
- Improve security
- Automate processes
- Containerise workloads
- Leverage any and all clouds

To **unlocking tomorrow**

## Application innovation

- DevOps practices
- API Development
- Modern app dev
- Enhance business performance
- Leverage cloud models

Powered by advanced security, supported by networking & managed services

# Infrastructure Optimization

## Infrastructure automation

Optimise your infrastructure by reducing your hardware and licensing footprint, and increasing automation.

## Modernisation and containerisation

Increase application efficiency, portability and performance by utilising containerisation and a scalable container platform.





# Application Innovation

## API and architecture integration

Simplify app development through APIs, integrating new app components into existing architectures.

## Application modernisation

Replace legacy apps and develop new apps faster to create modern digital experiences.

## DevSecOps implementation

Build security into every stage of your agile DevOps process for rapid and secure code delivery.

# Infrastructure automation

Run new applications while still maintaining legacy systems across public, private and hybrid cloud  
Streamline deployment and management of the OS by automating manual tasks, workflows, and administration.

Using an OS that runs anywhere, you can support your current and future requirements

## Services

- Infrastructure & Workload Optimisation
- Red Hat Ansible Automation Platform
- Red Hat Enterprise Linux & Red Hat Smart Management
- Security & Governance services
- Directory Services
- License/ Subscription / SAM optimisation
- Cost Control & Budgeting
- Data services

# Modernisation and containerisation

Scale up or down without rebuilding apps and move them easily across platforms and infrastructures by containerising.

Automate your app deployments and make installations, upgrades, and day-to-day management repeatable and reliable. Automate deployment, management, scaling, and networking of containers with orchestration.



## Services

- Container Orchestration (Red Hat OpenShift) on hybrid/multi-cloud
- Red Hat Advanced Cluster Management for Kubernetes & Red Hat Insights
- Red Hat Ansible Automation & Application services
- Advanced Security & Governance Services
- Containerisation and migration services
- Backup and DR services
- Data services
- Managed services



# Cloud 2022 et au-delà

Se préparer au multi-cloud hybride  
et maximiser son potentiel business

Ludovic Aelbrecht  
Chief Digital Advisor  
Red Hat Belgium & Luxembourg







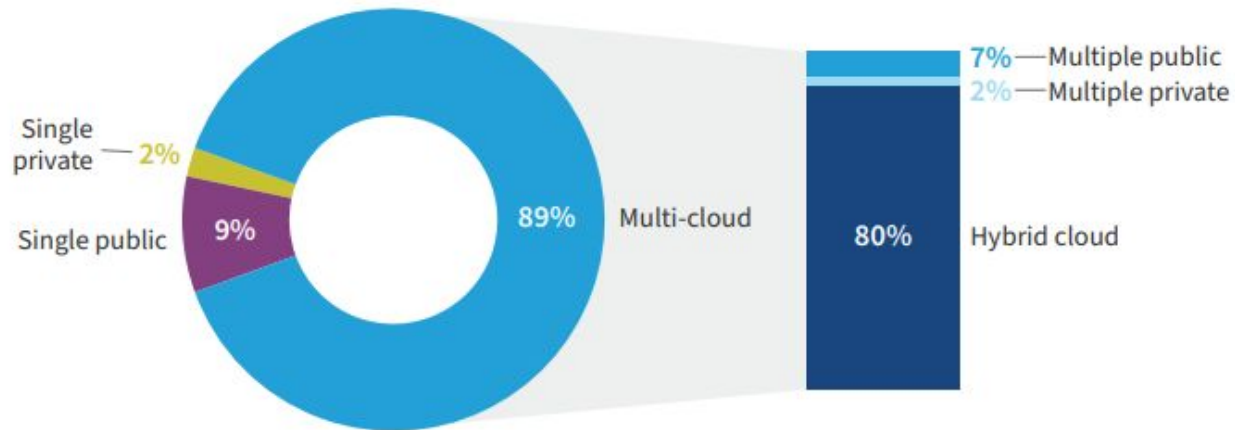
In the new world,  
it is not the big fish  
which eats the  
small fish, it's the  
fast fish which  
eats the slow fish

Klaus Schwab  
Founder and Executive Chairman  
World Economic Forum

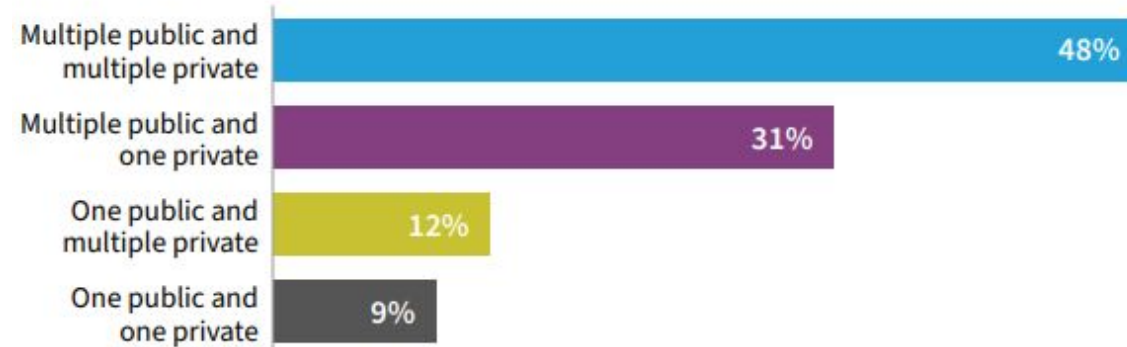


# Hybrid and multi-cloud are here to stay

Cloud strategy for all organizations



Hybrid cloud strategies for all organizations





The challenge for companies is to move from “hybrid by accident,” to an approach that embraces the hybrid requirements of applications, infrastructure, and skills.

## 3 key pillars when embracing Cloud

Development  
&  
Applications

People,  
Culture,  
Processes

Infrastructure  
&  
Operations

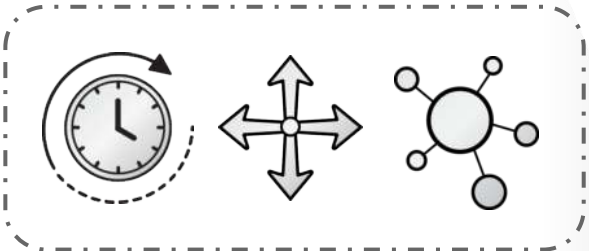
## 3 key pillars when embracing Cloud

Development  
&  
Applications

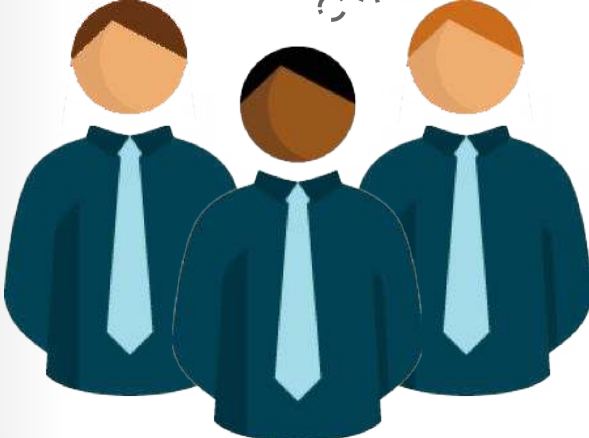
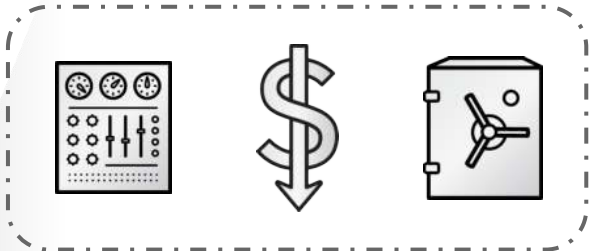
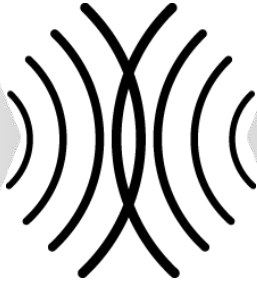
People,  
Culture,  
Processes

Infrastructure  
&  
Operations

# A PROBLEM



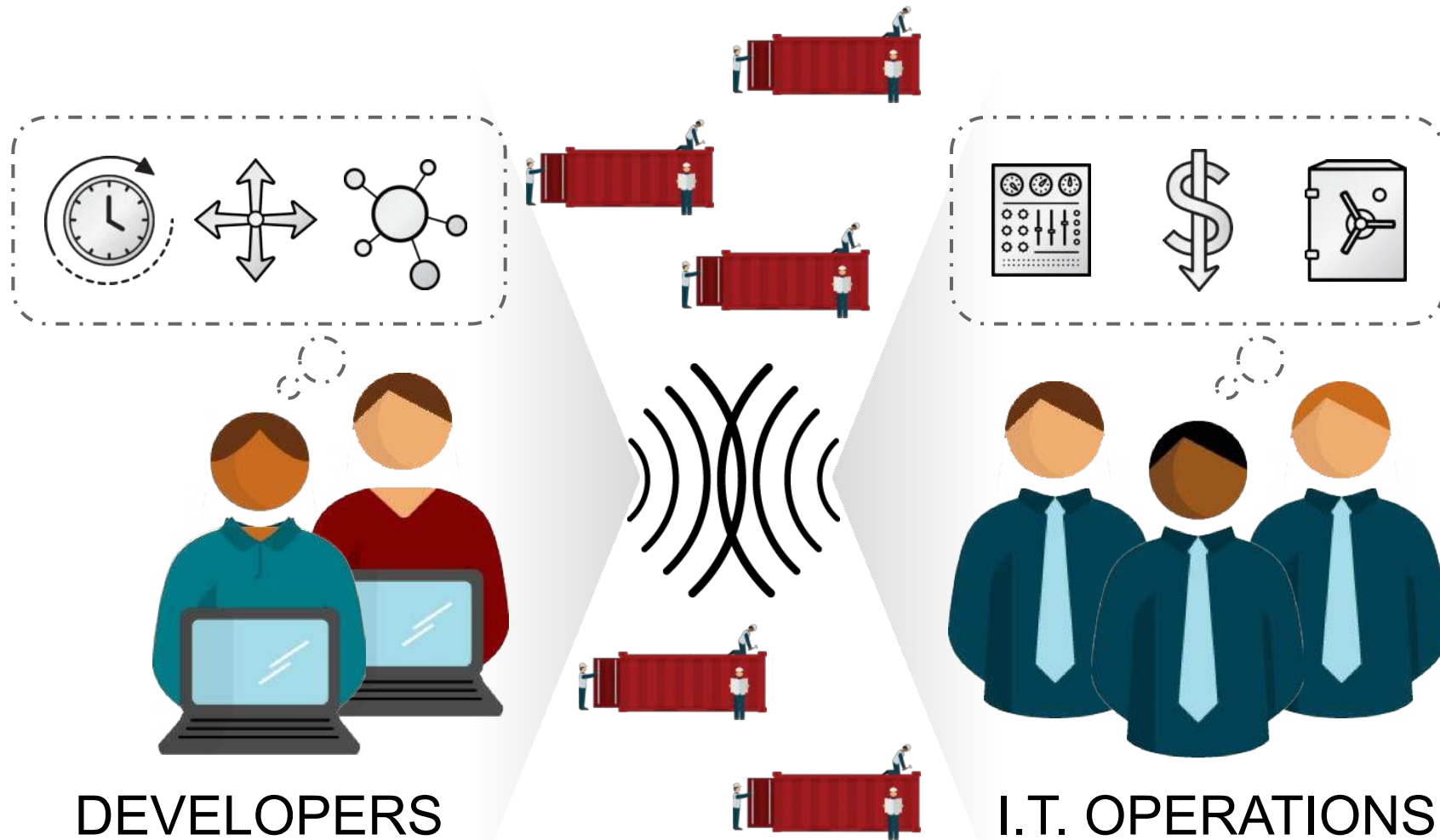
DEVELOPERS



I.T. OPERATIONS



# A SOLUTION

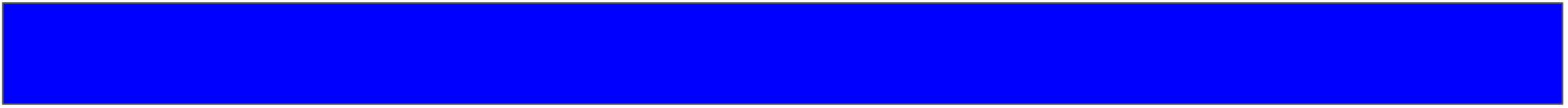



DEVELOPERS

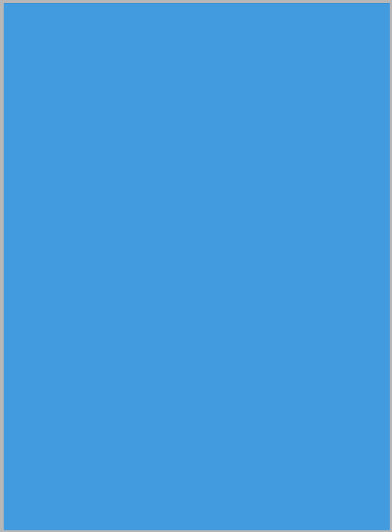
I.T. OPERATIONS




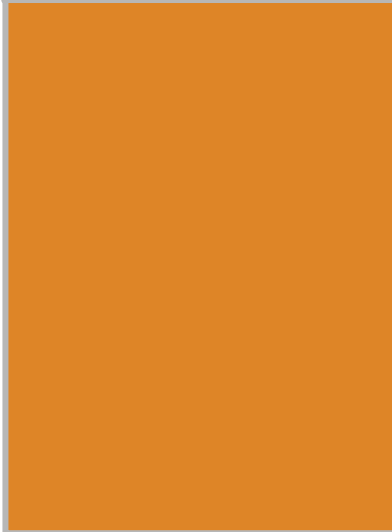
Imagine you have a cloud-native app  
which you want to run on  
your hybrid cloud infrastructure...




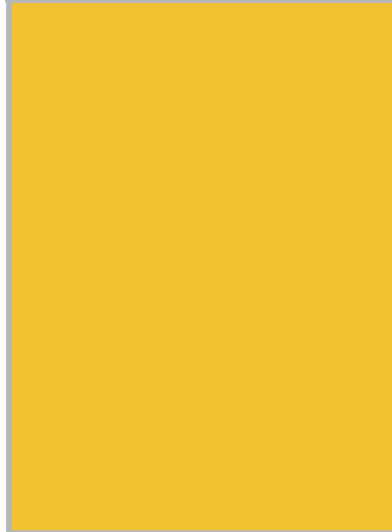
 Microsoft Azure



 aws



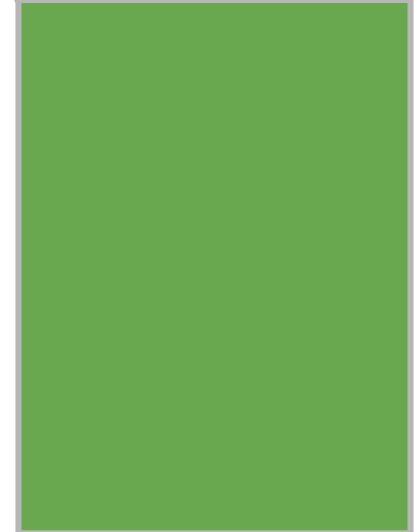
  
Google Cloud Platform



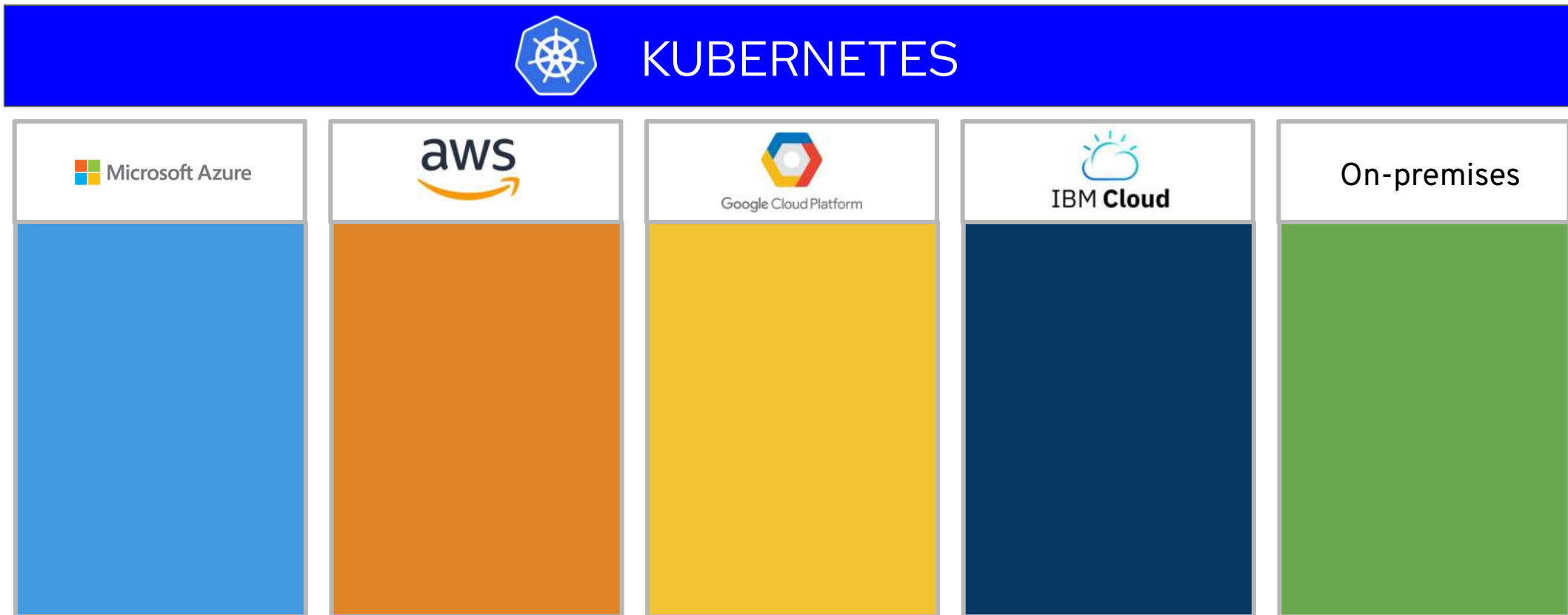
  
IBM Cloud

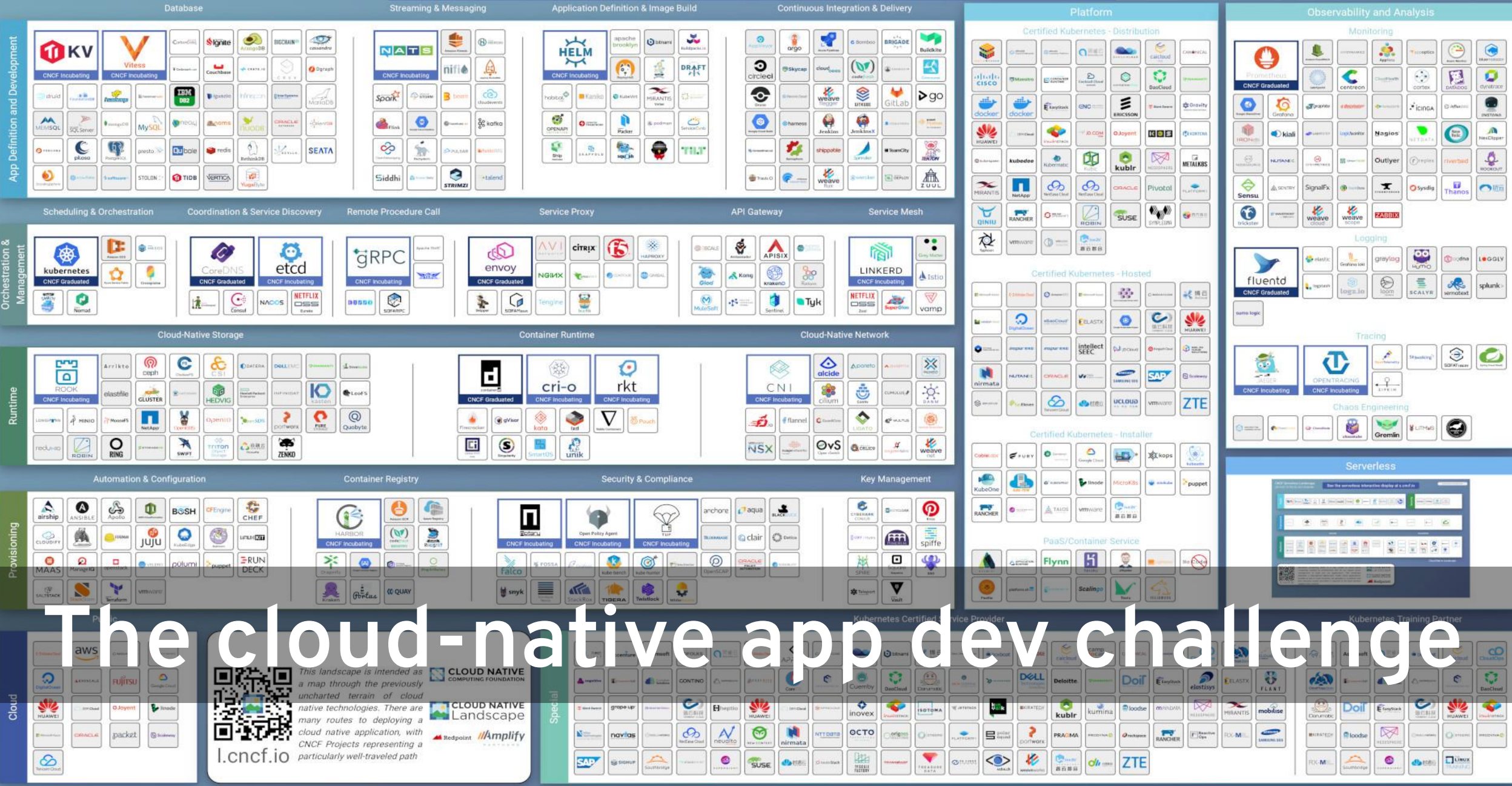


On-premises



# Kubernetes enables consistency and portability between clouds





# The cloud-native app dev challenge



This landscape is intended as a map through the previously uncharted terrain of cloud native technologies. There are many routes to deploying a cloud native application, with CNCF Projects representing a particularly well-traveled path

**Cloud Native Computing Foundation**  
**Cloud Native Landscape**  
[l.cncf.io](https://l.cncf.io)

**Cloud Native Computing Foundation**

**Cloud Native Landscape**

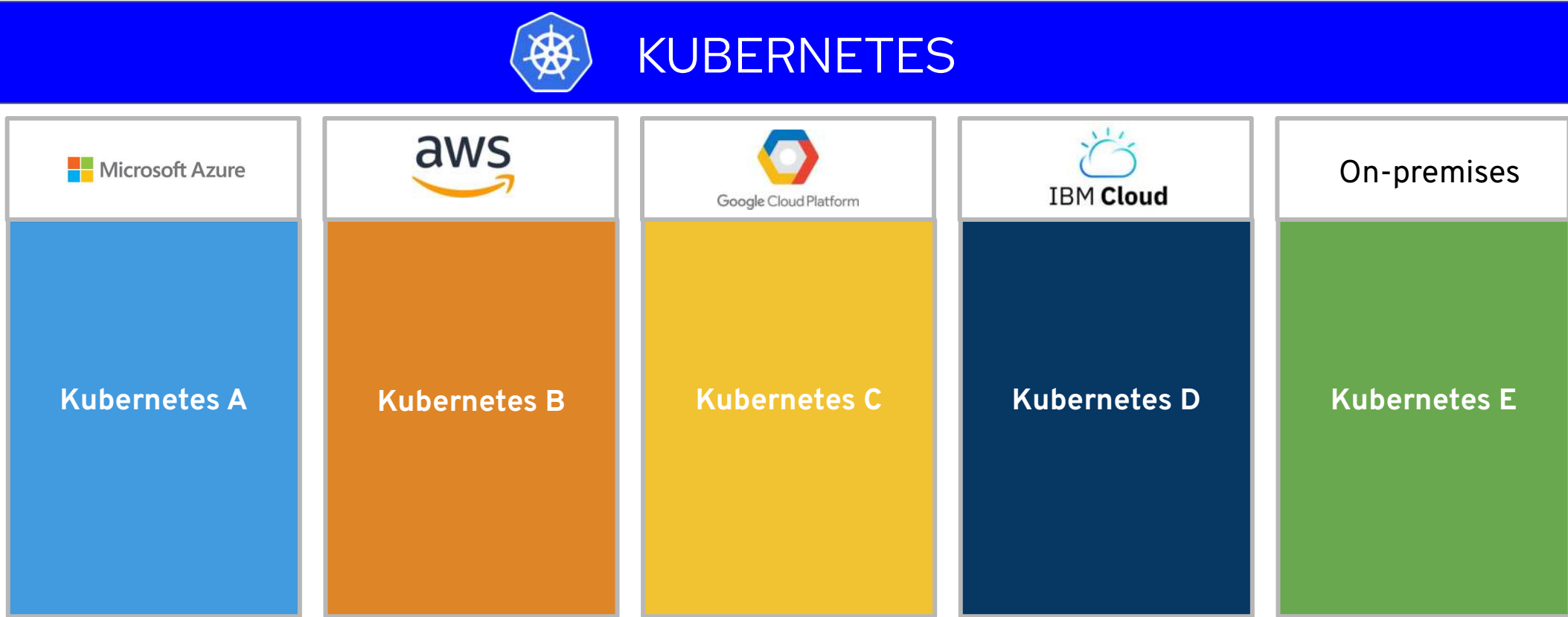
**Special**

**Kubernetes Certified Service Provider**

**Kubernetes Training Partner**

Logos for various companies including AWS, Azure, Google Cloud, IBM, Oracle, SAP, and many others.

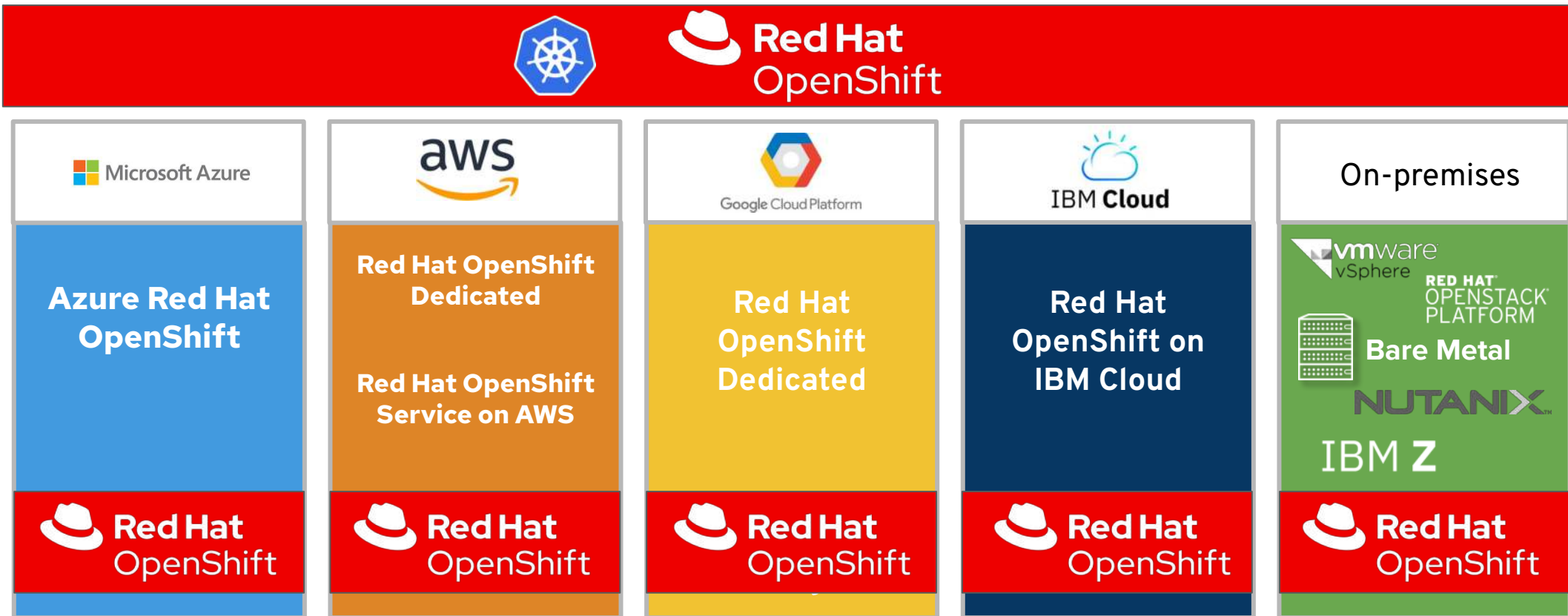
# Kubernetes enables consistency and portability between clouds







# Red Hat OpenShift offers the broadest set of Open Hybrid Cloud services





# OpenShift leads the Hybrid Cloud Application Platform Market

## More than 3000 customers

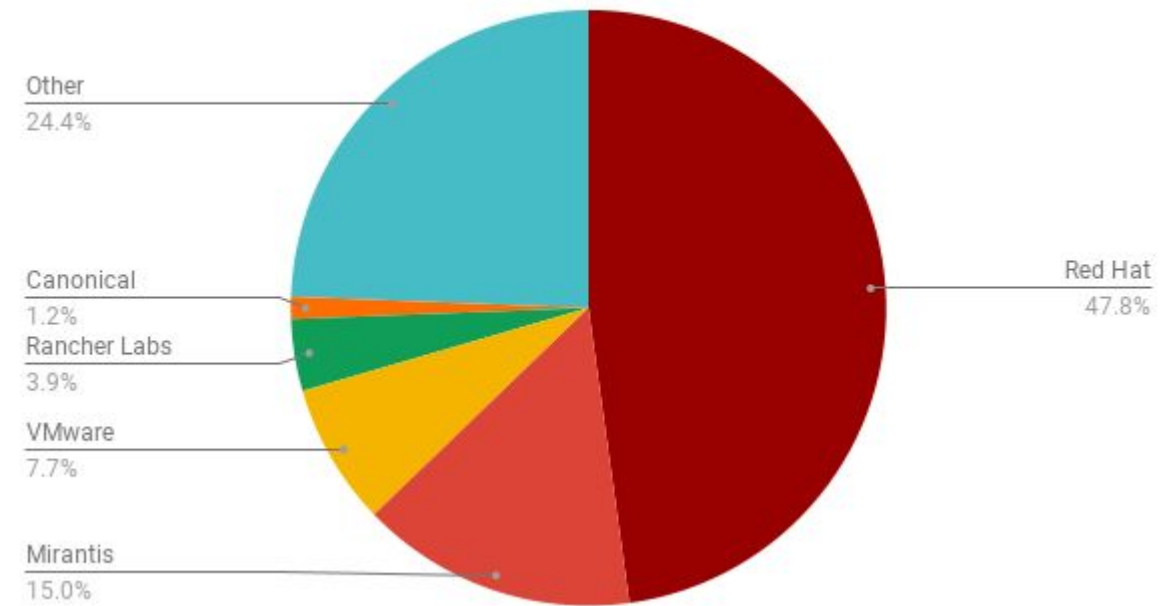
### THE FORRESTER WAVE™

Multicloud Container Development Platforms

Q3 2020



Container Market Share (%) - Omdia Research



\* Omdia Container Market Share (2021)



The ConnectedDrive platform  
scales as the data scales

“”

With the managed systems based on OpenShift, we have a clear goal that we—as developers—will have the **freedom** to be able to **deploy** our **connected IoT services** in any cloud environment.

Jonas Sticha & Christian Hoff  
Software Engineers,  
BMW Car IT GMBH

**BMW**  
Connected Drive



>12 million  
connected cars



>1 billion  
requests per week



## 3 key pillars when embracing Cloud

Development  
&  
Applications

People,  
Culture,  
Processes

Infrastructure  
&  
Operations



JAKARTA EE



QUARKUS



VERT.X

OpenJDK





# Kafka on OpenShift

Project: vsummit-quarkus-cafe

Installed Operators > Operator Details

**Red Hat Integration - AMQ Streams**  
1.4.0 provided by Red Hat

Overview | YAML | Subscription | Events | All Instances | Kafka | Kafka Connect | Kafka Connect S2I | Kafka MirrorMaker | Kafka Bridge

### Provided APIs

API	Description	Create Instance
<b>K</b> Kafka	Represents a Kafka cluster	<a href="#">Create Instance</a>
<b>KC</b> Kafka Connect	Represents a Kafka Connect cluster	<a href="#">Create Instance</a>
<b>KCS</b> Kafka Connect S2I	Represents a Kafka Connect cluster with Source 2 Image support	<a href="#">Create Instance</a>
<b>KMM</b> Kafka MirrorMaker	Represents a Kafka MirrorMaker cluster	<a href="#">Create Instance</a>
<b>KB</b> Kafka Bridge	Represents a Kafka Bridge cluster	<a href="#">Create Instance</a>
<b>KT</b> Kafka Topic	Represents a topic inside a Kafka cluster	<a href="#">Create Instance</a>

**Provider**  
Red Hat

**Created At**  
Apr 8, 11:48 pm

**Links**  
Product Page  
<https://access.redhat.com/products/red-hat-amq>

**Documentation**  
[https://access.redhat.com/documentation/en-us/red\\_hat\\_amq/7.6/html-single/using\\_amq\\_streams\\_on\\_openshift/index](https://access.redhat.com/documentation/en-us/red_hat_amq/7.6/html-single/using_amq_streams_on_openshift/index)

**Maintainers**  
Red Hat  
customerservice@redhat.com

Project: vsummit-quarkus-cafe

Installed Operators > Operator Details

**Red Hat Integration - AMQ Streams**  
1.4.0 provided by Red Hat

YAML | Subscription | Events | All Instances | Kafka | Kafka Connect | Kafka Connect S2I | Kafka MirrorMaker | Kafka Bridge

### Kafka Topics

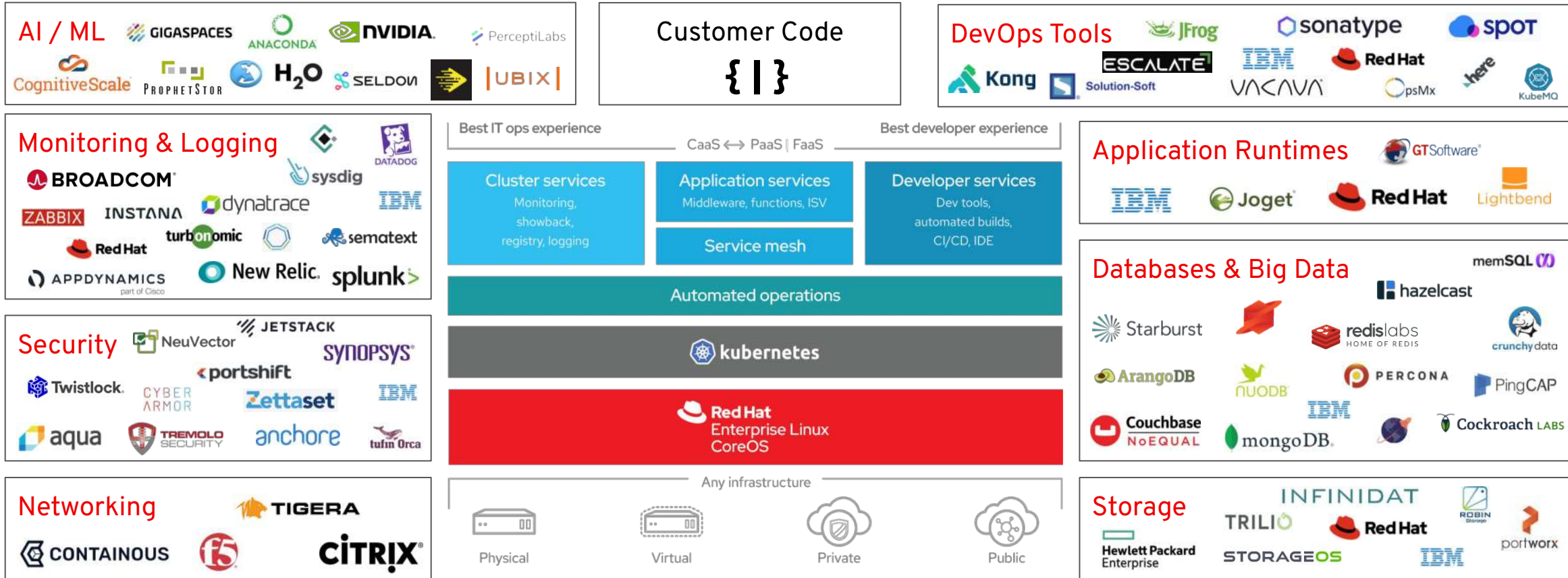
[Create Kafka Topic](#)

Filter by name...

Name	Labels	Kind	Status	Version	Last Updated
<b>KT</b> barista-in	strimzi.io/c...=cafe-cl...	KafkaTopic	Unknown	Unknown	Apr 11, 5:12 pm
<b>KT</b> consumer-offsets--84e7a578d08f4bd226872e5cdd4eb527fadcl6a	strimzi.io/c...=cafe-cl...	KafkaTopic	Unknown	Unknown	Apr 11, 5:13 pm
<b>KT</b> kitchen-in	strimzi.io/c...=cafe-cl...	KafkaTopic	Unknown	Unknown	Apr 11, 5:12 pm
<b>KT</b> orders	strimzi.io/c...=cafe-cl...	KafkaTopic	Unknown	Unknown	Apr 11, 5:11 pm
<b>KT</b> orders-in	strimzi.io/c...=cafe-cl...	KafkaTopic	Unknown	Unknown	Apr 11, 5:14 pm
<b>KT</b> web-in	strimzi.io/c...=cafe-cl...	KafkaTopic	Unknown	Unknown	Apr 11, 5:11 pm
<b>KT</b> web-updates	strimzi.io/c...=cafe-cl...	KafkaTopic	Unknown	Unknown	Apr 11, 5:11 pm

Compute >  
User Management >

# OpenShift Certified Operators





# AGENTSCHAP DIGITAAL VLAANDEREN

## Challenges

- Needed a faster pace to keep up with demand
- Decided to modernize its critical data-sharing platform (MAGDA)
- Sought a microservices-based solution for its plans to move to the cloud

## Solution

- Moved to Kubernetes using OpenShift
- Modernized its apps using Red Hat application & messaging solutions
- Gained consistent environment across legacy and cloud resources

## Benefits

- Improved efficiency to deliver critical COVID project in 6 weeks
- Achieved greater scalability & stability at lower cost
- Enhanced reputation for technology innovation among government agencies



Our partners recognize the added value from our enhancements to MAGDA's technology foundation with Red Hat software, including the ability to scale to meet demand.

**Kelly Bonneure**

Lead MAGDA Product Owner, Digitaal Vlaanderen

## 3 key pillars when embracing Cloud

Development  
&  
Applications

People,  
Culture,  
Processes

Infrastructure  
&  
Operations



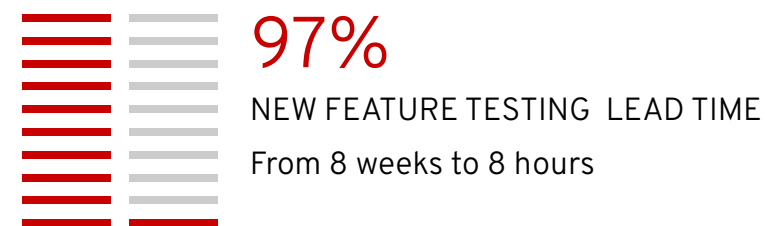
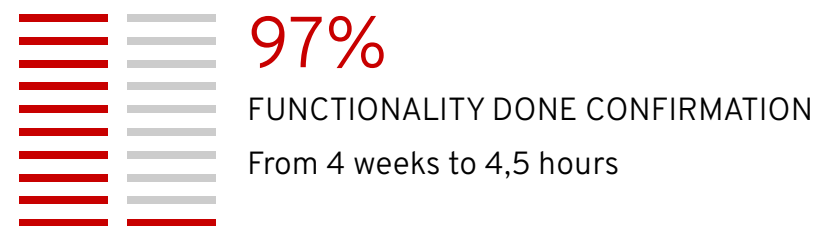
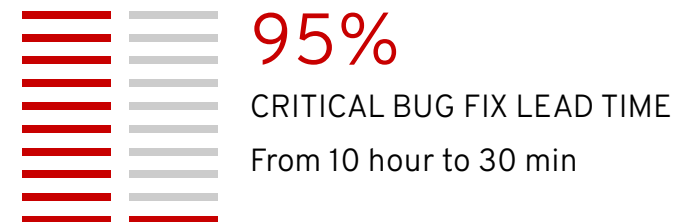
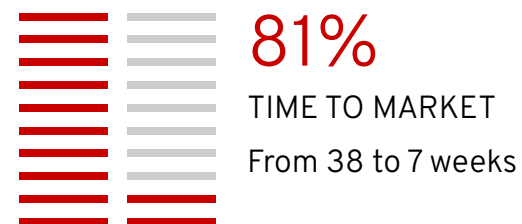
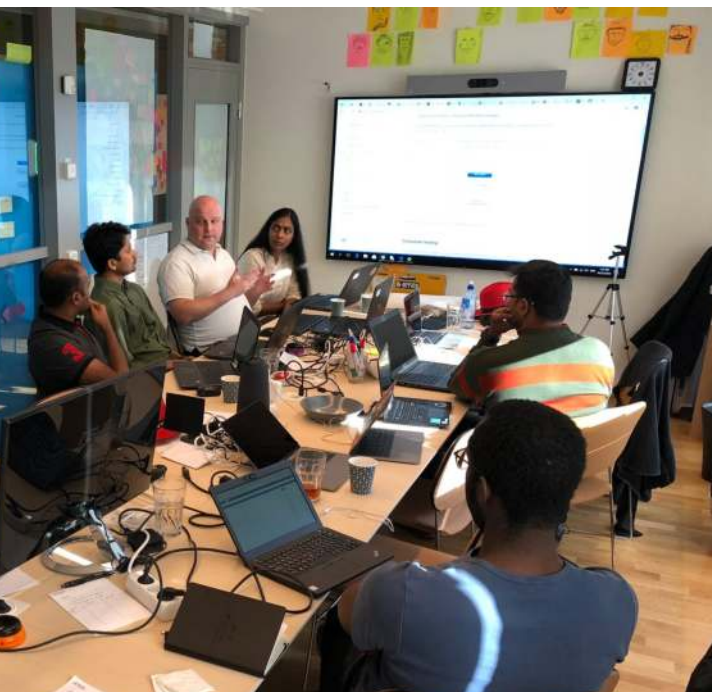


# Open Source Culture

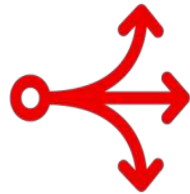




# Empowers Devs To Deliver Tangible Business Outcomes & Demonstrate Measurable Improvements



# Open Hybrid Cloud enables capabilities



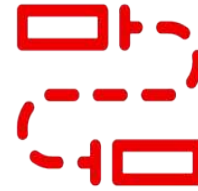
Flexibility



Agility



Security



Portability



Openness



# KBC customer journey

KBC – Inetum-Realdolmen – Redhat OpenShift – Dynatrace



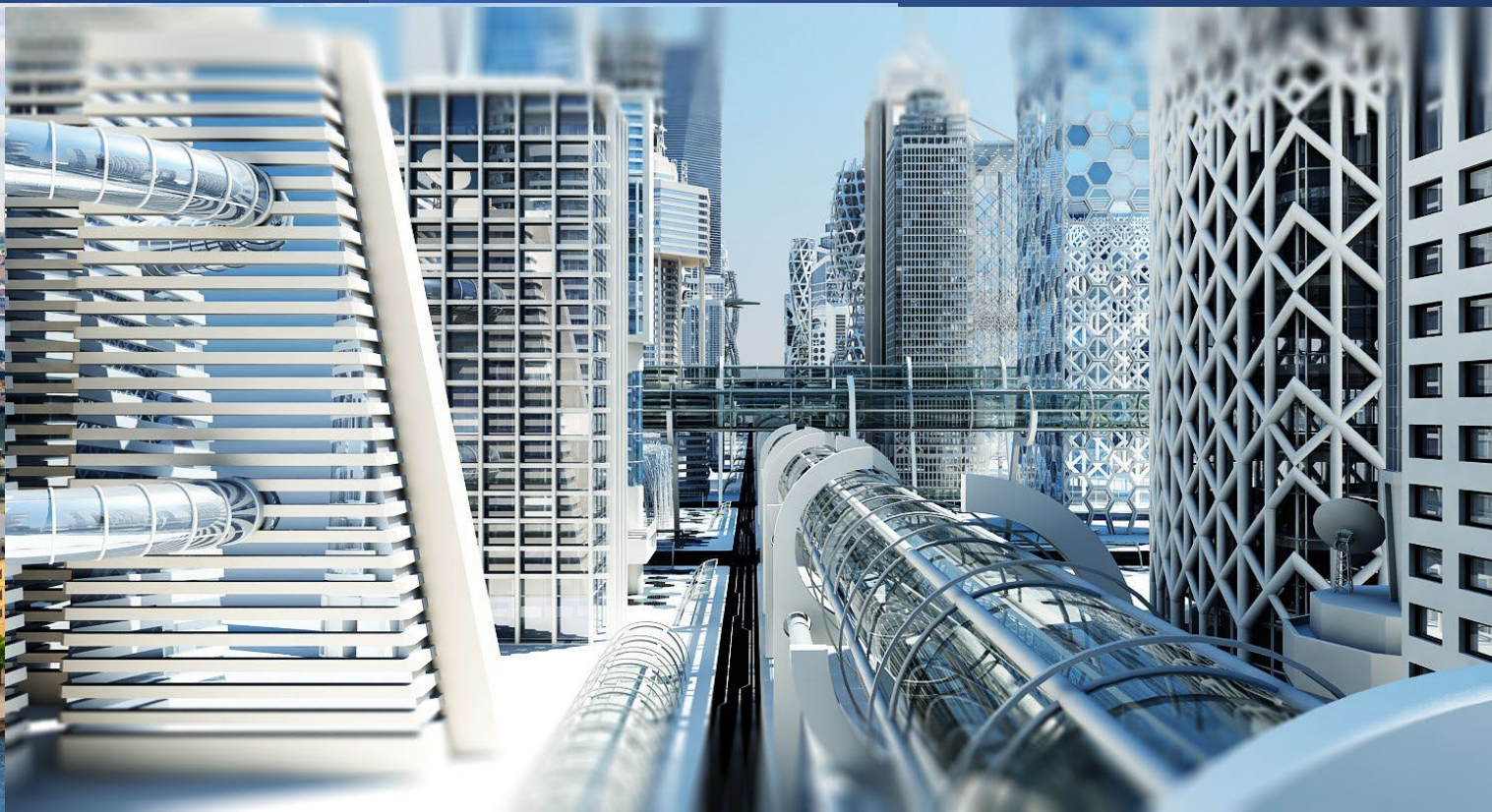
# Journey



2012



2022

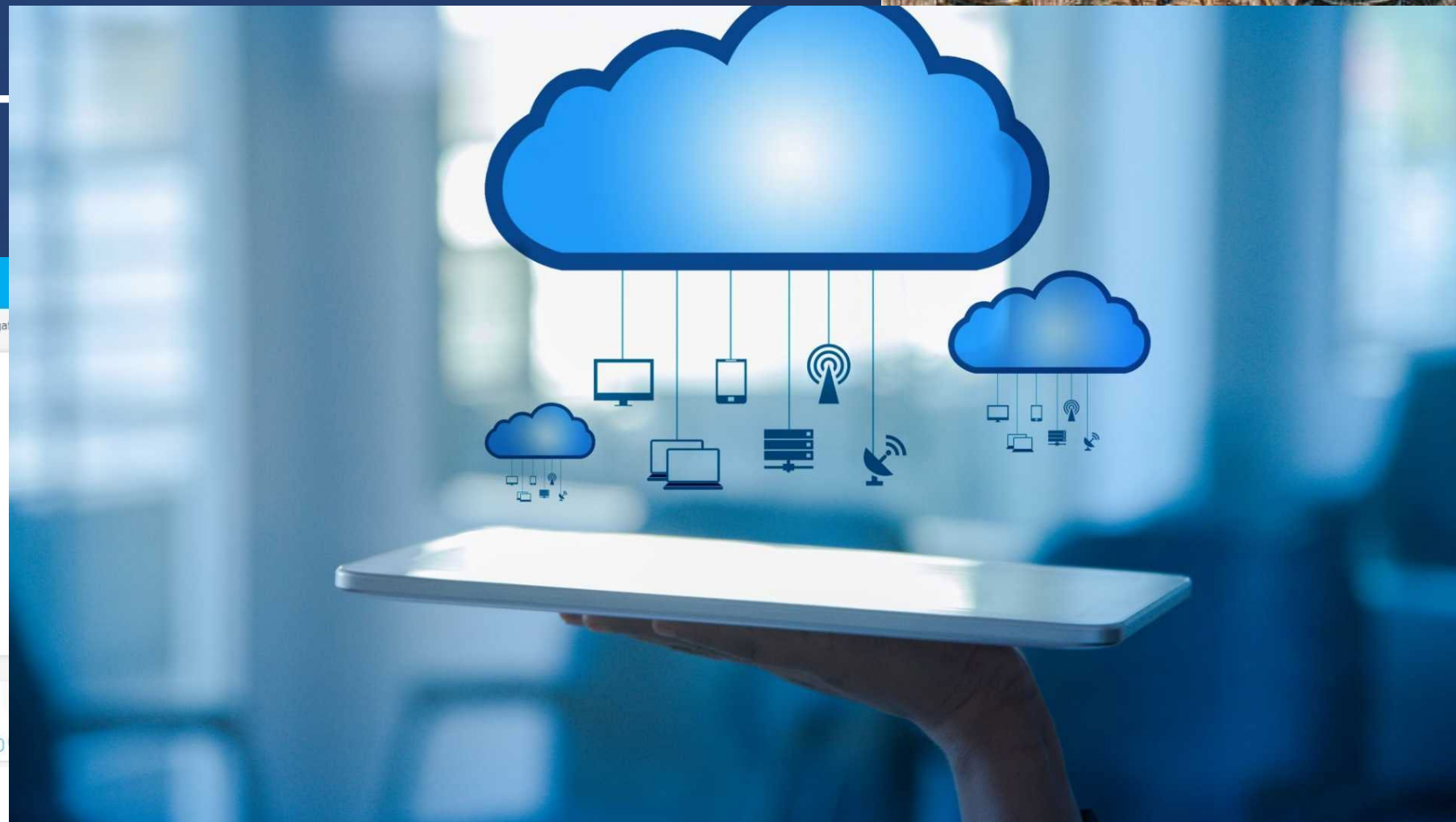
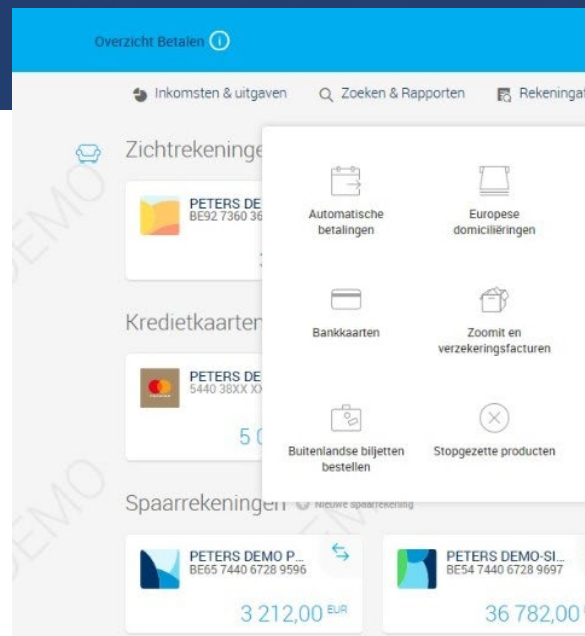


2025++

time

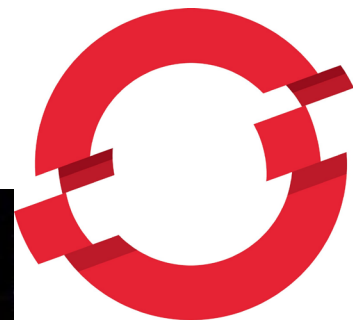


2012 -





# Cloud

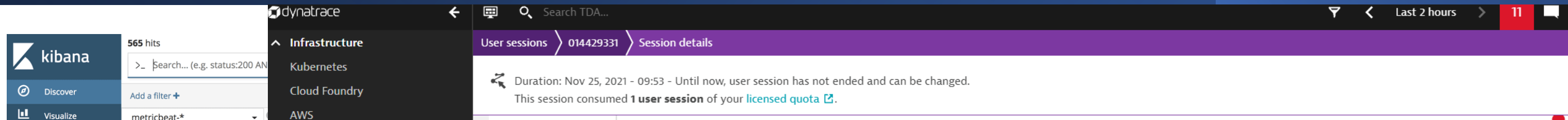


**RED HAT®**  
**OPENSIFT**  
Container Platform





# Monitoring



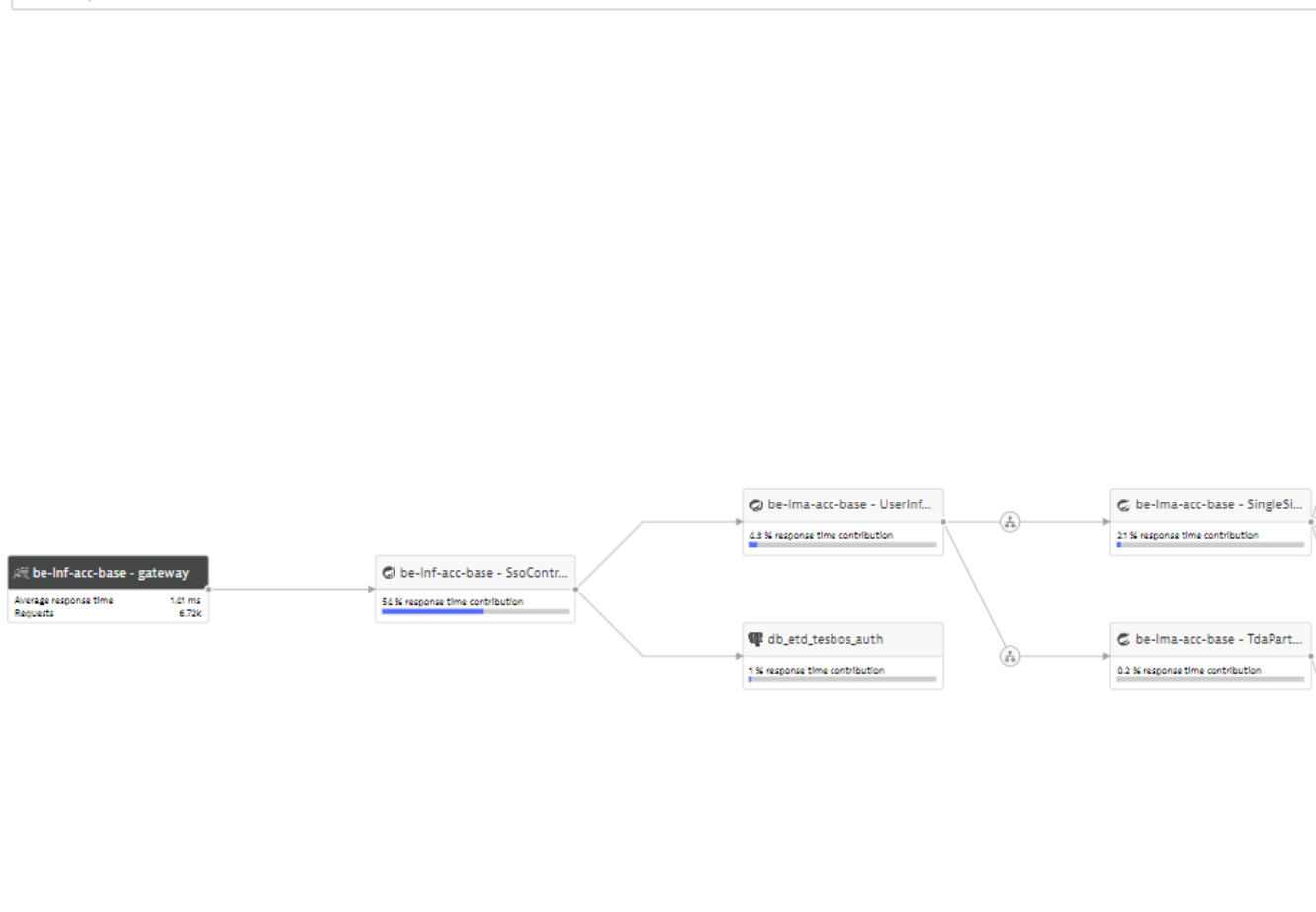
## KBC Mobile named best mobile banking app worldwide by independent international research agency, Sia Partners

KBC Mobile tops world ranking exactly 10 years after being launched.

Thursday, September 23, 2021 — In a comparative study<sup>[1]</sup>, independent international research



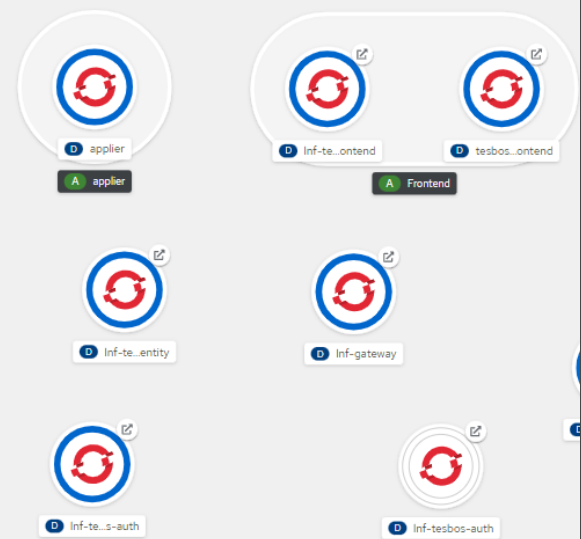
Method	Duration (ms)	CPU (%)	IO (%)	Class	Package	Component	Value
render(FacesContext)	17.53	cpu (55.0%)	io (45.0%)	LifecycleImpl	JSF	CustomerFrontend_...	-
match(Matcher, int, CharSequence)	14.79	cpu (62.0%)	io (38.0%)	Pattern\$Branch	JSF	CustomerFrontend_...	-
getCurrentPromotion()	2.74	cpu	io (80.0%)	AdBean	easyTravel, ...	CustomerFrontend_...	-
execute(boolean)	2.74	cpu	io (80.0%)	OperationClient	Java Web S...	CustomerFrontend_...	-
send(MessageContext ms)	2.74	cpu	io (80.0%)	AxisEngine	Java Web S...	CustomerFrontend...	526.70
executeMethod(Host /services/JourneyS...	2.60	cpu	io (85.0%)	HttpClient	Web Reaque...	CustomerFrontend...	526.75



- Developer
- +Add
- Topology
- Observe
- Search
- Builds
- Helm
- Project
- ConfigMaps
- Secrets

Project: be-Inf-dev-base Application: all applications

Display options Filter by resource Name Find by name...



### be-Inf-acc-base - gateway

Seen recently

Properties and tags: BLUECAP, Environment: ACC, [Environment]LNF: Inf-gateway, [Kubernetes]name: Inf-gateway

0 Applications, 0 Services, 56 /min Throughput, 1 Service, 0 Databases, 4 Apache To...

### Dynamic web requests

Response time: 600 μs

Failure rate: 0 %

CPU: 580 μs/req

Throughput: 56 /min

View dynamic requests

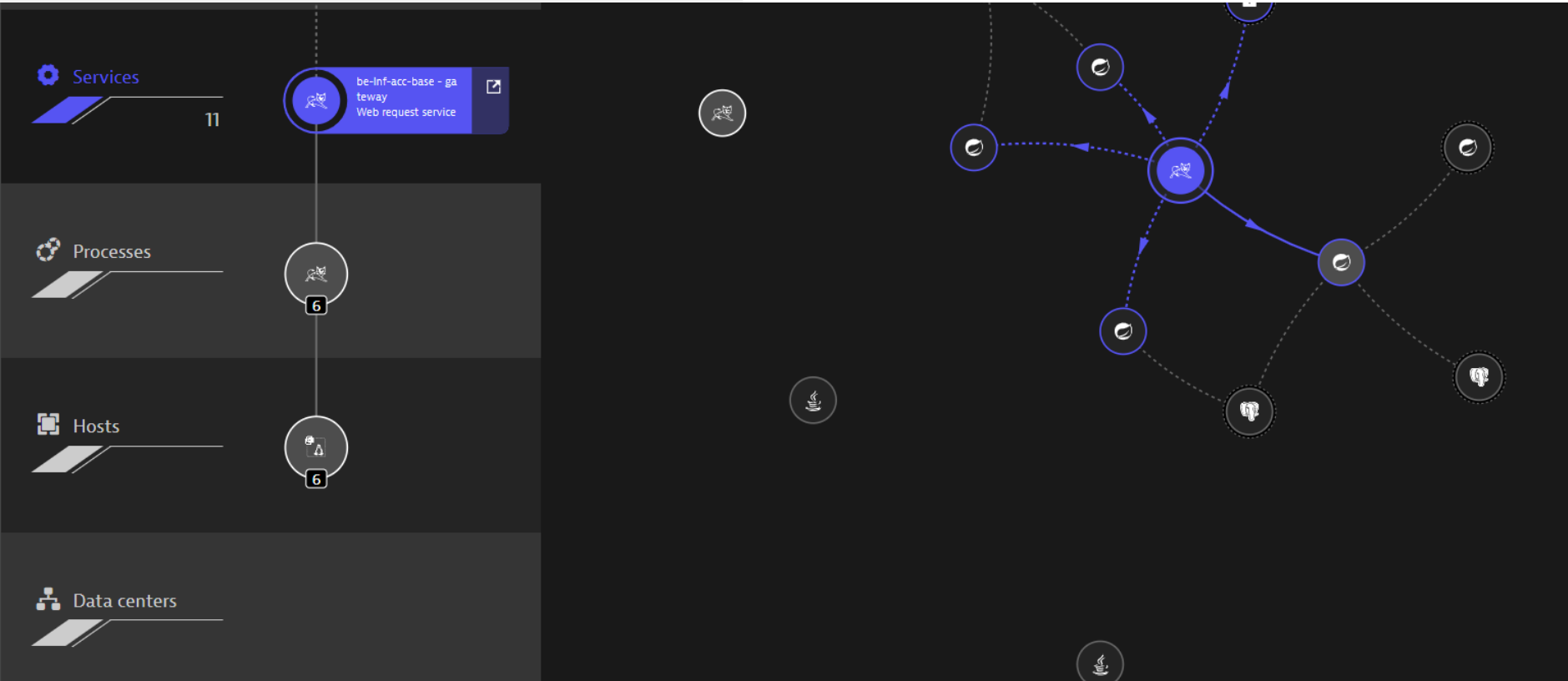
No problems Today, 14:11 - 16:11

No recent hotspots detected Today, 16:01 - 16:11

Multidimensional analysis views [Create analysis view](#)

This section will list your bookmarked multidimensional analysis views for this service. Click 'Create analysis view' to start.

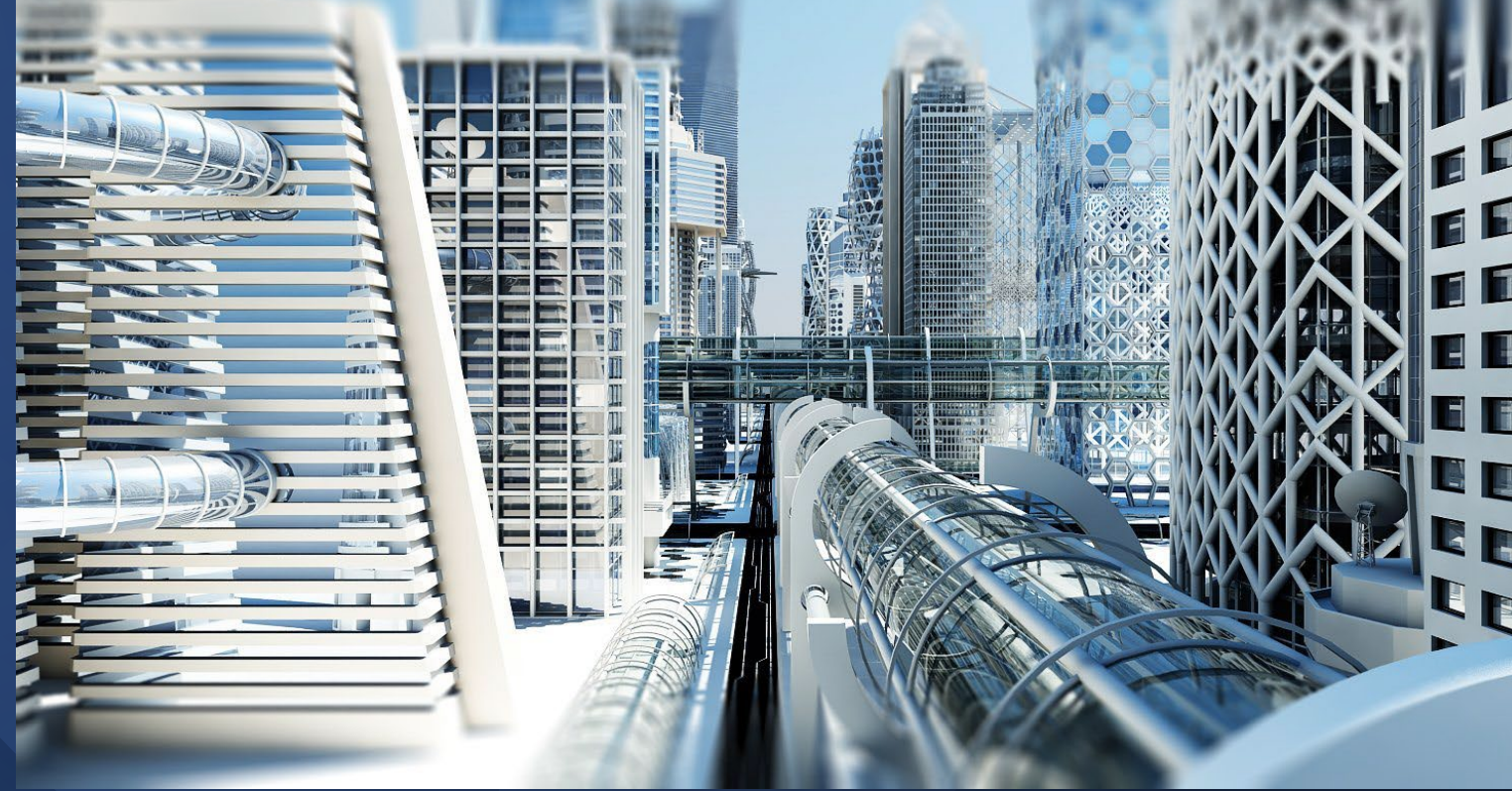
- ### Understand dependencies
- Today, 14:11 - 16:11
- Understand sequence and response times of service calls of each request. [View service flow](#)
  - Understand which user actions and related services depend on this service. [View backtrace](#)
  - See requests in trace overview. [View distributed traces](#)



# Monitoring in 2021



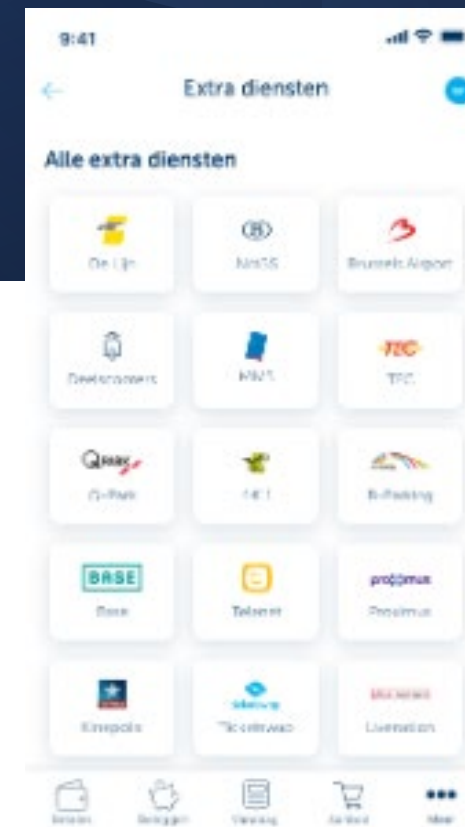




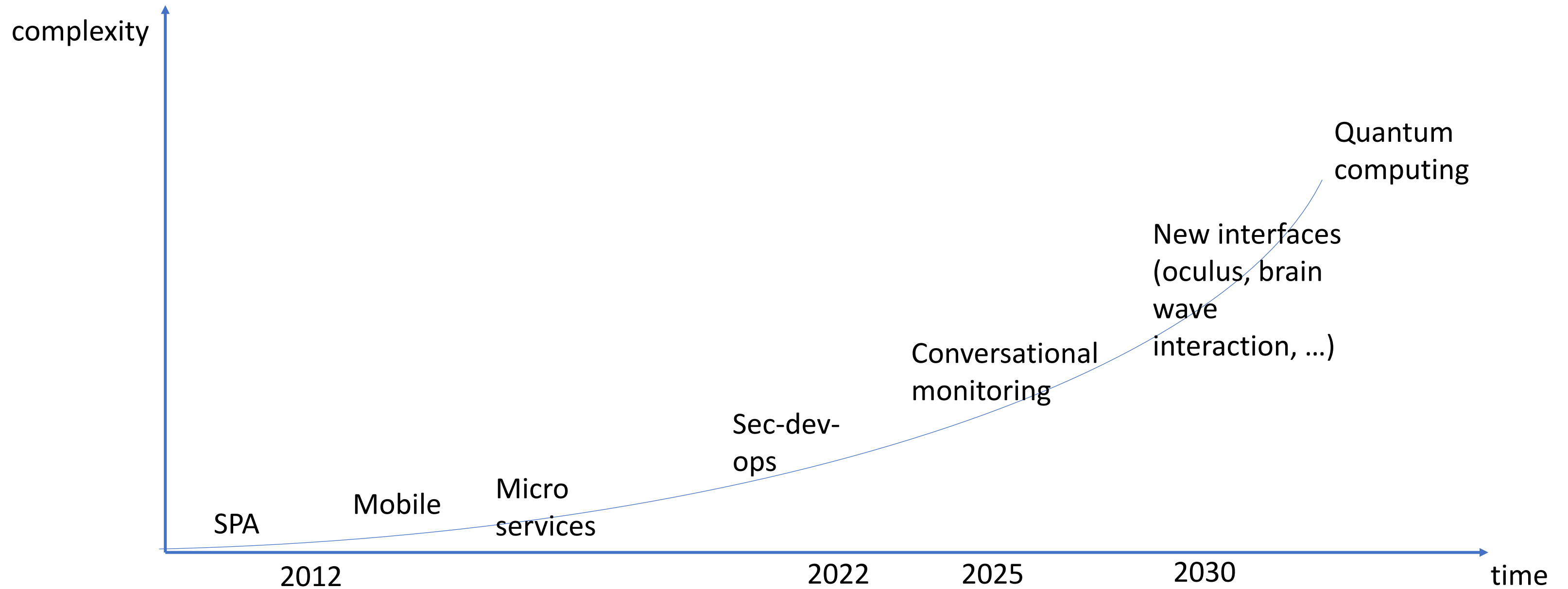
# 2025: The far future



# Kate



# Future



Q and A



**THE  
END**

and

**Thanks for  
listening!**



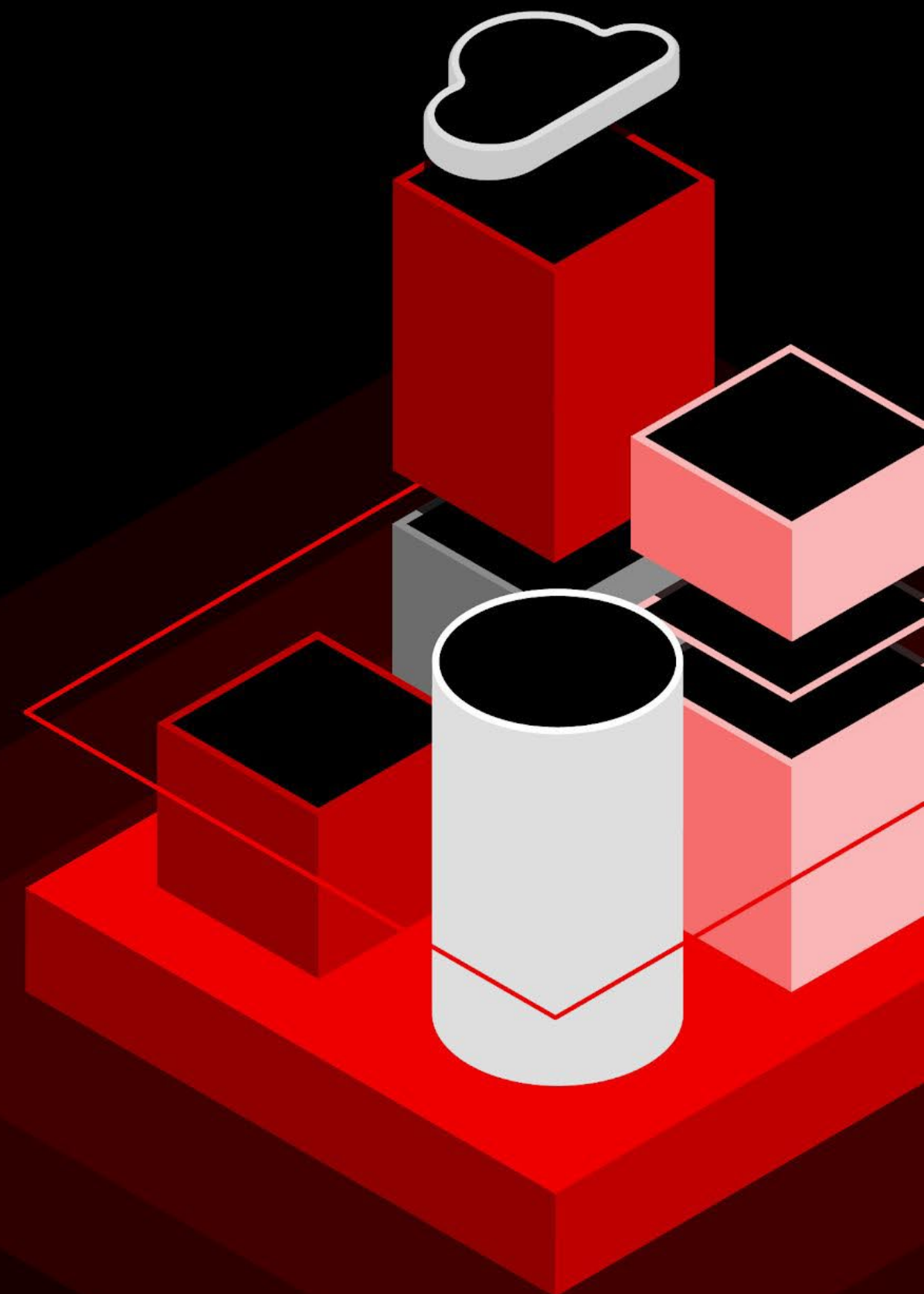


# Faciliter les pratiques DevSecOps avec conteneurs

17 novembre 2022



Sebastien Wains  
Architecte Solutions  
Red Hat Belgique et Luxembourg



# Agenda

**Quelques slides ~ 10 min**  
**Tour *rapide* du produit ~ 10 min**  
**Questions & réponses ~ 5 min**

Je suis disponible après la session !



# DevOps

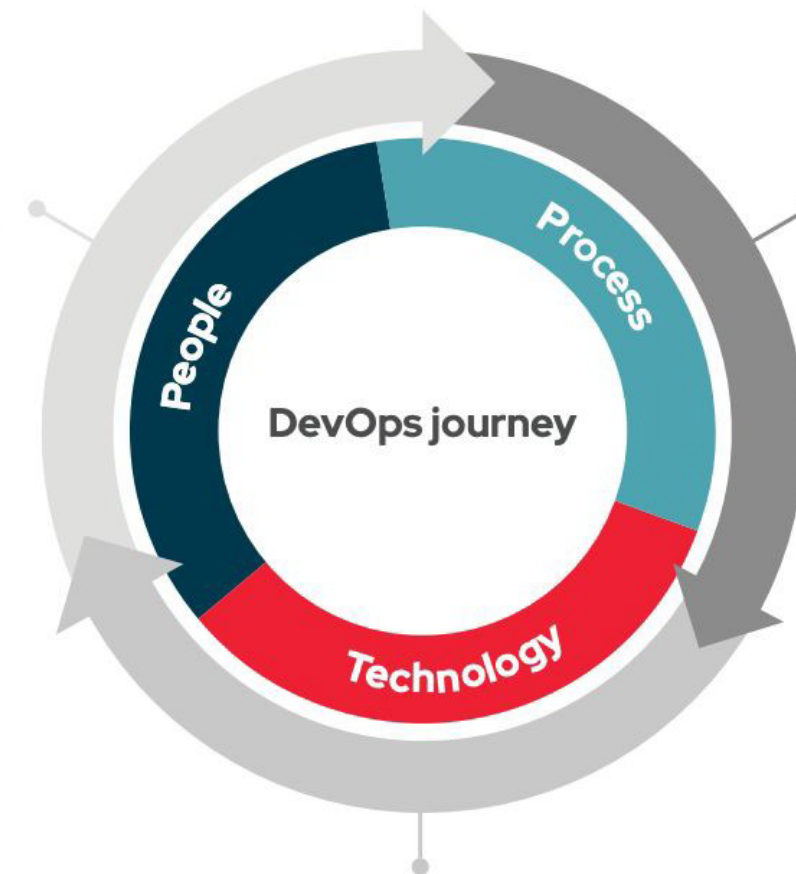
[...]

Le **mouvement** devops est né d'une part de la volonté de **globaliser** les méthodes **agiles** à l'ensemble du système d'information et d'autre part de l'application des principes de l'agilité à la **production**.

[...]

Source: <https://fr.wikipedia.org/wiki/Devops>

Red Hat® Training:  
DevOps Culture and  
Practice Enablement  
**DO500**



Red Hat Training:  
Open Practices for  
your DevOps Journey  
**DO250**

Red Hat DevOps Pipelines and Processes:  
Continuous integration / continuous delivery (CI/CD)  
with Jenkins, Git, and test-driven development (TDD)  
**DO400**

E-BOOK SERIES

# DevOps Culture and Practice with OpenShift

*Deliver continuous business value through people, process, and technology*

Your practical, step-by-step guide to unleash the power of open processes and technology working together.

[Get the e-books here](#)



# DevSecOps?

DevSecOps est la contraction de **développement, sécurité et opérations.**

C'est une approche culturelle, d'automatisation et de plateforme qui intègre la **sécurité** comme une **responsabilité partagée** tout au long du cycle IT.

Source: <https://www.redhat.com/en/topics/devops/what-is-devsecops>

Avril 2018

# Red Hat Advanced Cluster Security for Kubernetes

**Février 2021 : acquisition de StackRox par Red Hat**

<https://www.redhat.com/en/blog/red-hat-closes-acquisition-stackrox>

**Mai 2021 : sortie de Red Hat Advanced Cluster Security for Kubernetes**

<https://cloud.redhat.com/blog/a-brief-introduction-to-red-hat-advanced-cluster-security-for-kubernetes>

**Mai 2022 : StackRox est Open Source**

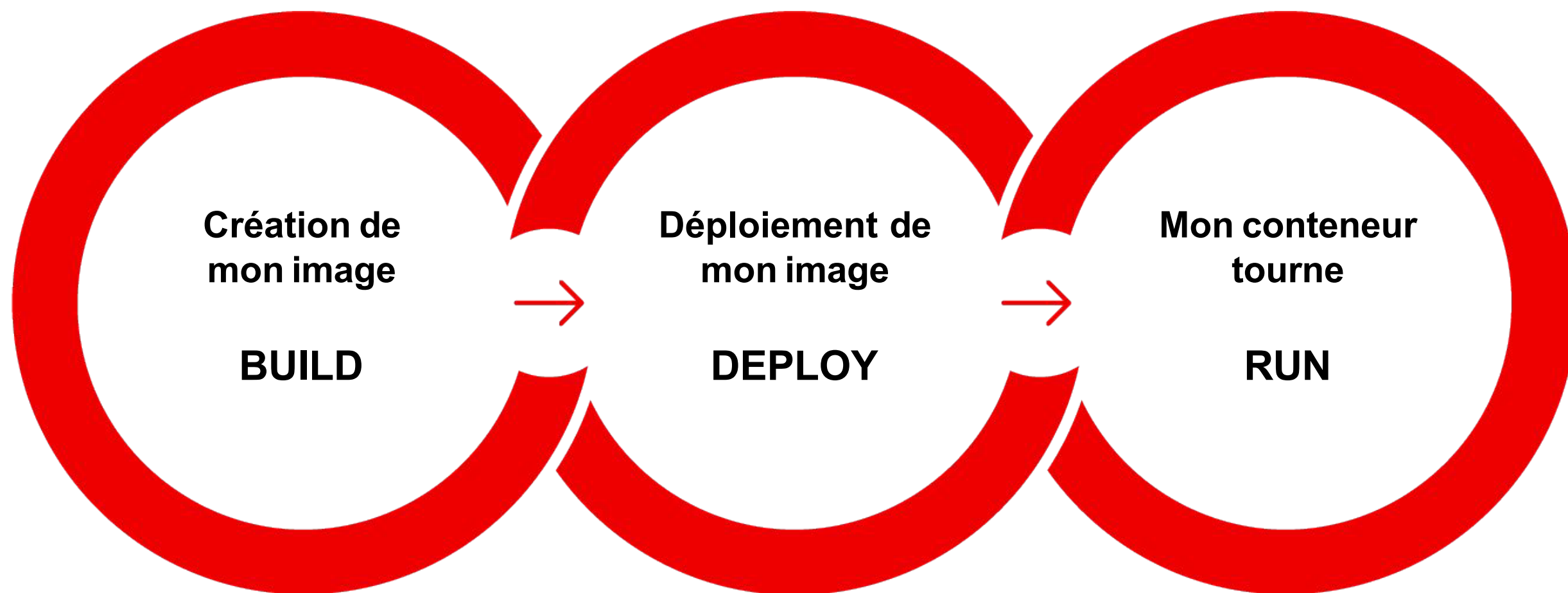
<https://www.stackrox.io/blog/open-source-stackrox-is-now-available/>





# Implémenter **DevSecOps** avec l'aide de **Red Hat Advanced Cluster Security for Kubernetes**

Analyse chaque étape de la vie de vos applications, en temps réel.



**Build** > Deploy > Run

## Mes images sont elles sûres et à jour ?

De vieilles images de bases qui contiennent des failles ?

Le gestionnaire de paquet laissé dans l'image ?

Une librairie Java vulnérable qui permet une injection SQL ?



Build > **Deploy** > Run

# Mes déploiements respectent-ils les standards de mon entreprise et les bonnes pratiques ?

Un conteneur nécessite des droits élevés ?  
Forcer une annotation à votre déploiement ?  
Quelqu'un tente de déployer une vieille image plus maintenue ?

Build > Deploy > Run

# Mes applications et mon infrastructure sont-elles exploitées ?

Contrôle à distance du pod via reverse shell ?  
Un processus dans votre pod mine de la cryptomonnaie ?  
Un pod scanne votre réseau interne ?

# Une règle dans ACS, deux possibilités :



**Notification  
"Inform"**

**BUILD, DEPLOY, RUN**

On notifie sans intervention



**Notification + Intervention  
"Inform and enforce"**

**BUILD**

on stoppe la pipeline

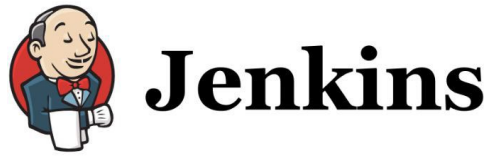
**DEPLOY**

on bloque le scheduling du/des pod(s)

**RUN**

on tue le pod

# Intégration avec vos outils existants



docker hub



Microsoft Teams



sumo logic



et plus...



# Support



Red Hat OpenShift Service on AWS



Azure Red Hat OpenShift



Intéressés ? Vous voulez essayer ?

# Red Hat Advanced Cluster Security for Kubernetes



# Démonstration

# Thank you

Red Hat is the world's leading provider of enterprise open source software solutions. Award-winning support, training, and consulting services make Red Hat a trusted adviser to the Fortune 500.



[linkedin.com/company/red-hat](https://www.linkedin.com/company/red-hat)



[youtube.com/user/RedHatVideos](https://www.youtube.com/user/RedHatVideos)



[facebook.com/redhatinc](https://www.facebook.com/redhatinc)



[twitter.com/RedHat](https://twitter.com/RedHat)

# Transform Faster, Smarter & Easier

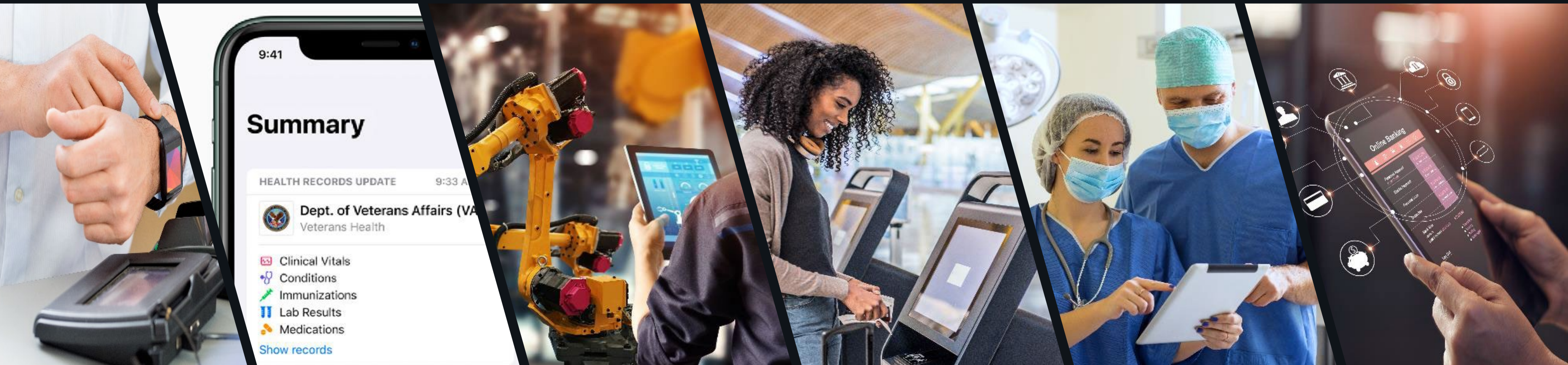
---

Dynatrace 2022





# Every business is undergoing a digital transformation



RETAIL

GOVERNMENT

MANUFACTURING

TRAVEL

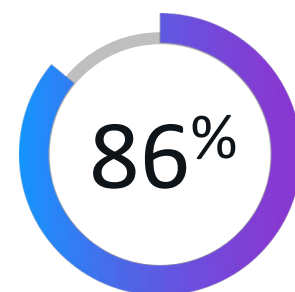
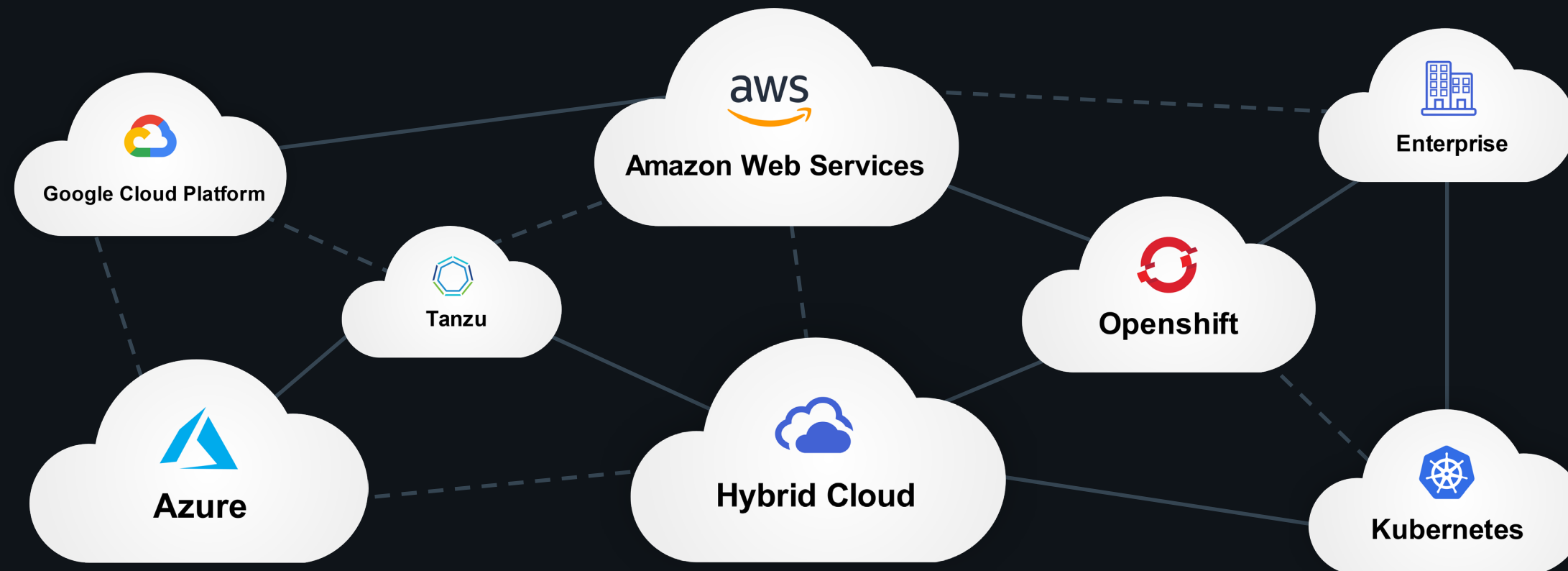
HEALTHCARE

FINANCE

Every industry and government around the world is impacted



# Dynamic Multiclouds are the platform of choice



**86%** of organizations are using cloud-native technologies and platforms such as Kubernetes, microservices and containers



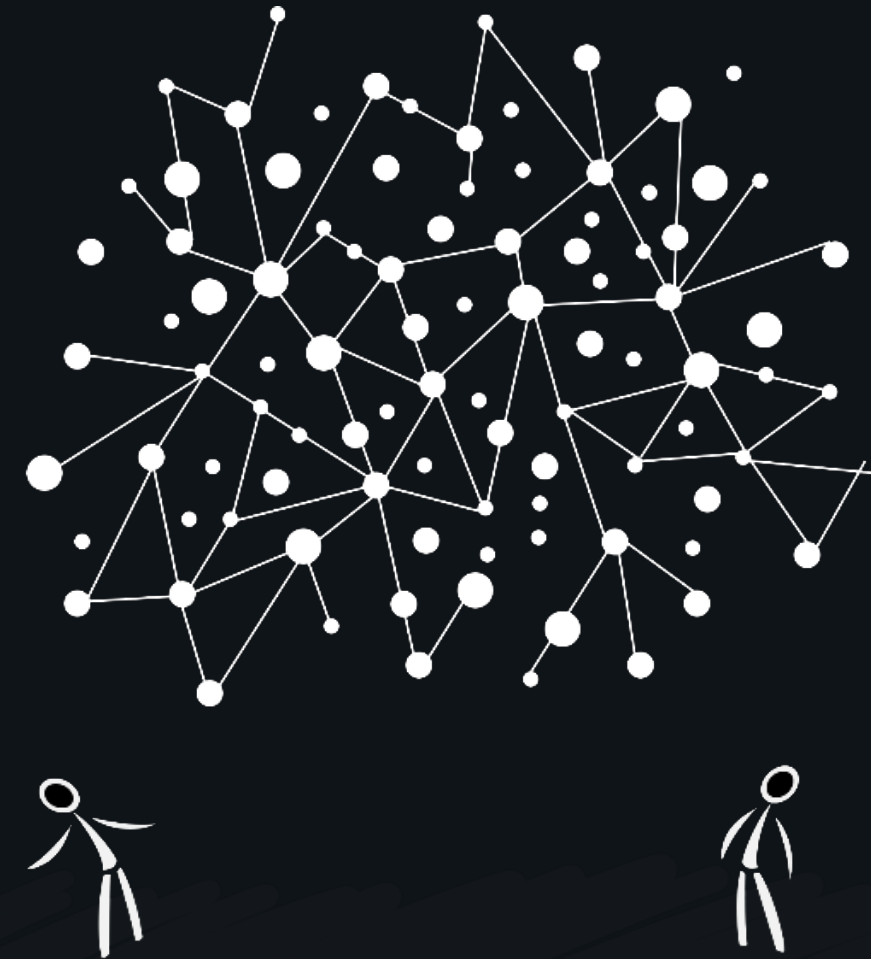


# Why the cloud complexity challenge is getting worse

1

**Everything is dynamic and containerized**

creating complexity and scale far beyond that found in old datacenter world





# Why the cloud complexity challenge is getting worse

1

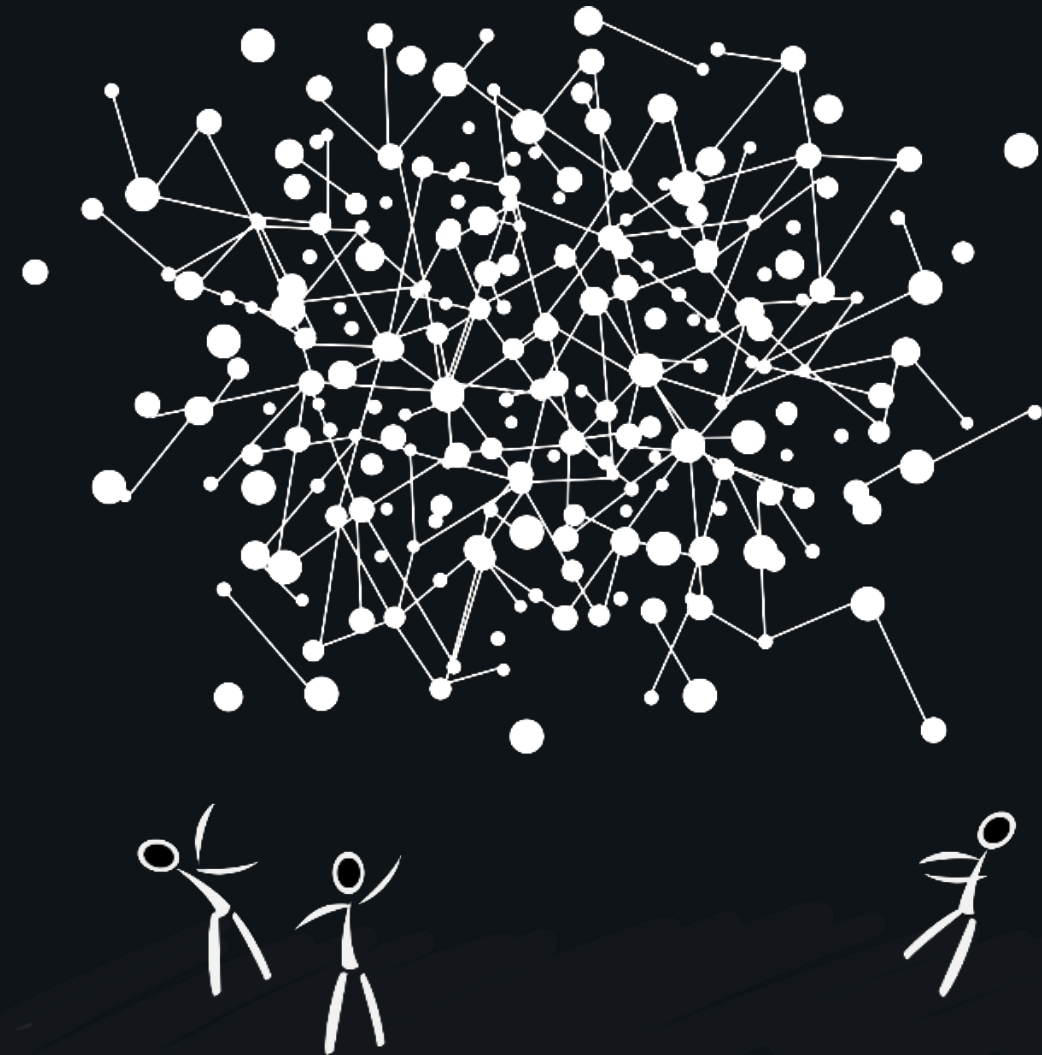
## Everything is dynamic and containerized

creating complexity and scale far beyond that found in old datacenter world

2

## Increasing volume, variety and velocity of data

has grown beyond what can be managed on dashboards alone





# Why the cloud complexity challenge is getting worse

1

## Everything is dynamic and containerized

creating complexity and scale far beyond that found in old datacenter world

2

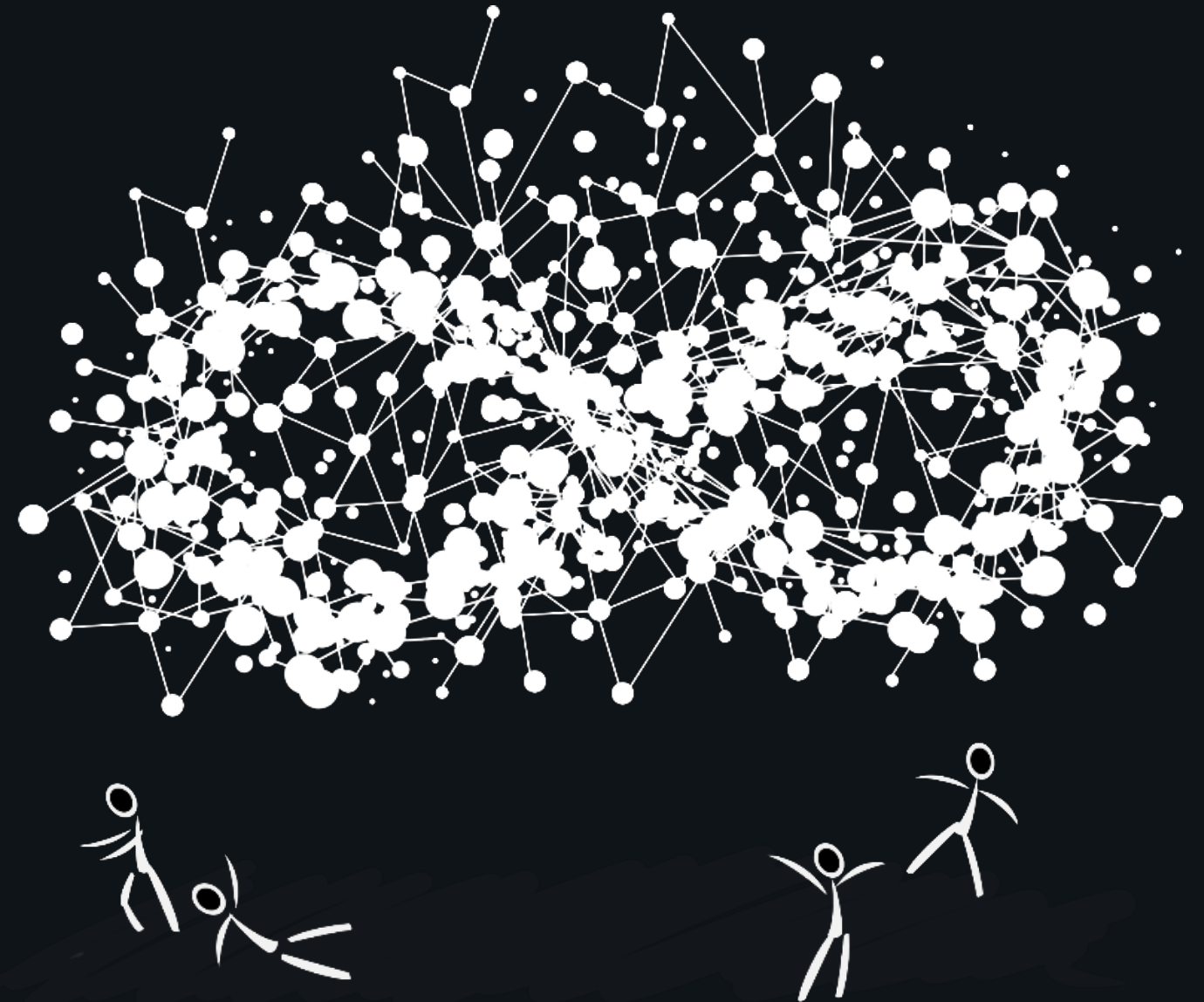
## Increasing volume, variety and velocity of data

has grown beyond what can be managed on dashboards alone

3

## Accelerating frequency of change

strains old approaches to monitoring, release & change management, security, and more





# Why the cloud complexity challenge is getting worse

1

## Everything is dynamic and containerized

creating complexity and scale far beyond that found in old datacenter world

2

## Increasing volume, variety and velocity of data

has grown beyond what can be managed on dashboards alone

3

## Accelerating frequency of change

strains old approaches to monitoring, release & change management, security, and more

4

## Apps are more important than ever

and as every business becomes digital, the business and its customers depend on the full software stack to work flawlessly







# Why the cloud complexity challenge is getting worse

1

## Everything is dynamic and containerized

creating complexity and scale far beyond that found in old datacenter world

2

## Increasing volume, variety and velocity of data

has grown beyond what can be managed on dashboards alone

3

## Accelerating frequency of change

strains old approaches to monitoring, release & change management, security, and more

4

## Apps are more important than ever

and as every business becomes digital, the business and its customers depend on the full software stack to work

5

## Resources remain limited

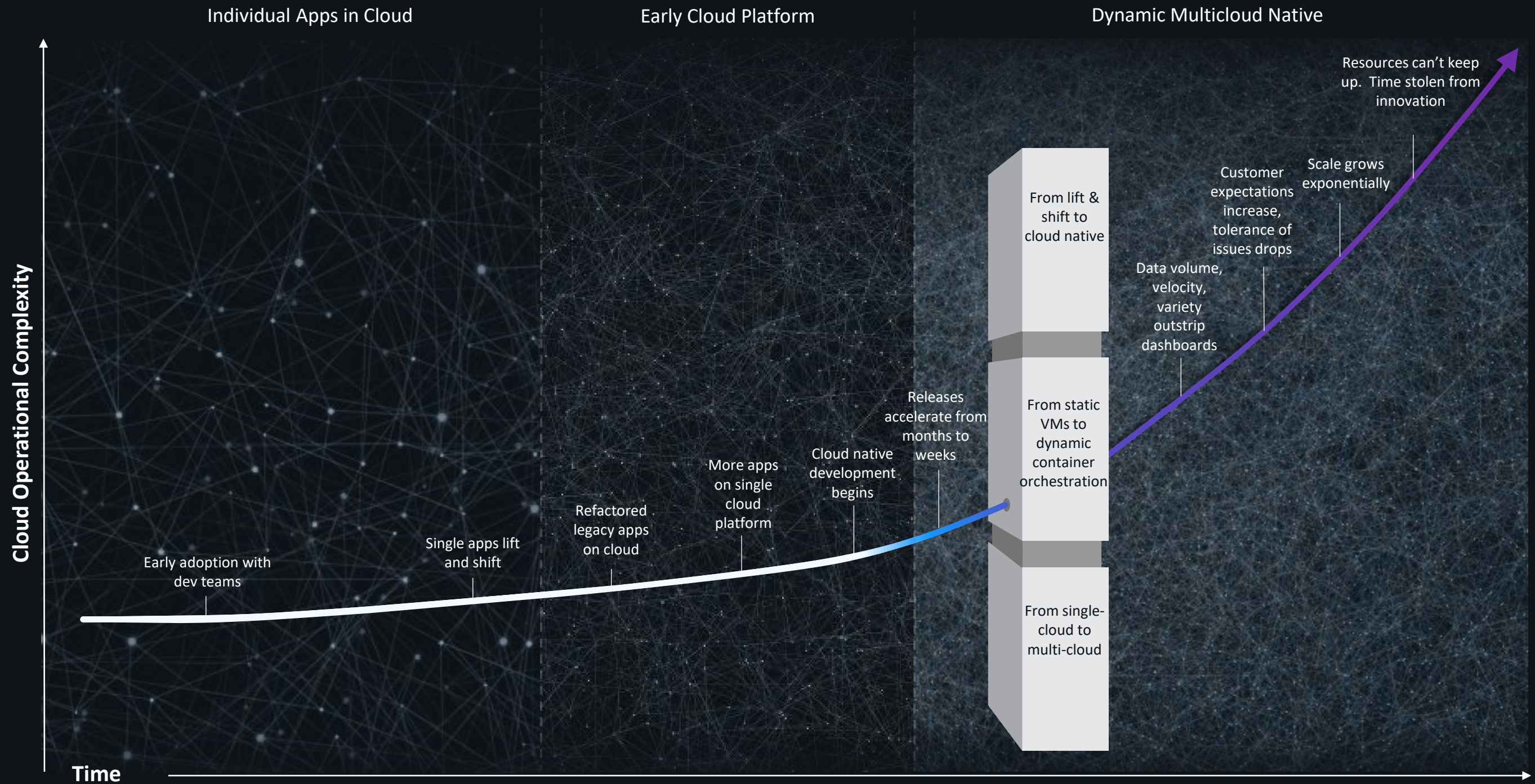
while increasing complexity and troubleshooting are stealing more time from innovation







# The Modern Cloud Complexity Wall







# Approaches to the modern complexity cloud wall



## Keep Status Quo

Hope that the next generation of technology can keep up with the rapid pace of change and accelerating complexity of modern multi-cloud environments.



## Do-It-Yourself

Use best developers to leverage open-source tooling to build your own webscale observability platform. What seems easy at first becomes very complicated and time consuming.



## Leverage A Platform

Find a platform designed for the scale, complexity and pace of change of modern multi-cloud environments that is open and extensible to support your unique digital transformation needs.




# Do-It-Yourself Multi-tool Approach



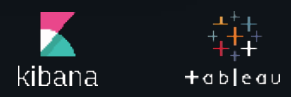

**1. Gather all the data**  
Requires scripting, configuring, and often special tooling





**2. Pour data into Big Data repository**  
No context, just data, and volume, velocity and variety of data accelerates

**3. Organize the data**  
Continually figure out relationships, baselines, problem patterns

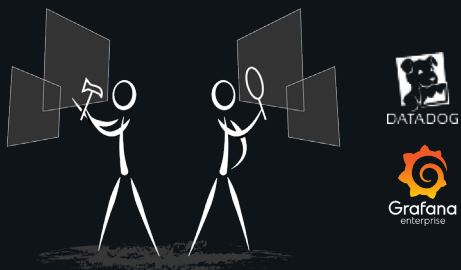



**4. Suppress the noise**  
Continually adjust baselines, filter alerts, try a correlation engine?




**6. Scale the system**  
More apps, new dynamics, new technologies, massive data flow, new relationships, new baselines, etc.

**5. Build dashboards, add reporting engine**  
Reports for dev, ops, business – by role, app team, etc.



Requires best talent. Steals time from innovation. Non-scalable over time.

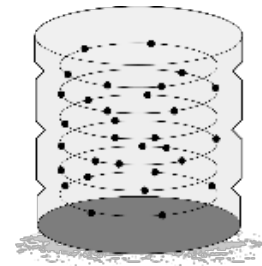


# Automated and intelligent platform approach



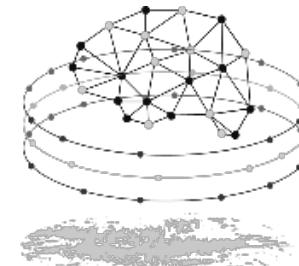
## 1. Gather all the data automatically

Requires no scripting, no configuring, and no special tooling, all automatic and continuous



## 2. Built-in Big Data repository, plus continuous analytics for context

Supports massive volume, velocity and variety of data with no billing surprises.



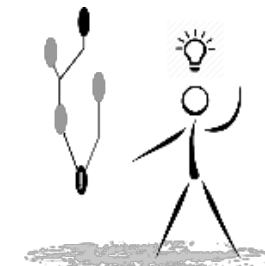
## 3. Data automatically organized for you

Your environment is discovered and mapped automatically and continuously as it changes.



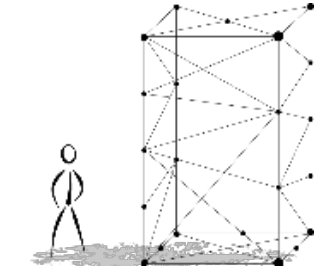
## 5. OOTB dashboards & reporting engine

The dashboards your teams need are ready right out of the box



## 4. Noise suppressed automatically

Only issues impacting service trigger alerts with precise root-cause always explained.



## 6. Webscale by design

Effortlessly support more apps, new dynamics, new technologies, massive data flow, new relationships, new baselines, etc.

**Very low effort. Best-in-class observability. Immediate time to value. Massively scalable.**

**Return focus to speeding innovation and driving better business outcomes.**





# Transform faster, smarter & easier

Costly, do-it-yourself approach

Automatic, all-in-one approach



Simplicity

Speed

Efficiency

Extensibility



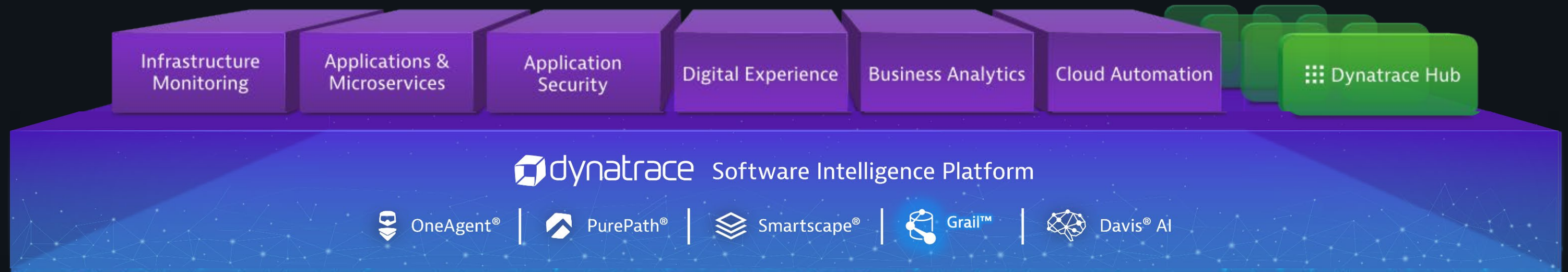
# The Dynatrace Software Intelligence Platform



**Built specifically for dynamic multiclouds and the cloud-native applications that run on them**



# Starts with best-in-class observability

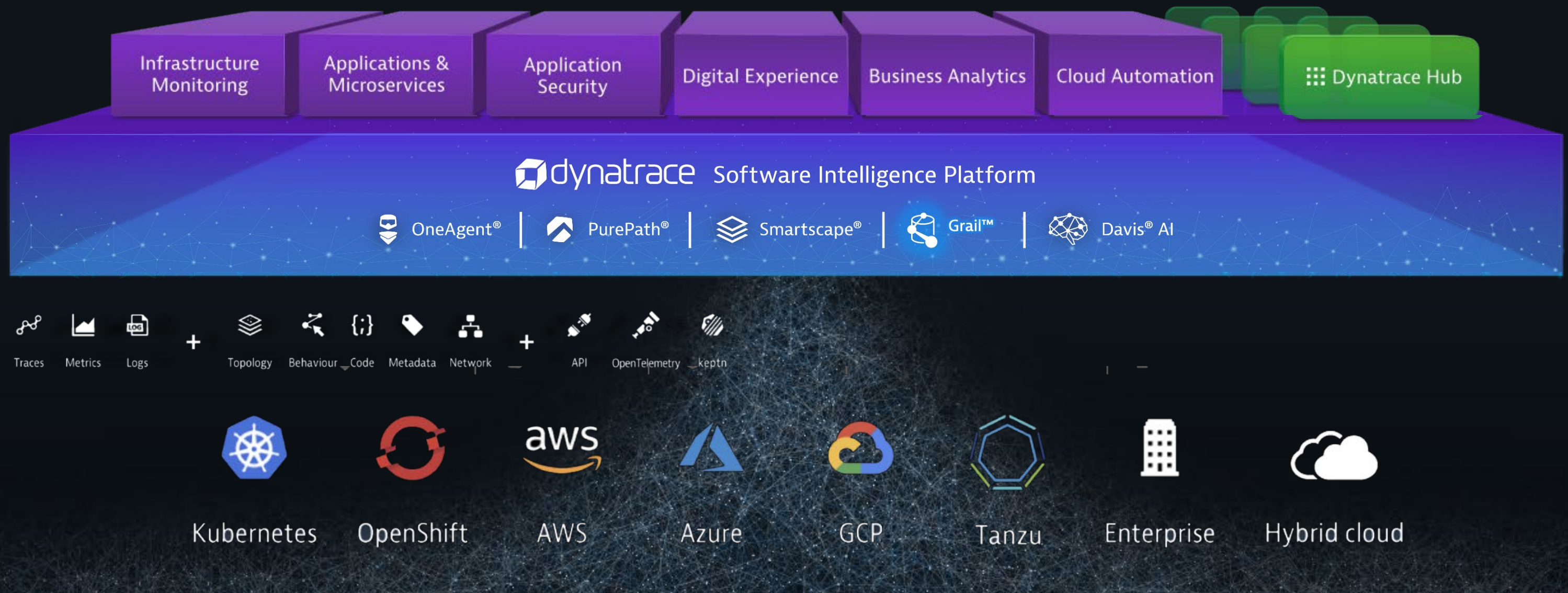


**Automatically discovers and gathers traces, metrics, logs and a whole lot more**





# Works automatically across any multicloud environment



**Supports all major IaaS, PaaS and hybrid-cloud environments**





Provides the widest and deepest visibility across the entire multcloud landscape



600+

INTEGRATIONS

**dynatrace** Software Intelligence Platform

OneAgent® | PurePath® | Smartscape® | Grail™ | Davis® AI

- Traces
- Metrics
- Logs
- +
- Topology
- Behaviour
- Code
- Metadata
- Network
- +
- API
- OpenTelemetry
- keptn
- Kubernetes
- OpenShift
- AWS
- Azure
- GCP
- Tanzu
- Enterprise
- Hybrid cloud

Automatic and intelligent observability

Broadest multcloud and technology support

Open platform, broadest out-of-the-box support, and easy extensibility



# With automation and intelligence to continuously turn data into answers

## Automatic Data Capture

OneAgent provides automatic, full-stack data capture for dynamic cloud environments

## Automatic Distributed Tracing

PurePath provides distributed tracing with code-level detail at scale with context

## Continuous Dependency Mapping

Smartscape automatically maps dependencies for real-time, precise context

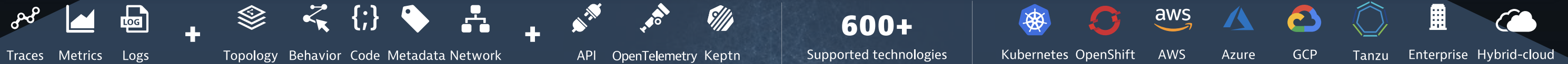
## Explainable AI Engine

Davis delivers automatic answers, insights & actions continuously



**dynatrace** Software Intelligence Platform

OneAgent® | PurePath® | Smartscape® | Grail™ | Davis® AI



Automatic and intelligent observability

Broadest multicloud and technology support

## Unified AIOps capabilities deliver unparalleled speed, efficiency and simplicity





# Unparalleled value across stakeholders



## Innovate faster with higher quality

**4x** greater innovation throughput - AGII

**42k** more hours/year for innovation - TIAA

**0** major errors in post-production code - Rack Room Shoes

## Operate more efficiently

**60%** greater operational efficiency - SAP

**99%** fewer support tickets - Kroger

**80%** faster issue resolution - Porsche Informatik

## Drive better business outcomes consistently

**20%** higher cart value - Mitchells & Butlers

**65%** lower customer churn - Vitality

**32%** increase in conversions - BT



# Who is Dynatrace

Trusted by >3,000 leading enterprises



Recognized Market Leader



Global team of >3,000 & winning culture



Publicly traded





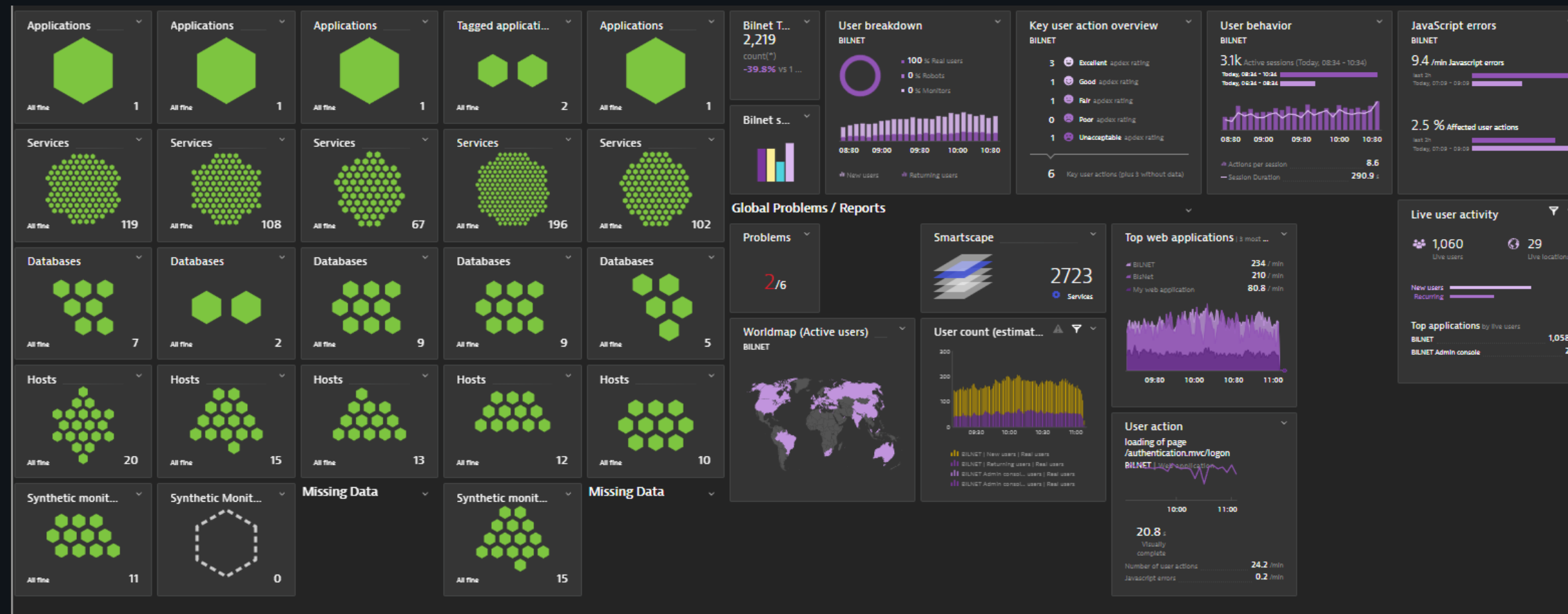
# BeLux Customers





# Why BIL chose Dynatrace ?

- **Easy to deploy**
  - One single agent per machine to monitor all technology stacks
  - Less than 5 minutes installation per agent
  - Auto-discovery. Once deployed, agent detects all running processes without intervention
  - Usage of active gate component reduces the firewall constraints
- **Environment visibility**
  - 100% of transactions are measured and scored
  - Very deep performance analyze, up to java class or database statement
  - Many metrics are given on front-end applications' usage
  - Efficient problem detection and root cause analysis
- **Cost evolution**
  - License usage is predictable (based on server memory)
- **Dashboard**
  - Easy to create dashboard that can be displayed on monitoring screen





# Next steps with Dynatrace



SEEING IS BELIEVING

**Go deeper  
with our team**

Architects & tech leaders



TEST DRIVE

**Prove it in your  
environment**

A few minutes to setup, a few hours  
to experience the radical difference



START WORKING TOGETHER

**Gain Value**

Our customer success  
model delivers rapid value



SCALE

**Transform faster,  
easier, smarter**

With proven metrics and  
continuous value





---

transform faster, smarter, easier



# Prochaines étapes

- Infrastructure roadmap
- Application modernization roadmap
- Dynatrace trial

# Contactez-nous par:

- [info@inetum-realdolmen.world](mailto:info@inetum-realdolmen.world)
- Votre contact chez Inetum-Realdolmen
- Formulaire d'évaluation





**Nous vous  
remercions!**

