

Six steps to drive innovation with open source

To transform your business, you must get insights from data and quickly deploy new applications that meet employee and customer needs. But a complex storage environment, different coding languages and varied regulatory standards can slow down collaboration and breakthroughs.

Red Hat® open source solutions can bring your data and your teams together and allow developers to work in their preferred language on virtually any data set on practically any storage system. Working within your existing infrastructure, Red Hat can help you bridge systems and drive digital transformation.

1.

Build a common foundation to drive innovation

An open source operating system lets you standardize without ripping and replacing the investments you've already made.

Challenges to innovation	With an open source operating system
Using different operating systems throughout the environment	Your users can continue to work on their preferred operating system while collaborating.
Meeting fluctuating marketplace expectations and network demands	You can easily scale existing applications and roll out new ones on virtual machines, a server or the cloud.
Managing a hybrid cloud environment	Migrating workloads is seamless because open source works across environments.

2.

Deliver the automation that increases productivity

IT tasks are multiplying faster than your team can handle them. Automating the redundant ones lets you roll out new applications and services faster; it also reduces the risk of human error that can lead to security and compliance challenges.

<i>Challenges to automation</i>	<i>With open source automation</i>
Identifying the right tasks to automate in your business	You can access certified content and modules and get started quickly.
Providing visibility for more stakeholders	A centralized dashboard helps manage deployments and creates greater transparency.
Demonstrating the return on investment of automation efforts	You can easily see and share how you're addressing compliance requirements.

3.

Modernize your applications

Kubernetes-based container environments help you develop cloud-native applications faster. With an open source managed environment, you can simplify deployment and focus on innovation.

<i>Challenges to modernization</i>	<i>With open source managed services</i>
Getting the right support	24x7 expert Kubernetes help can reduce downtime.
Finding the time to lead initiatives	Instead of worrying about ongoing platform management, your staff can focus on innovation.
Limiting operational inefficiencies	Managed upgrades, patching, threat monitoring and remediation can keep help your applications up and running.

4.

Leverage the power of data

To increase profitability and develop strategic competitive advantages, your data must be accessed as if it were in a single repository.

<i>Challenges to data optimization</i>	<i>With open source data management</i>
Storing data on premises, on cloud platforms and at the edge	An abstract storage infrastructure brings virtually all your data together.
Delivering a consistent experience for developers	Regardless of where individuals sit, they will have the same access to data.
Having the flexibility to experiment with data	You can deliver self-service sandboxing, allowing data scientists and machine learning (ML) engineers to collaborate on preparing data, testing ML models and training.

5.

Protect your IT environment

Security can't be an add-on, especially since operating in hybrid environments across borders has become the norm. Security must be central to your IT and business strategy.

<i>Challenges to security</i>	<i>With open source security</i>
Addressing changing risks that create new vulnerabilities	You can join a community that is continually sharing solutions to virtually every security challenge.
Integrating security across the environment	Security can be incorporated into practically every phase of your development lifecycle.
Keeping bad actors out	Mandatory access controls help prevent infiltration.

6.

Capitalize on the cloud

The right cloud technology gives your IT infrastructure the power to expand and shrink to support your business.

Challenges to using the cloud	With open source storage infrastructure
Avoiding leaving data siloed because of proprietary technologies	You can bridge platforms to make data and workloads portable.
Speeding up deployment across infrastructures	Cloud deployments can be faster and more reliable because they share a foundation.
Building, deploying and managing applications	Developers can access self-service sandboxing and collaborate on preparing data and testing applications.



Discover the source of your digital transformation

Learn more about how open source solutions from Red Hat can power the standardization and collaboration that foster business agility.

[Download the *Drive innovation with open source solutions* ebook.](#)

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