

What's New for Databases and Virtualization in OpenShift

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OpenShift Virtualization

Modernized workloads, support composite applications with VMs, containers, and serverless

Enhanced Data Protection

- ▶ VM backup and restore built into OADP
- ▶ Disaster recovery workflows coordinated through ACM

Additional Deployment Options

- ▶ Small footprint in resource constrained deployments e.g. SNO
- ▶ IBM Public Cloud Bare Metal (**Tech Preview**)

Operational Enhancements

- ▶ Composite applications (container & VM) in same Service Mesh
- ▶ Enhanced Virtual Machine Workflow Management

Workload Acceleration

- ▶ Accelerate compute and 3D apps with shared vGPU resources

"Red Hat technology stands out from the competition in terms of its ability to run virtualized workloads and container workloads in a streamlined and well-integrated manner. Red Hat allows us to deliver value to our users more quickly, minimizing time to market and accelerating the software development lifecycle."

Gökhan Ergül
CTO,
sahibinden.com

sahibinden.com



Application VMs
to Kubernetes



Cloud-native
VMs



Support GPU
acceleration

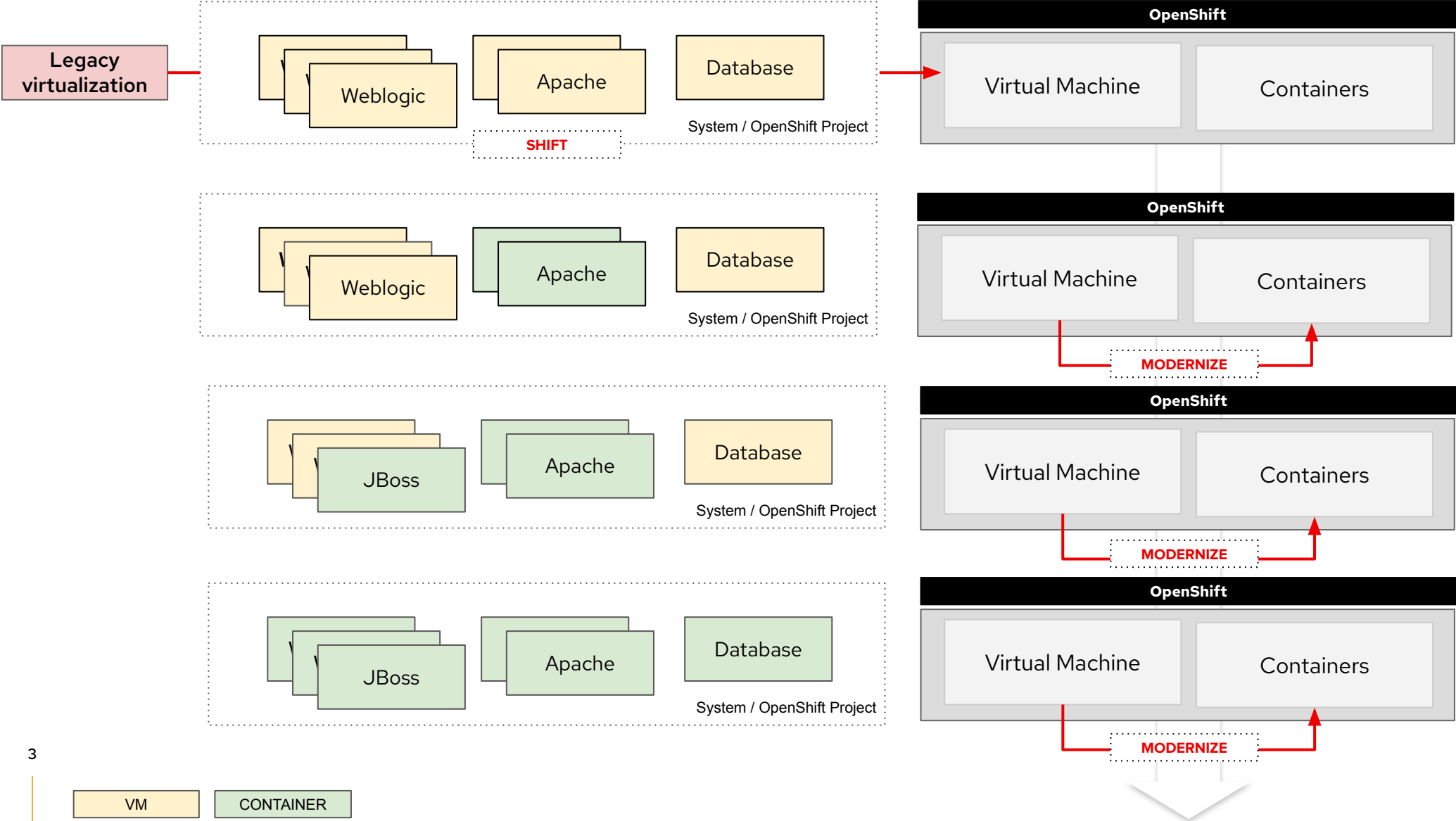


Telco - path to
Kubernetes or
remain as VM



Compact
clusters
at the edge

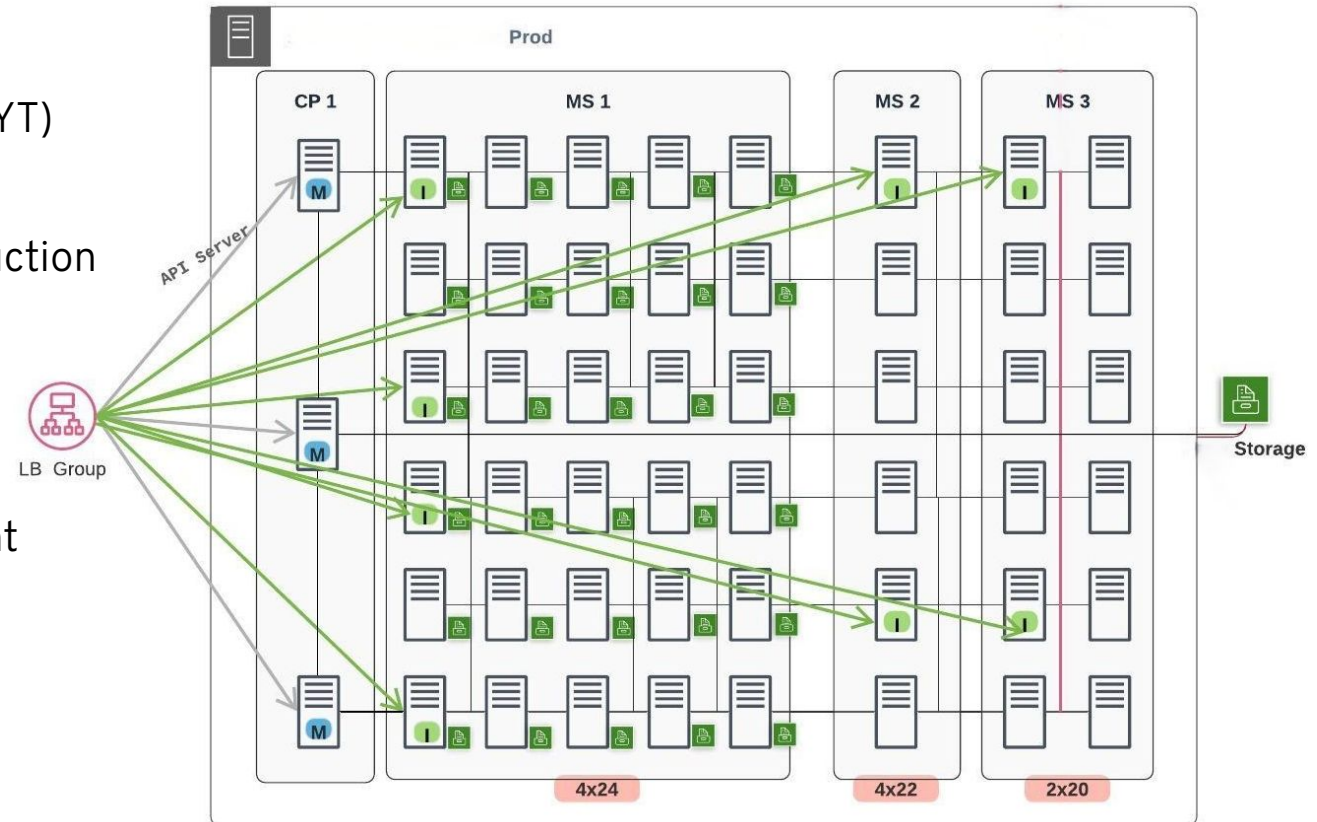
Modernize Applications Iteratively



Large web retailer in EMEA

Online platform for real estate, cars and a broad variety of goods and services.

- 4th most visited site in region (After GOOG, FB, YT)
- Aggressive deployment of OpenShift & OpenShift Data Foundation in 6 months to production
- Modernize existing infrastructure & VM apps to containers
- Innovative technology to attract & retain IT talent
- Currently running 1400 VMs on ~ 60 hosts
- Deploying second data center for DR

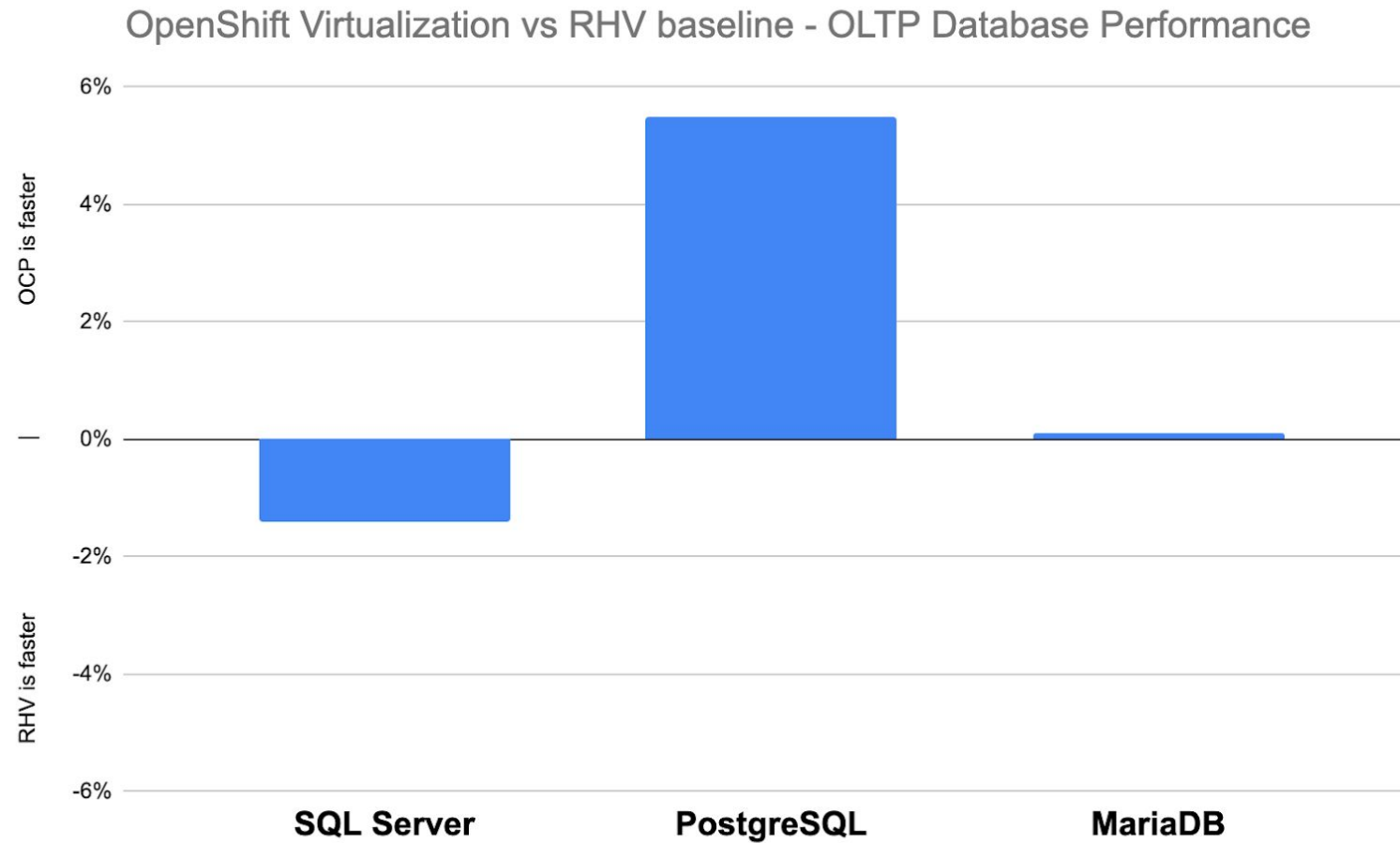


Global Telecommunications/5G Provider



- OpenShift Virtualization can be used as a transitional technology for workloads *not yet ready* for containers.
- Architect, develop, test, and scale *production-like* deployments many months before a containerized version of applications being available.
 - MySQL Cluster Carrier Grade Edition from Oracle
 - F5 BIG-IP , initially deployed as VM, refactoring to a container
- Significantly accelerate time to market, while ensuring reliability and quality of the overall solution.

Database performance is equivalent for both VMs and containers



KubeVirt community

cloud.redhat.com/blog/tag/openshift-virtualization

Lockheed-Martin takes flight with amazing superpowers: OpenShift virtualization & dev pipelines

events.summit.redhat.com/widget/redhat/sum21/sessioncatalog/session/16069654032260011Fod

OpenShift Clusters using OpenShift Virtualization - how to manageably, efficiently and resiliently run a large number of OpenShift clusters

events.summit.redhat.com/widget/redhat/sum21/sessioncatalog/session/1617741619673001M92J