

Develop and deploy cloud-native apps with IBM Cloud Private Cloud Native

Help drive more value and modernize existing middleware investments



Highlights

- Helps you create net-new cloud-native applications on a Kubernetes or Cloud Foundry runtime quickly and with prescriptive guidance
 - Designed to help secure and protect your applications and data in a private cloud platform, while resiliently scaling to meet your business needs
 - Allows you to leverage Microservice Builder and WAS Liberty built on Kubernetes, with core management services and a robust content catalog of data and application tools
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Introduction

Enterprises all over the world are undergoing business transformation. For years, they have invested heavily in on-premises IT deployments and mission-essential business applications 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 with modern resilient architectures to meet changing business demands. Enterprises now have the ability to run applications that are architected in varying models and use varying application services both on-premises and across multiple clouds.

Private cloud, in conjunction with IBM's public cloud, enables developers to innovate faster, on modern architectures and leverage new cloud services, while optimizing costs through consistent enterprise management and security tools. IBM® Cloud Private Cloud Native helps enterprises transform by providing the tools to develop new cloud-native applications and modernize existing architectures and processes.

Connect almost anything on premises and in the cloud

IBM Cloud Private has at its core the application runtimes, data analytics and developer 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 cloud-native technology as a strategic building block for increasing application developer productivity and decoupling teams to enable speed and agility.

You can more 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.



Cloud Native is a direct reflection of IBM's experience in helping enterprise developers build cloud-native applications. Cloud Native delivers an enterprise-focused platform designed to adhere to the best practices of developing with microservices. It also delivers a robust set of application runtimes, software, data and other value-added services designed to enable cloud-native applications.

It's the best of both worlds—helping enterprises leverage the power of private cloud to enable new technologies and DevOps models for new cloud application creation and deployment—all with a single platform.

Bringing next-generation development capabilities together

With Microservice Builder and IBM WebSphere® Application Server Liberty, Cloud Native can help your development team create cloud-native, 12 factor-based applications while better managing the security and regulatory needs of the business. It provides portability designed to enable development teams to build cloud-native application virtually anywhere and move them anywhere, leveraging tool chains without compromising security and compliance.

Offering an open, flexible and extendable platform

Cloud Native allows you to choose a prescriptive development approach with Cloud Foundry, or the more customizable and portable approach of Kubernetes and Docker Containers. In addition, consistency with the IBM Public Cloud offerings gives you a choice of deployment models across the lifecycle of your workload and a more consistent management experience as your workload evolves and matures. Cloud Native includes the Microservice Builder, WebSphere Liberty, a DevOps toolchain and database services.

Providing enterprise-strength management services

Cloud Native delivers a core set of management services for the application runtime frameworks and your applications being developed on top. These management services include logging, monitoring, access control and event management. You can use these tools integrated with the platform out-of-the-box, and leverage existing in-house skills.

Why IBM Cloud Private Cloud Native?

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
- Security-rich corporate data and compliance management with government regulations and/or 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 www.ibm.com/marketing/iwm/dre/signup?source=urx-19310&S_PKG=ov60811

For more information

To learn more about IBM Cloud Private Cloud Native, please contact your IBM representative or IBM Business Partner, or see the following website:

ibm.com/cloud-computing/products/ibm-cloud-private



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