



Drive innovation with open source solutions

*With agile open source solutions, you can overcome
your biggest IT challenges and transform your business*



TABLE OF CONTENTS

<u>Businesses are built on their IT</u>	3
<u>Start with a strong foundation</u>	4
<u>Automate and free your IT team</u>	5
<u>Modernize your applications</u>	6
<u>Leverage the power of data</u>	7
<u>Protect your IT environment</u>	8
<u>Capitalize on the cloud</u>	9
<u>Discover what you can accomplish with open source</u>	10

TABLE OF CONTENTS

➔ Businesses are built on their IT	3
Start with a strong foundation	4
Automate and free your IT team	5
Modernize your applications	6
Leverage the power of data	7
Protect your IT environment	8
Capitalize on the cloud	9
Discover what you can accomplish with open source	10

84

percent

of businesses are actively pursuing digital transformation initiatives.¹

Businesses are built on their IT

Digital transformation, the integration of digital technology into all areas of business, is a top priority for a vast majority of organizations.

IBM considers open source technology key to overcoming the biggest challenges of digital transformation, including getting insights from data, simplifying IT environments, launching new applications quickly and maintaining business continuity. Because open source is not tied to a proprietary technology, it offers incredible flexibility. Open source can maximize the potential of a hybrid system and work with virtually any data set on practically any storage system.

[Red Hat® open source solutions](#) give you the power you need to modernize your on-cloud, on-premises or hybrid environment at your own pace; automate solutions; develop new capabilities; and deliver on your most pressing goals.

Red Hat solutions integrate easily with your IBM stack. They bring open source to your mission critical workloads and as a result, you can bring in new technology, break down silos and enable teams.

Working with Red Hat tools can help you become more adaptable, enhance security, develop apps faster, scale more quickly, free up your IT team and move to the cloud with ease.

TABLE OF CONTENTS

<u>Businesses are built on their IT</u>	3
➔ <u>Start with a strong foundation</u>	4
<u>Automate and free your IT team</u>	5
<u>Modernize your applications</u>	6
<u>Leverage the power of data</u>	7
<u>Protect your IT environment</u>	8
<u>Capitalize on the cloud</u>	9
<u>Discover what you can accomplish with open source</u>	10

Get the freedom to innovate

Scale as needed.

Move workloads seamlessly.

Develop and manage applications that run virtually anywhere.

Bring your infrastructure together and spark your innovation.

[Learn more.](#)

Start with a strong foundation

IBM has worked with environments that are a mix of hardware, tools and operating systems—and we've seen how this patchwork setup hampers productivity and requires time-intensive monitoring. To maximize your technical infrastructure and workforce, standardization is key. With a standardized operating environment, you can modernize IT infrastructure and focus on innovation.

Standardization can seem intimidating and expensive. But Red Hat lets you standardize without ripping and replacing the investments you've already made.

Red Hat provides an intelligent, stable and security-focused foundation for modern, agile businesses like yours. Regardless of your underlying infrastructure, you can have a consistent application and user experience. Engineered for the hybrid cloud, Red Hat allows you to migrate workloads across environments.

This flexibility allows for a lifecycle of stability, security and portability that has benefits for companies of virtually all sizes, regardless of the scale of upgrades needed.

TABLE OF CONTENTS

<u>Businesses are built on their IT</u>	3
<u>Start with a strong foundation</u>	4
➔ <u>Automate and free your IT team</u>	5
<u>Modernize your applications</u>	6
<u>Leverage the power of data</u>	7
<u>Protect your IT environment</u>	8
<u>Capitalize on the cloud</u>	9
<u>Discover what you can accomplish with open source</u>	10

Start your path to automation

Empower more users.

Collaborate across teams.

Get going faster with collections of precomposed roles and modules.

Automation from Red Hat can drive your team's efficiency.

[Learn more.](#)

Automate and free your IT team

IT components and tasks are multiplying faster than your team can handle. By automating redundant and mundane tasks, you can roll out new applications and services faster. Automation can also reduce the risk of human error that can lead to security and compliance challenges. Automation lets you streamline the routine tasks that bog down your application, engineering and operations teams. As a result, you may be able to lower your operating expenses and free up your IT staff for more valuable activities.

Developers in the open source community create free automation solutions that you can easily integrate into your processes. Red Hat also offers a library of precomposed automating content and legible YAML automation language. With Red Hat's automation platform, you can automate at your own pace: start with one task or service, share it and build on it. Over time, you'll reach the right level of automation without having to make big changes at once.

TABLE OF CONTENTS

Businesses are built on their IT	3
Start with a strong foundation	4
Automate and free your IT team	5
➔ Modernize your applications	6
Leverage the power of data	7
Protect your IT environment	8
Capitalize on the cloud	9
Discover what you can accomplish with open source	10

Don't let infrastructure slow down collaboration.

*Capitalize on containers.
Work across environments.
Drive productivity.*

Red Hat containers can bring people together with a consistent development experience.

[Learn more.](#)

Modernize your applications

Your customers expect you to do more than the competition. Your teams need security and self-service access from virtually anywhere. And all of it needs to be fed with trusted data from multiple sources. IBM clients can win by responding with applications that are integrated with the latest technologies and application programming interfaces (APIs), modern development processes, and maximizing the existing investments in their technology stack.

To build these applications in a diverse and intertwined IT infrastructure, containers, such as the open source based Kubernetes, give you the power to work across operating environments and processes.

Red Hat offers the leading container platform for both developers and operators² and is built for hybrid cloud. With full-stack automated operations, a uniform experience—across virtually all environments—and self-service provisioning, Red Hat allows teams to work together without worrying about different deployment environments. A consistent development experience across the application lifecycle enables teams to move ideas from development into production quickly.

TABLE OF CONTENTS

Businesses are built on their IT	3
Start with a strong foundation	4
Automate and free your IT team	5
Modernize your applications	6
➔ Leverage the power of data	7
Protect your IT environment	8
Capitalize on the cloud	9
Discover what you can accomplish with open source	10

Leverage the power of data

Storing data in disparate places is common. But to leverage the power of data, increase profitability and develop strategic competitive advantages, IBM clients must access their data as if it were in a single repository.

Red Hat abstracts storage infrastructure, bringing data together for developers. This approach also allows for dynamic scale for Kubernetes administrators and a consistent user experience across hybrid environments. With Red Hat's supported, self-service sandbox, data scientists and machine learning (ML) engineers can collaborate on preparing data, testing and training ML models.

Red Hat drives value

20

percent

higher DevOps and development team productivity³

29

percent

faster application development lifecycles³

636

percent

five-year return on investment³

TABLE OF CONTENTS

Businesses are built on their IT	3
Start with a strong foundation	4
Automate and free your IT team	5
Modernize your applications	6
Leverage the power of data	7
➔ Protect your IT environment	8
Capitalize on the cloud	9
Discover what you can accomplish with open source	10

87
percent

of IT leaders worldwide see enterprise open source as more secure or as secure as proprietary software.⁴

Protect your IT environment

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

Open source communities, of which Red Hat is a long-term contributor, are continually sharing solutions for security challenges. Products and services from Red Hat have embedded security capabilities that allow you to:

- Integrate security into virtually every phase of your development lifecycle
- Enable a security-rich software supply chain
- Protect your cluster infrastructure and network communication
- Keep bad actors out
- Help ensure that you have the latest security updates
- Uncover Microsoft Windows and Linux endpoint vulnerabilities
- Automate tasks where human error may lead to compliance or regulatory issues

With Red Hat and industry-leading security from IBM, you can create a layered approach to security for holistic protection.

TABLE OF CONTENTS

Businesses are built on their IT	3
Start with a strong foundation	4
Automate and free your IT team	5
Modernize your applications	6
Leverage the power of data	7
Protect your IT environment	8
➔ Capitalize on the cloud	9
Discover what you can accomplish with open source	10

89

percent

of IT decision makers see open source as the key to a more flexible hybrid cloud strategy.⁵

Capitalize on the cloud

The right cloud technology gives your IT infrastructure the power to scale to support your business. But a cloud solution with a stand-alone architecture based on proprietary technologies ends up leaving data siloed. A hybrid cloud approach can bridge platforms to make data and workloads portable, creating a unified experience. With a shared foundation, you can make cloud deployments faster and more reliable.

With Red Hat, you can use open source to create a standardized environment on on virtually all cloud deployments: public clouds such as IBM Cloud, private clouds and on-premises environments. On this shared infrastructure, you can build, deploy and manage applications at scale, as well as automate tasks. Red Hat solutions allow your developers to bring cloud and on-premises data together and drive innovation.

TABLE OF CONTENTS

Businesses are built on their IT	3
Start with a strong foundation	4
Automate and free your IT team	5
Modernize your applications	6
Leverage the power of data	7
Protect your IT environment	8
Capitalize on the cloud	9
➔ Discover what you can accomplish with open source	10

Discover what you can accomplish with open source

IBM is committed to the open development model as the path to more stable, secure and innovative technologies.

Explore how open source innovation from Red Hat can enhance your existing investment and drive your business forward. [Tap new possibilities with open source.](#)



Learn more about Red Hat's solutions [here](#).

[Talk to an expert](#) to learn more about how Red Hat tools can work with your IBM solutions.

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¹ Red Hat, *2021 Global Tech Outlook*, November 2020, <https://www.redhat.com/en/global-tech-outlook-report/2021>

² Forrester, *The Forrester Wave™: Multicloud Container Development Platforms, Q3 2020*, Dave Bartoletti and Charlie Dai, September 15, 2020, <https://www.ibm.com/downloads/cas/Z9ZXLZR1>

³ IDC Business Value White Paper, sponsored by Red Hat, *The Business Value of Red Hat OpenShift*, Doc #US47539121, March 2021, <https://www.redhat.com/en/resources/The-Business-Value-of-Red-Hat-OpenShift>

⁴ Red Hat, *The State of Enterprise Open Source*, January 2021, <https://www.redhat.com/en/enterprise-open-source-report/2021>

⁵ Forrester Consulting, *The Key To Enterprise Hybrid Cloud Strategy: An Annual Forrester Consulting Study Commissioned By IBM*, January 2021, <https://www.ibm.com/downloads/cas/5ZNDXNBR>