

Elevating your hybrid cloud experience with IBM Cloud Paks and Red Hat OpenShift Container Platform for IBM Z® and IBM® LinuxONE

The cloud you want –
with the privacy and security, you need



Cloud-driven business transformation

No matter where your technology resides, where you want to take your business, or how you want to operate – business transformation lies in cloud-driven decisions around data.

The challenge

How can you fully embrace cloud and the best Qualities-of-Service as you ensure you can protect and manage your mission critical applications and data both within and outside of your data center? How do you access more types of data, analytics and AI from any source and improve return on existing investments in technology?

Innovate faster

With an open and connected environment developers and administrators can more seamlessly build today's business applications.

These cloud-native applications can integrate with existing data and are optimally deployed across and managed within the hybrid cloud. Integrating IBM Z® and IBM® LinuxONE into your hybrid cloud unleashes the potential and value of your enterprise data and applications.

While combining the agility and portability of Red Hat® OpenShift® Container Platform and IBM Cloud Paks® with the security, scalability, and reliability of IBM Z and IBM® LinuxONE, businesses can take the opportunity to build new cloud-native applications and modernize existing applications. Also Cloud Paks can help simplify collection and analysis of data, applying intelligent automation, automating labor-intensive IT processes, increasing operational agility, and uncovering threats.

IBM Cloud Paks® and Red Hat® OpenShift® for IBM Z® and IBM® LinuxONE

Red Hat OpenShift

- Designed to develop and deploy cloud-native applications faster and more effectively.
- Red Hat OpenShift builds on Linux®, containers and Kubernetes to deliver a common enterprise-grade platform-as-a-service environment. This is possible across public and private clouds, including IBM Z and IBM® LinuxONE.

IBM Cloud Paks

- Designed to leverage containerized software for faster enterprise application delivery, automation, operational agility, and faster response to threats.
- IBM Cloud Paks are enterprise-ready, containerized software solutions that run on Red Hat OpenShift to help clients move applications to the cloud.

Together

- IBM and Red Hat provide end-to-end hybrid cloud solutions that are designed to enable clients to integrate private and public cloud while protecting their existing IT investments.

The solution value

Transform for cloud

Discover and unlock added value from mission critical data and applications running in your datacenter on IBM Z or IBM® LinuxONE.

- Identify and protect critical business applications and data
- Existing applications can be API enabled to improve efficiency, reduce costs and extend the reach of assets through an open and connected environment
- Provide IT managers and administrators with the tools and utilities they need to efficiently manage and optimize their IBM Z or IBM® LinuxONE environment

Private cloud

A private cloud is a reliable and scalable cloud environment in which all infrastructure resources are dedicated exclusively and accessible only by a single client. IBM Z and IBM® LinuxONE are infrastructure platforms that can serve as the core of your enterprise private cloud. IBM Z and IBM® LinuxONE manage and integrate with the private cloud leveraging open standards and tech like Kubernetes, containers and microservices. Building on open technologies provides options and flexibility to businesses as they continue to evolve on their cloud journey. IBM Z and IBM® LinuxONE meet clients where they are on this journey and are ready to support them with access to open source technology, such as containers and Kubernetes, a vast catalog of new services for developers as well as core IBM Cloud Paks.

Cloud native and open development

Deployment of applications is all about empowering developers by providing them familiar tools and empowering them to participate in an enterprise wide, fully automated, and continuous, software delivery pipeline. Across the hybrid cloud ecosystem, IBM Z and IBM® LinuxONE are designed to provide the flexibility to deploy workloads both on- and off premises, with the same security, availability, and reliability you have come to expect from IBM Z and IBM® LinuxONE. Based on individual needs per workload (resources, time, cost, etc.), you can choose to develop cloud native applications both in the private, public cloud, or a combination of the two.

Public cloud

Enabling a cloud computing model should be an imperative for business. This includes a robust and trusted public cloud for mission critical workloads. IBM Z and IBM® LinuxONE are designed to bring industry-leading pervasive encryption technology to the public cloud, and to encrypt data at rest and in flight for comprehensive data protection. Additionally, the technology prevents system admin and privileged user access by default. All of IBM Cloud Hyper Protect Services' offerings are built on these principles and additional advanced functions of IBM Z and IBM® LinuxONE.

Red Hat OpenShift and Cloud Paks

Red Hat OpenShift and IBM Cloud Paks on IBM Z or IBM® LinuxONE are designed to enable business innovation with cloud-native applications on mission-critical IT infrastructure, as well as develop and deploy cloud-native applications faster and more effectively. The platform is also designed to leverage containerized software for faster enterprise application delivery and efficient management.

Fully integrate

Red Hat OpenShift and IBM Cloud Paks are designed to fully integrate IBM Z or IBM® LinuxONE into a hybrid cloud environment and manage everything from behind the firewall to help keep data protected from external attacks and insider threats. They are designed to also work together to scale up and out to support business growth and agility, deliver the highest levels of reliability and availability, and integrate with existing data and services.

Learn more

For more information, explore:

- [Hybrid cloud with IBM Z](#)
- [Red Hat OpenShift for IBM Z and IBM® LinuxONE](#)
- [IBM® LinuxONE 4](#)

Financing Available: IBM Global Financing provides numerous payment options to help you acquire the technology you need to grow your business. For more information, visit: [ibm.com/financing](#).

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