

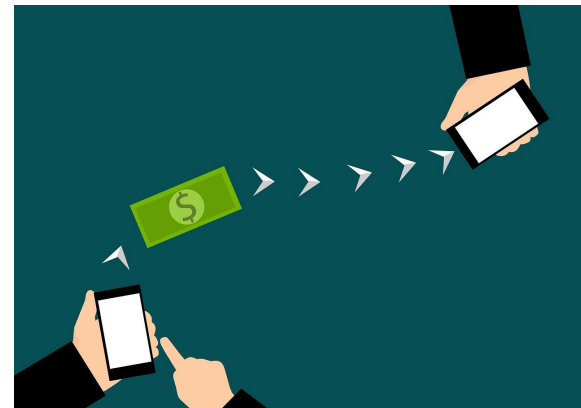
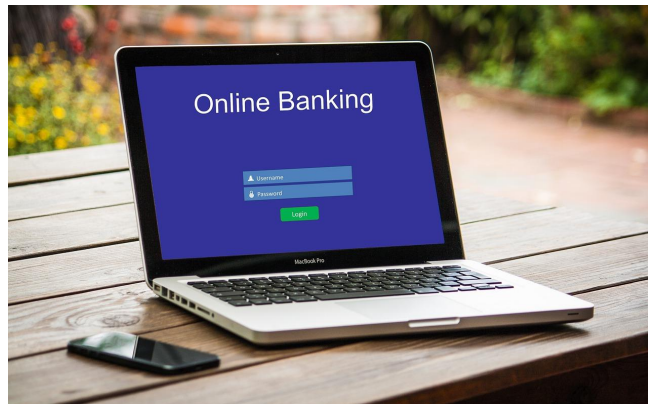


Connect

The 6th R in Application Modernization - as a service

Nikhil Sharma

Portfolio SA (AppDev)





Recommended deals for you



15% off Deal



15% off Deal



15% off Deal



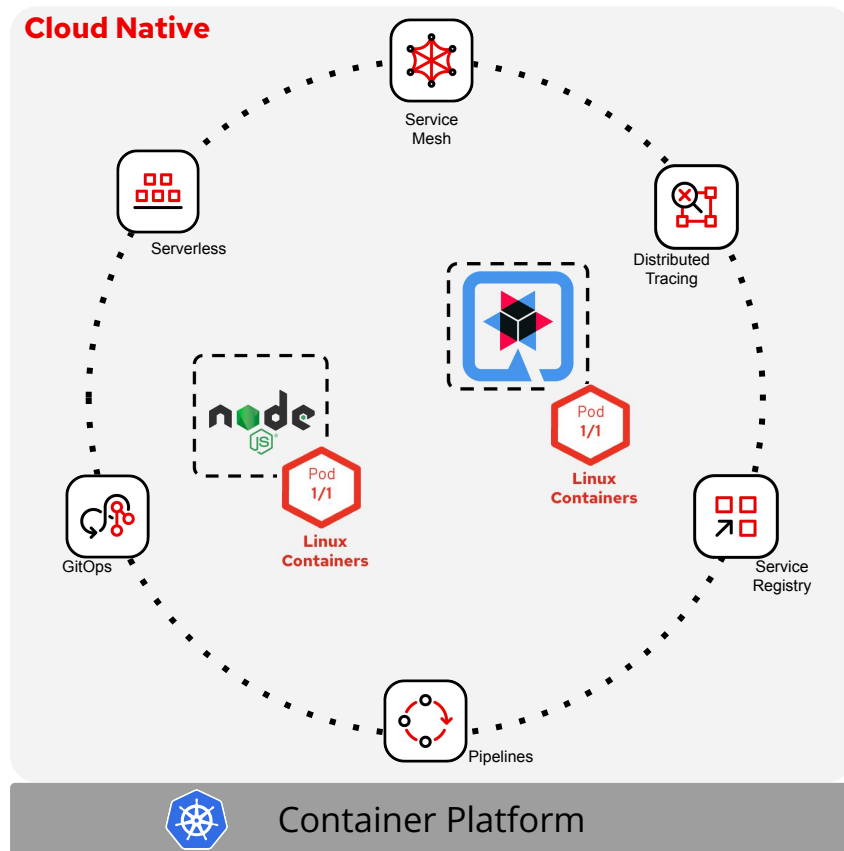
5% off Deal

What is cloud native?



Cloud native technologies empower organizations to build and run scalable applications in modern, dynamic environments such as public, private, and hybrid clouds. Containers, service meshes, microservices, immutable infrastructure, and declarative APIs exemplify this approach.

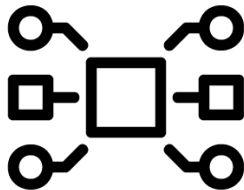
These techniques enable loosely coupled systems that are resilient, manageable, and observable. Combined with robust automation, they allow engineers to make high-impact changes frequently and predictably with minimal toil.



- Run all services on a container platform to inherit its benefits
- GitOps
- Simplify operations by running on a single container platform

**What are the cloud native
application patterns?**

Solve business requirements with Cloud Native Application Patterns



Microservices & APIs

Minimize developer overhead in connecting services to each other and to traditional apps, and increase velocity



Event-Driven & Data Streaming

Scale flexibility by designing services that respond to changes in data without concern for the source; build dynamic applications that inject speed and responsiveness to the business



AI/ML & Analytics

Connect data across applications silos and identify patterns to automate or aid decisions, and build intelligent applications

**Which modernisation strategy
is best for my business?**

Do Nothing

Just Lift and Shift. No Improvements.



Rip and Replace

Big-bang project to rewrite or refactor





**What are the challenges in
going cloud-native ?**

Lack of technical expertise



Portability



Customer case: Globex

Globex is a fictitious retail online store in business for around 15 years.

Headed by Alex Tizen (CEO), is keen on customer experience.

Smith Cruise (CTO), is a technology enthusiast and follower of Bill Gates.



We are a leading online retail store acting in the market for 15 years. **People shopping online today are looking for convenience, ease of shopping and selection.**

- Alex Tizon - CEO, Globex

About company current situation

“““



The only big companies that succeed will be those that **obsolete their own products before someone else does.**

Bill Gates

Managing and scaling legacy systems is one of our biggest challenge during peak sales. We are looking to **upgrade our systems and introduce new access channel** for our online stores.

- Smith Cruise - CTO, Globex

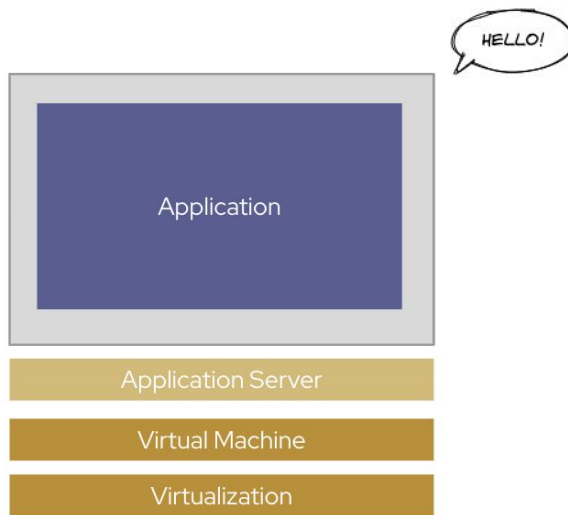
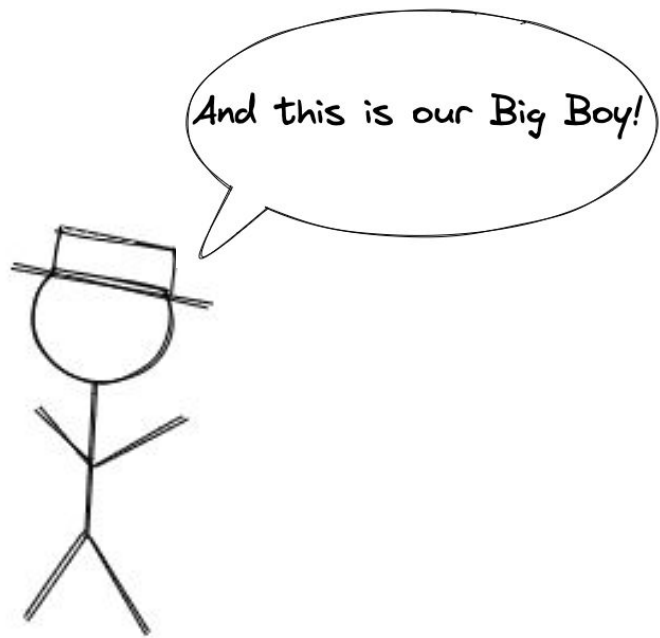
On modernization goals

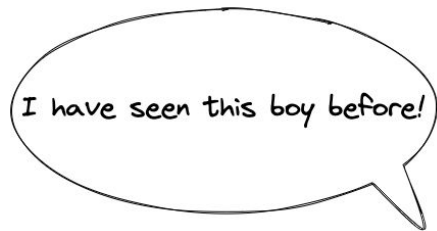
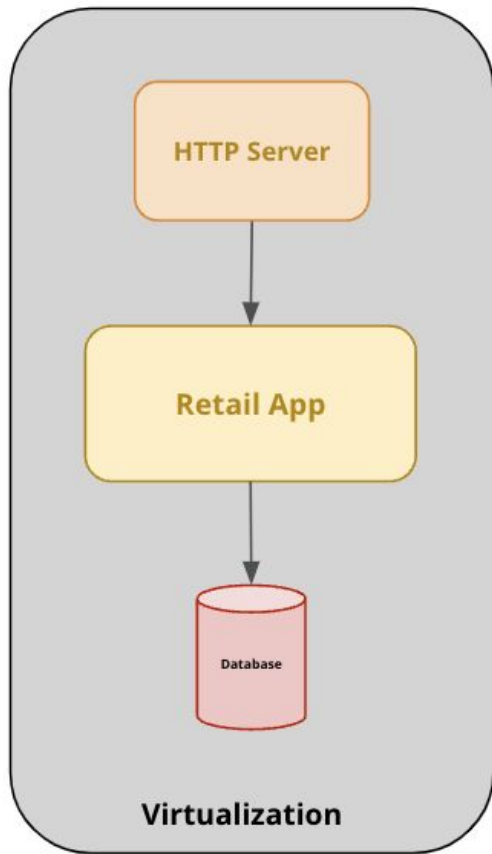


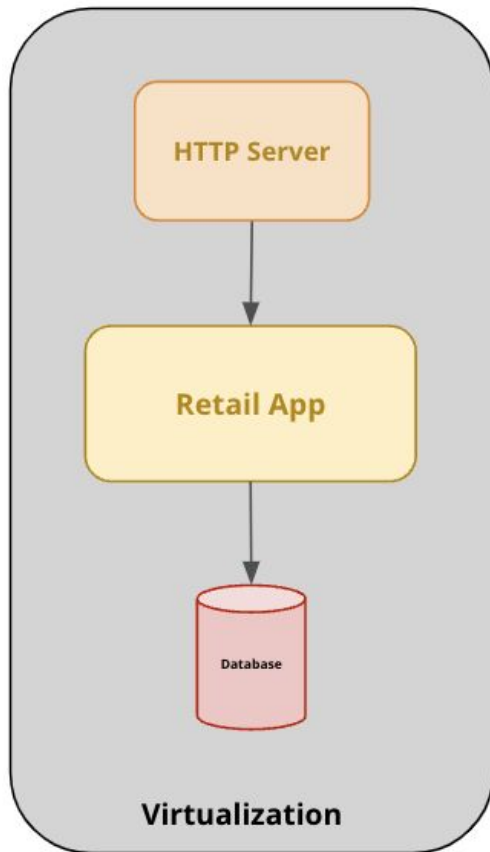
I am Bill, Development lead

I am Bart, the new cloud architect







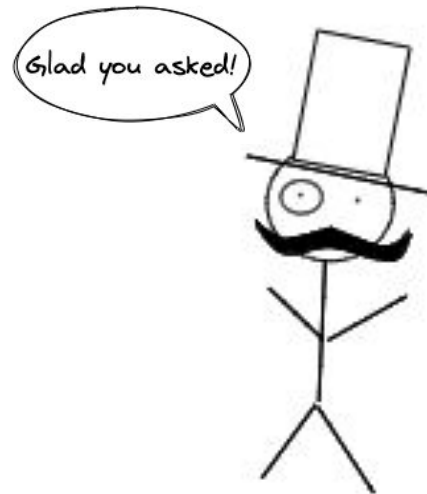
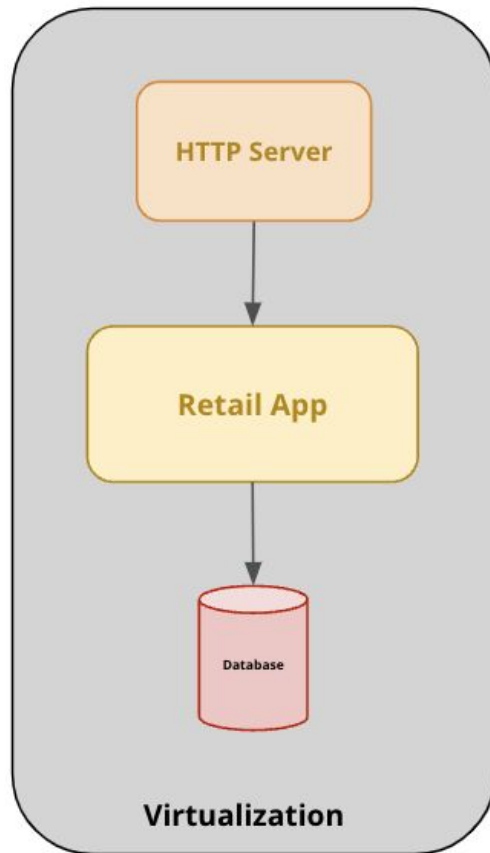


Application Assessment and then Analysis is the way to go





What about the 6Rs?



Glad you asked!



Retire

Sunset or decommission workloads that are no longer needed



Retain

Leave critical workloads as-is until refactoring is required



Rehost

Copy workloads to a cloud (whether hosted or on-prem) with minimal changes, i.e. “lift and shift”



Replatform

Use a cloud migration to upgrade operating systems, databases, and other components as needed in order to cloud-enable workloads without changing core workloads code or architecture



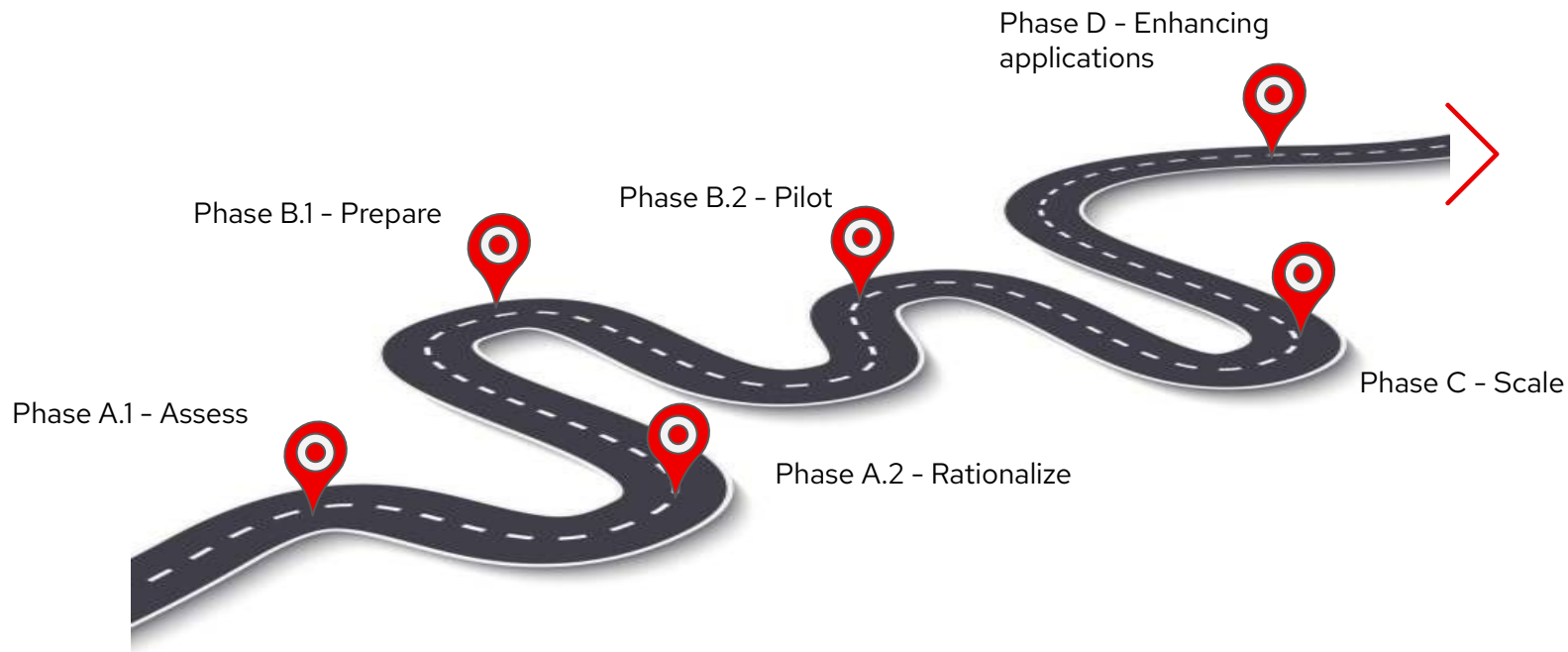
Refactor

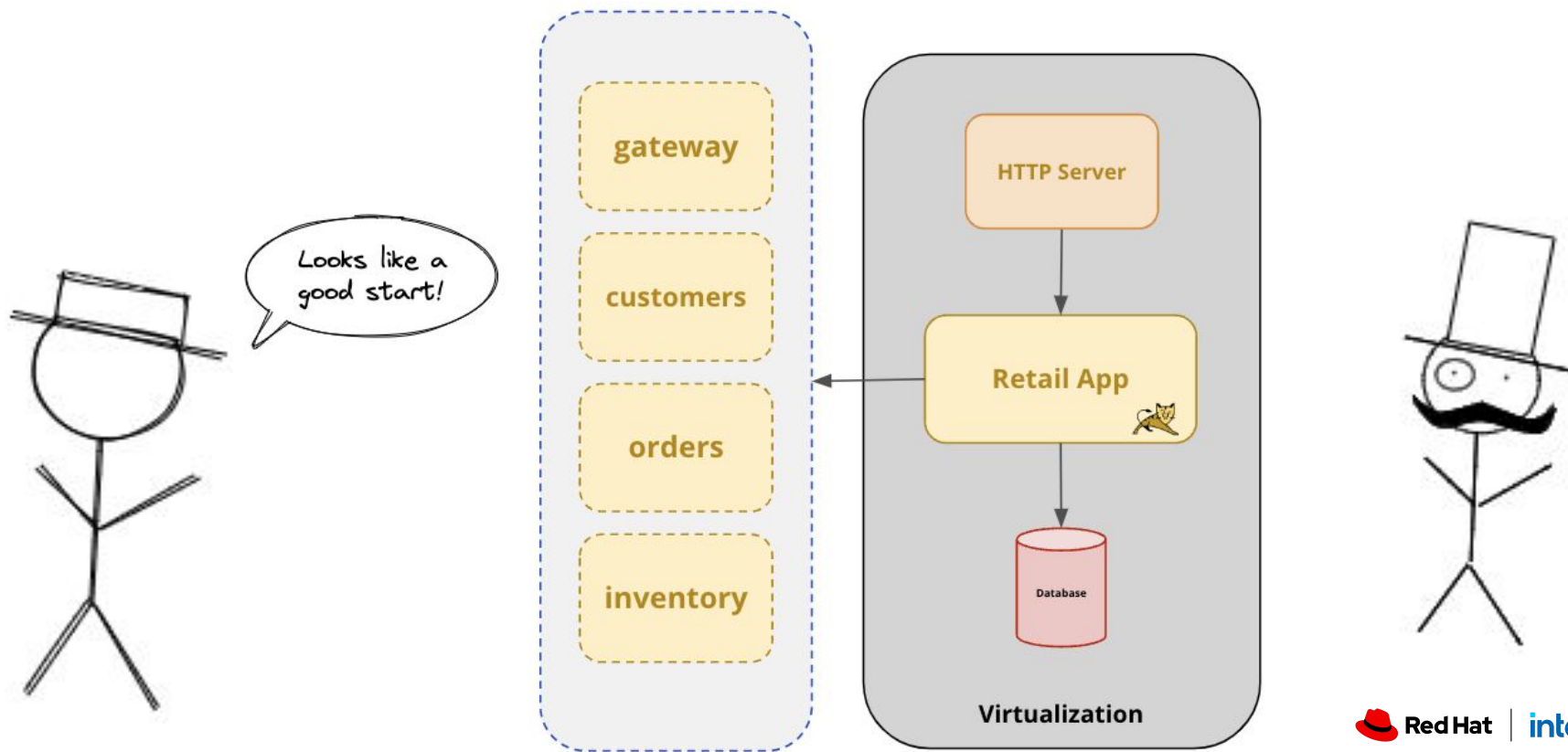
Re-architect as cloud-native, for example, by containerizing workloads or moving them to a serverless architecture

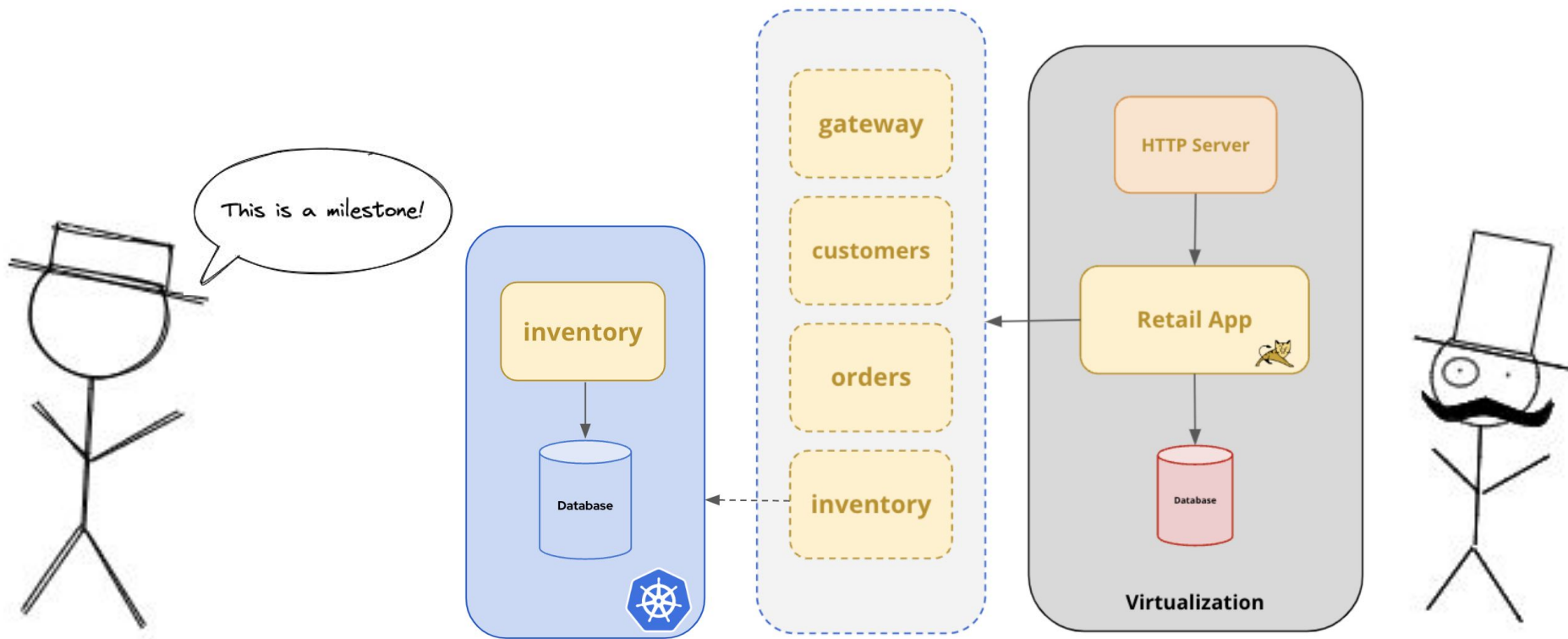


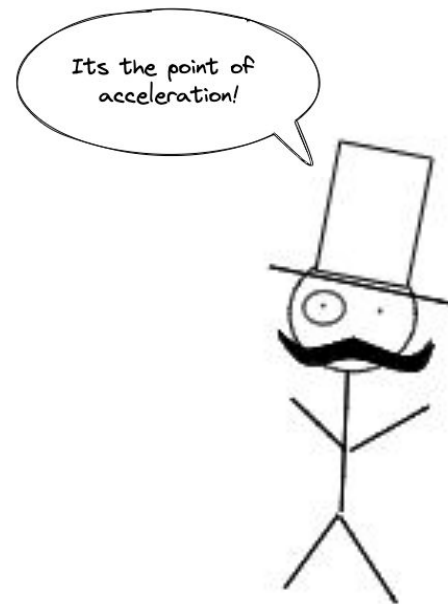
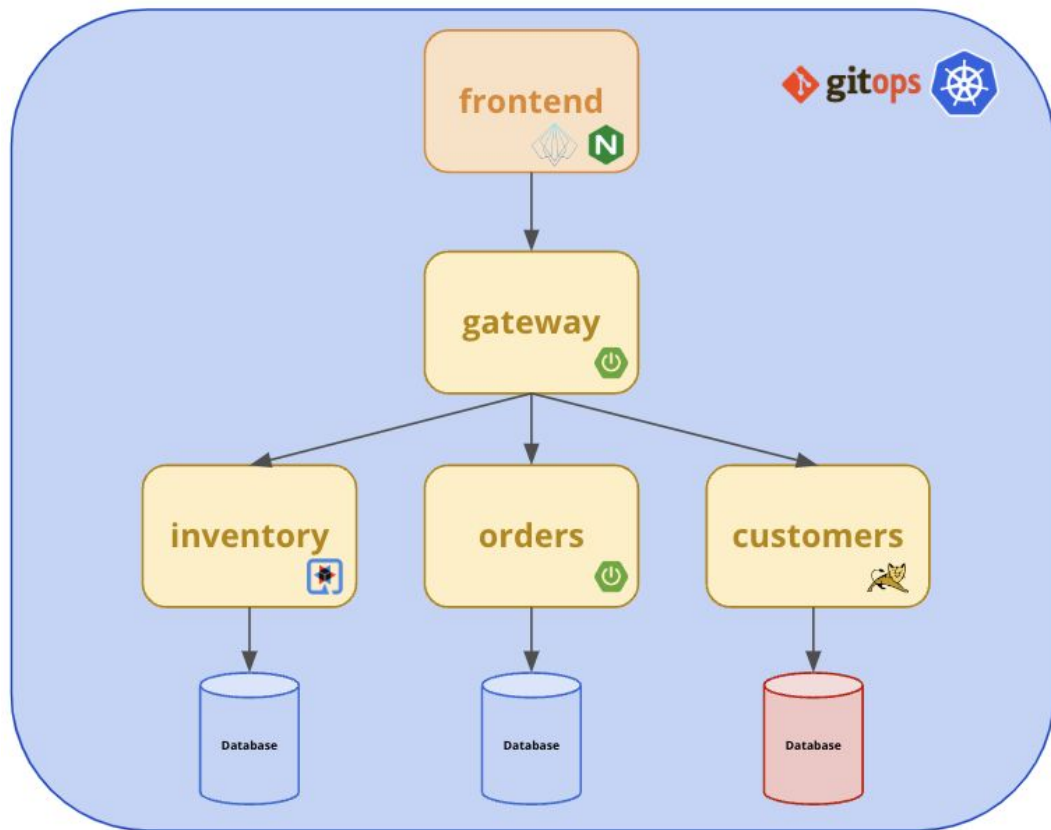
Repurchase

Move from perpetual licenses to a Software-as-a-Service (SaaS) model









Business wants to add new features to the retail website

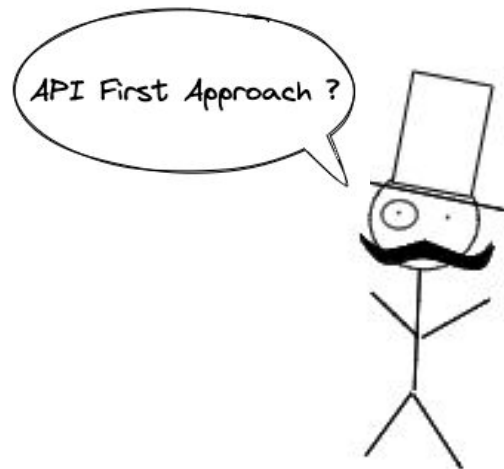
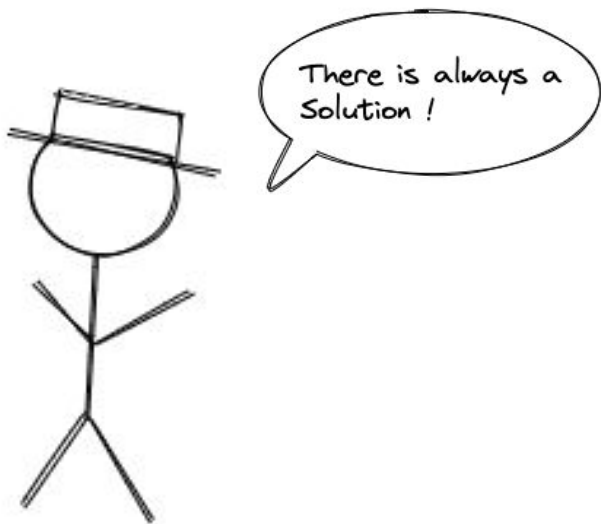
1. Open up new channels of business; build a new mobile app
2. Gain deeper understanding of how users engage with the website.
3. Tracking user activity with a streaming platform
4. Promote featured products based customer interest
5. Leading to a personalised experience

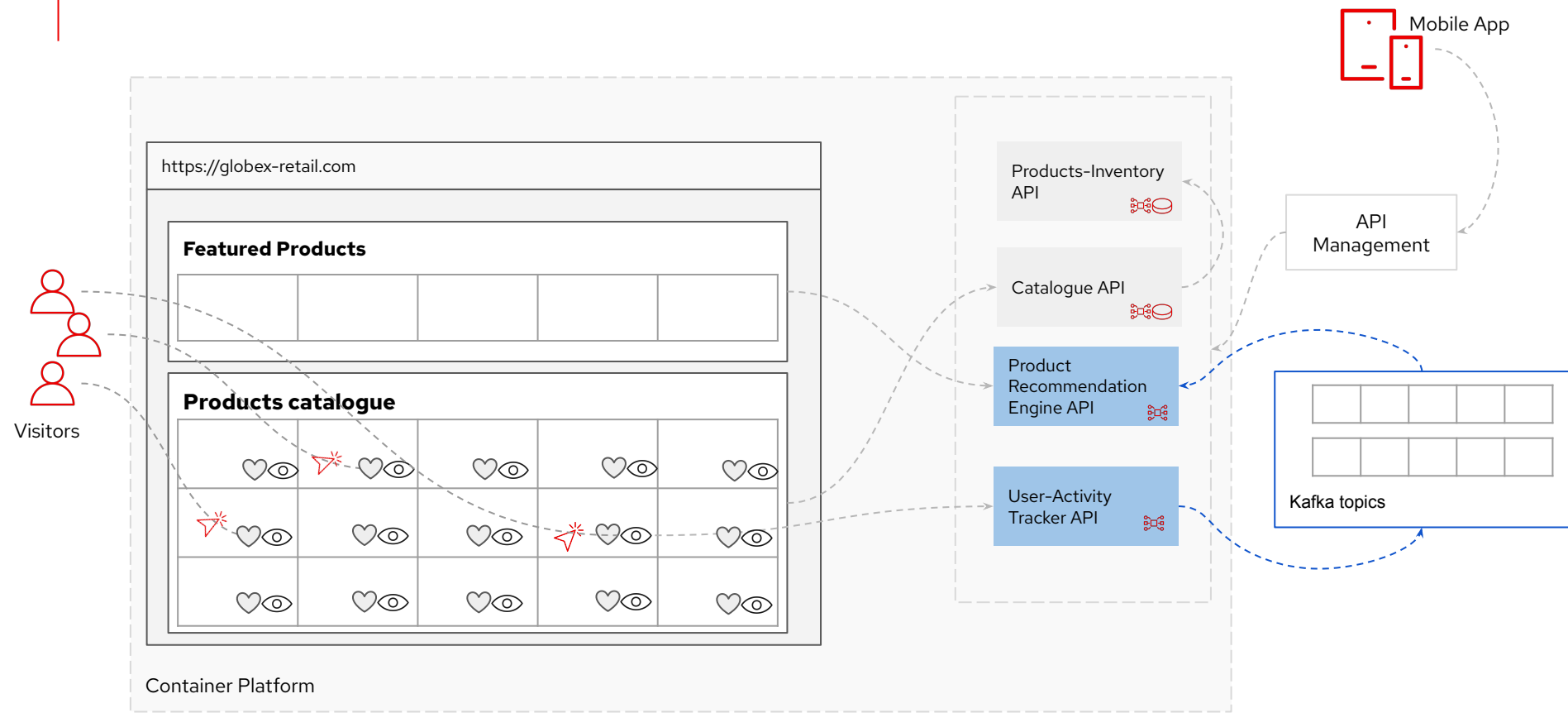


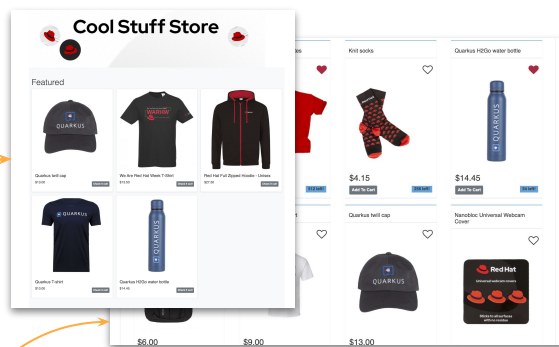
- Adding new channels remains difficult, as mobile app end up tightly coupled with the applications.
- Inter-dependencies between development and time to market
- New tech skills



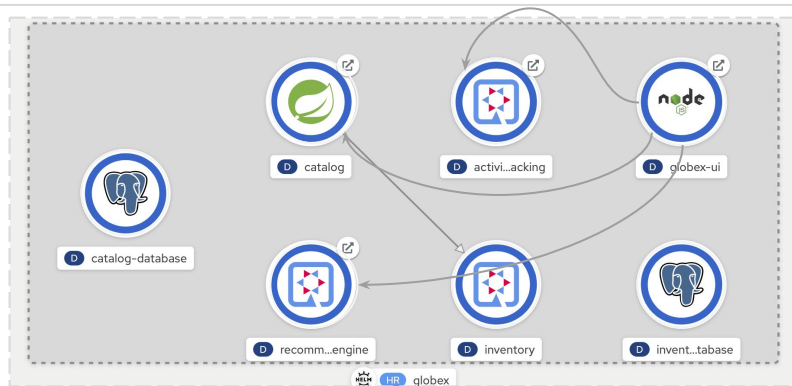
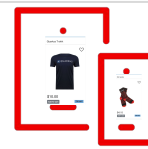
- Adopt an **API First Approach**
- **Parallel development** streams
- **Manage and secure the APIs** with API Management
- Introduce **Kafka** as a streaming platform to ingest and process user activity event streams
- Preference for a **Cloud Services** for easy and rapid ramp up.







Mobile App



 **Red Hat**
OpenShift
Container Platform

 **Red Hat**
OpenShift
API Management

globex_recommendation
/globex-track-useractivity
/globex-recommended-products
/globex-get-products-details
/globex-get-paginated-products



 **Red Hat**
OpenShift Dedicated

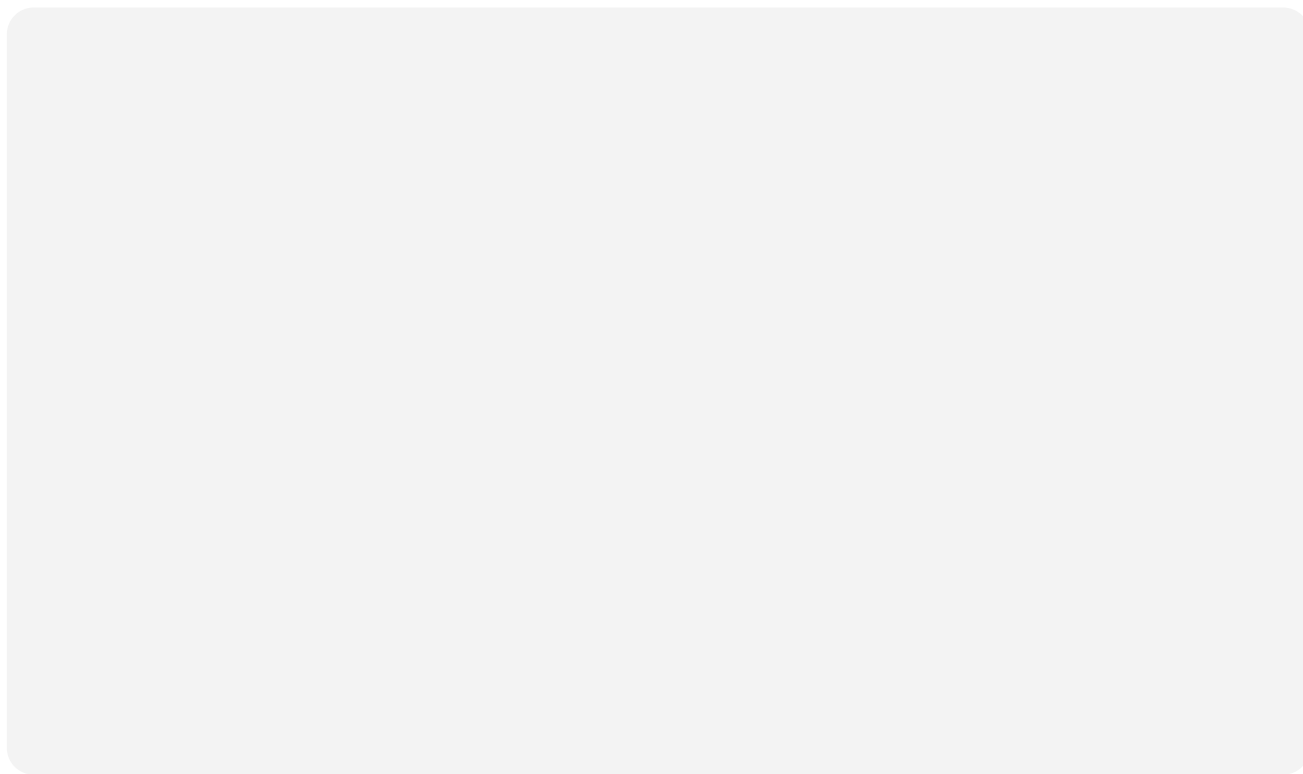
 **Red Hat**
OpenShift Streams
for Apache Kafka

 **Red Hat**
OpenShift
Service Registry

 **Red Hat**
OpenShift
Application Services

 **Red Hat**
Quay.io

Hosted services



Platform
services

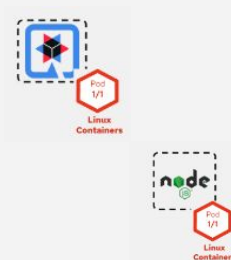
Red Hat
OpenShift
Service on AWS

Microsoft Azure
Red Hat
OpenShift

Red Hat
OpenShift on
IBM Cloud

Red Hat
OpenShift
Dedicated

Cloud Native



Platform
services

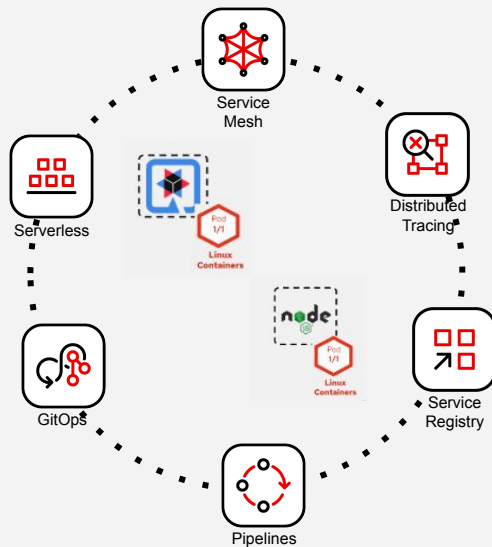
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Platform
services

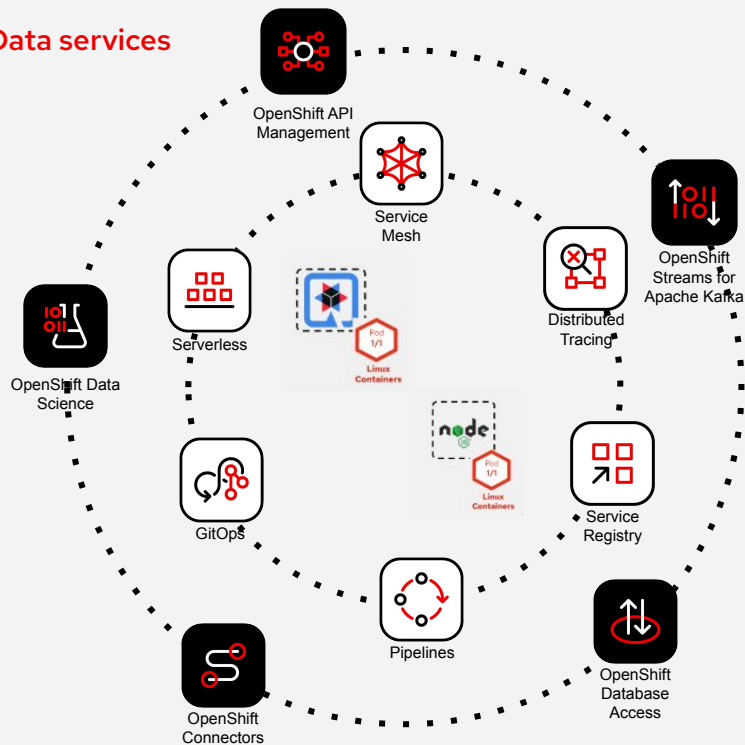
Red Hat
OpenShift
Service on AWS

Microsoft Azure
Red Hat
OpenShift

Red Hat
OpenShift on
IBM Cloud

Red Hat
OpenShift
Dedicated

Application and Data services



Platform
services

Red Hat
OpenShift
Service on AWS

Microsoft Azure
Red Hat
OpenShift

Red Hat
OpenShift on
IBM Cloud

Red Hat
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Connect

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