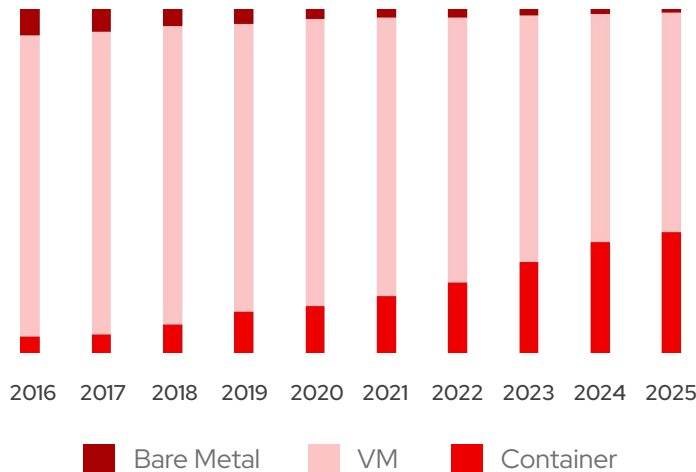# OpenShift Virtualization
TCO Calculator

Prepared for **dubai2**

Industry context for virtualization migration

Organizations need to preserve their existing VM workloads while preparing for the future

Composition of Application Infrastructure 2016-2025

2016 2017 2018 2019 2020 2021 2022 2023 2024 2025
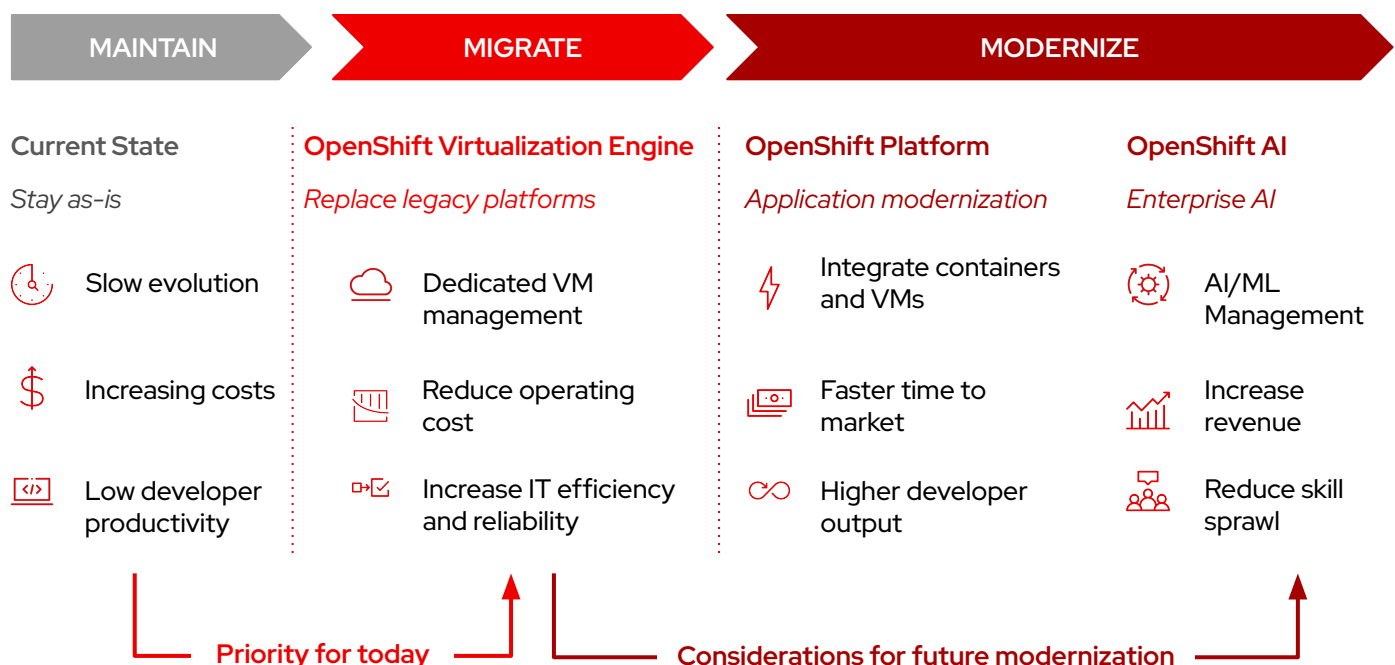
■ Bare Metal ■ VM ■ Container

IDC Container Infrastructure Software Market Assessment: Container Deployment Forecast

Many organizations invested in VMware when most workloads were running on VMs. While VMs are still, and will continue to be, an important part of application infrastructure, the industry is moving towards containerization.

Market developments have created a compelling event for companies to get ahead of this trend and **adopt a flexible, future-focused solution that solves their near-term virtualization requirements while leaving the door open for future, cloud-native workflows.**

Solve near-term challenges, invest in long-term value

Efficiently migrate VMs now to reduce operating costs and unlock additional value in the future

MAINTAIN	MIGRATE	MODERNIZE	
Current State	**OpenShift Virtualization Engine**	**OpenShift Platform**	**OpenShift AI**
Stay as-is	*Replace legacy platforms*	*Application modernization*	*Enterprise AI*
Slow evolution	Dedicated VM management	Integrate containers and VMs	AI/ML Management
Increasing costs	Reduce operating cost	Faster time to market	Increase revenue
Low developer productivity	Increase IT efficiency and reliability	Higher developer output	Reduce skill sprawl

Priority for today

Considerations for future modernization

OpenShift Virtualization

OpenShift, Advanced Cluster Management, and Ansible Automation Platform continue to work with ISV solutions to meet your virtualization requirements

ISV Partners
(storage, backup/DR, networking, etc.)

VM Host Management at Scale
Advanced Cluster Management for Virtualization, Advanced Cluster Management for Kubernetes

Migration and Network Automation, Day 2 Operations
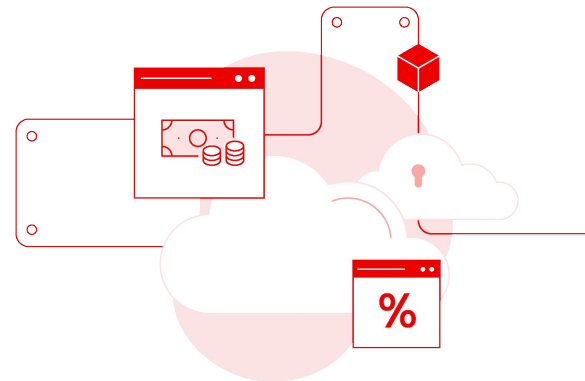Ansible Automation Platform

Virtualization Platform
OpenShift (OVE, OKE, OCP, OPP)

Red Hat's broad ecosystem of ISV partners integrates with OpenShift to meet your requirements.
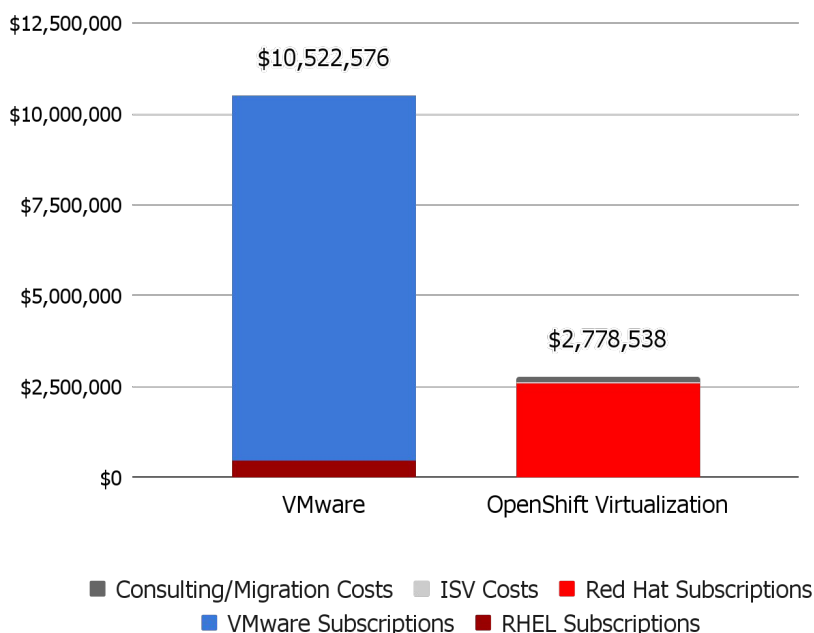
OpenShift Virtualization

OpenShift Virtualization, Advanced Cluster Management, and Ansible Automation Platform work in concert to meet existing virtualization requirements.

Virtualizing on OpenShift can yield substantial cost savings

dubai2 can lower its virtualization costs and benefit from a modern application platform

Three-Year Cost Comparison

$12,500,000

$10,522,576

$10,000,000

$7,500,000

$5,000,000

$2,778,538

$2,500,000

$0

VMware   OpenShift Virtualization

■ Consulting/Migration Costs   ■ ISV Costs   ■ Red Hat Subscriptions
■ VMware Subscriptions   ■ RHEL Subscriptions

In addition to virtualization cost savings, **customers who use OpenShift as an application platform** realize powerful operational benefits, which deliver financial returns to the business:

- Less unplanned downtime, **protecting revenue and reputation**
- Faster application development, **accelerating time-to-market**
- Increased IT productivity, **boosting cost efficiency**

NOTE: Prices are estimated based on preliminary analysis. Red Hat account team must be consulted for actual customer pricing and a more detailed analysis.

Appendix

Key Inputs	Values
VMware Solution	VMware Cloud Foundation (VCF)
Number of ESXi host servers	100
# of CPU sockets per server	2
# of cores per socket	64
# of VMs	1500
# RHEL VDC Hosts	30
% VMs with RHEL Server	250
OpenShift Solution	OpenShift Kubernetes Engine (OKE) Bare Metal
Estate consolidation	25%

For more information or to learn more about your results, please contact your Red Hat account team

Click here to take the quiz again

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