Simplify your journey to a digital enterprise

Build cloud for variety, velocity and volume

Highlights

- Helps build an integrated cloud platform for variety, velocity and volume

- Improves business agility with a centrally hosted, ready to use IT-as-a-service solution

- Integrates managed services functions for a more comprehensive solution

- Helps improve DevOps by deploying automated patterns and workflows

- Helps manage different configurations by leveraging multitenant architecture
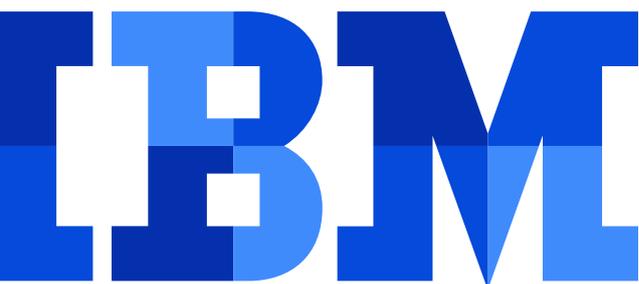
The IBM Institute for Business Value estimates that by 2021, while **98%** of organizations **plan to adopt multiple hybrid clouds,**

- only **41%** have a multicloud management strategy,

- only **38% have the procedures and tools** they need to operate that environment and

- just **30%** have a **multicloud orchestrator** or other multicloud management platform.

Clearly, hybrid multicloud is not the future, it's already here and IT leaders face the challenge of demystifying the hybrid multicloud environment to unlock the true value of digital transformation.

Moving IT functions to the cloud can give your enterprise many benefits, but orchestration and automation across multiple technologies, cloud environments and service providers can be complex and expensive.

Are you facing these key questions?

1

How can I build cloud native and DevOps capabilities for my enterprise in a safe, secure and cost effective manner?

2

How can I avoid vendor lock-in and leverage the benefits of open architectures?

3

How can I orchestrate across multiple technologies and clouds?

4

How can I quickly build a virtualized or containerized platform for faster application development and deployment?

5

How can I enable my development team to provision or deprovision environments efficiently?

6

How can I build infrastructure services for a multicloud environment?

Drawing on years of IBM experience with successful real-world implementations, IBM Cloud Deployment Services provide an intelligent fully-managed multicloud orchestration and automation platform for both container and virtualization workloads, powered by enterprise-ready standard blueprints.

IBM Cloud Deployment Services (ICDS):

Reduces complexity - Integrates multicloud environments with a single orchestrating platform

Improves DevOps - Deploys automated patterns and workflows, boosts operational efficiency and reduces services deployment time

Enables Zero touch IT - You control, you drive. Streamlines management, limits the need for IT resources, tracks governance issues and much more with a self-service portal
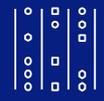
Is ready to use - Centrally hosted plug-and-play; easily integrates with existing tools and architectures

Is technology agnostic - Uses open architecture allowing flexibility to use most of the leading cloud management technologies like IBM, RedHat and VMware

Ensures future-proof infrastructure - Build nextgen platform providing virtualization and container orchestration with cloud- native infrastructure support, ensuring an agile and modern architecture

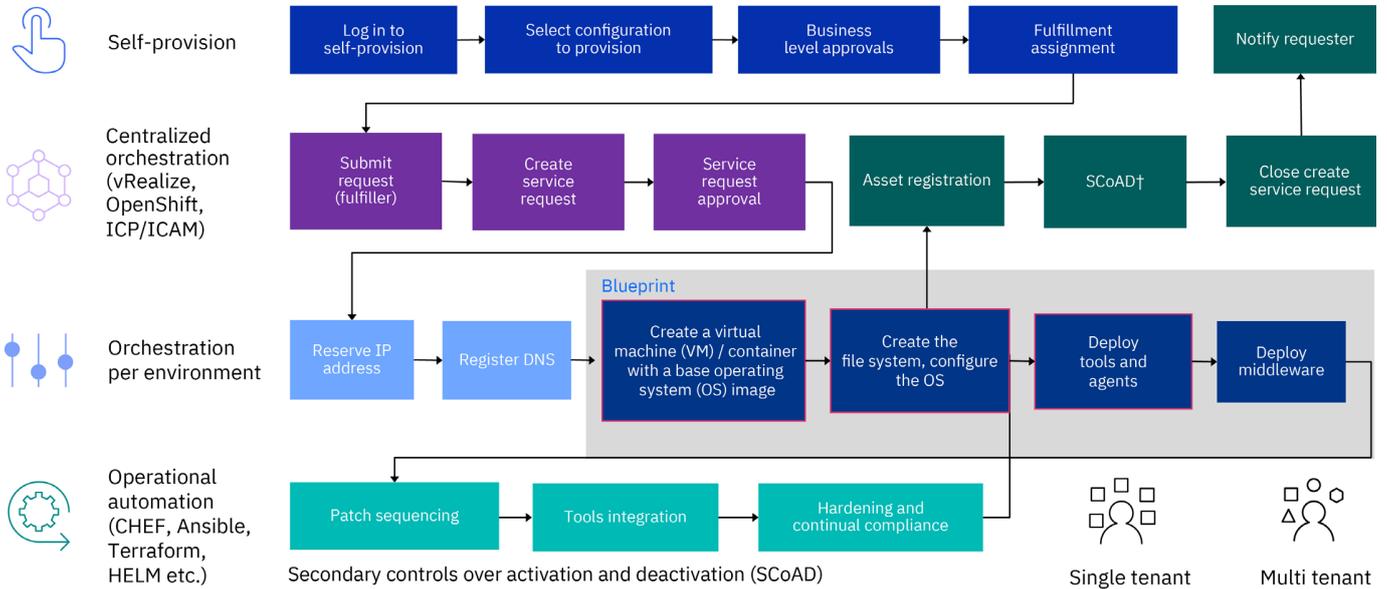## Building a platform that scales with variety, velocity and volume

IBM Cloud Deployment Services enables competitive advantage with an open, integrated platform designed for variety, velocity and volume.

Variety: Manage variety of technologies, deployment models and integrations

Velocity: Manage velocity of change, shortening the time for provisioning across multicloud end points

Volume: Manage volumes by scaling up capacity, managing different configurations by leveraging multitenant architecture

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Managing different configurations by leveraging multitenant architecture

Service providers and Enterprises looking for isolation of vRA self service portal for each business group can achieve so by leveraging multitenancy. ICDS helps enable Enterprise

Self-provision → Log in to self-provision → Select configuration to provision → Business level approvals → Fulfillment assignment → Notify requester

Centralized orchestration (vRealize, OpenShift, ICP/ICAM) → Submit request (fulfiller) → Create service request → Service request approval → Asset registration → SCoAD† → Close create service request

Orchestration per environment → Reserve IP address → Register DNS → Blueprint: Create a virtual machine (VM) / container with a base operating system (OS) image → Create the file system, configure the OS → Deploy tools and agents → Deploy middleware

Operational automation (CHEF, Ansible, Terraform, HELM etc.) → Patch sequencing → Tools integration → Hardening and continual compliance

Secondary controls over activation and deactivation (SCoAD)

Single tenant   Multi tenant

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deployment for internal multitenant use with each department or business unit getting a dedicated self-service portal (tenancy). It also helps enable Service provider deployment, providing multitenancy to multiple clients with each client getting a dedicated tenant access and self-service portal.

Improving business agility with a centrally hosted IT-as-a-service solution

You can use IBM Cloud Deployment Services to:

- Orchestrate and automate delivery of infrastructure, application and custom IT services using patterns— repeatable and intelligible forms of code designed to automate infrastructure, middleware builds and operations

- Deploy application workloads across on-premise and off-premise environments (for example, public and private clouds)

- Support direct integration of service management capability

- Design and build solution blueprints using patterns

- Provide user-defined policy-based governance and logical application modeling to help ensure that multi-technology, multi-cloud services are delivered at the right size and service level for each task performed

- Enhance monitoring and control by tracking budgets, billing, metering and charge-backs

- Automate both plan, build and deployment capabilities (day-0 and day-1) and delivery-support services (day-2)

Integrating managed services functions for a more comprehensive solution

The dedicated, customized portal and dashboard help make it easy to monitor, manage and implement intelligent operations for the environment. Tailored to your organization's specific needs, the dashboard provides a graphical integrated development environment that facilitates development of workflows and uses packages to export and import workflows. The solution also helps support continuous compliance, risk-based patching, service registry integration, audit readiness and more.

Improving DevOps by deploying automated patterns and workflows

The services take advantage of software-defined data center (SDDC) criteria and a range of IBM assets for automation. These assets include IBM Global Technology Services "global pattern factory" capabilities that can boost operational efficiency and drastically reduce the time required to deploy middleware services.

Why IBM?

With fully-managed, enterprise-ready orchestration and automation system designed for hybrid cloud, IBM is leading the software-defined infrastructure transformation journey from simple infrastructure orchestration to a smart hybrid orchestrating system. We are your experts at cloud deployment, migration and management.

- **35+ years** of experience

- **40,000+** cloud consultants

- **100,000** migrations

- **20-year** promise to open source

- **38** global studios

For more information

To learn more about IBM Cloud Deployment Services, please contact your IBM representative or IBM Business Partner, or visit the following website: ibm.com/us-en/marketplace/ibm-cloud-deployment-services

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

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