



# Insights Along the Journey of IT Automation and Modernization

County Government Webinar




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## Insights Along the Journey of IT Automation and Application Modernization

Insights on the cost savings of automating and modernizing

Francois Dunoyer  
Sales Leader for State, Local and Academic



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**Joseph MacLennan**

Senior Solution Architect, RHCSA, Public Sector



# What we'll be discussing today

1. Business benefits of of automation and modernization
2. How it can address the larger issues facing your organization
3. Red Hat in Action: examples working with local counties

# Outcomes from...

## Automation



Increased employee resources and efficiencies, allowing them to do more faster

## Application Modernization



Move to cloud-native applications to meet new business requirements in days or weeks, instead of months or years.

## Lead To...



Improved experience for end users and constituents

# Automation

Insights on the cost savings of automation



# Why automate?

## Coordinated automation reduces inefficiencies

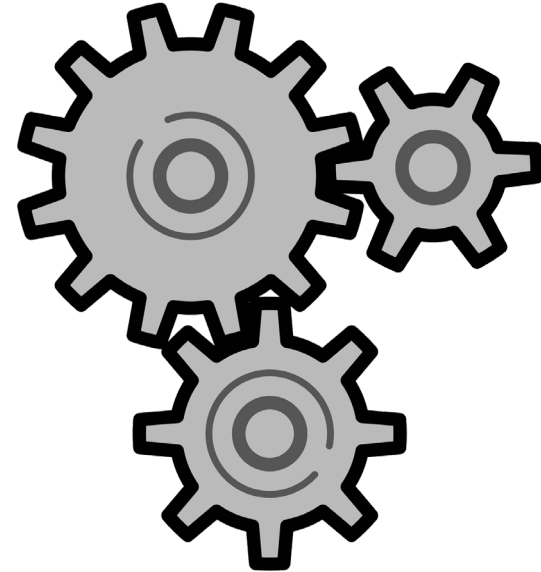
Lower end-to-end cost for production systems

Minimize human errors & downtime

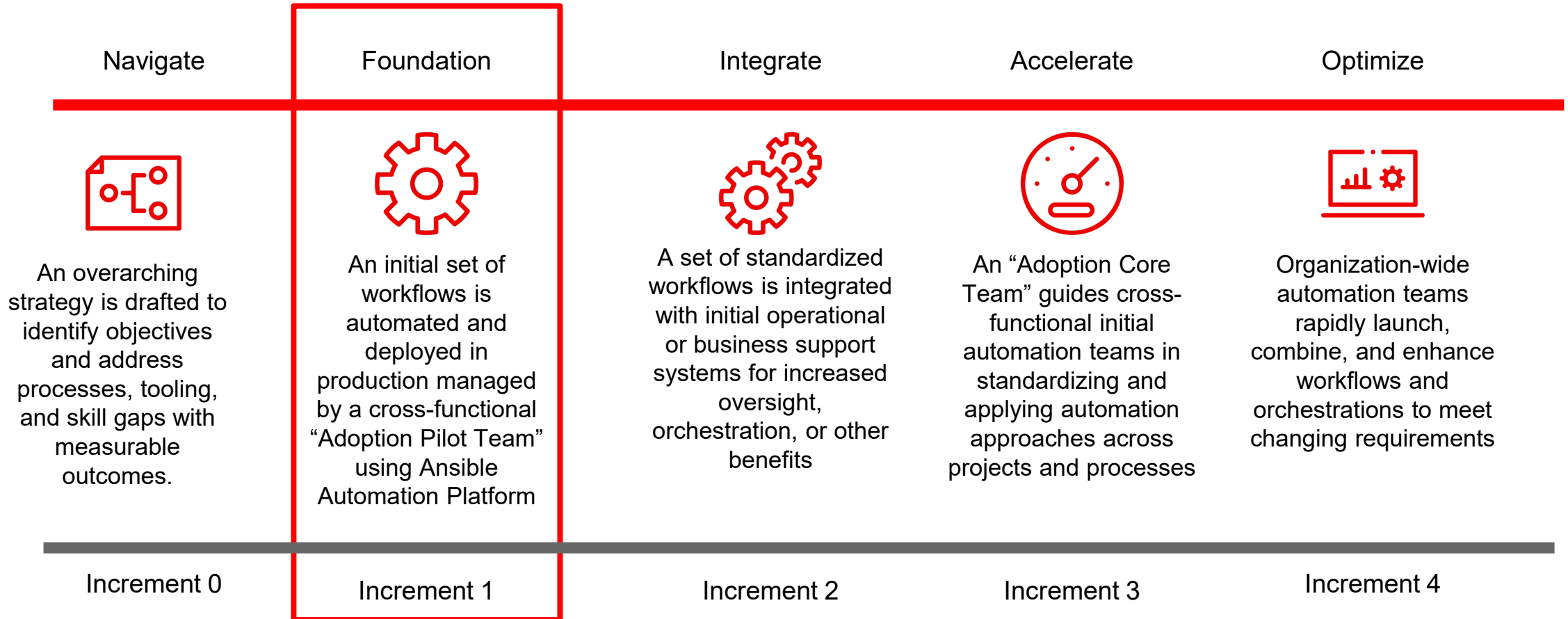
Reduce complexity in IT environment

Eliminate security vulnerabilities

Decrease mean time to repair (MTTR)



# What does the journey look like?







## Improve efficiency

Maximize current resources across your entire IT organization.

## Increase productivity

Accelerate business outcomes and consolidate tools across entire on-premises & hybrid-cloud infrastructure.

## Control risk and expenses

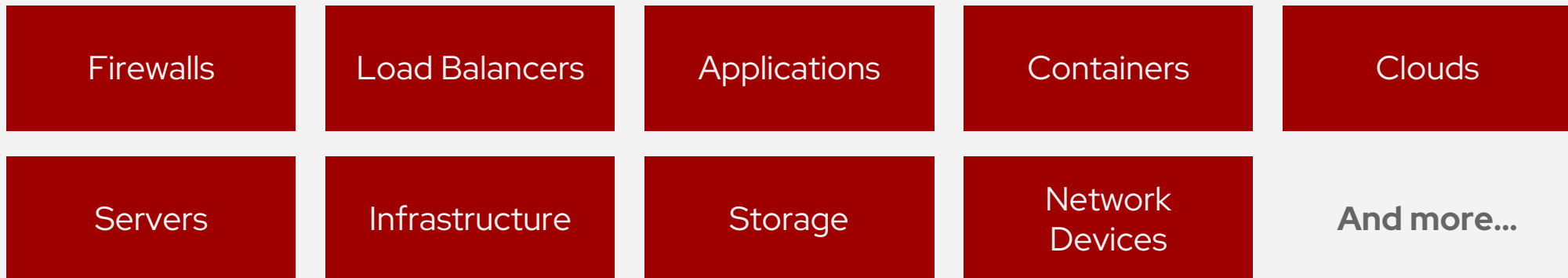
Increase compliance while minimizing errors and reducing the cost of production.

# Deployment and management of automation for your entire IT footprint

## Do this...



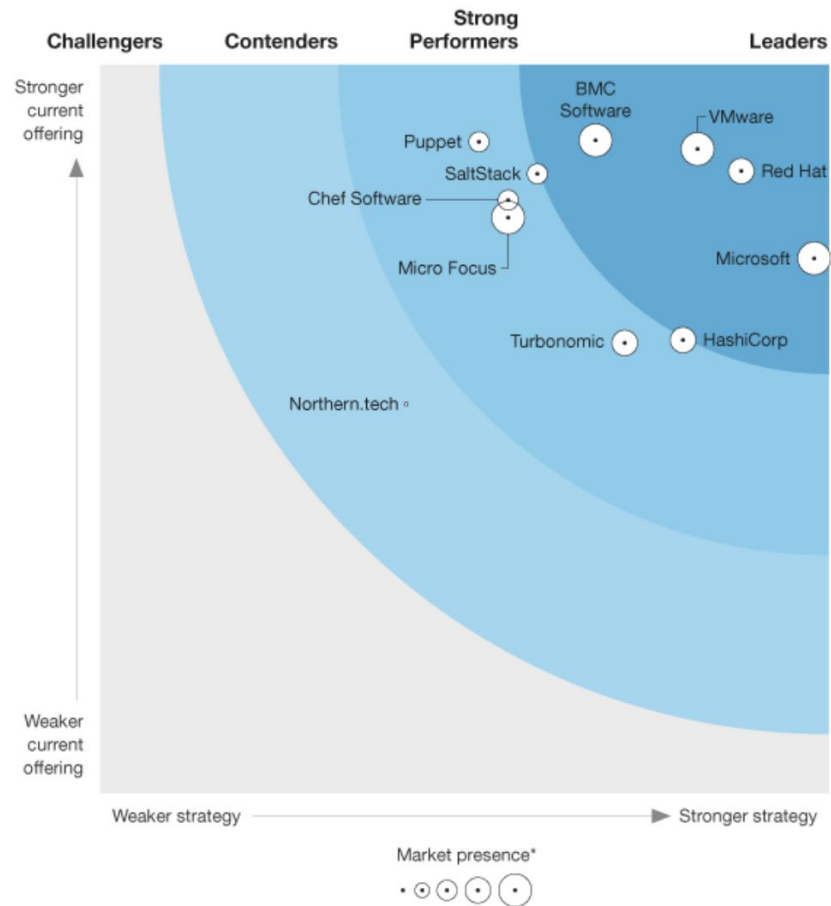
## On these...



## THE FORRESTER WAVE™

Infrastructure Automation Platforms

Q3 2019



\*A gray bubble indicates a nonparticipating vendor.

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## Red Hat named a Leader in The Forrester Wave (™)

- “Reference customers said they were replacing other tools mentioned in this Forrester Wave with Ansible and praised the solution’s ability to bridge operations and development.”
- Received highest possible score in the criteria of planned enhancements, vision, consulting, training and support, community support, and market approach.
- “Red Hat’s solution is best for customers that want a holistic infrastructure automation solution and could stand to rationalize a few unneeded tools out of their portfolios.”

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# Red Hat in Action #1

Outcomes for public sector customers



# Automation for Collaboration & Emergency Operations



## Challenge

Like many governments worldwide, the City and County of Denver, Colorado, had to act quickly to respond to the COVID-19 pandemic.

To support more than 15,000 employees working from home, the government sought to adapt its new collaboration tool, Microsoft Teams.

## Solution

Using automation, the City and County of Denver enabled a remote workforce literally over the weekend. The city decided to use Red Hat Ansible Automation Platform to [automate provisioning](#), [application deployment](#), and [configuration management](#) for its Microsoft Teams deployment. Denver previously adopted Ansible Automation Platform and was creating playbooks, but the pandemic presented an opportunity to use it to solve a critical production need.

## Benefits

- Scaled to accommodate 514% increase in Microsoft Teams use and remote work
- Created COVID-19 virtual emergency operations center in days
- Established foundation for lean work approach

Previously, it took Denver 20 minutes to manually create an individual Team, but with Ansible Automation Platform the same task takes less than one minute. With more than 1,300 Teams created, Denver has saved 372 work hours just by automating one of many tasks.

# Application Modernization

Insights on the business outcomes of application modernization



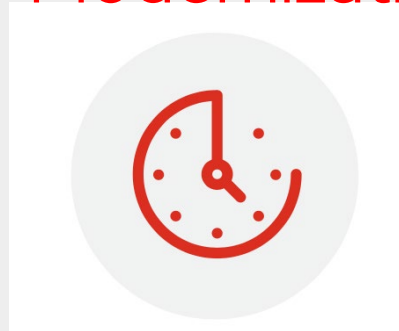
# Outcomes from...

## Automation



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## Application Modernization



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## Lead To...

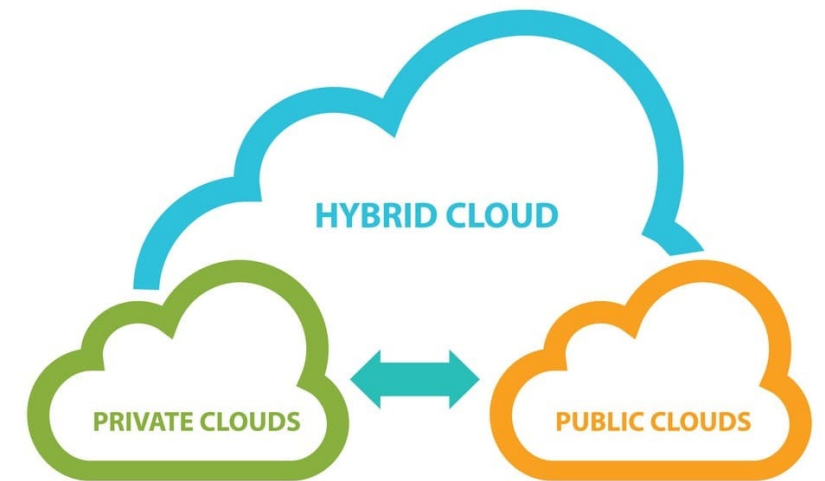


Improved experience for citizens and employees

# Application Modernization – What Problem Does It Solve?

As Public Sector organizations are shifting towards cloud computing, CIO's are asking themselves 2 key questions:

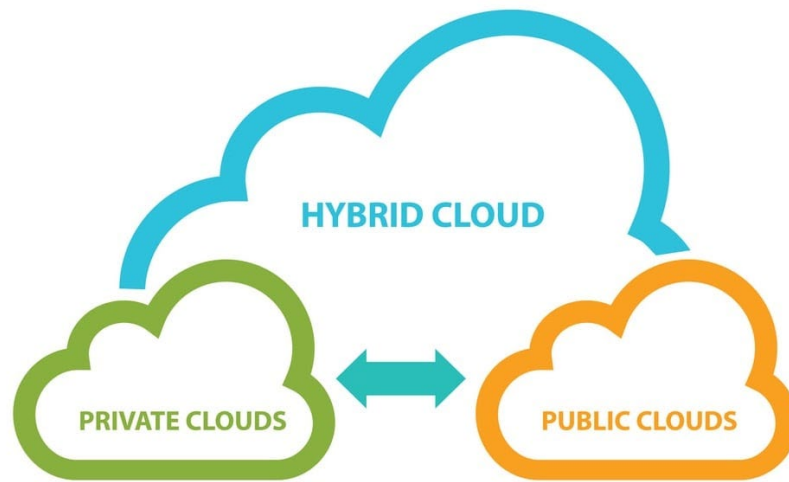
1. How can my organization develop, deploy and scale applications in a cloud environment while delivering the right end-user experience
2. How can we effectively manage these applications across the multiple environments that make up my IT landscape – public cloud, private cloud & on-premises





# Hybrid Cloud - What is that all about and what does it solve?

Hybrid cloud allows agencies and organizations the flexibility to balance the need to keep some workloads on premises or in a private cloud while taking advantage of the speed and flexibility of the public cloud.



## Lead To...



Improved experience for end users and constituents

# OpenShift – The Integrated App Modernization Platform

Service Mesh	App-Services	DB-Services
CI/CD	DNS	Authentication
Monitoring	Kubernetes	Automation
Logging	Registry	Security
Compute	Storage	Network

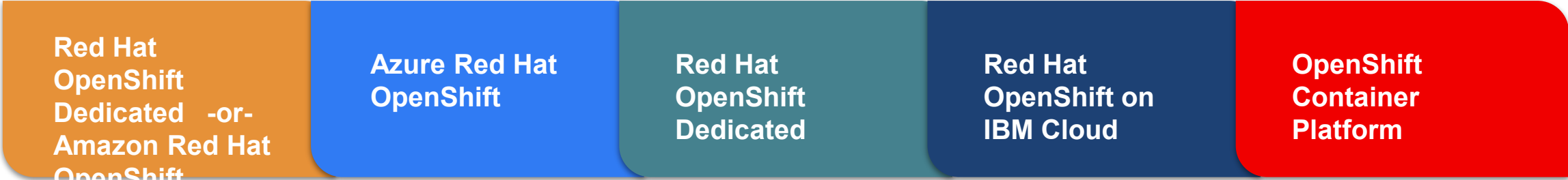
OpenShift allows your technology teams to focus on building business value, not focusing on building technology platforms

# OpenShift offers the broadest set of hybrid cloud services

Developer Experience

Productivity

Enterprise Readiness



Managed By Red Hat  
Jointly supported by AWS  
and Red Hat  
or  
OCP Customer Managed

Jointly Engineered,  
Managed & supported by  
Microsoft  
and Red Hat  
or  
OCP Customer Managed

Managed By Red Hat  
or  
OCP Customer Managed

Managed by IBM  
Supported by IBM and  
Red Hat

OCP Customer Managed

# Develop at the Speed of Light

Get code running faster, more efficiently, and more securely



## Developer Onboarding in Minutes, Not Weeks

User browser based **Code Ready Workspaces** to make developers faster and ensure code is secure.

## See Your Changes Faster

**OpenShift Pipelines** leverage Kubernetes primitives resulting in faster builds and less overhead when pushing code.

## Run on demand with Serverless

Scale from zero to meet demand based on common events with **OpenShift Serverless**.

## Debug Microservices Quickly

Manage traffic, trace, and visualize communication between microservices components with **OpenShift Service Mesh**.

# The Forrester Wave™: Multicloud Container Development Platforms



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# Red Hat in Action #2

Outcomes for public sector customers



# Local government services department



## Challenge

A large fire on the U.S. west coast caused anxious residents to bombard the local government service department's website resulting in the following:

- 250% increase in website volume (12 hours after the fire started)
- 450% increase in website volume (13 hours after the fire started) after the local county sheriff advised residents to visit the county's website for updates

## Solution

Deployed Red Hat® OpenShift®, and their team monitored the central processing unit (CPU) and memory load

## Why Red Hat

Automatically scale site capacity to handle surge loads

## Results

- The team was able to proactively increase CPU and memory resources
- Delivered a seamless user experience.

## Products and services

Red Hat OpenShift

Red Hat Enterprise Linux

# Red Hat in Action #3

Outcomes for public sector customers





# Large Police Department: Automation Adoption



## Challenge

Lack of reliable and secure systems. This was making it difficult to deploy additional sites.

## Solution

After implementing Ansible Automation Adoption Journey with Training for their team their team was able to reduced to **3 hours** from **6 weeks**

## Benefits

- Reduced training
- Increased reliability and security
- Enabled repeatable system deployments



“We can rapidly develop prototype applications and get digital services to citizens faster.”

Jack Harris  
Chief Technology Officer,  
Michigan Department of  
Technology, Management, and  
Budget (DTMB)

### Challenge

Sought to improve development, delivery, and reliability for agencies’ digital services by migrating to a container-based infrastructure.

### Solution

Deployed Red Hat® OpenShift®, supported by Red Hat storage and automation solutions, to assist its digital transformation efforts.

### Why Red Hat

“Red Hat gives us the freedom of open source with the enterprise support and security we need.” Jack Harris, CTO, Michigan DTMB

### Results

- Reduced time to market for new, digital data services
- Improved infrastructure security with consistent container images
- Created cloud-ready infrastructure foundation
- Adopted collaborative work approach to improve efficiency

### Products and services

Red Hat OpenShift  
Red Hat Quay

Red Hat Ansible® Automation Platform  
Red Hat Consulting

# Closing: The Power of Open Source



# Why Red Hat? The Power of Open Source

Leveraging the power of community, freedom from vendor lock-in, and a focus on interoperability

## CONTROL

You control how *and* when you grow.

Red Hat® subscriptions give customers great freedom. Choose from multiple supported versions, and update on your schedule.

## CHOICE

Open source standards make our products portable and interoperable.

We work with everyone—partners and competitors alike—to make sure our technology works when and where you need it.

## SECURITY

When development is distributed, the risk of failure goes down.

Red Hat takes responsibility for open source technology by testing, hardening, securing, and supporting it, every customer shares the same level of assurance.

## COLLABORATION

Open source communities are the source of our strength. But we can't just take—we must participate and pay it back in code, commitment, and connections.



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Thank you for viewing this Red Hat webinar! Carahsoft is the Master GSA and SLSA Dealer and Distributor for Red Hat Enterprise Open Source solutions available via GSA, SLSA, ITES-SW2, The Quilt and other contract vehicles.

To learn how to take the next step toward acquiring Red Hat's solutions, please check out the following resources and information:



For additional resources:

[carah.io/redhatsled](https://carah.io/redhatsled)



For additional Red Hat solutions:

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For additional Open Source solutions:

[carah.io/OpenSourceSolutions](https://carah.io/OpenSourceSolutions)



To set up a meeting:

[redhat@carahsoft.com](mailto:redhat@carahsoft.com) or 877-RHAT-GOV