Government IT Optimization

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Agencies Need to Optimize







Faster IT Optimization



┅┍

Connect applications,

processes, data, devices



Cloud

reduce costs and development time

Increase flexibility,



Automate processes,

shift to shared services, self-service, web, mobile apps



Security Manage and enforce security policies,

access control, and encryption

Optimize the Technology Stack

Network

Automation

Workload

Virtualization

Software-defined

Storage

Standard Operating

Environment

Budget limitations

Critical Obstacles



Skills

shortage

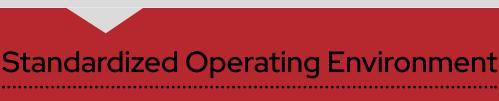
Data

Security

concerns







management

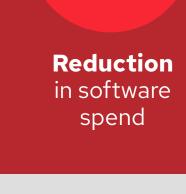
reduces cost and enhances security. **Benefits**

One operating system:

supports reusable,

repeatable processes,

Simplifies the environment,



aws

■ Reduce complexity → common environments, tools, services

Less

unplanned

downtime

■ Consolidate or distribute

■ Physical → Virtual → Cloud

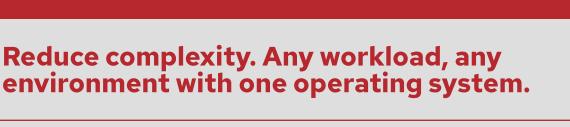
CURRENT STATE:

Aggregate or cloud

Faster deployment of new

apps and features

Windows Azure



Why Red Hat?

Reduction

in server

hardware spend

Red Hat

Linux 8

Enterprise

Operating flexibility (bare metal, virtual, private, public, hybrid) Breaks dependence on costly proprietary solutions

Used in the toughest IT operating environments: Desktop,

Cloud-ready, optimized for hybrid and DevOps environments

Google Cloud

Workstation, and Server variants

Network Automation

CURRENT STATE:

Need to manage complex

currently automated

environments more efficiently

■ 48% report lack of skilled professionals

■ 86% say automation is very important

Enhance

security posture

■ 23% of network components

Benefits

networks

Repeatable processes to:

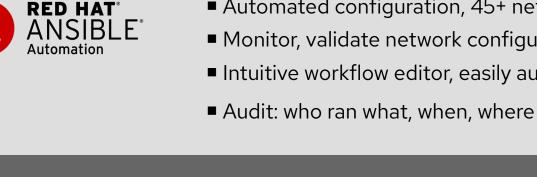
reduce outages, and improve

operations of multi-vendor

Validate configurations,

Reduce **Improve** unplanned network productivity, eliminate repetitive tasks outages

Why Red Hat?

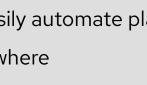


Free up staff capacity, speed service delivery Automated configuration, 45+ network platforms

Ensure

compliance

for cloud strategy



CURRENT STATE:

development

deployment

applications

FUTURE STATE:

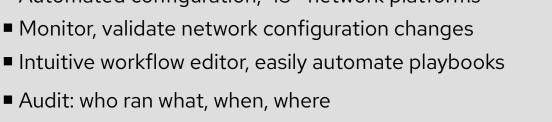
■ **75**% use virtual machines for

Infrastructure and workload

■ 61% use virtual machines for app

■ 52% use virtual machines for critical

virtualization: **60%** → **70%** in 2 years



Reduces infrastructure cost, maximizes resource flexibility, improves any cloud

Growing trend for application

management:

operations

Benefits

20-75%

Reduce

infrastructure

Intelligent workload

Workload Virtualization

development and deployment

cost Exchange Why Red Hat? Integrate anything with open, scalable virtualization

RTUALIZATION

Improve workload performance: SAP, Oracle, Microsoft

140%

Software-Defined Storage **Efficient network** configuration to: Securely scale data storage,

Linux kernel

Benefits



Red Hat

Storage

Cost-efficient

integrate with any application, process, and operating model



Scalable

with demand

5000 VMs

Scale

■ 54% of public cloud apps run on Linux virtual machines

Secure virtualization, hardened hypervisor, security-enhanced

■ Virtualize any Linux or Windows application

Optimize resources, ensure availability

■ 50% say big data is changing processes

CURRENT STATE:

■ **70**% concerned current storage

cannot handle workloads

flexibility: to petabytes and beyond blocks, files, objects, servers, virtual machines,

■ 49% of data stored in public cloud by 2025

clouds, containers

Architectural



10 to 1 ratio

Consolidate

network, compute,

storage

■ 80% of unstructured data stored on software-defined storage by next year

Reduce risk,

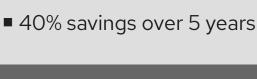
avoid vendor

lock in

Scalable storage management and no vendor Simplify storage management, eliminate storage silos Consistent control plane across all deployment models

Red Hat Linux is the Key to Government IT Optimization







■ Lower cost with commodity x86 hardware



Red Hat

value

Optimize existing

resources so they

continue to add





Integrate old

resources, and

practices

and new systems,







Deliver cloud

services

infrastructure and

