

IBM Power Systems and OpenPOWER Solutions for Hybrid Cloud

Optimized infrastructure and solutions for data and computational services in the Cloud



Highlights

- IBM® Power Systems™ and OpenPOWER servers with POWER8® processor technology are purpose-built for more efficient processing of data and analytic workloads in the cloud
 - Delivers the broadest choice of cloud-ready infrastructure and solutions to suit client's needs and workloads: scale up, scale out, converged, proven Reference Architectures, hybrid and public cloud services
 - OpenStack based cloud management from IBM, ISV partners and open source Linux distributions provide extensible, scalable and resilient solutions for public and private clouds
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Technology plays an increasingly critical role in the ability of organizations in all industries and all regions of the world to compete and succeed. Ubiquitous access to the internet from anywhere is erasing traditional boundaries and empowering customers, partners, and even things—to connect, respond, engage, compare and buy. There is a digital transformation sweeping the planet and organizations that do not make bold moves to adapt quickly and intelligently, will undoubtedly fall behind and fail to grow.

The challenge and responsibility of responding effectively to these changing dynamics rests solidly with today's technology leaders. Without strong leadership to chart a strategic path, organizations will flounder and will see their business decline. IT needs to adopt flexible infrastructure strategies and agile development methods to deal with the:

- Explosion in amount of data that needs to be rapidly analyzed and managed
- Security threats that are constant and constantly changing
- Need to reach global markets and supply chains
- Demand for fast and error-free client's engagement experiences



Organizations need a flexible infrastructure to enable growth and innovation while lowering overall IT costs.

Cloud service providers share similar challenges with unique pressures to deliver competitively priced services in a dynamically changing market, while ensuring high levels of client satisfaction and service levels. Service providers typically look for:

- Open source solutions that control costs and adapt to changing technology trends
- Automation to speed deployment times, improve efficiency and reliability
- Standards based solutions for interoperability, extensibility and investment protection
- A secure environment to support multi-tenancy
- Flexible purchase and lease options that match the infrastructure costs to the resources being used

A cloud computing environment built on IBM POWER® processor technology helps organizations to transform their IT infrastructure and to meet these challenges with:

- Superior cloud economics with higher workload densities, sustained systems utilization, and innovative pay for use offerings including Capacity on Demand and EasyScale
- Fastest performance and results for most challenging compute operations with POWER processor architecture and accelerator technologies optimized for data and analytic workloads
- OpenStack based delivery and management for Power based clouds with on-premises infrastructure, public cloud resources and hybrid integration services
- Choice of infrastructure options to suit client needs and workloads including scale out, scale up, converged infrastructure, Reference Architectures, automation scripts and best practices.



Power is cloud optimized

Power Enterprise Systems for the Cloud are optimized for cloud delivery of the largest and most demanding workloads. Built on high capacity, scale up systems with the cost advantages and efficiencies of cloud including OpenStack based private cloud management, cloud-based HMC Apps as a Service, open source cloud automation and configuration tooling for AIX®, flexible Capacity on Demand, no-charge access to public Power cloud infrastructure, and secure hybrid cloud integration tools and services.

IBM's OpenPower LC servers for the Cloud offer scale out infrastructure optimized for differentiated performance of data and analytic workloads on Linux. These new servers incorporate breakthroughs in performance and cost efficiency to further advance cognitive and cloud computing. Featuring a new chip, the Linux-based lineup incorporates a family of

industry first acceleration technologies that deliver a higher level of performance—on an open BMC platform for simplified and unified management across the data center.

With thousands of open source and ISV application optimized for the Power platform including the industry leading tools at the heart of digital transformation such as OpenStack, Docker, open source databases, node.js and more, Power infrastructure can set organizations apart with faster insights, analysis and execution for the business.

IBM Power Systems and OpenPOWER cloud solutions can help organizations quickly to build dynamic and efficient private, public or hybrid cloud environments. Power solutions enable teams to build, run and deploy cloud-native apps that deliver better performance for faster insights on less infrastructure, enabling organizations to improve services, lower costs and foster business innovation.

Why IBM?

Only IBM provides the combination of enterprise grade on-premises systems, global reach of leading public cloud infrastructure, hybrid cloud experience and services—all built around open source cloud management, open data services and open innovation.

For more information

To learn more about the IBM Power Systems and OpenPOWER cloud solutions, please contact your IBM representative or IBM Business Partner, or visit the following website: ibm.com/systems/power/solutions/cloud/

To learn more about IBM Power Enterprise Systems for the Cloud, visit:

<http://www-03.ibm.com/systems/power/hardware/enterprise-cloud/index.html>

To learn more about IBM OpenPOWER LC servers for Linux, visit:

<http://www-03.ibm.com/systems/power/hardware/linux-lc.html>

To learn more about Power Systems virtualization, visit:

ibm.com/systems/power/software/virtualization/

To learn more about IBM Cloud Orchestrator visit:

ibm.com/software/products/en/smartcloud-orchestrator

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