

HOW CONTAINERS DRIVE APPLICATION MODERNIZATION IN THE PUBLIC SECTOR

PUBLIC SECTOR IT MODERNIZATION: CURRENT STATE

With over \$7B+ technical debt, public sector organizations are being driven to modernize their IT by:



LEGISLATION



GOVERNMENT OFFICIALS



CITIZENS

who are demanding:



RESPONSIVENESS



QUALITY OF SERVICES



TRANSPARENCY

The public sector uses virtual machines widely, but suffers from:



wasted spending



out-of-control development timelines



costly, inefficient use of IT resources



security issues from fragmented systems

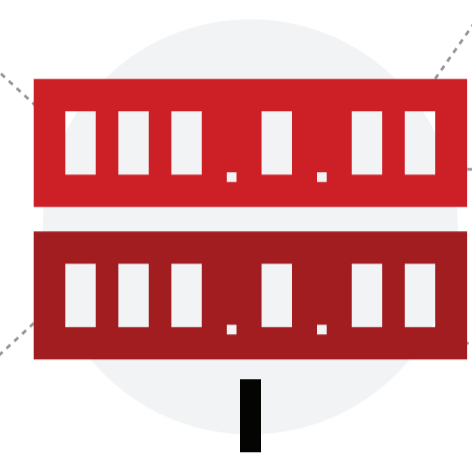
HOW CONTAINERS HELP

Container environments offer the public sector:

easy development and movement of applications across environments



right-sized, efficient use of IT resources



the ability to run many applications on the same host at once



ability to move workloads anywhere to suit their needs



built-in security and assurance across the cluster

#1

CONTAINER ADOPTION RANKED #1 AMONG 44% IT PUBLIC SECTOR LEADERS (16% INCREASE FROM 2017)

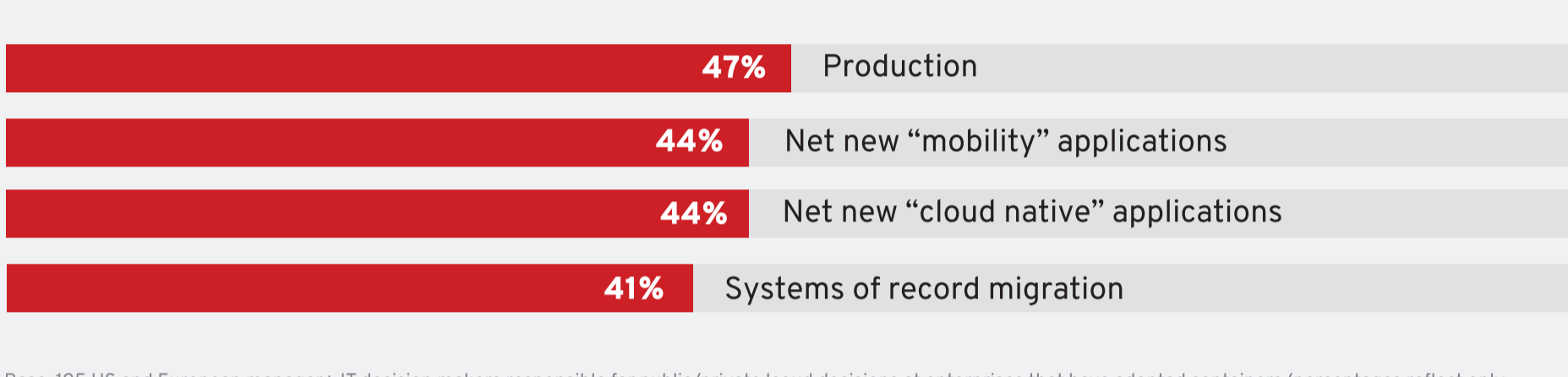
2X-3X

A SINGLE CONTAINERIZED SERVER CAN HAVE 2X - 3X THE NUMBER OF APPLICATIONS THAN A NORMAL VM



SOME U.S. STATES (LIKE NC) HAVE CREATED INNOVATION CENTERS FOCUSED ON ELEVATING PUBLIC IT (LIKE WITH CONTAINER PLATFORMS)

For which of the following do IT decision makers use containers today?

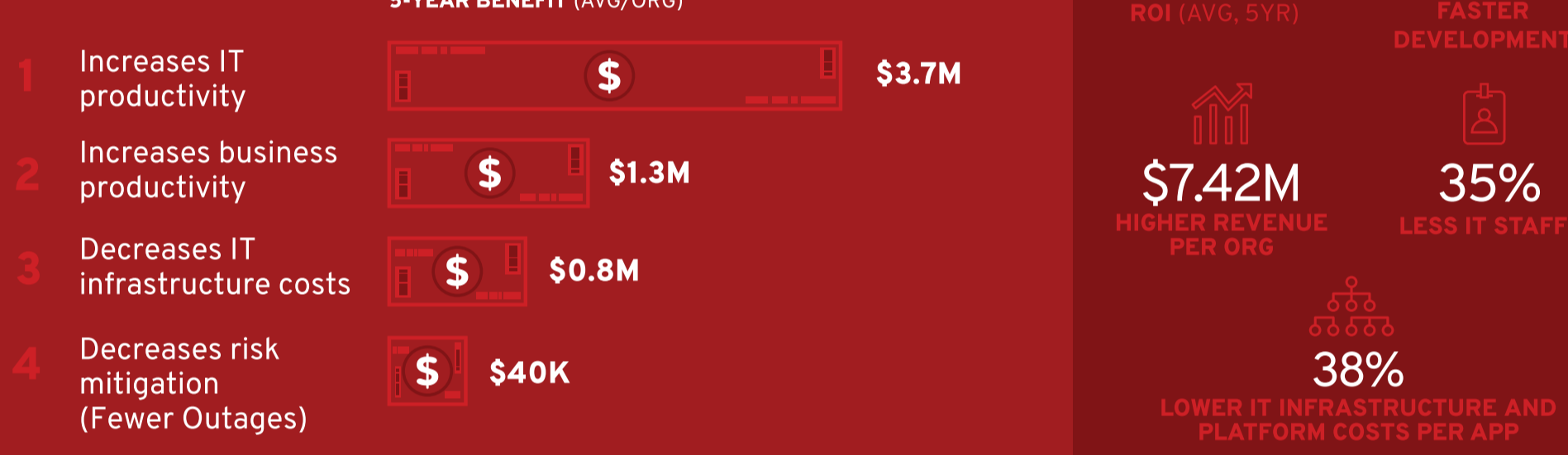


Base: 195 US and European manager+ IT decision makers responsible for public/private cloud decisions at enterprises that have adopted containers (percentages reflect only respondents who have deployed each type of application) Source: A commissioned study conducted by Forrester Consulting on behalf of Dell EMC, Intel, and Red Hat, January 2017

HOW ARE CONTAINERS FUELING TRANSFORMATION IN THE PUBLIC SECTOR?

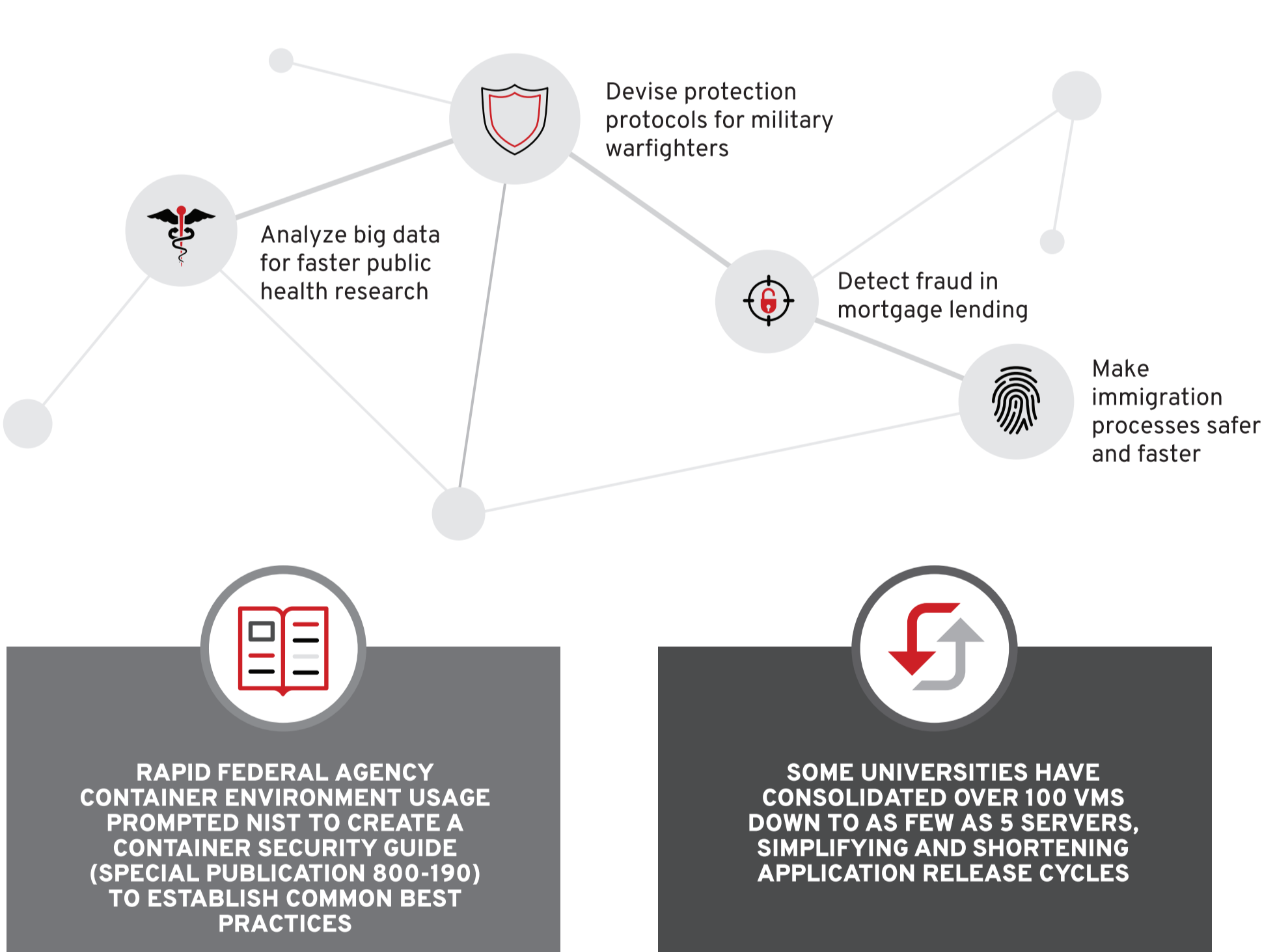
- Legacy environments are transformed faster, and future-proof
- Faster innovation and app design
- Organizations are able to be more responsive, while lowering cost
- Agency development and operations teams are more in sync and more productive

Containers achieve government application development agility, scalability and quality*



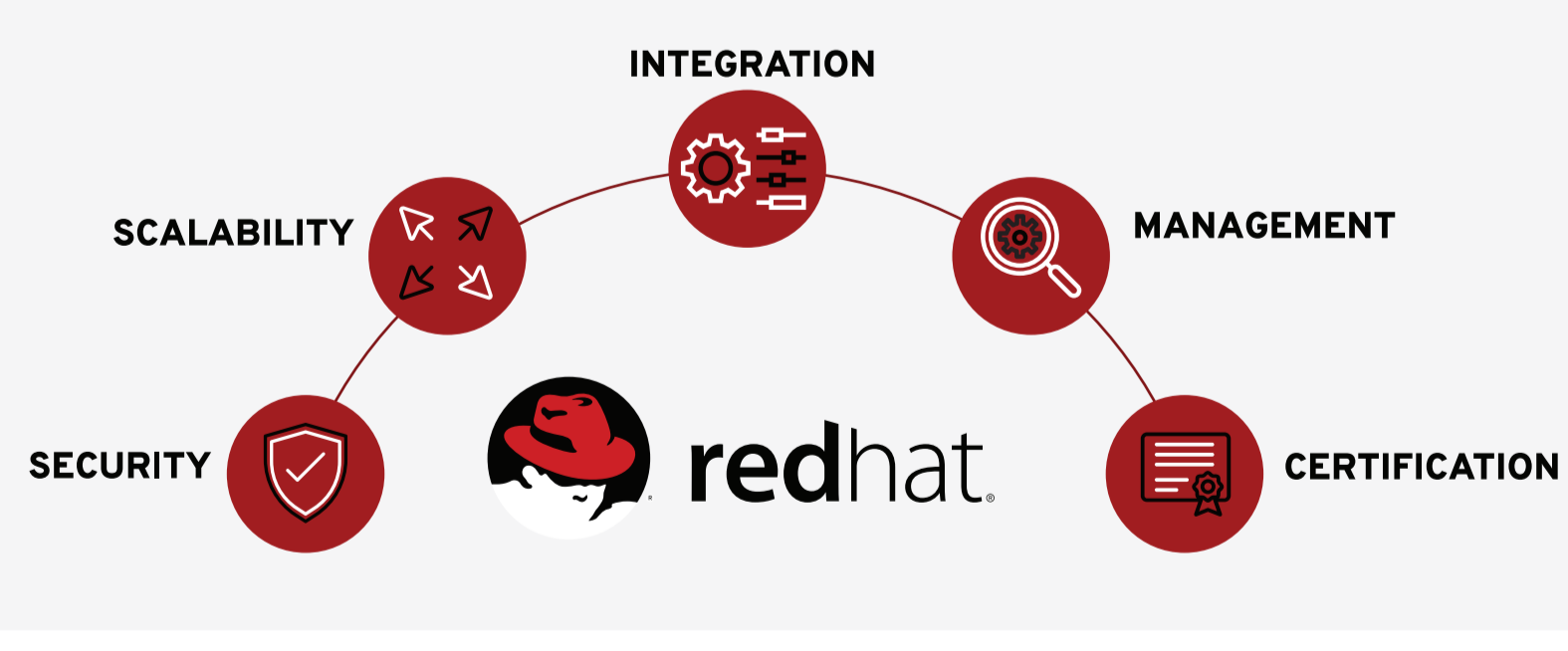
THE GOVERNMENT OF BRITISH COLUMBIA, CANADA, REDUCED SECURE APPLICATION DEPLOYMENT FROM MONTHS DOWN TO HOURS USING RED HAT OPENSIFT

PUBLIC SECTOR USES OF CONTAINER PLATFORMS TODAY



WHY RED HAT OPENSIFT FOR PUBLIC SECTOR?

- Container environments are easier, better supported, and more secure
- Supports the widest array of environments and mixed clusters
- Second largest contributor to the Docker and Kubernetes codebases
- Alignment and partnership with Microsoft solutions and development
- Smooths the path to container environment adoption
- Defining critical government enterprise use of Kubernetes and Docker

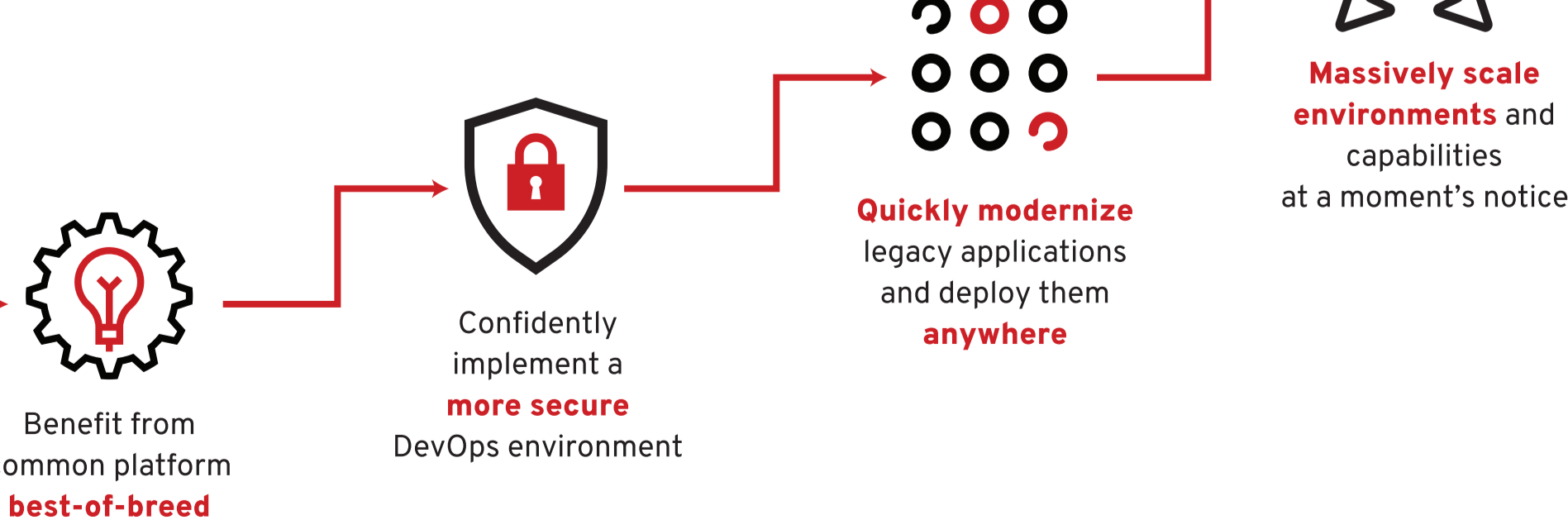


OpenShift-friendly container code frameworks and workload solutions include:

- 3Scale APICast
- Java
- Jenkins
- mongoDB
- node
- python
- Ruby
- Red Hat JBoss A-MQ
- 6fusion
- AviNetworks
- Cisco
- Click2Cloud
- EnterpriseDB
- Confluent
- CloudBees
- Cloudmunch
- CoScale
- Fujitsu Limited
- MongoDB
- Databricks
- GitLab
- Dynatrace
- F5
- Juniper Networks
- Atlassian
- Sysdig
- Navops by Univa
- Hitachi, Ltd.
- Iron.io
- Nuage Networks from Nokia
- Sonatype
- Roambee/T-Systems
- Pachyderm
- NetApp
- NGINX
- Tremolo Security, Inc.
- Elastic
- NVIDIA

Kubernetes Docker

Using Red Hat OpenShift container platform, government agencies and departments can:



*Source: <https://www.redhat.com/en/resources/The-Business-Value-of-Red-Hat-OpenShift>

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