Docker EE: The Enterprise-Ready Container Platform

Reduce IT Costs and Speed Delivery by Modernizing Your Existing Applications

Table of Contents

Executive Summary

Even the most powerful enterprises — from retail to transportation and manufacturing to hospitality — face the threat of disruption.

IT can be the source of disruption and the best defense. But IT resources are spread thin simply supporting the core business. And they have an incredibly hard job: deliver solutions to support the business today without "lock-in" to dead-end technologies.

Large enterprises building containers on Docker Enterprise Edition (EE) are often cutting the cost of maintaining existing applications by more than 40%.

As a result, they create budget room to invest in delivering new value to customers and employees. With Docker, containers are self-funding even as they boost competitiveness. And because Docker EE was designed with "choice" in mind, value today doesn't mean limitations tomorrow.

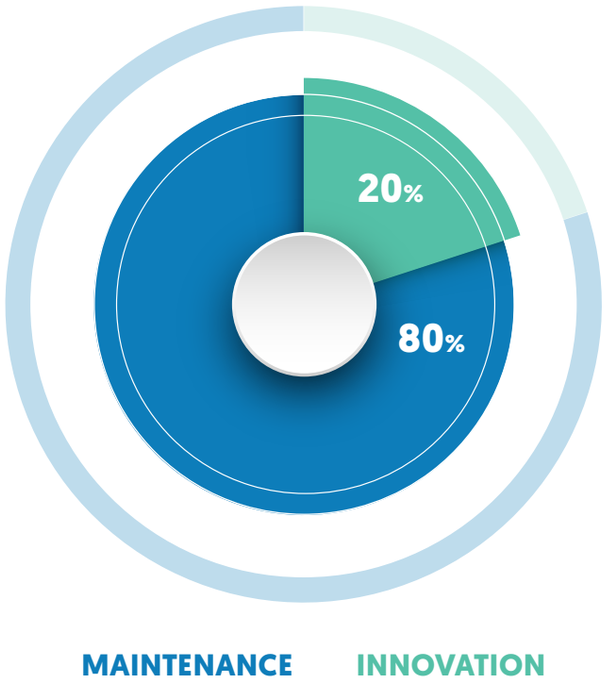
Docker extends container technology into an enterprise-ready container platform by adding features like security and governance enterprises require, combined with best-practice services to help teams deliver value quarter after quarter.

This eBook highlights how Docker helps global organizations modernize their application infrastructures, saving these companies millions of dollars while ensuring a new level of agility to thrive and respond to threats.

IT Drives Competitiveness, but Only When We Unlock Its Potential

We depend on IT to deliver value to customers and efficiency to employees. But IT budgets are stretched more than ever and the top cause is skyrocketing complexity. Today's enterprises, on average, run applications on 8 different platforms* — public clouds, private clouds, data centers, etc. And those applications need to be written, tested, documented, and deployed differently on each one.

That wastes precious IT resources.



For years, the need for organizations to spend 80+% of their IT budget maintaining legacy applications has drained innovation. And with the rise of more cloud options, the number of target platforms increases and the situation gets worse.

For IT to boost competitiveness, it's time for a new approach.

*Sources: IDC "The Cost of Retaining Aging IT Infrastructure", RightScale 2017 State of the Cloud Report

Current IT Challenges:

MULTI-CLOUD COMPLEXITY

Moving applications to multiple clouds increases coding, testing, and administration. And writing for a single cloud means "lock-in" that limits flexibility.

DATA CENTER INEFFICIENCIES

The average data center is operating at 20% or less CPU utilization. Low utilization unnecessarily results in more servers, increasing CapEx spending on equipment and OpEx spending to support it.

INCREASED SECURITY THREATS

They say, "Good security is expensive, but not as expensive as bad security." Yesterday's applications were not designed for today's threats, putting company and customer data at risk.

Containers Cut IT Costs While Speeding Delivery and Agility

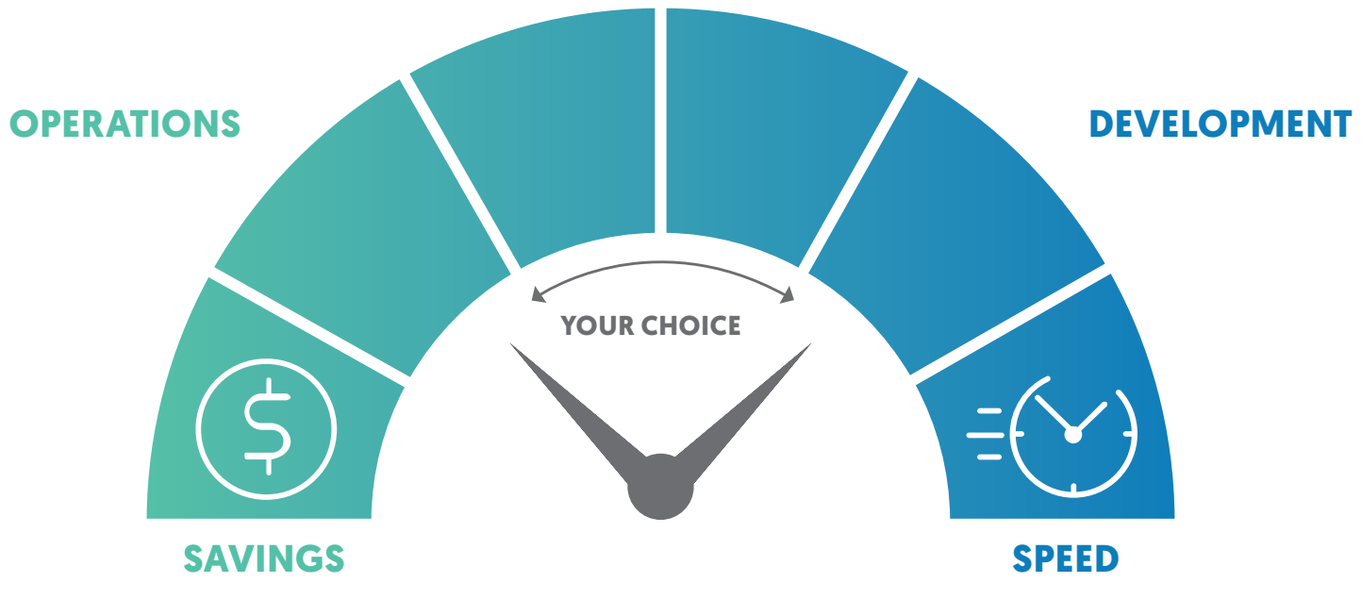
Containers are the “fastest growing cloud-enabling technology”* because they speed the delivery of software and cut the cost of operating it. Writing software is faster. Deploying it is easier — in your data center or your preferred cloud. And running it requires less hardware and support.

Although container technology has existed for decades, Docker makes it work for the enterprise with core features enterprises require in a container platform and best-practice services to ensure success.

And containers work on both legacy applications and new development. Existing, mission-critical applications can be “containerized,” often with little or no change. The result is instant savings in infrastructure, better security, and reduced labor. And new development happens faster because engineers only target a single platform instead of a variety of servers and clouds. Less code to write. Less testing. Faster delivery.

Docker EE delivers dramatic productivity gains in both operations and development.

Operations teams manage fewer servers and VMs with better tools to respond to challenges like usage spikes. At the same time, development teams deliver applications more quickly. Most customers use these gains to increase speed and competitiveness by more quickly developing and deploying applications to serve customers and employees. You might also choose to reduce costs by redeploying team members to higher-value activities. The key is Docker’s commitment to “choice.” Either way, productivity gains mean IT is in a better position to help the enterprise thrive.



*Source: 451 Research, 2017

Introducing Docker Enterprise Edition

Docker EE: The Container Platform for the Enterprise

Docker Enterprise Edition (EE) is a complete, enterprise-ready platform giving large organizations the power of containers. Our approach is uniquely effective at both modernizing existing applications and supporting new, cutting-edge development.

Only Docker was designed for the rigors and long-term requirements of the enterprise:

CHOICE

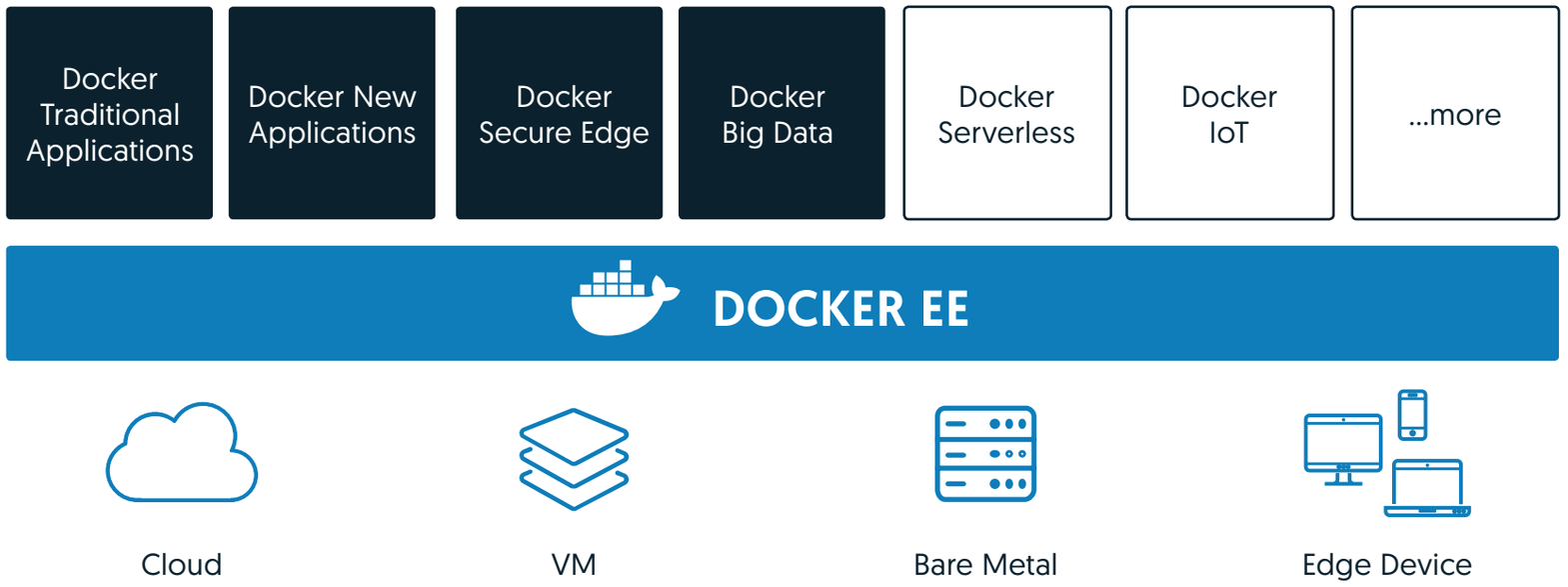
of tools, multiple clouds, and certified third-party components, with no lock-in

SECURITY

to ensure the safety of corporate and customer data

AGILITY

to help IT be more responsive to business priorities



Docker EE is the only enterprise-ready container platform letting IT leaders managing their entire application portfolio — from traditional legacy apps to cutting edge IoT and Big Data apps — and deploy them virtually anywhere.

In addition, Docker offers a suite of proven, tailored services so teams new to containers can build on best-practices developed with hundreds of industry-leading firms.

Docker EE delivers a complete, enterprise-ready platform to support your containerization strategy ... and your business.

Docker EE in Action: MetLife Forecasts 66% Cost Savings with Faster Application Delivery

MetLife

Challenge

Boost innovation in a 150-year old insurance leader by reducing the cost of running 1,000s of existing applications.

Solution

Docker Enterprise Edition to run existing applications in containers — Leverage the "Modernize Traditional Applications" (MTA) approach.

Total Cost Savings Forecast

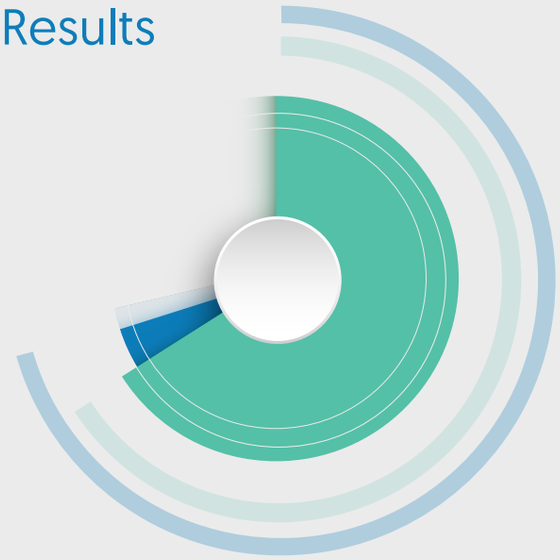
~600
Applications

-70% VMS + **-67%** Cores + **10x** Average CPU utilization = **-66%** Total Cost of Ownership

"DOCKER ENTERPRISE EDITION CREATES A SELF-FUNDING MODEL TO FUEL CHANGE AND INNOVATION AT SCALE."

AARON ADES
DIRECTOR OF PLATFORM ENGINEERING, AT METLIFE

Results



66% cost reduction (TCO)

70%+ virtual machine (VM) reduction

10X increase in CPU utilization

Faster migration to the cloud

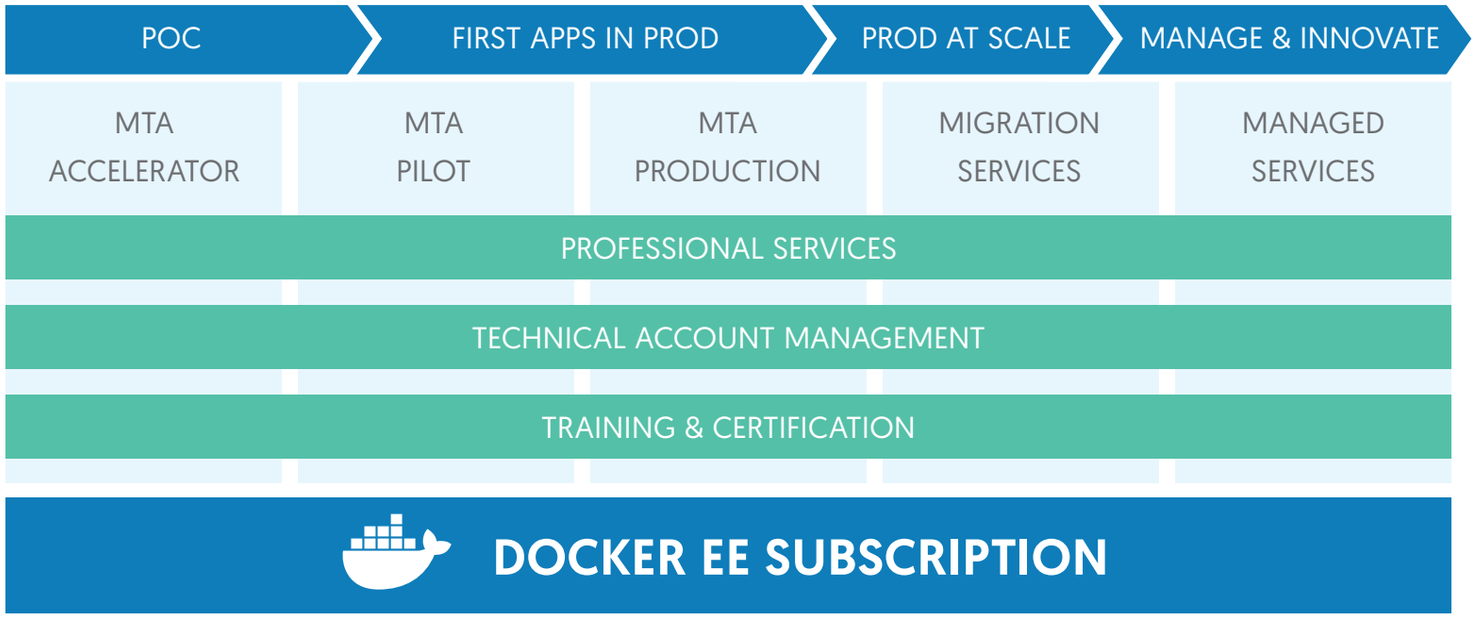
3X improvement in application delivery time

Field-tested Service Solutions to Modernize Traditional Applications (MTA)

The fastest path to cutting operational costs and gaining agility with containers is to start with your existing applications. Docker has named this approach “Modernize Traditional Applications” (MTA). With Docker EE and our proven MTA solutions, you run existing mission-critical applications — from employee applications to customer-facing service portals to eCommerce — in a less-expensive, secure, and flexible way.

Our Professional Services team supports your MTA journey with field-tested solutions delivering measurable outcomes:

- **Solution Architects** offer guidance on infrastructure, application design, and best practices
- **Technical Account Managers** become trusted technical advisors — and your link directly to Docker Engineering
- **Training and Certification** provide foundational product knowledge and best-practice skills



MTA Solutions

Our solutions are designed to enable your success at each stage in the MTA journey.

MTA ACCELERATOR

Application containerization and Docker EE platform proof-of-concept and proof-of-value.

MTA PILOT

Build out, integration and operationalization of a Docker EE pre-production development cluster including containerization and deployment of your first applications.

MTA PRODUCTION

Run Docker EE in a production-ready cluster and deploy your first containerized applications to end users. Provides the foundation to onboard applications at scale.

MIGRATION SERVICES

Partner-provided services to onboard applications at “factory scale”.

MANAGED SERVICES

Partner-provided services providing a Docker EE based Containers-as-a-Service platform with defined service and operational-level agreements.

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