

How Containers Drive Application Modernization in the Public Sector

Containers are fueling transformation and ensuring application development agility, scalability and quality in public sector agencies.



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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

who are demanding:





RESPONSIVENESS

QUALITY OF SERVICES



TRANSPARENCY

CITIZENS

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



wasted spending



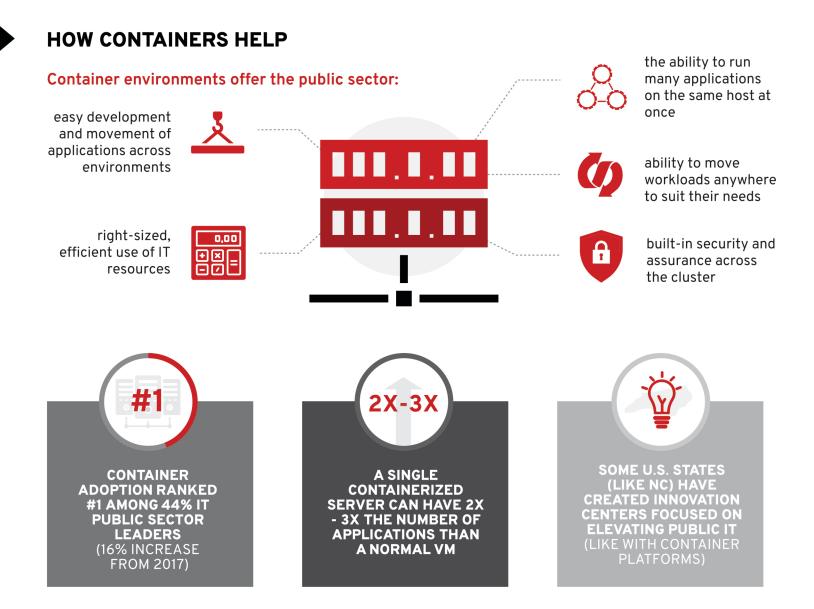
out-of-control development timelines



costly, inefficient use of IT resources



security issues from fragmented systems



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

47% Production
44% Net new "mobility" applications
44% Net new "cloud native" applications
41% Systems of record migration

Base: 195 US and European manager+ IT decision makers responsible for public/private lcoud 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-proofed



Faster innovation and app design

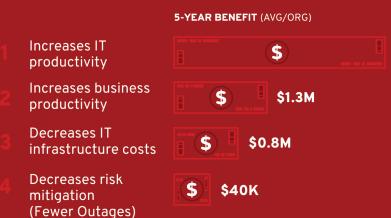
Organizations are able to be **more** responsive, while lowering cost



\$3.7M

Agency development and operations teams are **more in sync** and **more productive**

Containers achieve government application development agility, scalability and quality*





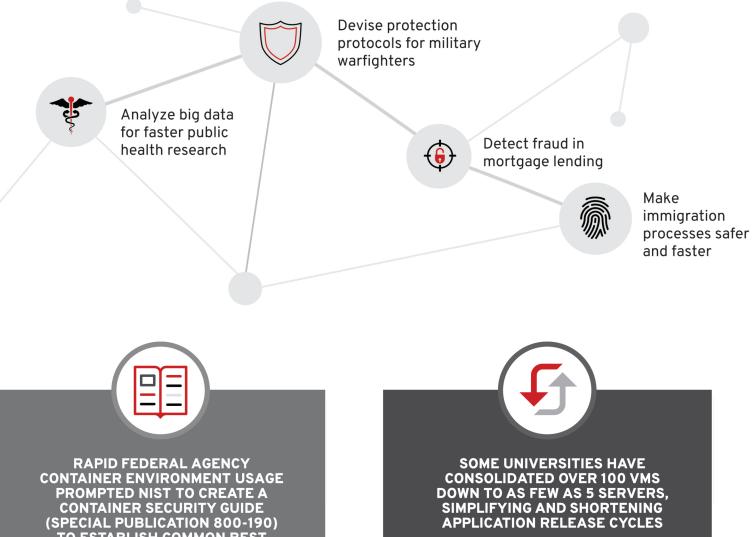


THE GOVERNMENT OF BRITISH COLUMBIA, CANADA, REDUCED SECURE APPLICATION DEPLOYMENT FROM MONTHS DOWN TO HOURS USING RED HAT OPENSHIFT





PUBLIC SECTOR USES OF CONTAINER PLATFORMS TODAY



TO ESTABLISH COMMON BEST PRACTICES

WHY RED HAT OPENSHIFT FOR PUBLIC SECTOR?



Container environments are easier, better supported, and more secure



Second largest contributor to the Docker and Kubernetes codebases



Smooths the path to container environment adoption



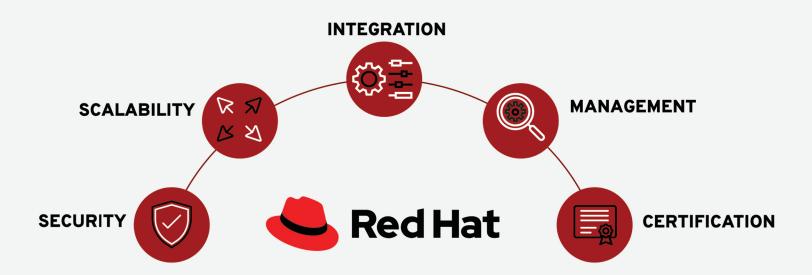
Supports the widest array of environments and mixed clusters



Alignment and partnership with Microsoft solutions and development



Defining critical government enterprise use of Kubernetes and Docker



OpenShift-friendly container code frameworks and workload solutions include:

3Scale APICast	🕅 Java 🆓 Jenkins	♥ mongoD	B. 🗤 🕹 🖉 🖉 P	ython 🛛 🔂 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:					R 2
				M	assively scale

Massively scale environments and capabilities at a moment's notice

Benefit from common platform best-of-breed tools Confidently implement a **more secure** DevOps environment

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Quickly modernize legacy applications and deploy them anywhere

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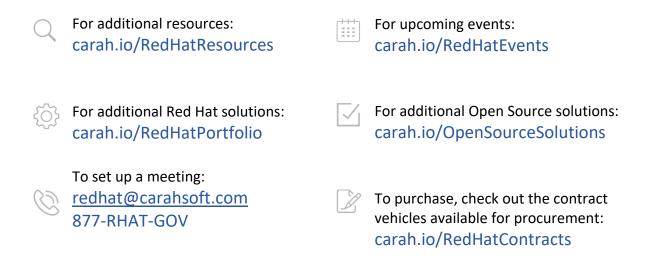
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*Source: https://www.redhat.com/en/resources/The-Business-Value-of-Red-Hat-OpenShift



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