

A woman with long brown hair, wearing a light-colored sweater and dark pants, stands in a server room. She is holding a tablet and looking at it. The server room has rows of black server racks with cables hanging from the top. A large, semi-transparent orange hexagonal grid is overlaid on the right side of the image. The bottom half of the image has a solid orange background with white text.

IBM Systems Lab Services

IBM Z and LinuxONE

Proven expertise to help leaders design, build, and deliver
IT infrastructure for the cognitive era

Lab Services can help

IBM Systems Lab Services has the proven expertise to help you move your IT infrastructure to the cognitive era. We can help you:

- *Design for cognitive business*
- *Build with collaborative innovation*
- *Deliver through a cloud platform*

For more information IBM Lab Services is available at:

ibmsls@us.ibm.com

and online at:

ibm.com/it-infrastructure/services/lab-services

Proven expertise for the cognitive era

IBM® Systems Lab Services has the proven expertise to help leaders design, build, and deliver IT infrastructure for the cognitive era. We help clients design for a cognitive business, build with collaborative innovation, and deliver through a cloud platform.

Lab Services consultants' proven expertise derives from a combination of business and extensive practical technical experience, leveraging proven tools and methodologies. Our Lab Services consultants perform IT Infrastructure services for clients on site, helping them solve business challenges, gain new skills, and discover best practices. Lab Services has a global presence and can deploy its consultants in any region as required.

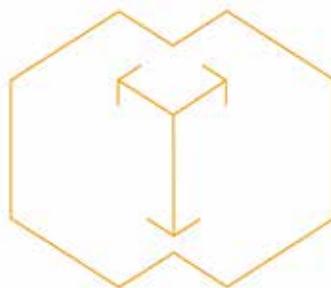
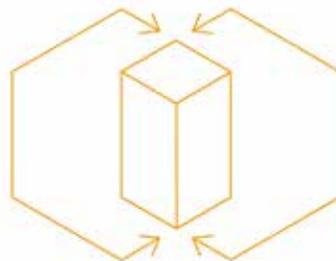
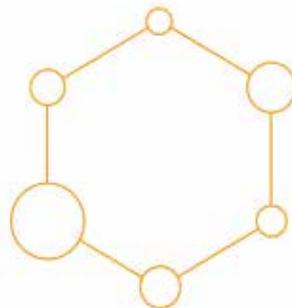
Lab Services is uniquely positioned to help IBM clients through the lifecycle of designing, building, and delivering IT infrastructure for the cognitive era. We offer a wide range of IT infrastructure services for IBM Power Systems™, IBM Z® and IBM LinuxONE™ systems, and IBM Storage and Software Defined Infrastructure.



IT infrastructure for the cognitive era

Your IT infrastructure works. But it can do more. Your servers and storage are no longer inanimate. They can understand, reason, and learn. Today, they can think.

That lets you capitalize on business opportunities while averting IT issues. IBM Systems Lab Services helps you go beyond infrastructure.



Design for cognitive business

Designing for cognitive business means generating insights derived from complex analytics and machine learning while those insights are still meaningful. Lab Services helps clients with analytics acceleration and data-centric infrastructure design for cognitive solutions. Lab Services cognitive business services capabilities include advising clients on analytics infrastructure combining servers, flash, software defined storage, and workload management.

Build with collaborative innovation

Building with collaborative innovation means embracing open architectures, ecosystems, and choice that deliver new solutions to market faster. Lab Services helps clients choose what services should run where with a choice of open delivery platforms, runtimes and deployment models to optimize their business services. Lab Services open architecture capabilities include services for Linux on Power® and LinuxONE platforms, KVM virtualization, and expertise on a range of open-source databases and solutions.

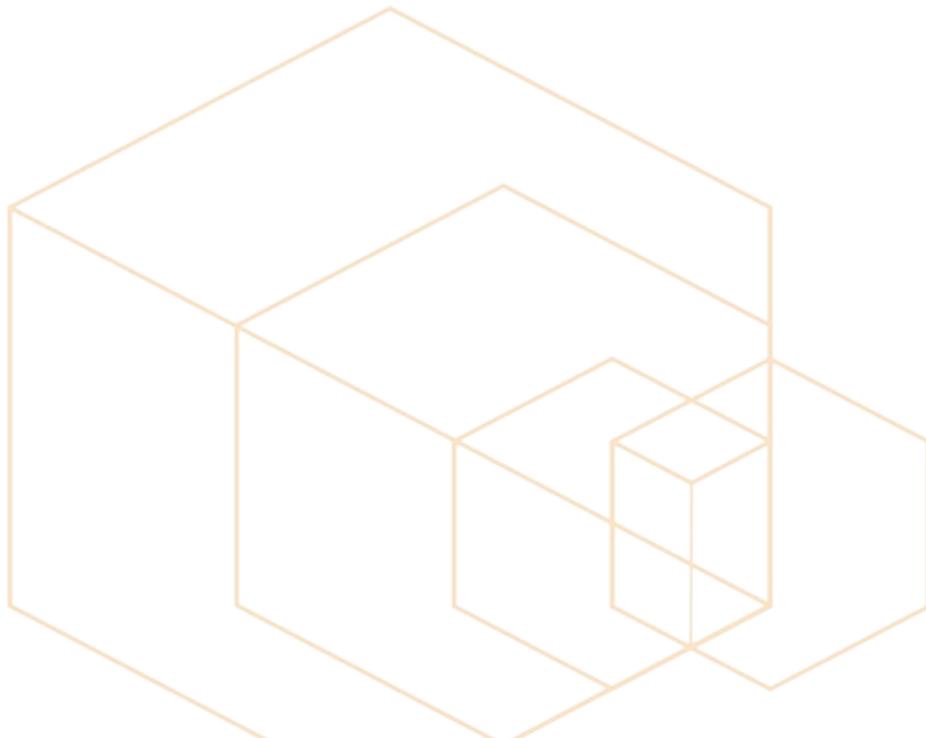
Deliver through a cloud platform

Delivering through a cloud platform means extending existing infrastructure investments by providing controlled access to business assets and running business services at scale. Lab Services can help clients design, build, and deliver cloud platforms that support secure business services at scale. Lab Services cloud capabilities include design for optimal workload placement and security, building for flexible server and storage provisioning, and best delivery practices for management and orchestration.

IBM Z and LinuxONE

IBM Z and LinuxONE provide the ideal customer environment to grow new mission-critical workloads for Blockchain, mobile, analytics, and hybrid cloud on the industry's most secure server.

Lab Services IBM Z and LinuxONE is an experienced group of consultants with proven expertise on both the IBM Z and LinuxONE platforms to help clients design and deliver highly available z/OS®, zVM®, KVM, and Linux infrastructure solutions. Our specialty practices include:



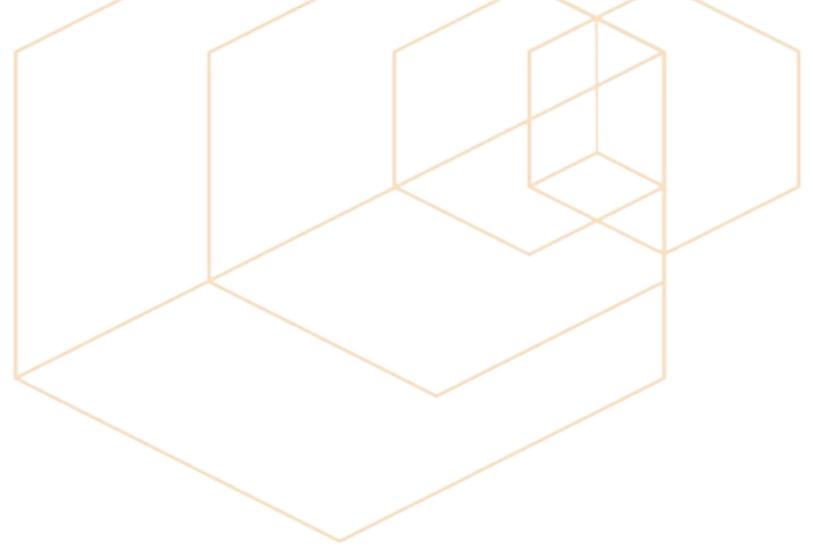
Hybrid Cloud

We help clients design and deploy a hybrid cloud infrastructure for enterprise transactions, systems of records, and application workloads. We help deploy OpenStack-based cloud management services for IBM Z, LinuxONE, storage, and networking. We also provide services for z/OS Cloud provisioning and management with API-enabling technology such as z/OS Connect and z/OSMF. We provide services for integrating with cloud management platforms, such as VMWare vRealize Automation, IBM Cloud Management Appliance, and IBM Wave.

We assist clients scale and secure their IT infrastructure for mobile applications with their often very large and unpredictable transaction volumes via our Jumpstart services. We also provide the needed operating system, middleware, and support for security to provide a full end-to-end mobile solution.

Blockchain

We help clients with new transformational projects in the area of Blockchain through consultation and deployment of the infrastructure including security. Our technical consultants work hand-in-hand with our other IBM services colleagues to execute a full end-to-end solution for clients who want to use Blockchain for strategic use cases.



Analytics for Cognitive Business

We help clients deploy the infrastructure for their enterprise analytics platforms, such as IBM Db2® Analytics Accelerator, to gain business insights with decisions based on real-time analysis of data designed for availability and engineered for highest levels of security. Other areas of business analytics focus for IBM Z and LinuxONE include real-time analytics with technology such as Apache Spark for both z/OS and Linux on z, Machine Learning for z/OS, and predictive analytics with zAware including IBM Operational Analytics for z, Cognos® and SPSS®.

Enterprise Security

We help clients implement systems with the highest level of data security commercially available, advising on built-in enterprise security capabilities and how to simplify complex operational security processes. We provide security health checks and deployment across IBM Z and LinuxONE for all levels of Pervasive Encryption as well as providing assistance in the areas of compliance for standards such as PCI, HIPPA, and GDPR.

Enterprise Linux

We help clients deploy an enterprise grade platform for both the IBM Z and LinuxONE platforms to enable open solutions in the data center with trusted operations and unrivaled economics. We provide services for all options of virtualization including z/VM, KVM, and LPAR. We have a renewed focus on our new clients to the platform with specialized offerings, including support of select open-source solutions including providing the enablement of Database as a Service.

Service Predictability

We help clients with a wide range of services for service predictability, including monitoring and assessing the performance and efficiency of application and database environments on IBM Z and LinuxONE systems, and recommending designs including best practices for optimal performance and resiliency across database, server, storage, and virtualization environments.

Performance

We help clients monitor and assess the performance and efficiency of systems, application and database environments on IBM Z and on LinuxONE, recommending and implementing best practices for optimal performance across database, server, storage, and virtualization environments.

IBM Z and LinuxONE Technical Training

The Technical Training team in Lab Services is responsible for maximizing market skills via IBM TechU technical events, providing systems, and storage and software defined infrastructure content for Global Training Providers training, and academic initiatives with universities and colleges.

IBM TechU

IBM Technical University events are designed to provide technical education to clients, IBM Business Partners and IBMers. The TechU events feature a wide range of technical topics on IBM Systems, and Storage and Software Defined Infrastructure, with multiple track options of presentations and hands-on lab exercises. In addition to the full IBM Technical Universities, smaller IBM TechU Comes to You events extend the reach of events to additional cities worldwide.

Learn more at ibm.com/training/events

IBM Global Training Providers

The IBM Lab Services technical training team maintains a broad portfolio of technical training education classroom and online materials that are delivered by IBM Global Training Providers. The IBM Global Training Providers use the IBM-developed and -provided materials, including access to IBM systems and storage, to deliver client and Business Partner education around the world.

Learn more at ibm.com/training

IBM Academic Programs

The IBM Lab Services technical training team works with colleges and universities worldwide to facilitate the early development skills of IBM Systems.



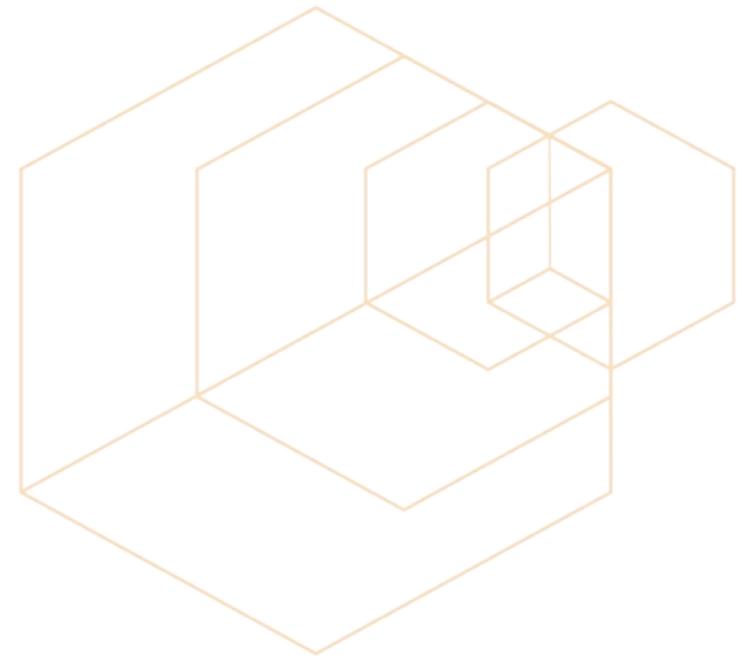
IBM Business Partners

IBM Systems Lab Services works closely to complement the skills of IBM Business Partners and to help them accelerate the adoption of IBM Systems and Storage.

Working with Lab Services gives IBM Business Partners and their clients direct access to our most experienced IBM consultants when they need them most. We typically provide short-term, on-site engagements designed to solve complex challenges and then transfer skills and best practices to the partner or client's staff.

Working with Lab Services helps IBM Business Partners grow sales and extend their business scope while helping them grow skills for new technologies.

ibm.com/partnerworld/labservices



Lab Services is on your side

IBM Systems Lab Services has the proven expertise to help you design, build, and deliver IT infrastructure for the cognitive era.

With proven expertise derived from a combination of business and technical experience, we can help you:

- Design for cognitive business
- Build with collaborative innovation
- Deliver through a cloud platform

Contact us today to see how IBM Lab Services can help you transform your business.

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For More Information

IBM Lab Services is available at:

ibmsls@us.ibm.com

and online at:

ibm.com/it-infrastructure/services/lab-services

IBM Business Partners, visit:

ibm.com/partnerworld/labservices

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