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Unlock the possibilities of IBM Power with Red Hat

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Introduction

In a world where change and uncertainty are constant, it can feel like where you are today and where you'll be tomorrow are worlds apart. Yet oftentimes, the future is closer within reach than we realize. Take digital transformation, for example. Enterprises have heard for years that digital transformation means deep, even disruptive, change. Processes and organizational structures must change, as well as the view of the customer relationship. And, of course, the underlying technology beneath it all must change to adapt.

If you're an IBM Power customer, however, you don't need to change your existing hardware to take advantage of next-generation capabilities such as open hybrid cloud environments, containers, Kubernetes and automation. You can modernize your applications, automate your DevOps processes and embrace an open hybrid cloud strategy by running Red Hat software on the IBM hardware you already have.

Real, meaningful transformation doesn't look like disruption or migration. It looks more like a logical evolution that builds upon a foundation of what already works. Few things in this world work as hard or as well as IBM Power servers. Leading enterprises around the world have built their success upon the reliability, security and performance of IBM Power; building a bridge to the open hybrid cloud future doesn't mean leaving that investment behind. In fact, 82 percent of IT leaders believe their enterprise systems will have an increasingly important role to play in supporting future mission-critical workloads.[1]

Red Hat's open source software supports a broad ecosystem of hardware solutions and public cloud infrastructure, making the world's leading enterprise Linux platform accessible no matter what your organization's unique needs may be. Kubernetes, containers and hybrid cloud environments are the future of computing, and IBM Power Systems are a part of that future. Red Hat OpenShift is the leading enterprise Kubernetes platform,[2] built for an open hybrid cloud strategy. Red Hat OpenShift on IBM Power brings the consistency developers need to build and deploy cloud-native applications across the hybrid cloud and accelerate the path to application modernization.

Red Hat is what the future looks like

Across industries, IT leaders face many of the same challenges: they need to modernize applications to take advantage of cloud efficiencies and cost savings, a hybrid cloud approach that prevents them from being locked into a single vendor or deployment model, and more automation to improve agility and help them focus on customer-centric initiatives. And they need to get the maximum value from the investments they've already made.

Whatever the IT challenge you're facing, Red Hat has a solution. It starts with Red Hat Enterprise Linux, the operating system that redefined the open enterprise. Today, Red Hat Enterprise Linux is trusted by over 90 percent of Fortune 500 companies[3] and is the OS of choice for enterprises that value innovation, security, reliability and openness. That openness means that Red Hat Enterprise Linux also runs natively on IBM Power.

The value of Red Hat is even more apparent as you move to containers, Kubernetes and hybrid cloud environments. Red Hat OpenShift is the industry's most widely deployed multicloud container platform, adding valuable security and developer tools to its open implementation of Kubernetes. With Red Hat OpenShift, applications can be deployed in containers across all IT environments and deliver a consistent experience, whether running in IBM Cloud, AWS, Azure, Google Cloud or on a bare-metal Power server in a private cloud environment.

What can OpenShift do for you?

29%

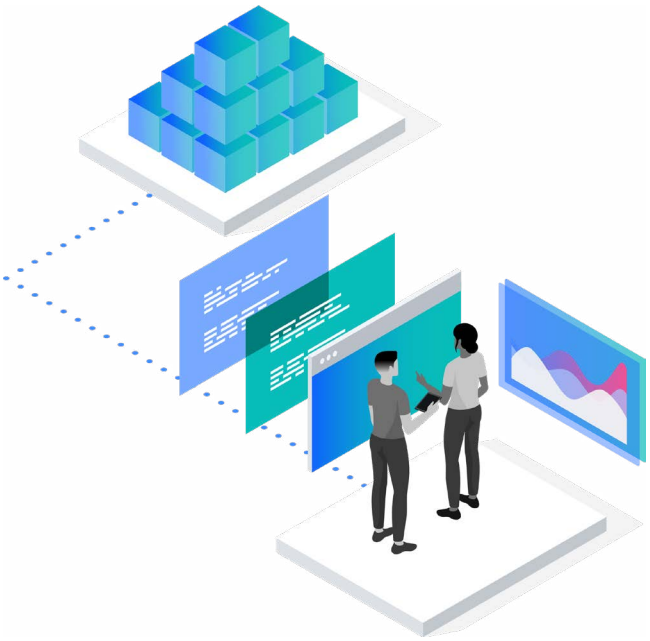
faster application development[3]

$21 M

increase in annual revenue[3]

636%

ROI over a five-year period[3]



There are financial and operational benefits of moving from a single-cloud approach to a hybrid cloud approach with Red Hat OpenShift. Independent research found that Red Hat OpenShift can speed up development lifecycles by 29%, increase annual revenue by $21.62 million and deliver a 636% return on investment over a five-year period.[4] And you can achieve all those benefits by running Red Hat OpenShift on the IBM Power that you already have today.

Red Hat Ansible Automation Platform completes the move to modernization with a powerful automation tool to help enterprises scale their application development and drive innovation. Ansible Automation Platform enables enterprises to automate applications and workloads on a myriad of hardware platforms, including IBM Power. There's even pre-built, community-driven content available so enterprises can begin automating tasks on their existing IBM hardware right away.

Rethink what's possible with Red Hat

The very reasons that you invested in IBM Power in the first place — security, reliability, performance, scalability — are the same reasons why you should protect that investment in the future. You can keep everything that you love about your existing IBM infrastructure and leverage those strengths as you modernize your applications and embrace the open, hybrid cloud future. It's not just about protecting the investments you've already made, but investing your time and energy into future innovation. Moving applications to a new platform that requires additional skills and processes won't improve customer service; investing that money and energy into building better customer applications will.

Deploying Red Hat solutions on IBM Power is a safe, intelligent way to modernize applications. For example, IBM AIX® and IBM i™ applications running on Power Systems can easily be ported to run on Red Hat OpenShift. And IBM Power servers continue to be a smart investment going forward. In side-by-side performance tests conducted by IBM, Power servers demonstrated 2.6x better price-performance for containerized workloads running on Red Hat OpenShift and MongoDB than comparable Intel Xeon® SP-based two-socket servers.

Perhaps no industry understands the importance of maximizing their investment as much as the banking industry. Banks have traditionally been among the strongest supporters of IBM Power and their legendary security and reliability. Yet banks are also under tremendous pressure to modernize their banking applications and customize experiences to meet the changing financial needs of millennials.

Let's look at three banking use cases where Red Hat running on IBM Power redefines the possibilities:

Open banking
One Australian bank was able to transform its core payment processing applications to meet the country's new open-banking regulations. Their solution? Red Hat OpenShift running on a private cloud environment built on IBM Power. The ability to run their apps anywhere and connect them seamlessly to a cloud database meant funds could be transferred across multiple financial institutions.

Digital banking
For proof that digital banking is the future, look no further than one African bank that saw explosive customer growth after it tapped into the power of mobile access. The bank runs its mobile apps as container-based microservices that can run anywhere and connect back to mission-critical banking apps on their IBM Power-based private cloud.

Pricing and risk analytics
Millennials expect fast service and personalized experiences. One consumer financial services firm is delivering on both container-based microservices running on Red Hat OpenShift and IBM Power.

These use cases are only some of the ways that Red Hat solutions can deliver digital transformation without hardware disruption. An open hybrid cloud environment has many benefits for enterprises, from bringing artificial intelligence and machine learning insights into business operations and customer experiences to expanding the partner ecosystem in a secure, compliant manner.

Conclusion

The world has learned a lot about the importance of resilience. Open hybrid cloud computing is a symbol of that resilience. It represents an openness to possibilities and a refusal to be defined by any one definition of the future. But resilience doesn't always mean change — it can also mean making the most of what you have. Deploying Red Hat solutions on IBM Power can provide a strong foundation for open hybrid cloud.

The future is about empowering individuals and creating memorable customer experiences. It's also about the opportunities that open hybrid cloud brings, from automation to AI, and how that openness and innovation improve productivity and personalization. Red Hat and IBM invite you to see how your infrastructure investments serve as the reality of hybrid cloud computing evolves.

Sources

1. Forrester, “Successful Enterprise Application Modernization Requires Hybrid Cloud Infrastructure,” June 2021.

2. The Forrester Wave™: Multicloud Container Development Platforms, Q3 2020.

3. IDC, “Worldwide Server Operating Environments Market Shares, 2019: Overall Server Operating Environment Market Grows During the Year, Led by Linux-Based Shipments and Deployments,” July 2020.

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