Cloud premigration services from IBM

Move to the cloud more quickly, efficiently and cost-effectively
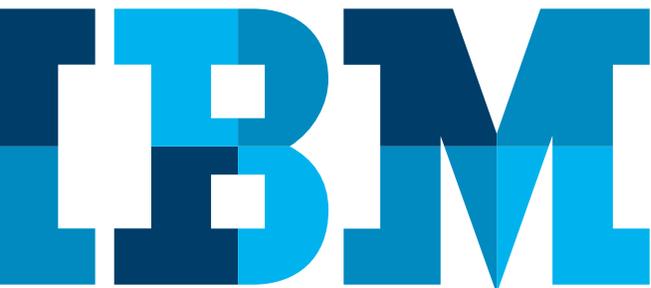
Highlights

- Helps you develop an approach to move workloads to the cloud and realize value more quickly

- Identifies where to start considering the fit for cloud and migration complexity

- Offers operational cost analysis and business case development

- Collects data to help you prepare workloads for a smoother migration

- Helps set up the target cloud environment to handle workloads optimally

- Leverages IBM tools and experience to accomplish the above

You may see value in moving workloads to the cloud, but you're not sure how to begin or which cloud environment meets your needs. Business priorities, budget constraints and fear of downtime for mission-critical applications may be delaying a move. Or maybe you're interested in moving to a hybrid environment but concerned about the cost of dealing with incompatibilities across systems. You need the ability to use data and IT capabilities from various sources, both on-premises and off-premises, but it is hard to identify and plan for all the required details.

Cloud premigration services from IBM® help you develop and execute a cloud migration approach tailored to your needs. This new portfolio of consultative premigration services is designed to help your organization determine which workloads would benefit from moving to the cloud, identify how and when to make the migration, create a plan and begin the migration to the cloud environment of your choice. The consultants provide a range of skills designed to handle the premigration process and help you adopt the cloud smoothly, efficiently and successfully so that you realize value more quickly.

Developing an approach for migrating workloads to realize value more quickly

Your first step is identifying the opportunities that the cloud offers based on your workloads. For example, would your workloads be more efficient in an infrastructure-as-a-service (IaaS), platform-as-a-service (PaaS), private or hybrid environment? If so, which environment would meet your business objectives? IBM offers a range of premigration services that you can use to:

- Incorporate cloud and a service delivery approach into your IT portfolio decision process
- Determine whether a virtual or physical workload has an affinity to cloud
- Identify workloads likely to move to cloud
- Select deployment models

Cloud premigration services can tap extensive IBM Cloud knowledge and assets. For example, IBM's new alliance with VMware, Inc., is designed to let you order, provision and move your application development infrastructure in a matter of hours using VMware on IBM Cloud.[1] IBM premigration specialists help you make sure your requirements are understood and met before migration begins.

Identifying where to start

To build a migration strategy with efficiency, the cloud affinity for workloads has to be balanced with the expected migration complexity. This will help set migration priorities. Premigration services can assist in establishing these priorities and in limiting risk with these services:

- Analyze the workload fit for the target cloud
- Confirm which workloads can be migrated
- Determine migration complexity
- Conduct performance impact analysis for transactional workloads
- Determine risk avoidance measures for critical applications

Offering cost analysis to establish a business case and business value

Because management buy-in constitutes a critical element of cloud migration, you can consult cloud premigration specialists to help:

- Define the total cost of ownership (TCO) and ROI
- Estimate workload costs
- Estimate the cost of migration and setup of the target cloud environment

You can also consult these specialists to go beyond projected operational cost savings by preparing a full business case for migration that links cloud migration to business value—including a cloud investment model, a transition plan and a cloud financial analysis.

Collecting data that helps you prepare workloads for a smoother migration

Preparing workloads requires knowledge, experience, skills and automation tools. Cloud premigration services help you:

- Automate discovery of images, server connections and affinities
- Inventory potential workload infrastructure and application data
- Discover whether latency represents an issue with your critical applications
- Determine workload remediation requirements and techniques
- Evaluate the impact of cloud on application performance
- Determine an overall approach and plan the "waves" of workloads to be migrated

The data collected help you plan an overall approach to migration.

Setting up the target environment to handle workloads more efficiently

Getting ready to use the target cloud environment may require standardizing workloads and preparing the cloud infrastructure. Solution elements that cloud premigration specialists can advise on or carry out include:

- Modifying images and applications necessary for cloud deployment
- Validating technical solution design and setting up the network
- Defining the disaster recovery (DR) and backup plan
- Sizing storage needs
- Setting up infrastructure services such as Active Directory

Asking yourself these questions? IBM can help.

Which of my workloads have an affinity to cloud?

What deployment model works best for me?

How do I build a cost case and link it to business value?

How can I collect accurate infrastructure data?

How complex and time-consuming will migration be?

Which applications might suffer from increased latency?

How do I develop a migration strategy and plan?

What happens if I need to remediate workloads?

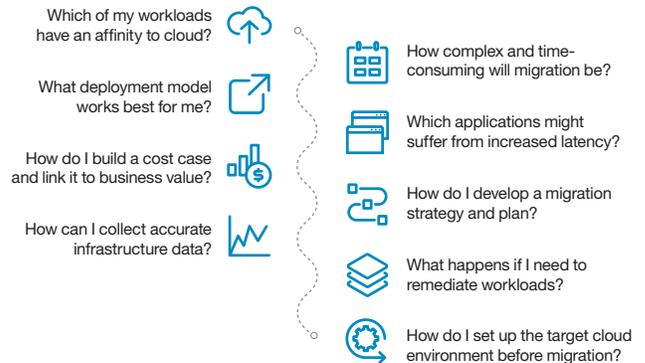How do I set up the target cloud environment before migration?

Figure 1: Cloud premigration services from IBM have answers to these questions and more — even if you don't use IBM technology.

IBM cloud premigration specialists can deploy IBM tools expertise and experience to help you plan and optimize your migration by: developing a strategy, analyzing costs, collecting the necessary data, and preparing the target environment.

Why IBM?

IBM was named the 2016 Cloud Company of the Year by independent technology research firm Frost & Sullivan,[2] the market leader in managed private cloud by Synergy Research Group,[3] and a leading cloud vendor by Technology Business Research Inc.[4]

IBM Cloud Advisory Services and Cloud Professional Services use IBM analytics, automation, leading tools and assets that include global centers to create a customized, scalable delivery structure.

For more information

To learn more about cloud premigration services from IBM:

- Read how IBM has defined a robust framework for cloud adoption
- Read the IBM Institute for Business Value executive report, "Tailoring hybrid cloud".
- Read the IBM white paper, "Analyzing your workloads".
- Discover the full suite of cloud migration capabilities from IBM.
- Contact an IBM representative for additional information.

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

1 "Cloud adoption just got easier with IBM Cloud and VMware." **ibm.com**/cloud-computing/solutions/ibm-vmware

2 PRNewswire. "IBM Receives Cloud Company of the Year Award from Frost & Sullivan." October 20, 2016. www.prnewswire.com/news-releases/ibm-receives-cloud-company-of-the-year-award-from-frost--sullivan-300348801.html

3 Synergy Research Group. "Amazon Dominates Public IaaS and Ahead in PaaS; IBM Leads in Private Cloud." October 30, 2016. www.srgresearch.com/articles/amazon-dominates-public-iaas-paas-ibm-leads-managed-private-cloud

4 Mason, Kelsey and Krieger, Ethan. *Cloud Business Quarterly* ℠ *Semiannual Report*, *Public Cloud Customer Research*, 1H16, Technology Business Research Inc., June 9, 2016. www.tbri.com/library/2q16/clbq/pubcloudcustres/tbr_public_cloud_research_clbq_1h16.pdf

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