

# IBM CLOUD PAK FOR APPLICATIONS

Drive business value  
with cloud-native development



A faster, more secure way to move your core business applications to any cloud through enterprise-ready containerized software solutions.

IBM Cloud Pak for Applications provides a complete and consistent experience to speed development of applications built for Kubernetes, using agile DevOps processes. You can easily modernize your existing applications with IBM integrated tools and develop new cloud-native applications faster for deployment on any cloud.

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Information Technology Trust



## How cloud-native development drives continuous innovation

**Move from monolithic to microservices with DevOps methodologies and modernization toolkits with IBM Cloud Pak for Applications.**

Business goals drive enterprises to embark upon digital transformation and a journey to cloud-native apps. IBM Cloud Paks running on Red Hat OpenShift pave the way for enterprises to move to cloud, giving them the ability to add new features quickly or scale up or down, depending on changes in demand. Additionally, IBM Cloud Paks can help provide better data security and lower costs.

### CLOUD PAKS: MIDDLEWARE ANYWHERE

Beyond containers and Kubernetes, enterprises need to orchestrate their production topology, and to provide management, security and governance for their applications.

IBM Cloud Paks are enterprise-ready, containerized software solutions that give clients an open, faster and more secure way to move core business applications to any cloud. Each IBM Cloud Pak includes containerized IBM middleware and common software services for development and management, on top of a common integration layer — designed to reduce development time by up to 84 percent and operational expenses by up to 75 percent.

IBM Cloud Paks are a faster, more secure way to move your core business applications to any cloud through enterprise-ready containerized software solutions and run wherever Red Hat OpenShift runs. They are optimized for productivity and performance on Red Hat OpenShift on IBM Cloud.

IBM Cloud Pak for Applications is one of a set of IBM Cloud Paks that speed up your move to cloud. It provides a hybrid, multicloud foundation built on open standards, enabling workloads and data to run anywhere. A self-service environment combines open source tools with your existing middleware for continuous compliance and visibility across secure, hybrid, multicloud environments.

## IBM CLOUD PAKS

**A faster, more secure way to move your core business applications to any cloud through enterprise-ready containerized software solutions**

#### ■ Complete yet simple

Application, data and AI services, fully modular and easy to consume

#### ■ IBM certified

Full software stack support, and ongoing security, compliance and version compatibility

#### ■ Run anywhere

On-premises, on private and public clouds, and in pre-integrated systems

«...By combining the power and flexibility of Red Hat's open hybrid cloud technologies with the scale and depth of IBM's innovation and industry expertise, clients now have the tools they need to accelerate their cloud journey».

**Jim Whitehurst President & CEO, Red Hat**

## Apps and workloads evolve for cloud

**In the race to transform, enterprises embark upon their journey to cloud-native to deliver innovation at scale and at lower cost.**

A rapid shift to cloud over the next three years will drive enterprises to move 75 percent of existing non-cloud apps to cloud environments. This research from IBV also found that in three years about 95 percent of internally developed apps are expected to be deployed on the cloud with 55 percent of newly developed apps designed as cloud-native. Trends are contributing to the adoption of cloud-native development.

**The number of hybrid use cases continues to expand as apps and workloads evolve for cloud, across hybrid and multicloud environments. Traditional uses cases included:**

- **Cloud Scaling** – using public cloud to scale on prem traditional IT and private clouds to accommodate peaks in demand.
- **Disaster recovery** – having a complete fail over site on public cloud that can accommodate outages of core business systems – whether they are on prem, on public, or traditional IT.
- **SaaS integration** – as more and more workloads move to SaaS, from more cloud vendors, its critical to be able to connect those different flavors of SaaS apps to new apps and or existing data on public, private, or traditional IT in a consistent and repeatable way.
- **Extend legacy** – with 80% of apps still on prem, many enterprises are using public cloud services, such as AI, IoT, mobile and others to create new front ends, deploy/extend them globally and deliver new capabilities quickly to clients.

**But this is just the tip of the iceberg; we are seeing many more use cases growing in adoption:**

- **Hybrid DevOps** – enterprises are looking to use public cloud to develop quickly with access to IaaS and PaaS, but then deploy on prem to meet security, compliance, and business requirements.
- **Composite multicloud** – as organizations modernize apps using microservices, they are becoming composite apps using a mix of microservices and environments, resulting in more complex apps distributed across more vendors. E.g. An App using Watson AI on IBM Cloud, storing data on prem, and leveraging web services from AWS or Microsoft.
- **Optimization** – as performance, cost structure or security requirements change, the ability to move workloads freely allows you to run on the best fit infrastructure as well as optimize costs for better ROI
- **Edge Computing** – with an increase in data collected from IoT devices, having edge devices that can process some of the data and send less data back to public, private or traditional IT apps is becoming critical to manage cost, scale and optimize performance of those applications.

What's clear is that defining the right architecture and approach to address the unique app, data, and workload requirements in a hybrid, multicloud world is critical as you map your journey to best meet desired outcomes – be it regulatory, scalability, innovation, etc.

According to a Cloud Native Computing Foundation (CNCF) survey, 77% of containers are managed by Kubernetes. Containers and Kubernetes are at the heart of IBM's cloud platform. Containers provide optimal portability across cloud and on-premises environments.

# 75%

of non-cloud applications  
will move to cloud in the  
next 3 years

# 66%

of apps will be migrated  
via either lift and shift  
or modernization

Source: IBM cloud-native thought leadership research, IBM Institute for Business Value

## Cloud Pak for Applications

The ultimate flexibility across open source, platform, runtimes, and tools all in 1 place!

Develop innovative cloud-native applications using the tools and runtime of your choice. IBM Cloud Pak for Applications is an enterprise-ready, containerized software solution for modernizing existing applications and developing new cloud-native apps that run on Red Hat OpenShift. This hybrid, multicloud foundation breaks down technology and data silos to make modernization faster and more secure, and speeds development of applications built for Kubernetes, so you can access cloud services — all while meeting the technology standards and policies your company requires.

### THREE ADVANTAGES OF CLOUD-NATIVE DEVELOPMENT ON IBM CLOUD PAK FOR APPLICATIONS

IBM Cloud Pak for Applications uses the power of open source technologies to help enterprises speed cloud-native application development and has some key advantages.

#### 1. Broadest choice of industry runtimes

IBM Cloud Pak for Applications supports enterprise application needs through a choice of industry leading runtimes and choice of developer tools and modernization toolkits, DevOps and Apps/Ops Management.

#### 2. Simplified build, deploy and management of applications

Enterprises can quickly build applications on any cloud, while providing the most straightforward path to modernize heritage applications. Kabanero.io, an open source project, which is an upstream project for Cloud Pak for Applications, simplifies the build, deployment and management of applications. It offers an integrated experience from the creation of a cloud-native application on a developer's laptop through testing and deployment in a container and throughout the application's ultimate managed lifecycle.

#### 3. Modernization that maximizes existing investments

Enterprises can optimize their current investments, whether on-premises or in any public or private cloud. With IBM Cloud Pak for Applications, enterprises have the comfort of knowing they can modernize based on their unique timeline. They can realize ROI and are able to continue their cloud journey without ripping and replacing or being trapped by a particular vendor. And when ready to modernize, enterprises can take advantage of a rich set of transformation tools including in the IBM Cloud Pak for Applications.

### IBM + RED HAT = BEST OF ALL WORLDS

■ Meets the needs of hybrid cloud by delivering the ability to quickly scale

■ Brings open source innovation to an even broader range of organizations to deliver true choice and agility

■ Contributes to almost every aspect of the Kubernetes platform

■ Provides the best platform with rich capabilities to simplify the complexity of Kubernetes

InTTrust ([www.intrust.gr](http://www.intrust.gr)) started its journey in 2006 as a Technology Services provider and since then it serves FSIs, Telcos, Oil and Energy companies and other large Private sector customers in Greece and abroad. Over these 13 years, it builds a solid track record as an IT provider that delivers what it promises. InTTrust is IBM Platinum Partner, Microsoft Gold Partner and Oracle Gold Partner. It is part of InTTrust's capabilities to provide, Application services that include Information Management, Application Development, Engineering, Data and AI, Dynamic Infrastructures services to deploy and support customers' infrastructure onsite, in the cloud or hybrid models, DBA services to guarantee high availability and integrity of customers' mission critical databases to ensure business continuity 24X7.

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