IBM Cloud Provisioning and Management for z/OS

Highlights

- Rapidly provision z/OS software subsystems

- Easily access resources through self-service portal

- Create service catalogs and track provisioned instances

We need to think about cloud just a bit differently in the context of IBM® z/OS®. Today in cloud environments on distributed servers, customers provision a virtual machine with an instance of an operating system to run a single workload. Deploying another workload requires provisioning another virtual machine with another instance of the operating system.

However, on z/OS, you have the ability to run multiple workloads with different service levels in isolation or multitenancy.

IBM's approach for cloud on z/OS does not focus on the provisioning of operating system instances, but rather the ability to provision multiple workloads in a single z/OS instance.

IBM Cloud Provisioning and Management for z/OS delivers enhancements to the z/OS platform's cloud capabilities that you can use to begin your transformation from an IT cost center to a value-generating service provider, delivering world-class services internally over your intranet or over the internet. With these cloud capabilities, you can perform tasks such as these:

- Exploit automated and repeatable processes to rapidly provision z/OS software subsystems and release the resources to a shared pool when z/OS software subsystem instances are deprovisioned.
- Enable direct access of z/OS computing resources by end users through your existing self-service portal or by using IBM's sample portal.
- Create service catalogs with customized z/OS software subsystem services that exploit the multi-tenancy and rapid elasticity of z/OS.
- Track provisioned z/OS software subsystem instances and associated resources through service instance registry.
- Invoke these new functions through a web browser-based user interface or through programmable REST interfaces.

These cloud capabilities delivered within z/OS provide added benefits to simplify and improve configuration and deployment of a number of components of the z/OS software landscape, thereby allowing you to improve the agility, efficiency, and economics of your IT infrastructure. It also allows the z/OS Administrator to maintain complete control over the resources and z/OS software subsystem instances.

The z/OS platform, known throughout the industry for its outstanding vertical scalability and speed, coupled with leading-edge security and reliability, provides the foundational capabilities that are ideal for hybrid cloud service delivery. z/OS cloud technology enhancements are delivered initially in z/OSMF on z/OS with select functions available on z/OS V2.1 soon thereafter.

Enabling the z/OS platform with these cloud capabilities span innovations not only in certain infrastructure elements and components of the z/OS operating system, but also in selected levels of various z/OS software subsystems such as IBM CICS® Transaction Server for z/OS, IBM IMS™ for z/OS, IBM DB2® for z/OS, IBM MQ for z/OS, and IBM WebSphere® Application Server for z/OS.

System programmers today are in the main line path of allocating system resources for new workload deployment.

With this new z/OS Cloud capability, policies can be pre-defined and resource pools pre-established that will still allow traditional z/OS system programmers to maintain control of system resources, but no longer require their presence during the allocation process.

The ability for customers to change when the decision point is made is a "temporal shift" that no longer requires the system programmer to be in the mainline path, but still provides all the necessary control with added flexibility.

Even with this automated provisioning capability, the system programmer can be responsible for "hardening" the changes.

Integration with customer's change control mechanism and decision to activate instantly or deferred to a later time will be supported.

Why IBM?

As you transform your business by examining your business processes, technology, products and services, IBM remains your trusted business partner. IBM can help you with your transformation to support cloud, analytics and mobile workloads while preserving the needed qualities of service for your existing mission critical workloads.

IBM can help you drive revenue growth and reduce costs using proven technology solutions.

Our experts can help you configure, design and implement a z/OS solution optimized for the needs of your business.

IBM has the business and technical expertise in systems, software, delivery and financing to help you optimize your technology environment to meet the opportunities and challenges of the digital economy.

For more information

To learn more about the IBM Cloud Provisioning and Management for z/OS, please contact your IBM representative or IBM Business Partner, or visit the following website: **ibm.com**/systems/z/os/zos/

Additionally, IBM Global Financing provides numerous payment options to help you acquire the technology you need to grow your business. We provide full lifecycle management of IT products and services, from acquisition to disposition. For more information, visit: **ibm.com**/financing

IBM