Innovate and transform with IBM Cloud Migration services for IBM Cloud Private

Reliable, repeatable and scalable migration solutions designed for a more secure private cloud

Highlights

- Provides cloud adoption services to identify innovation possibilities in your cloud environment

- Allows rapid migration to IBM Cloud Private based on a pre-defined set of container patterns

- Helps modernize your legacy applications to the cloud with minimal disruption

- Enables the rapid creation of new cloud-native applications with microservices and APIs

- Offers end-to-end security consulting, design and implementation for IBM Cloud Private

- Provides full stack end-to-end operations support and integrated service management on a private cloud platform
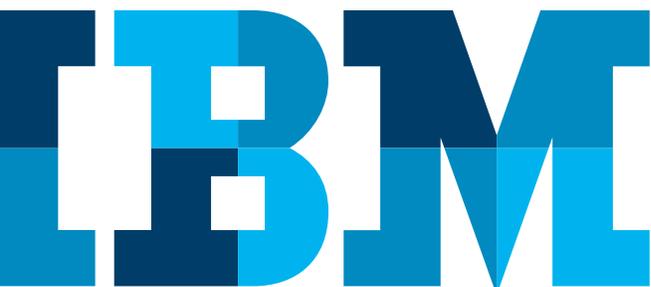
Introduction

Enterprises all over the world are undergoing business transformation. For years, they have invested heavily in on-premises IT deployments that are critical today and will remain critical well into the future. They also have the need to build net-new applications in an agile fashion to meet changing business demands. Enterprises now have the ability to run applications and use multiple services both on premises and on multiple clouds. Private clouds like IBM Cloud Private, in conjunction with public clouds, help enable developers to innovate faster, integrate rapidly with enterprise software and new cloud services, exploit new software and data services enabled with cloud capabilities, and optimize costs with consistent management and security capabilities.

But as enterprises place more workloads on the cloud and increasingly manage multiple cloud environments—across public and private cloud environments—they face the complexity of integrating existing portfolios and selecting the right applications to migrate. IBM Cloud Migration Services can accelerate the digital transformation of your application portfolio by helping make the journey to cloud faster, predictable and more security-rich. With automated discovery tools, advanced analytics, cognitive capabilities, DevOps and agile delivery models, Cloud Innovate – IBM Method for Cloud Transformation is designed for reliable and repeatable migration services on IBM Cloud Private.

Connect almost anything on premises and in the cloud

IBM Cloud Private helps transform enterprises by enabling them to build new applications using modern processes and by leveraging existing applications today as a competitive advantage. IBM Cloud Private can open your existing assets, expertise and processes to help enable a more nimble consumption model that drives innovation and meets business demands.

IBM Cloud Private has at its core the infrastructure, analytics, and services needed to make your private cloud foundation rock-solid. With containers, Kubernetes, and Cloud Foundry at the base, you can excel in your adoption of container technology as a strategic building block for increasing application developer productivity and decoupling teams to help enable speed and agility. You can easily and efficiently automate, deploy, scale and manage your containerized applications across private and public clouds. With automated, built-in dashboards and analytics, you can manage applications and services across multiple clouds for flexibility and choice. Add in the services needed to do key functions like connecting APIs and data, while also monitoring, logging and managing events—and you have a foundation built for rapidly producing quality code and accelerating business value.

It's the best of both worlds—helping enterprises leverage the power of private cloud to modernize existing applications and workloads, while enabling new technologies and DevOps models for new application creation and deployment—all with a single platform.

Consume IBM Cloud Migration Services and IBM Cloud Private your way

With microservices-enabled innovation and Cloud Migration services, IBM helps clients transform legacy applications into a more nimble, agile, robust and well-balanced IT ecosystem. This ecosystem is capable of reacting very quickly to the dynamic demands of the business environment in the cloud era. Developers and operations administrators can quickly leverage the services to unleash their innovation and help meet enterprise business needs on their journey to developing cloud-native services.

Designed for reliable and repeatable migration services on IBM Cloud Private, Cloud Innovate – IBM Method for Cloud Transformation helps reduce risk and build scalability, flexibility, availability and resiliency into your IT landscape. Based on internal IBM studies, some clients are realizing as much as a 50-percent reduction in time-to-market for new applications along with up to 40-percent higher productivity and up to 30-percent lower total cost of ownership.[1]

Migrate applications to the private cloud

Organizations can migrate applications and deploy to managed containers, enabling workloads to be incrementally transformed. New migrated workloads and existing workloads can run concurrently as the incremental transformation continues. The developed solution, front-end and back-end components, and microservices can be deployed to managed Docker containers by Kubernetes. These deployments help your enterprise protect your data and sensitive workloads that need to run in a customer-controlled and security-rich environment. In addition, IBM solution architecture and development offerings leverage a catalog of services provided by IBM Cloud Private such as Liberty, IBM Db2® developer and MQ Advanced for Developers, Redis and many other open source app dev tools.

What's new with IBM Cloud Migration Services and IBM Cloud Private?

Driving innovation

- Advisory services that address a wide range of private-cloud adoption patterns and identify opportunities for innovation
- Adopt microservices and develop APIs to compose new cloud-native services
- Accelerate time-to-market using agile and DevOps services by as much as 50 percent for new products and services[2]

Facilitating integration

- Application Operations services provide a consistent foundation for services engagement.
- Use of full lifecycle DevOps-as-a-service to continuously build, deploy and manage applications on the cloud

- **Supporting compliance and management**

- IBM Netcool® capabilities have helped IBM become a recognized industry leader in operations management solutions.[3]
- Employ the Solutions Operations Center for integrated application operations support.
- Take advantage of robust security and compliance services.
- Leverage middleware monitoring and management services.

Protecting your investment

- Deploy platform-enabled APIs for smoother portfolio modernization.
- Simplify management by migrating and deploying applications to managed containers.

Conclusion

As businesses place more workloads on the cloud and increasingly manage multiple cloud environments—across public and private cloud—they face the complexity of integrating existing portfolios and selecting the right applications to migrate. IBM helps clients successfully adopt microservices to compose new cloud-native services, to modernize the existing application portfolio and to take advantage of IBM Cloud Private capabilities for specific use cases. IBM can assess the opportunities, develop a roadmap with an execution plan, and partner in the execution, build and run of new services.

Why IBM Cloud Private?

Built to help you solve problems and advance opportunities in a world rich with data, IBM Cloud Private can deliver:

Business innovation

- New microservices-based applications to build, deploy and manage more easily—offering dynamic scalability and variable demand management
- New integrated IBM and open source DevOps tools and services for code repositories, deployment, test automation and promotion to production
- Virtually seamless integration to IBM Public Cloud—designed to offer secure access and integration to innovative technologies including cognitive/AI, Blockchain, IoT and more

Integration

- Ease of access to the platform and other services to help developers easily integrate within and across cloud environments
- Catalog of services and integration tools to assist developers on and off premises

Greater compliance and management

- Capabilities designed to monitor, secure and operate microservices at scale
- Designed for more security-rich corporate data and compliance management with government regulations and industry standards
- Management, back-up and recovery of data and applications.

Investment protection

- Ability to preserve or delay risky application changes by using the next generation of cloud-enabled software
- Ability to modernize existing heritage applications while integrating with new applications
- Catalog of software and services to enable developers and operations teams to more confidently migrate applications to new versions and the cloud

Ready to try it out?

Install the cost-free Community Edition of IBM Cloud Private: **ibm.com**/marketing/iwm/dre/signup?source=urx-19310&S_PKG=ov60811

For more information

To learn more about IBM Cloud, please contact your IBM representative or IBM Business Partner, or see the following website: **ibm.com**/cloud-computing/services/cloud-migration-services

1 Based on IBM internal studies. Actual client results may vary.

2 Based on IBM internal studies. Actual client results may vary.

3 **ibm.com**/blogs/cloud-computing/2016/12/6-years-running-ibm-leader-gartner-oss-magic-quadrant/

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