



IBM Systems Lab Services

IBM® Systems Lab Services offers technology lifecycle services to help you build the foundation for today's hybrid cloud and enterprise IT data centers. From IBM Systems products and open source to leading vendor systems and software, Lab Services helps you deploy the building blocks of a next-generation IT infrastructure that empowers your business.

Our Lab Services consultants perform technology lifecycle services for clients online or on site, offering deep technical expertise, valuable tools and successful methodologies. Our services are designed to help clients solve business challenges, gain new skills and apply best practices.

Lab Services offers a wide range of technology lifecycle services for IBM Power™, IBM Storage, IBM zSystems™ and IBM LinuxONE™, open source software, and leading vendor systems and software. Lab Services has a global presence and can deploy experienced consultants around the world.

For more information, email us at

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or visit us online at

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

Open Source Software Offerings from Lab Services

Application Modernization

Application modernization addresses the transformation of legacy to new applications or platforms, often including the integration of open source innovation to provide the latest capabilities to your business. We provide modernization advisory services for open source software include platform and tool selection, architecture and design, coding, and performance tuning. Typical community open source products for application modernization include:

- Adopt OpenJDK
- Apache ActiveMQ
- Apache Kafka
- Apache Tomcat
- Elasticsearch (ELK)
- Grafana
- JanusGraph
- Jenkins
- Kibana (ELK)
- Logstash (ELK)
- Node.js
- Prometheus
- Python
- Spring Framework
- WildFly
- Zabbix

Data

Organizations are increasingly turning toward open source databases and analytics engines as new standards for their data infrastructure with enterprise applications. We advise clients on design options for open source databases for deployment of new applications or legacy database migration. We also offer services for assessing the performance and efficiency of open source database environments. We advise data and analytics leaders, including database administrators and application developers, on evaluating open source data alternatives including:

- Apache Cassandra
- Apache Spark
- Fujitsu Enterprise Postgres
- MariaDB
- MongoDB
- PostgreSQL
- Redis

Hybrid Cloud

Containers are popular in hybrid cloud environments because they eliminate many of the disadvantages of rolling out large, monolithic applications that can become more complex and cause performance issues over time. Our services for hybrid cloud include containerization that will help you encapsulate or package software code and all its dependencies so it can run uniformly and consistently on any infrastructure. Containerization lets developers create and deploy applications faster and more securely. Containerization allows for portability of applications to be “written once and run anywhere.” We provide services for integrating cloud management and orchestration platforms. Typical community open source products for containerization include:

- Docker
- Kubernetes
- Red Hat Ansible
- Red Hat Enterprise Linux
- Red Hat OpenShift

