



Connect

Application Modernization

From virtual machine to cloud native application in 15 minutes

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Financial Services Industry



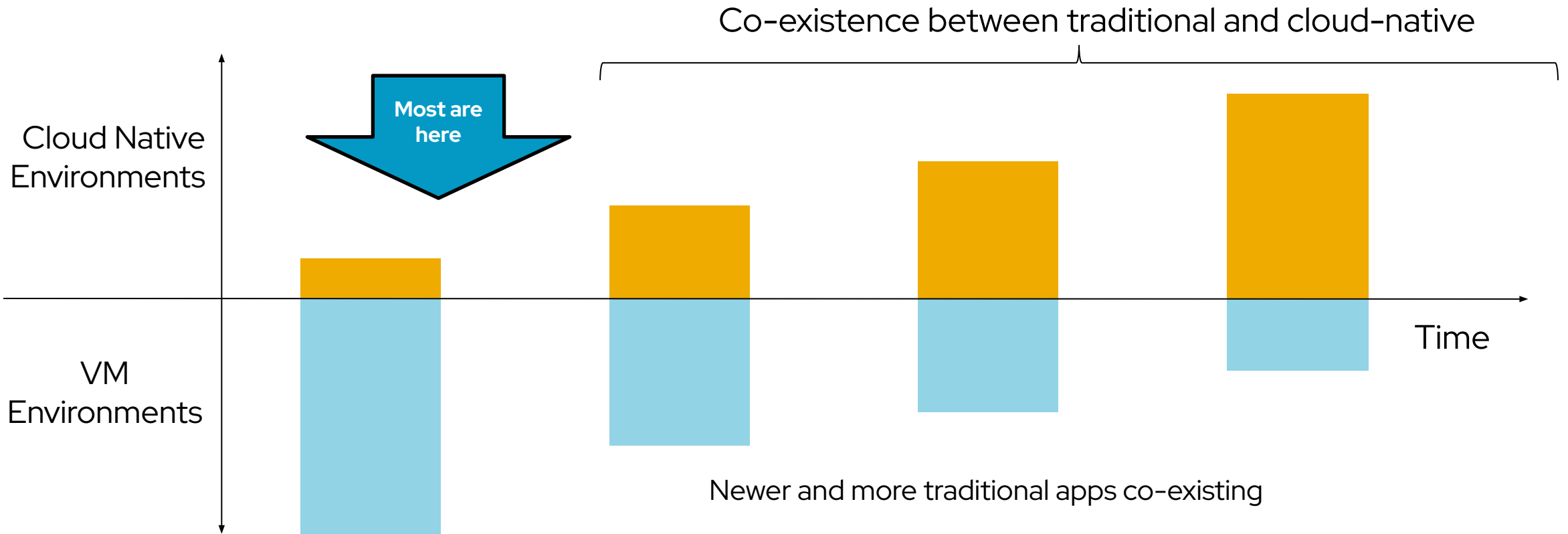
```
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  facts:  
    - nerd: yes  
    - ask_me_about: Kubernetes, Automation, Linux  
    - redhatter: since 2017  
    - current_role: since 2020  
    - fun_fact: part time musician  
    - website: www.generaljabbah.com
```



Gartner predicts that, by 2022, more than 75% of global organizations will be running containerized applications in production, which is a significant increase from fewer than 30% in 2019.

*Gartner, Assessing Kubernetes for Hybrid and Multicloud
Application Portability, June 2020.*

The move from Virtual Machines to Containers

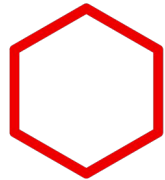


It is about managing both VMs and containers



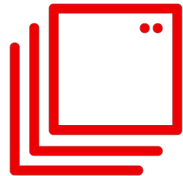
Virtual machines

VMs have been built for decades, and they will not go away overnight.



Containers

Containers solve certain use cases and will continue to rise, but some VMs will remain.

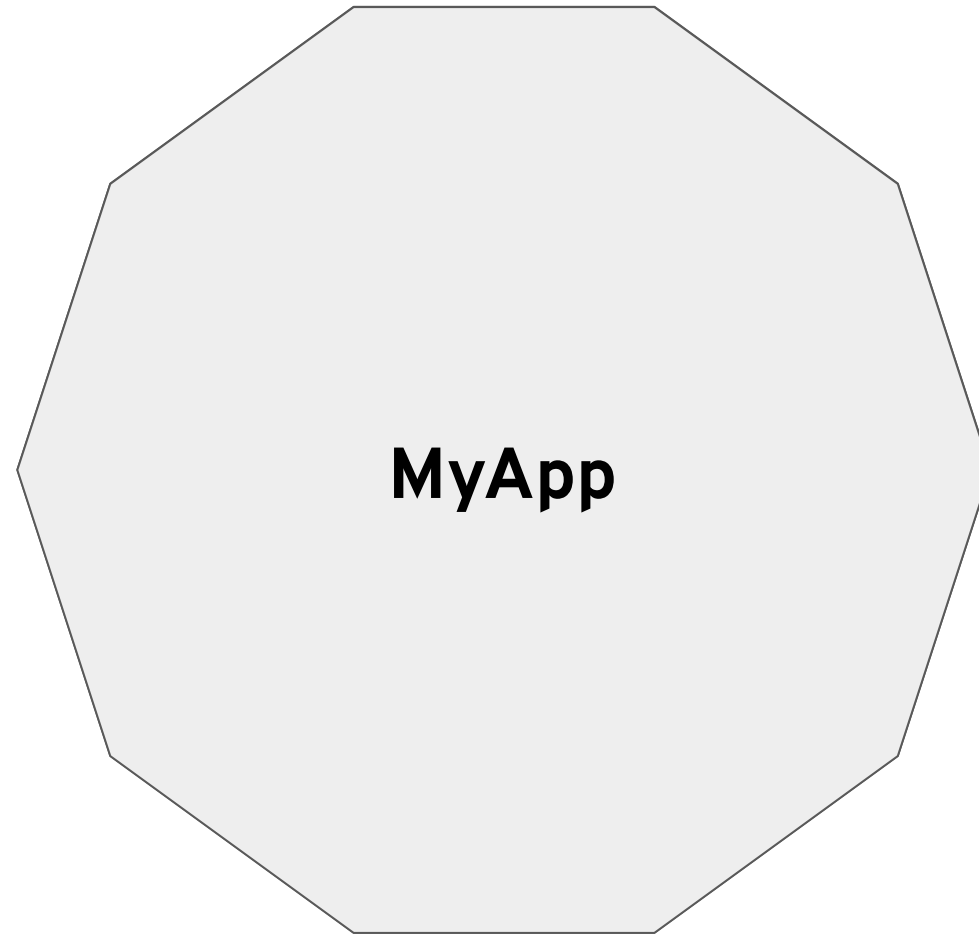


Applications

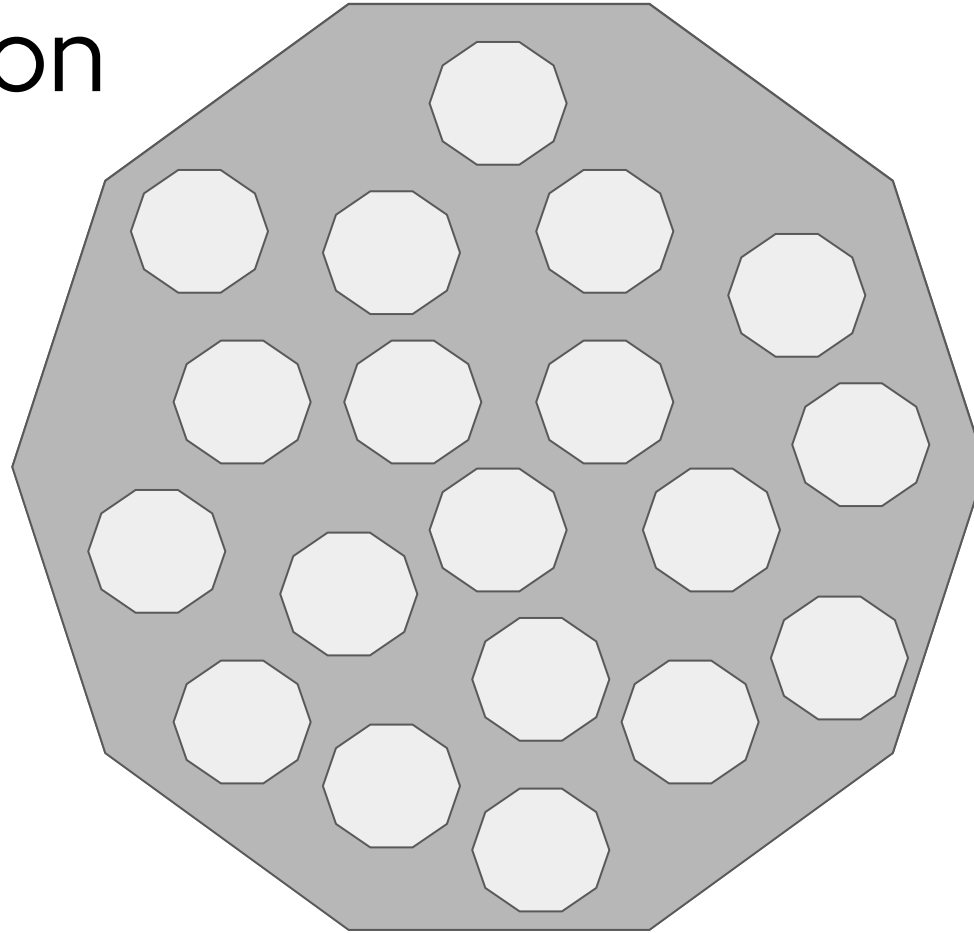
VMs and containers will be used to build applications, and some might even build on both.

Demo: show the environment & app

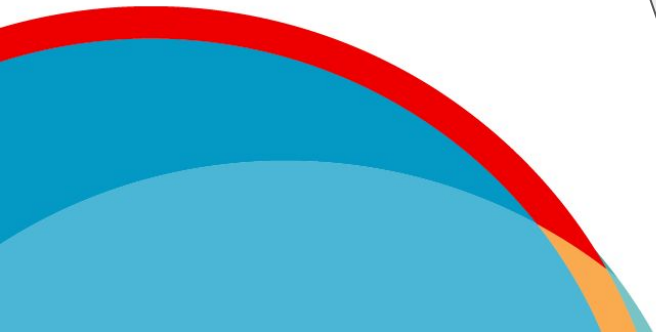
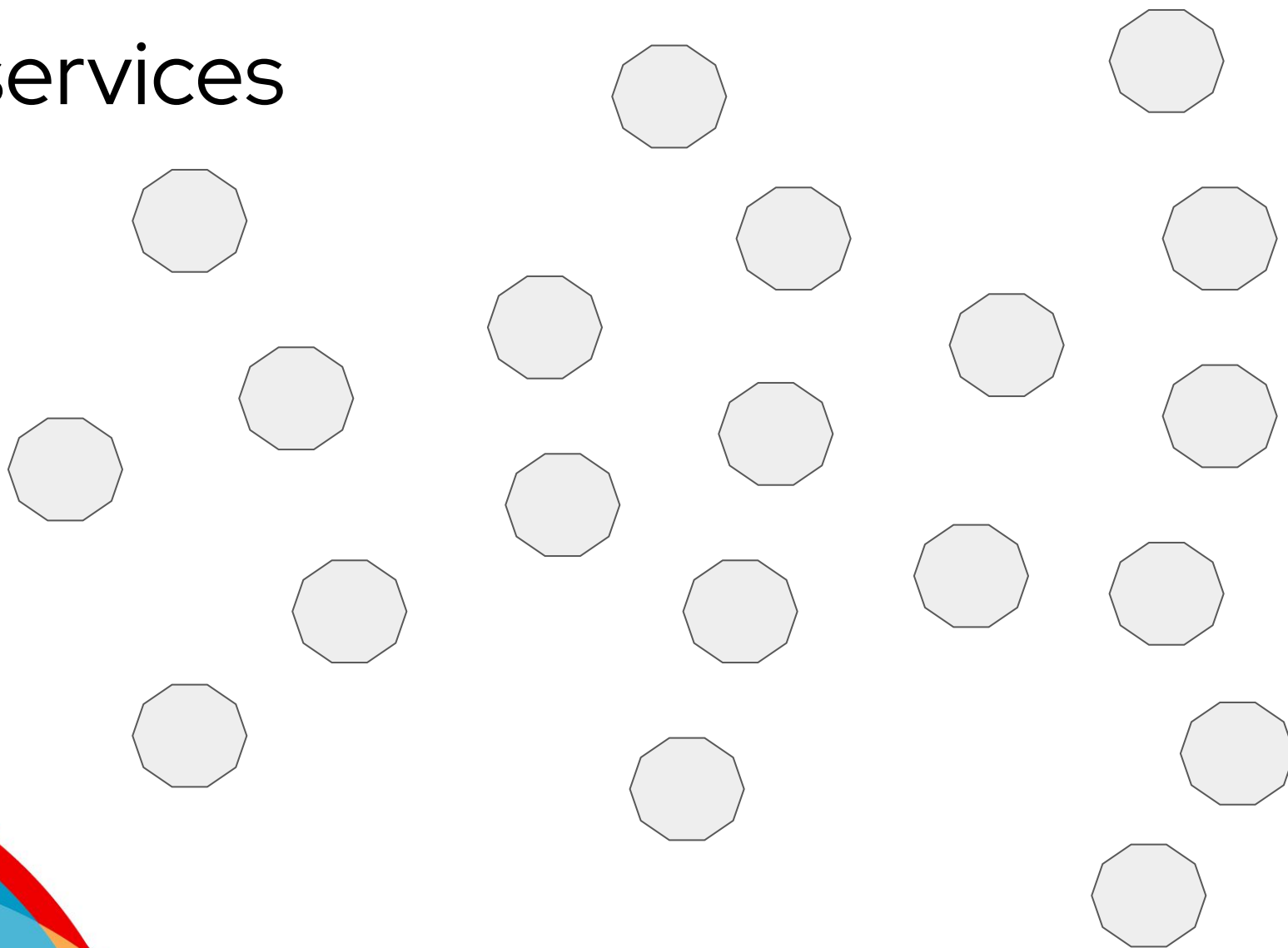
Monolith



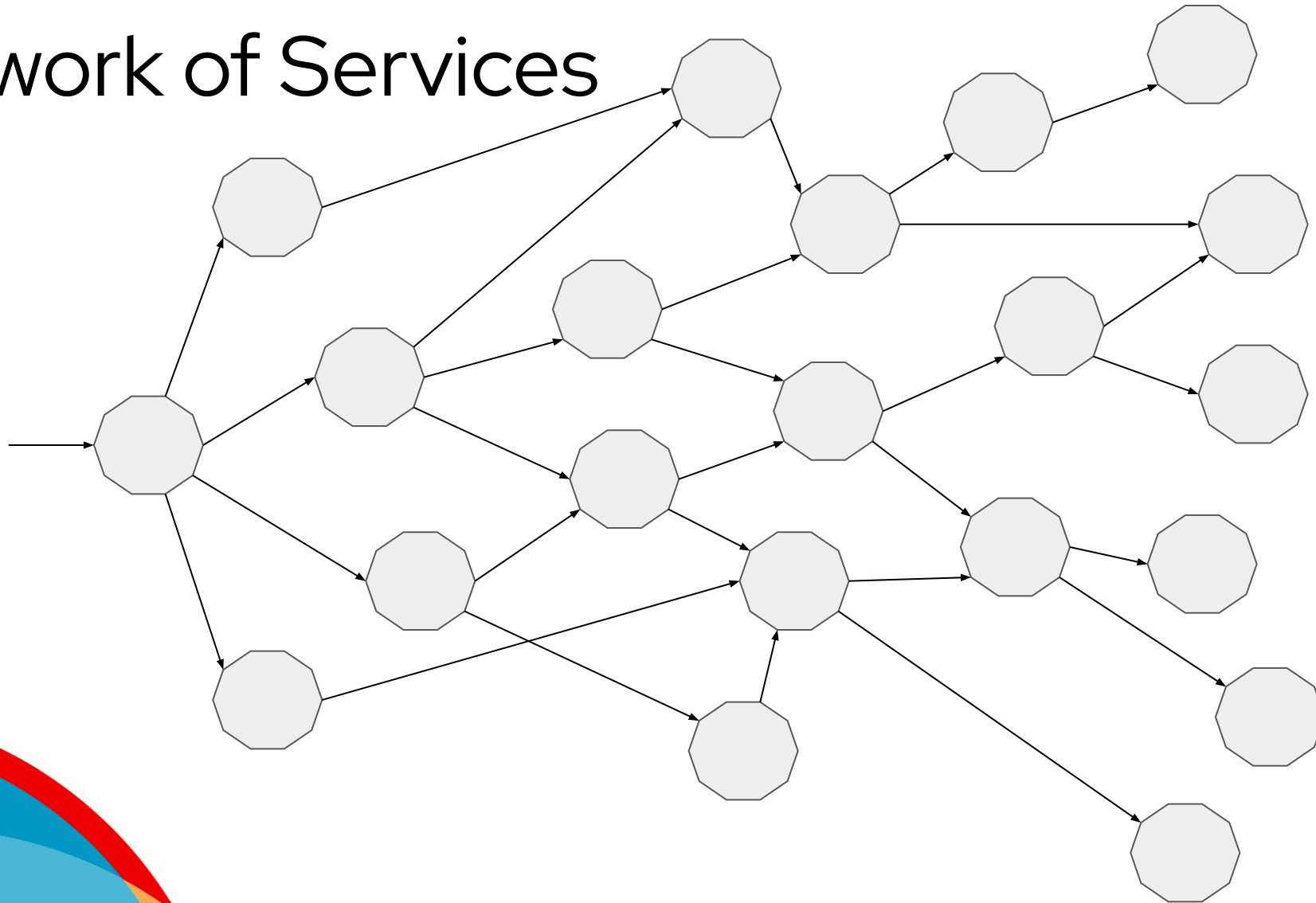
The Application



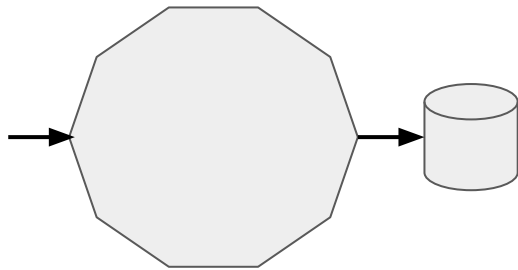
Microservices



Network of Services

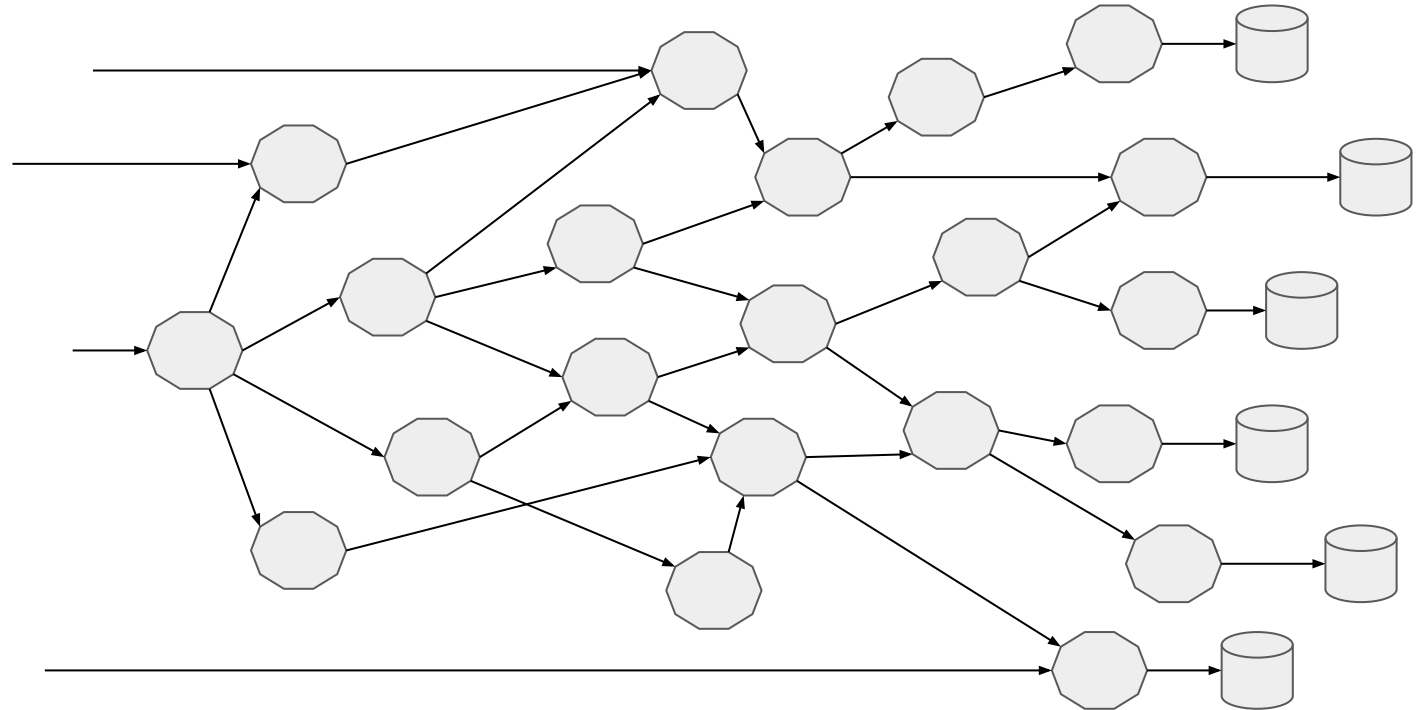


Traditional



Love Thy Mono

New School



“the only thing a **Big Bang** rewrite guarantees is a **Big Bang**!”

Martin Fowler

Modernization Strategies

LIFT & SHIFT



MODERNIZE & EXTEND



RIP & REWRITE



Lift & Shift - is there added value?

LIFT & SHIFT

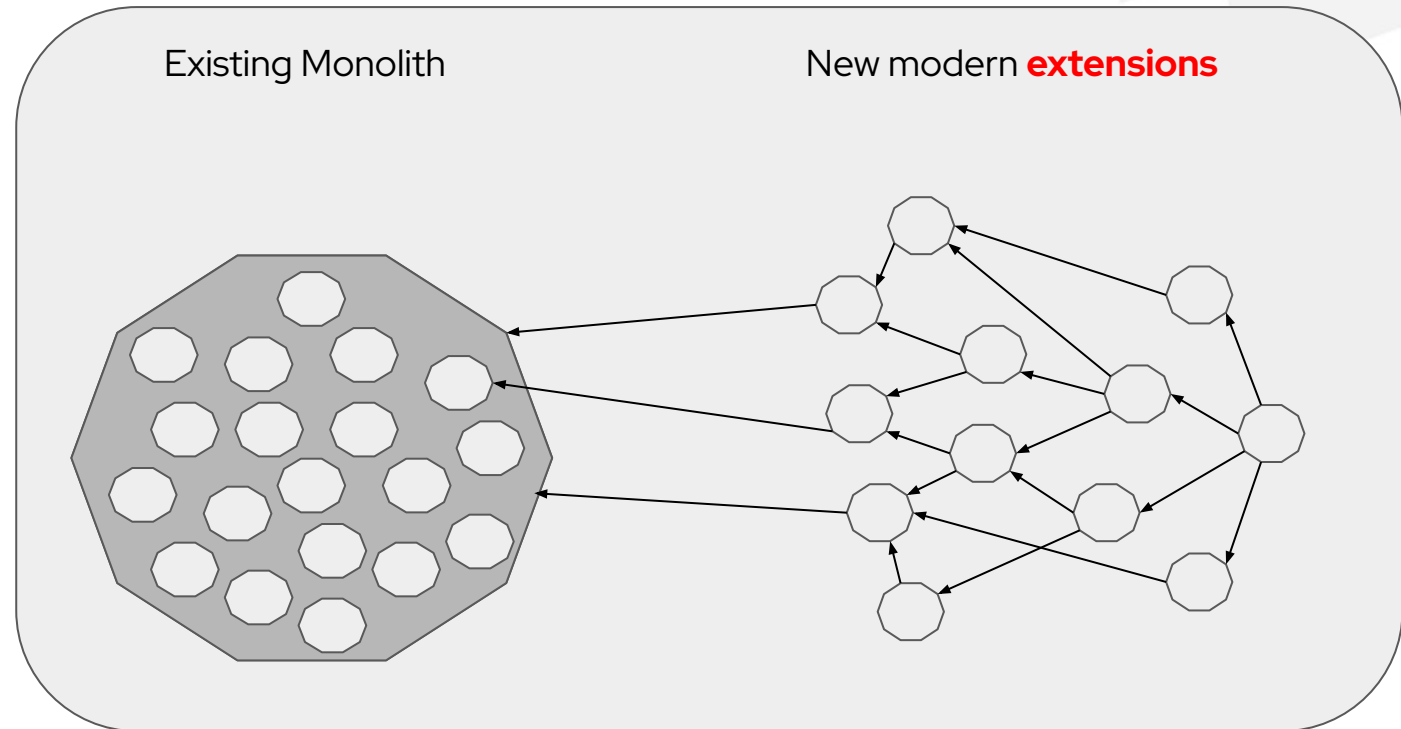


Modernize & Extend on OpenShift

MODERNIZE & EXTEND

- **Legacy remains intact**
- New layer - new capabilities
- Deploy on **PaaS**
- **New integration points** between legacy and new layers

Together they form the new customer experience

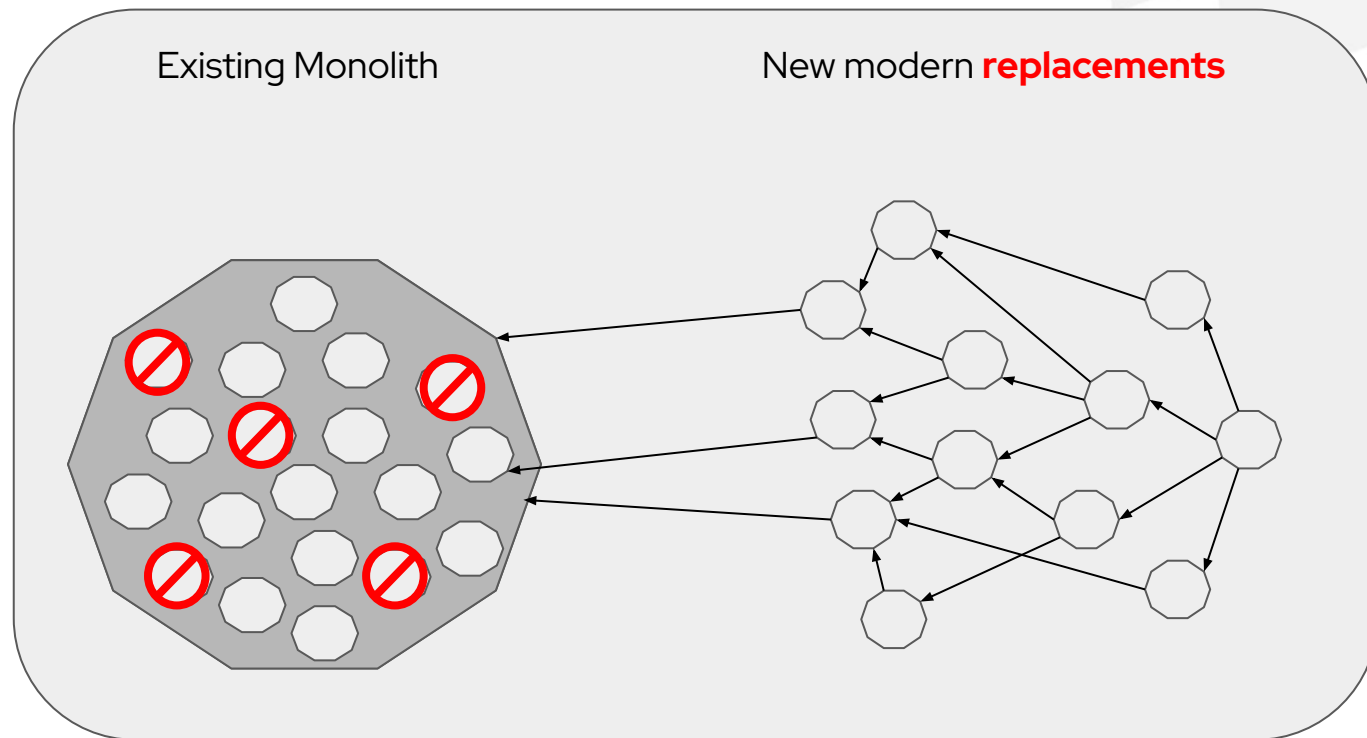


Rip & Rewrite on OpenShift

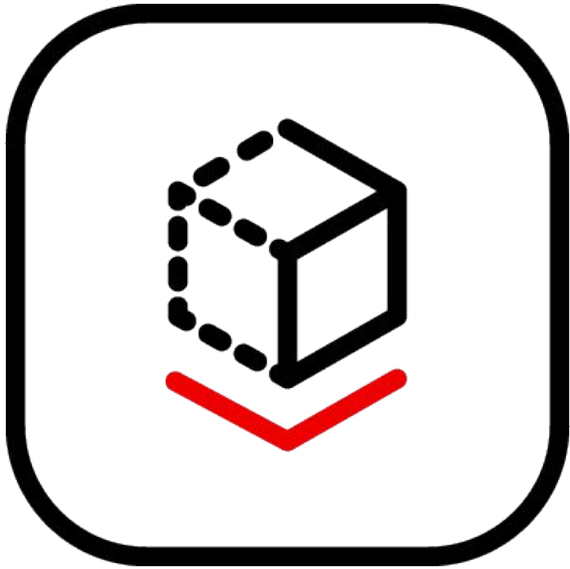
RIP & REWRITE

- **Legacy is totally replaced**
- New interfaces and data
- Use **PaaS** to run
- Some data and features can be re-wrapped, but mostly are retired.

Decomposed into a new architecture for a new customer experience

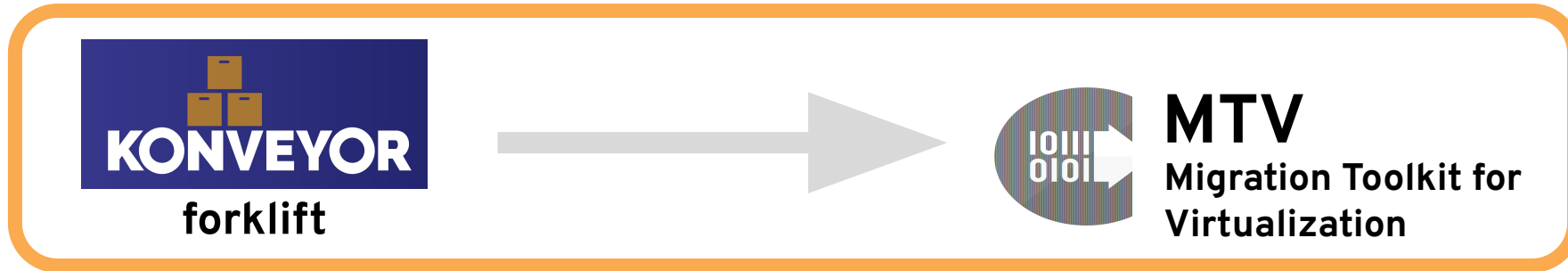


OpenShift Virtualization



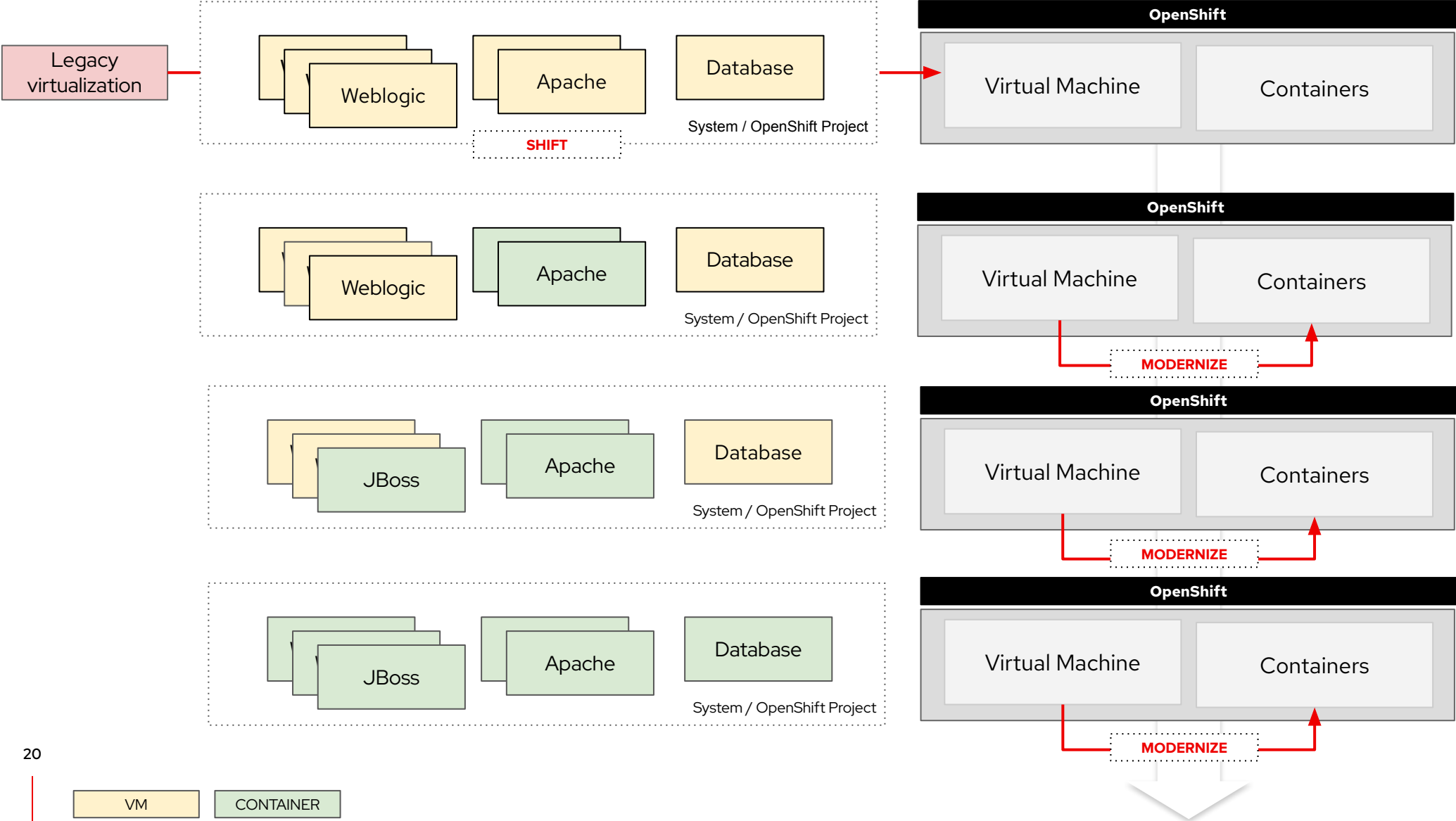
A virtualization API and runtime for OpenShift, built on KubeVirt, to run and manage virtual machines using a Kubernetes-native way

Upstream konveyor.io project



Demo: show OpenShift Virtualization & MTV

Modernize Applications Iteratively



Key takeaways & call to action

1. Application modernization is hard.
You are not alone!
2. Tools from the Konveyor community will help
assessments, migrations and modernizations.
3. Red Hat's Modern App Development Roadshow!



www.red.ht/MADRoadshow

Red Hat
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Thank you



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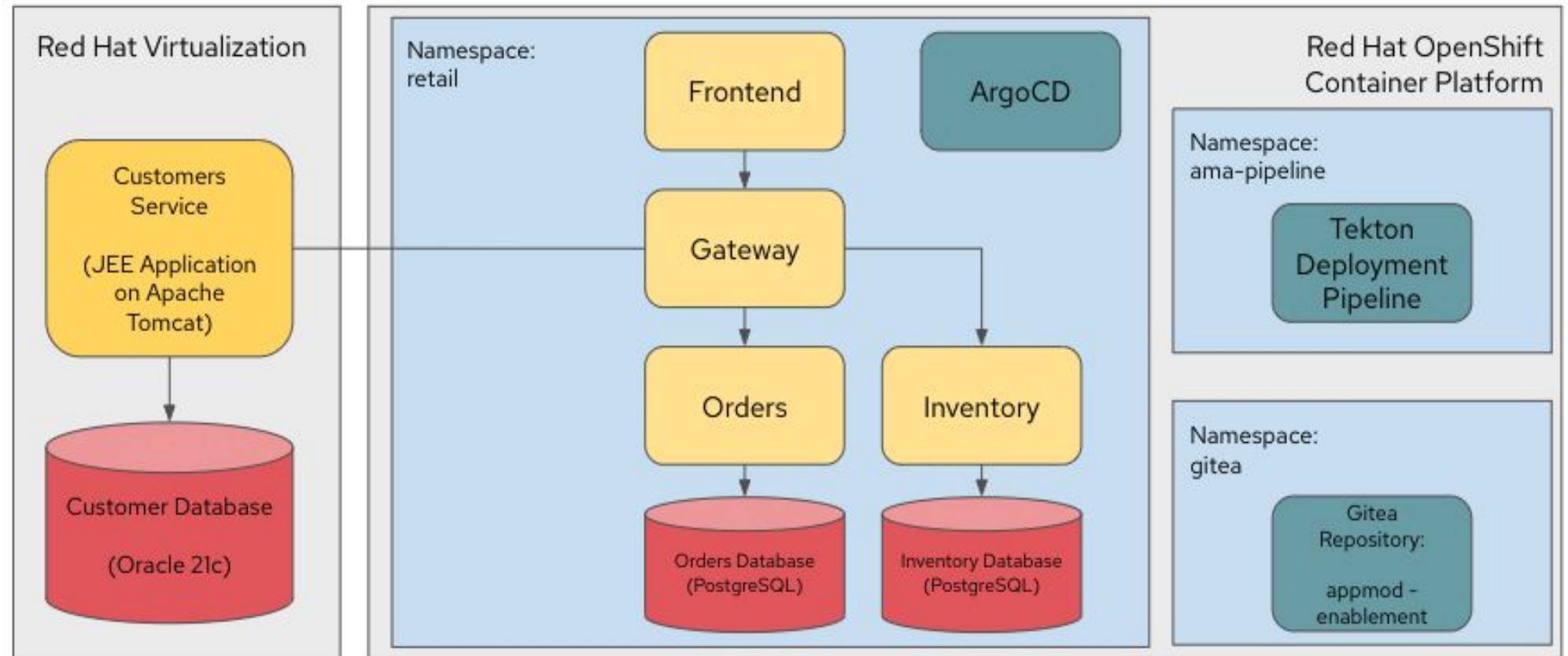


youtube.com/user/RedHatVideos



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Modern App Development (MAD) Roadshow



Modern App Development (MAD) Roadshow

