



Highlights

- Supports business needs by enabling improved flexibility, scalability and access to current technology
 - Helps reduce cost of computing with a cloud-based multi-tenant infrastructure and managed services
 - Supports high availability and security needs with robust service design and mature delivery capabilities
-

IBM Cloud Managed Services on z Systems

Adapt to changing business needs with a scalable, security-rich cloud

Leading organizations are striving to reinvent themselves to respond to today's competitive market. They are using mobile and social technologies to improve how they engage, and optimizing analytics to make better, faster decisions. At the same time, mission-critical workloads must be maintained more cost effectively. Underlying these demands is a strong need for a more agile and scalable infrastructure. These leaders recognize that extending the role of the mainframe infrastructure to incorporate a cloud delivery model from a trusted vendor can provide the scalability and economies needed to support innovation and growth.

IBM® Cloud Managed Services® on z Systems® builds on deep IT management expertise, the strengths of IBM z Systems, and industry-leading virtualization technology to deliver a security-rich, highly available Mainframe as a Service platform that can redefine IT efficiency, economics and agility. Featuring an environment designed for flexibility, continually refreshed with the latest hardware and software and managed by a global team of mainframe specialists, IBM's offering helps you meet your dynamic business needs more cost effectively.

Facilitates innovation by enabling improved scalability and current technology

IBM's offering uses a cloud delivery model to provide you with access to a scalable, multi-tenant infrastructure, designed to be flexible and adaptable. You have your choice of either the IBM z/OS® or Linux¹ operating system as well as the latest versions of standardized software stacks to facilitate flexibility. We also support independent software vendors (ISVs) and additional IBM software on a custom basis. Compute, storage and tape capacity can all scale to meet your needs. And with Linux-based solutions under IBM z/VM®, you can position yourself for hosting hybrid workloads.



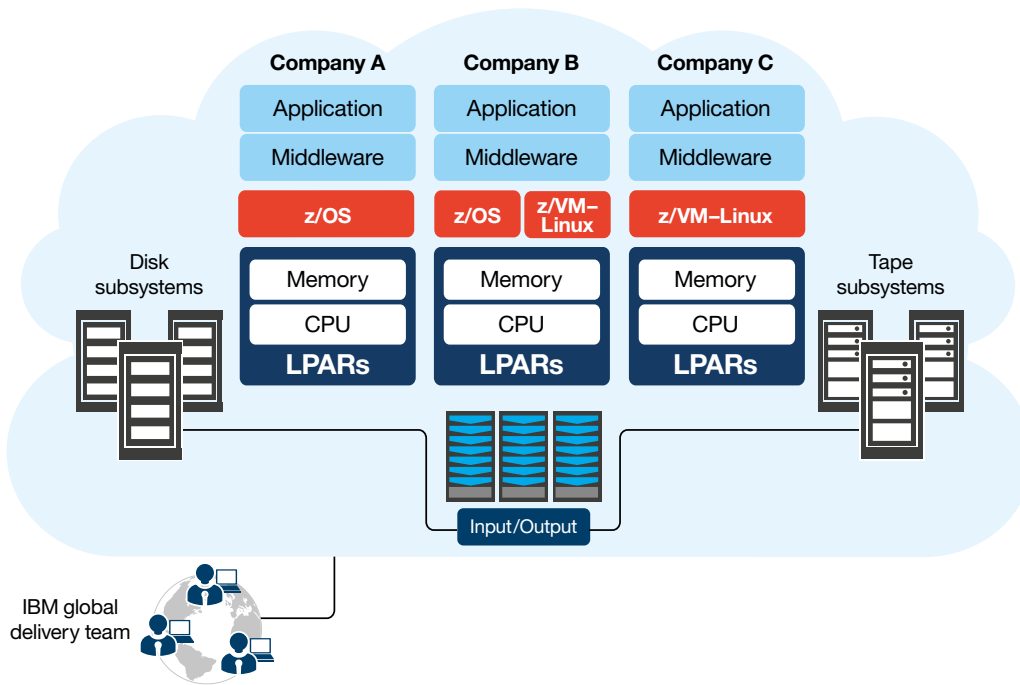


Figure 1. Highly secure LPARs and storage subsystems provide advanced virtualization in an IBM-managed environment.

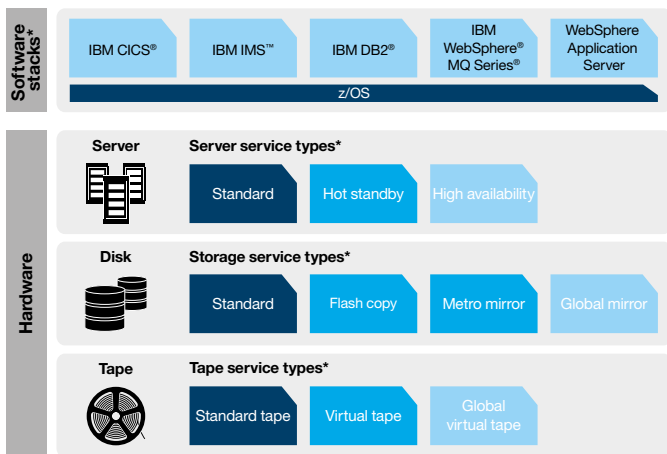
Helps reduce costs with Mainframe as a Service and managed services

This platform can help you realize up to 30 percent reduced costs for your z Systems computing infrastructure.² We have built a Mainframe as a Service environment, hosted in IBM data centers, by using advanced virtualization with secured logical partitions (LPARs) to help you reduce capital expenses associated with running your own data center, such as hardware, floor space, power and cooling costs. IBM's solution also rationalizes your software portfolio and offers a more predictable consumption-based pricing model with monthly billing to help you manage costs.

Our fully managed services are designed to provide end-to-end management and monitoring, leveraging the experience of more than 6,500 mainframe specialists located around the world. IBM uses innovative technologies, effective IBM tools and processes, and automation to help prevent problems before they occur. Relying on IBM's mainframe specialists for service delivery can allow your staff to focus on other areas of innovation.

Supports high availability and security with mature service design

IBM z Systems mainframes are housed in purpose-built, highly resilient and security-rich IBM data centers around the world. Our LPAR-based model is designed to offer the highest levels of security with the system achieving Evaluation Assurance Level 5 (EAL5) accreditation. Additional subsystem isolation helps protect your data, applications, test and production environments, and is designed to enable encryption for tape and storage and in-flight data across the network. For additional access controls, IBM's offering is supported by leading security management products for mainframes, including IBM Resource Access Control Facility (RAFC), CA Top Secret and CA Access Control Facility (ACF2), all of which are complemented by IBM's deep security domain expertise in its delivery processes and capabilities.

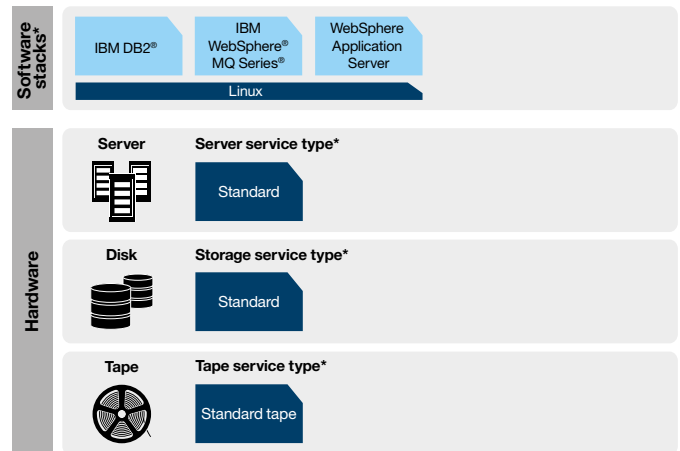


*Check for feature availability in your country

Figure 2. IBM Cloud Managed Services on z Systems—z/OS is highly configurable. You can choose from standardized software stacks as well as the server, disk and tape options that best suit your availability needs.

IBM can also work with you to apply the correct enterprise-class security processes, systems, networks and tools that are designed to help support your specific compliance needs, such as Payment Card Industry (PCI), Health Insurance Portability and Accountability Act (HIPAA) and Federal Financial Institutions Examination Council (FFIEC) requirements.

IBM offers configurable options for high availability so that you can cost-effectively accommodate both critical and noncritical business applications. Configurable options beyond Standard for z/OS include Hot Standby and High Availability with service level agreements (SLAs) up to 99.99 percent. With each option, you choose the server, disk and tape storage resources that you need (see Figure 2). For Linux, the Standard option meets most client requirements (see Figure 3). A carefully scheduled maintenance and update program further supports the platform resiliency.



*Check for feature availability in your country

Figure 3. IBM Cloud Managed Services on z Systems—Linux also comes with a selection of standardized software stacks and the standard hardware service types.

Why IBM?

IBM brings deep mainframe and data center management expertise with more than 35 years of managing enterprise data centers around the world and support for hundreds of mainframe clients. IBM's cloud model for delivering the power of z Systems along with current software technology can help you deliver the services you need to support your company's mission-critical workloads and opportunities in mobile, analytics and social growth areas with a reduced cost structure.

IBM is a leader in the July 2016 Gartner Magic Quadrant for Data Center Outsourcing and Infrastructure Utility Services, North America.³ And according to Technology Business Research (TBR), IBM leads in customer adoption rates and ranks third in cloud professional services revenue.⁴

For more information

Talk to a [specialist](#) to learn how you can avoid the cost and complexity of migrating mainframe applications. For more information, visit the following website:

http://ibm.biz/zcloud_offering



© Copyright IBM Corporation 2017

IBM Global Technology Services
One New Orchard Road
Armonk, NY 10504

Produced in the United States of America
February 2017

IBM, the IBM logo, ibm.com, IBM Cloud Managed Services, CICS, DB2, Global Technology Services, IMS, WebSphere, zEnterprise, z/OS, z Systems, and z/VM are trademarks of International Business Machines Corp., registered in many jurisdictions worldwide. Other product and service names might be trademarks of IBM or other companies. A current list of IBM trademarks is available on the web at "Copyright and trademark information" at ibm.com/legal/copytrade.shtml

Linux is a registered trademark of Linus Torvalds in the United States, other countries, or both.

This document is current as of the initial date of publication and may be changed by IBM at any time. Not all offerings are available in every country in which IBM operates.

THE INFORMATION IN THIS DOCUMENT IS PROVIDED "AS IS" WITHOUT ANY WARRANTY, EXPRESS OR IMPLIED, INCLUDING WITHOUT ANY WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND ANY WARRANTY OR CONDITION OF NON-INFRINGEMENT. IBM products are warranted according to the terms and conditions of the agreements under which they are provided.

Statement of Good Security Practices: IT system security involves protecting systems and information through prevention, detection and response to improper access from within and outside your enterprise. Improper access can result in information being altered, destroyed, misappropriated or misused or can result in damage to or misuse of your systems, including for use in attacks on others. No IT system or product should be considered completely secure and no single product, service or security measure products and services are designed to be part of a lawful, comprehensive security approach, which will necessarily involve additional operational procedures, and may require other systems, products or services to be most effective. IBM DOES NOT WARRANT THAT ANY SYSTEMS, PRODUCTS OR SERVICES ARE IMMUNE FROM, OR WILL MAKE YOUR ENTERPRISE IMMUNE FROM, THE MALICIOUS OR ILLEGAL CONDUCT OF ANY PARTY. It is the user's responsibility to evaluate and verify the operation of any other products or programs with IBM products and services.

The client is responsible for ensuring compliance with laws and regulations applicable to it. IBM does not provide legal advice or represent or warrant that its services or products will ensure that the client is in compliance with any law or regulation.



Please Recycle

¹ Check with your local country contact for availability.

² Based on client engagements. Actual results may vary by client.

³ Gartner, Magic Quadrant for Data Center Outsourcing and Infrastructure Utility Services, July 7, 2016, ID: 300309913.

⁴ TBR, "Cloud Professional Services Customer Research," June 2, 2016: <http://www-01.ibm.com/common/ssi/cgi-bin/ssialias?htmlfid=SSL12348USEN>