

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

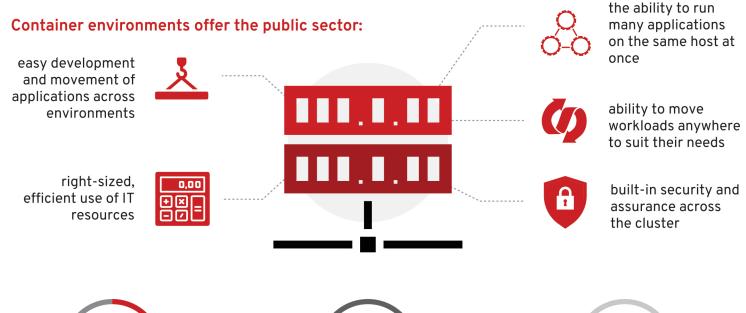


costly, inefficient use of IT resources



security issues from fragmented systems

HOW CONTAINERS HELP









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

47%	Production		
44% N	let new "mobility" applications		
44% N	let 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



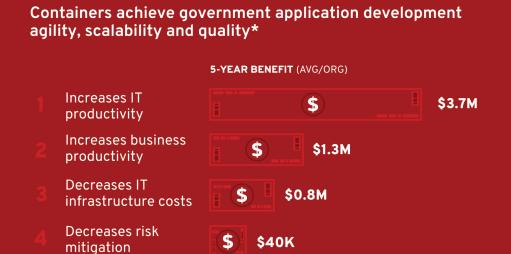
Faster innovation and app design

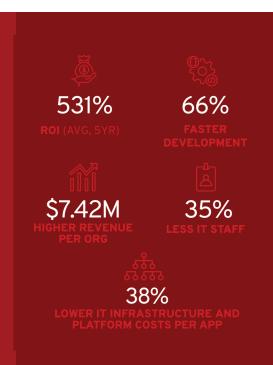


Organizations are able to be more responsive, while lowering cost



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





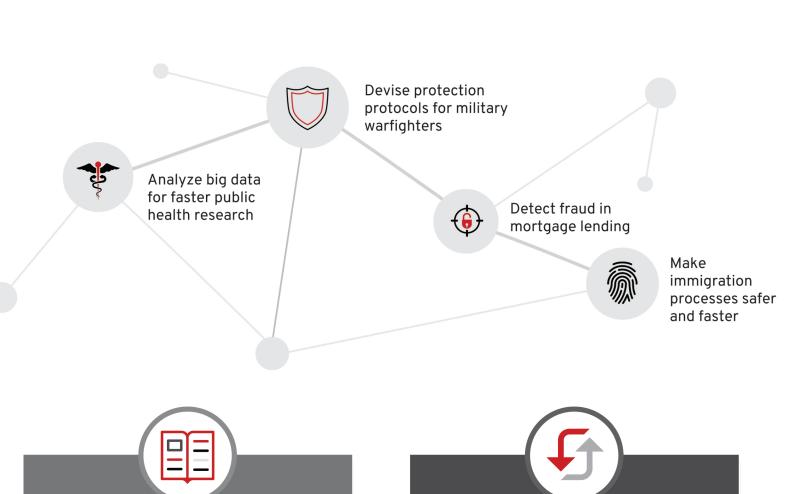


(Fewer Outages)

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



RAPID FEDERAL AGENCY
CONTAINER ENVIRONMENT USAGE
PROMPTED NIST TO CREATE A
CONTAINER SECURITY GUIDE
(SPECIAL PUBLICATION 800-190)
TO ESTABLISH COMMON BEST
PRACTICES



WHY RED HAT OPENSHIFT 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



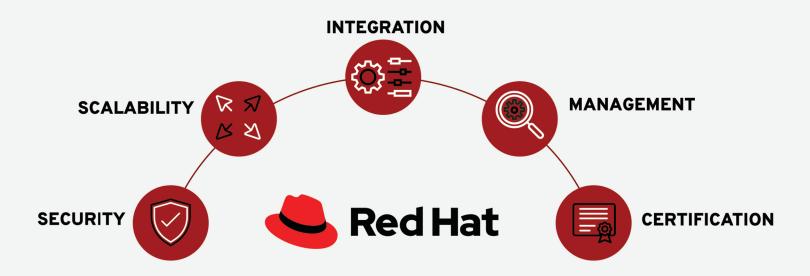
Alignment and partnership with Microsoft solutions and development



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











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.	lron.io	Nuage Networks from Nokia	Sonatype	Roambee/T-Systems	
Pachyderm	NetApp	NGINX	Tremolo Security, Inc.	Elastic	NVIDIA	

Kubernetes Docker

