Red Hat Summit

Connect

Platforms & Culture
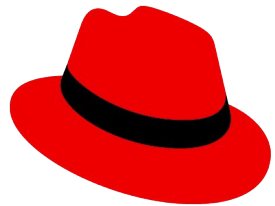
How do these two go along

Manfred Muth

Senior Solution Architect

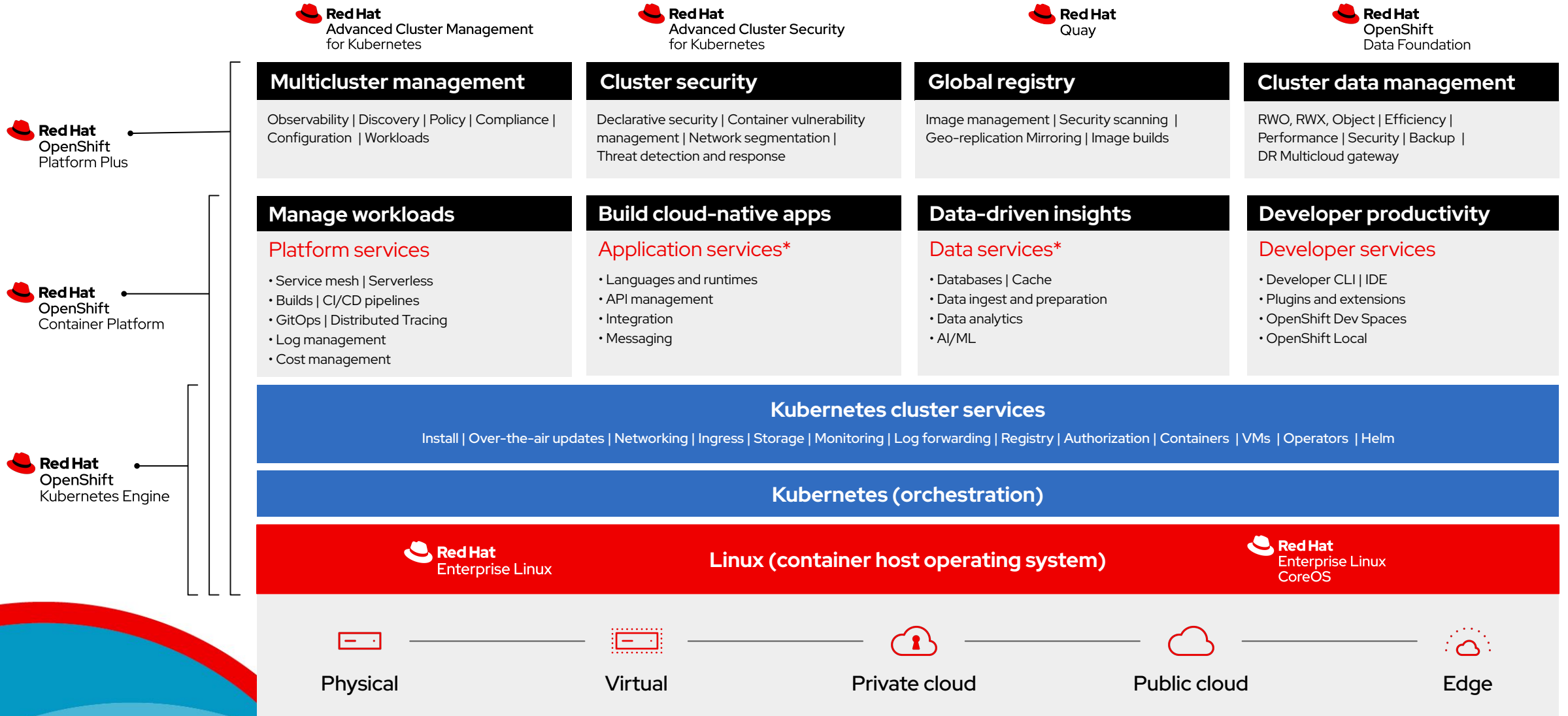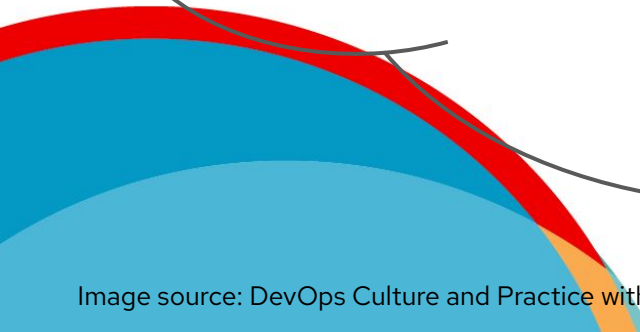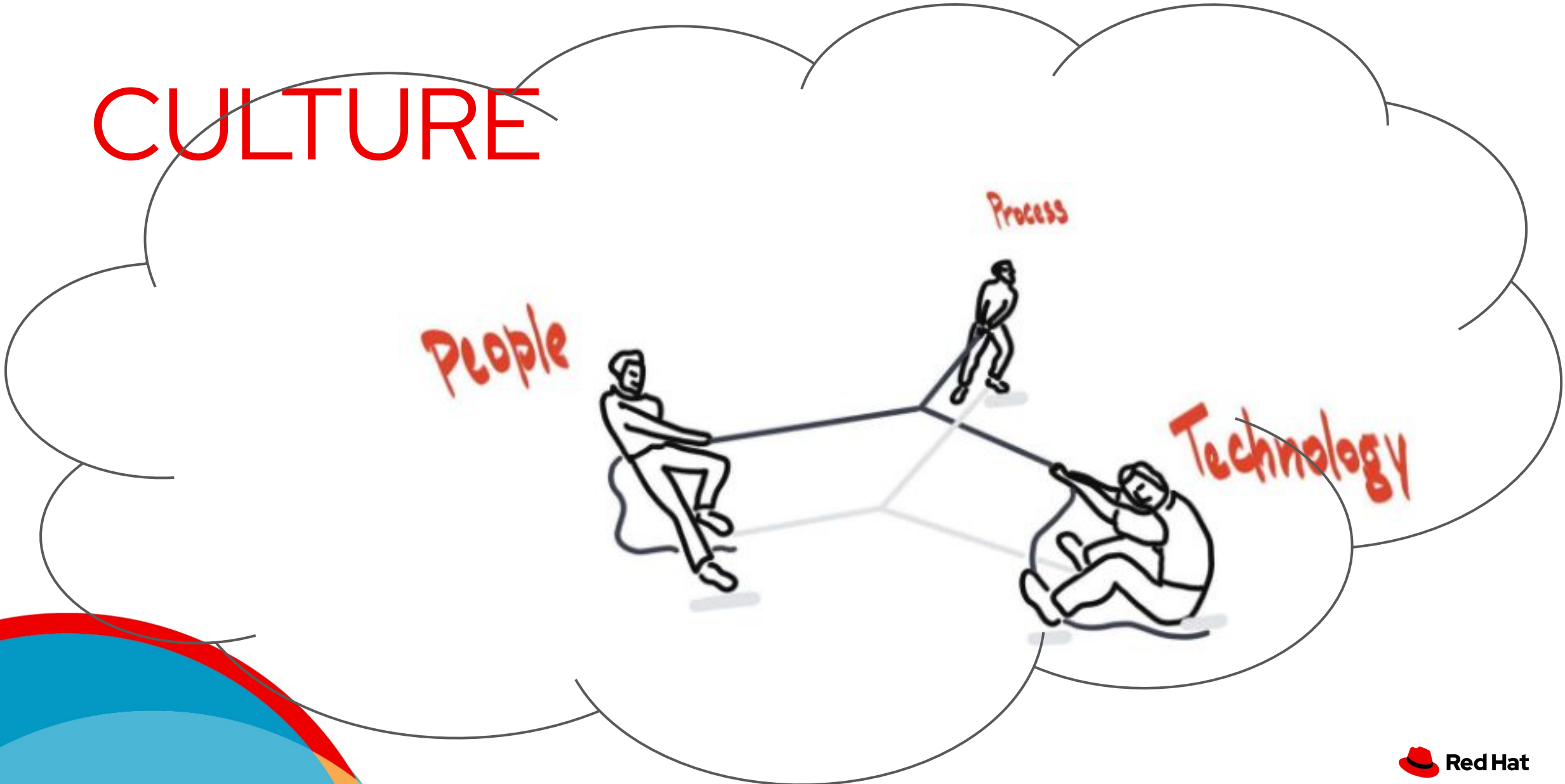mmuth@redhat.com

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Who do you see here

- Unix and Sybase Admin for Internet Service Providers
- C Programming for Telco providers
- Unix Consultant for Storage and HA cluster solutions
- Platform and Storage Manager in the banking industry
- Lead for Transition and Migration Projects
- Solution Architect in the Automotive Industry

Red Hat
Advanced Cluster Management
for Kubernetes

Red Hat
Advanced Cluster Security
for Kubernetes

Red Hat
Quay

Red Hat
OpenShift
Data Foundation

Red Hat
OpenShift
Platform Plus

Multicluster management

Observability | Discovery | Policy | Compliance | Configuration | Workloads

Cluster security

Declarative security | Container vulnerability management | Network segmentation | Threat detection and response

Global registry

Image management | Security scanning | Geo-replication Mirroring | Image builds

Cluster data management

RWO, RWX, Object | Efficiency | Performance | Security | Backup | DR Multicloud gateway

Red Hat
OpenShift
Container Platform

Manage workloads

Platform services

• Service mesh | Serverless
• Builds | CI/CD pipelines
• GitOps | Distributed Tracing
• Log management
• Cost management

Build cloud-native apps

Application services*

• Languages and runtimes
• API management
• Integration
• Messaging

Data-driven insights

Data services*

• Databases | Cache
• Data ingest and preparation
• Data analytics
• AI/ML

Developer productivity

Developer services

• Developer CLI | IDE
• Plugins and extensions
• OpenShift Dev Spaces
• OpenShift Local

Red Hat
OpenShift
Kubernetes Engine

Kubernetes cluster services

Install | Over-the-air updates | Networking | Ingress | Storage | Monitoring | Log forwarding | Registry | Authorization | Containers | VMs | Operators | Helm

Kubernetes (orchestration)

Red Hat
Enterprise Linux

Linux (container host operating system)

Red Hat
Enterprise Linux
CoreOS

Physical   Virtual   Private cloud   Public cloud   Edge

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# CULTURE

Platform as a Service

What is it?

PaaS is the level of abstraction that allows developers to focus on writing, running, and managing applications without worrying about the underlying infrastructure.
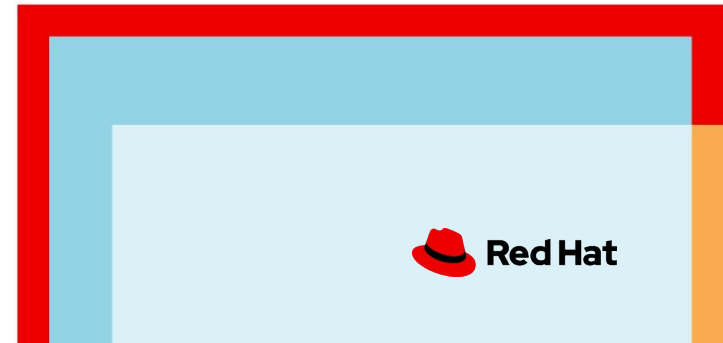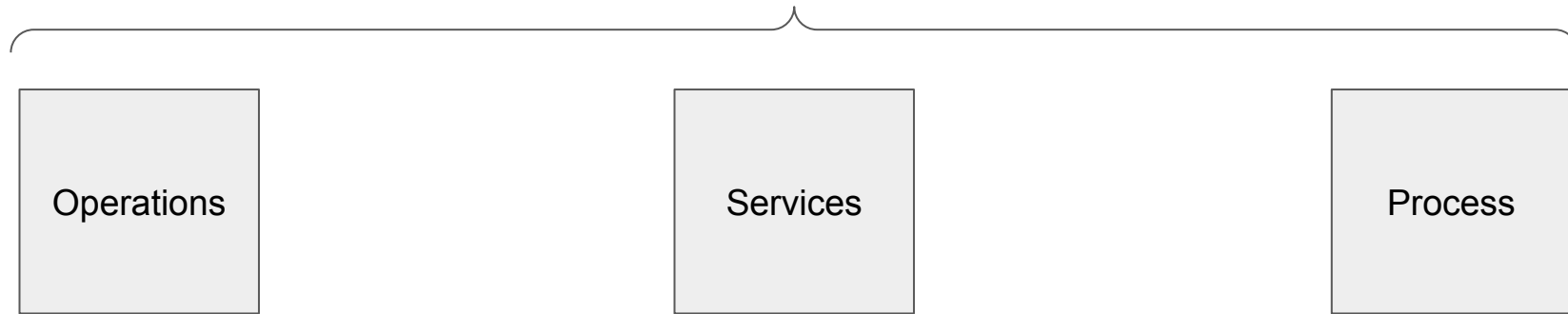
What to be expected?

- Do not worry about the underlying infrastructure
- Enable my developers to deliver applications fast
- Help me to maintain quicker software lifecycles than even 3-4 years back in history
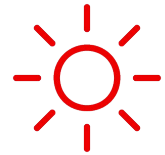
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PaaS

The Mantra – be easy to consume

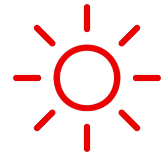| Operations	Services	Process

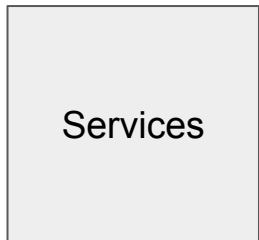**Red Hat**
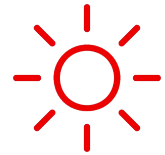
PaaS

The Mantra – be easy to consume

Operations

- Decisions to be made – Self managed or managed offering
- Questions to answer – Why do deployment times often exceed those of hyperscalers ?
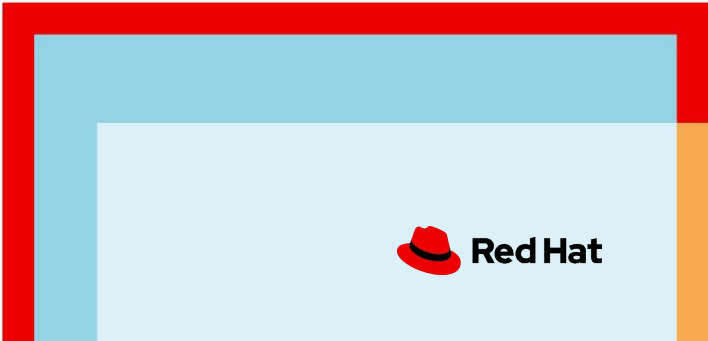
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PaaS

The Mantra - be easy to consume

Services
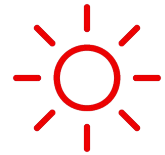
- Decisions to be made – Create a software marketplace
- Questions to answer – Why are external service offerings preferred over your enterprise offerings ?

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PaaS

The Mantra – be easy to consume

Processes

- Decisions to be made – Did we ever skip processes yet ?
- Questions to answer – Why do our customers love to skip/ignore/work around existing processes ?

CULTURE
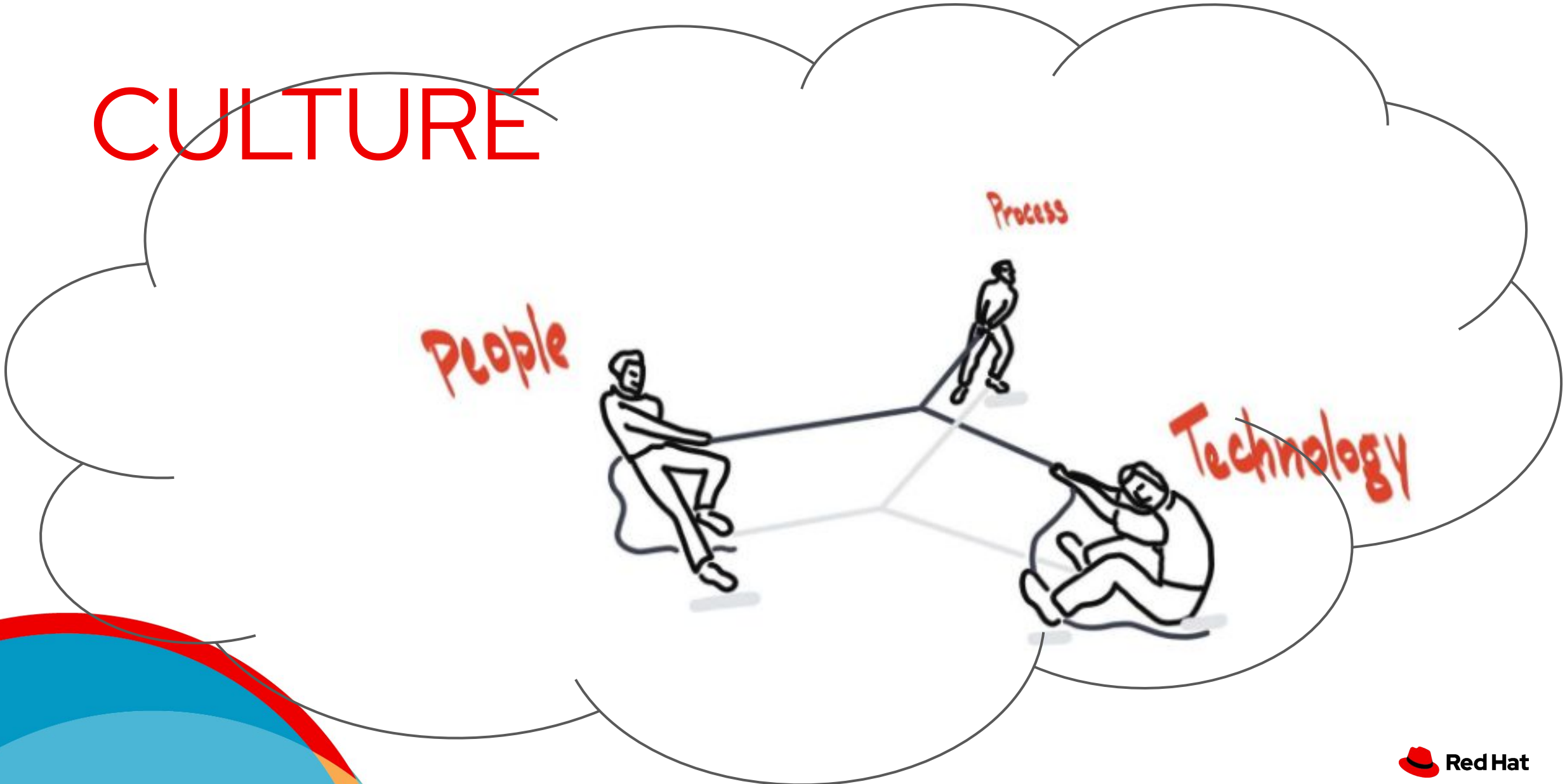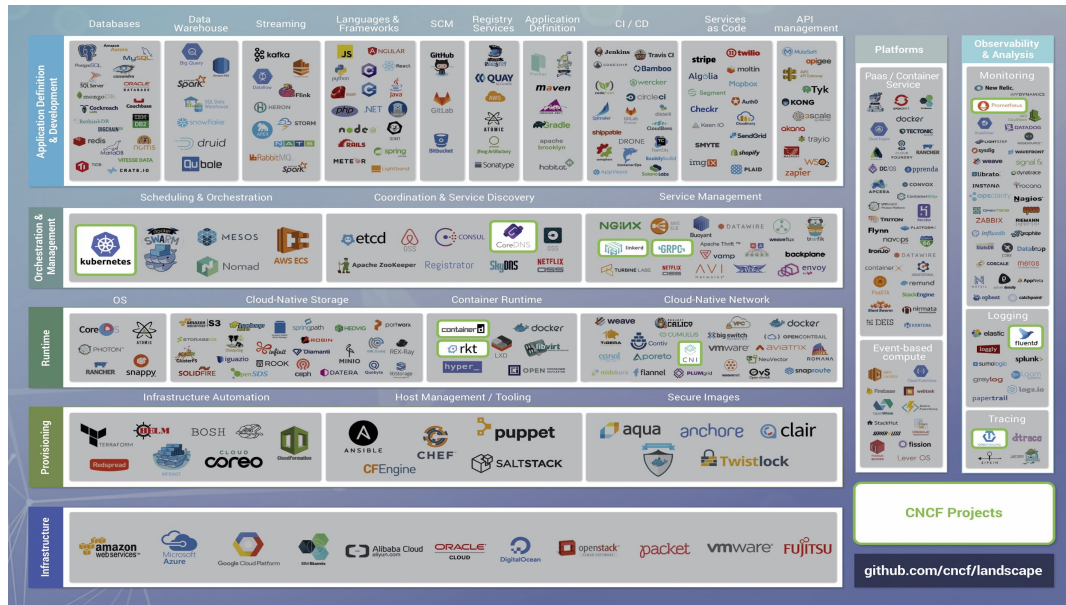
Image source: DevOps Culture and Practice with OpenShift – Tim Beattie, Mike Hepburn, Noel O'Connor, and Donal Spring – Illustrations by Ilaria Doria

CNCF landscape

https://www.cncf.io/about/members/

Image source: https://landscape.cncf.io/
Image source: https://www.cncf.io/about/members/

Conway's law

The structure of an organization will reflect the structure of the systems it creates

Everything is people business

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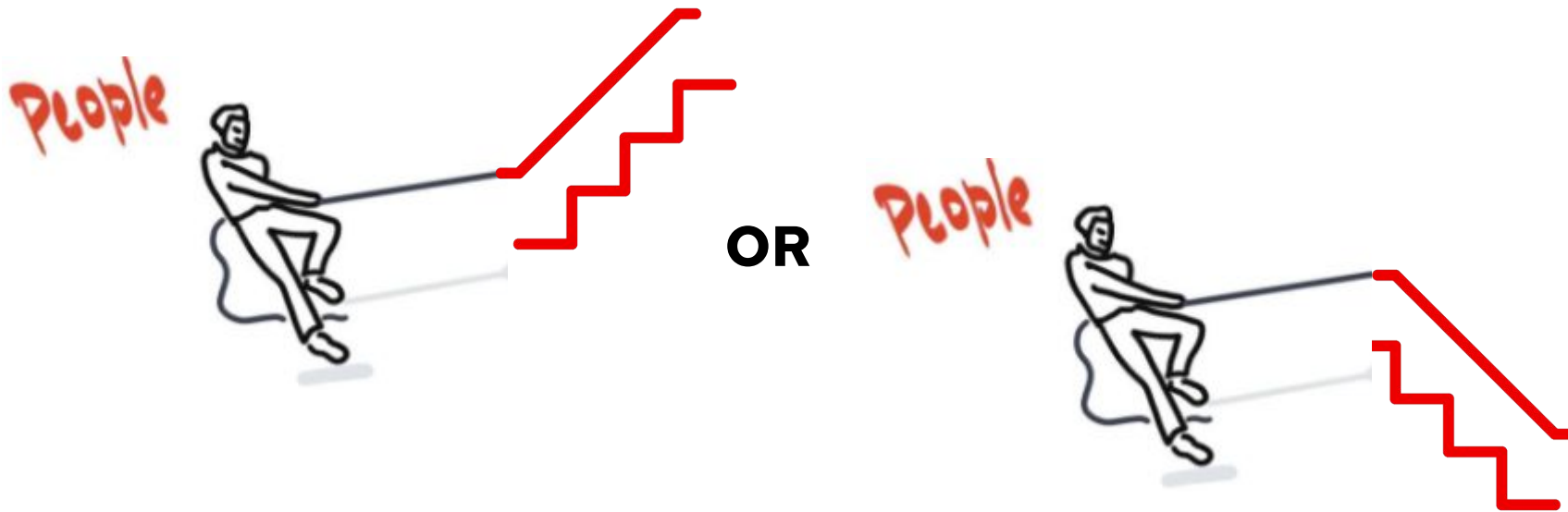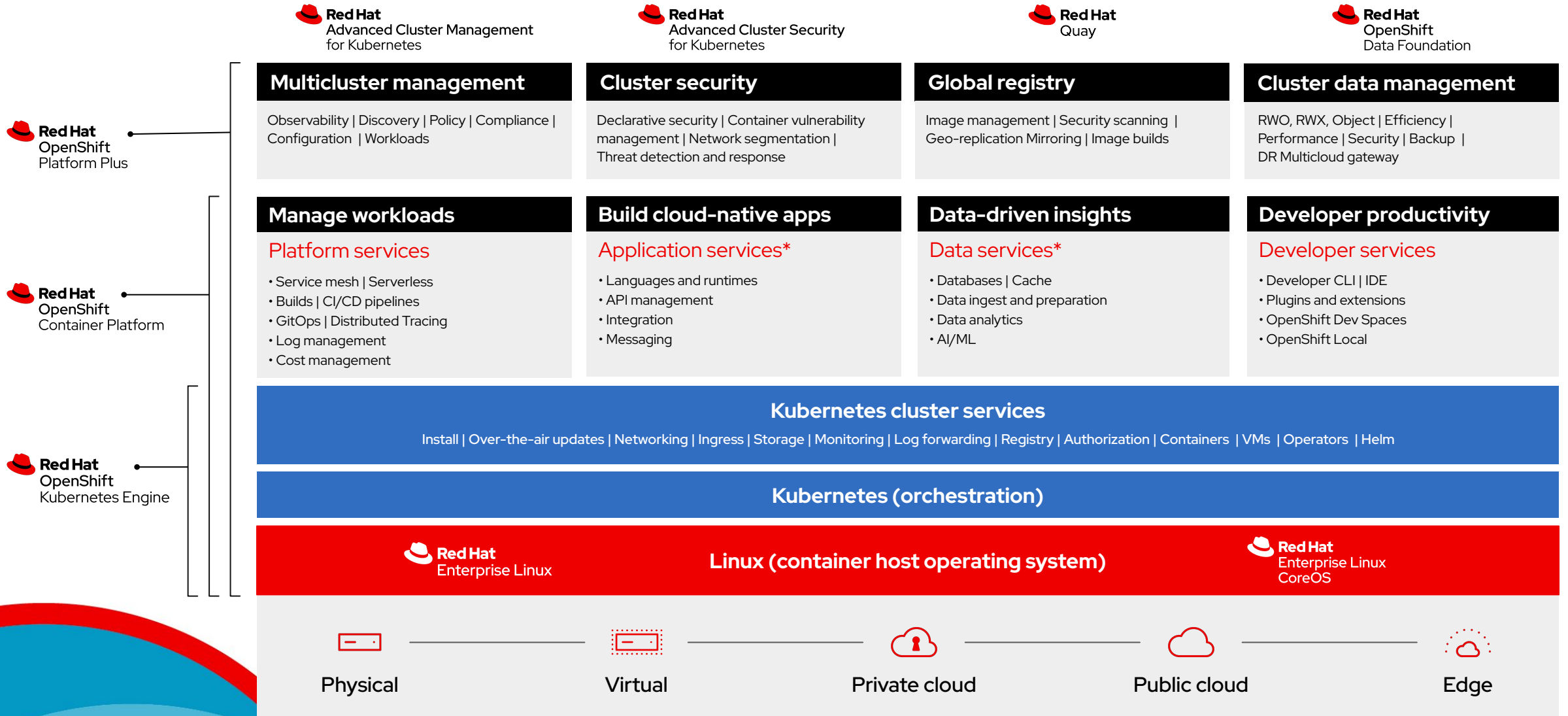Platform Plus

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And finally we made it ...

- Audi Kubika-O team decided for a managed platform in AWS

- A secure platform based on CoreOS

- Team decided to utilise the open operator framework

- Onboard teams in a personal guided manner to reduce friction

Re-thinking process

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Thank you

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