



NTT DATA

eBook

Accelerate your business transformation with a guided migration to the AWS Cloud

Move your applications to the cloud and modernize your business model in the process



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Modernize your business to stay competitive

To remain competitive in the digital era, today's businesses must adapt to rapidly changing market conditions, manage and derive insights from massive volumes of data, and meet the rising demands of today's always-on customers. In short, they must modernize. They need to rethink processes and leverage technology to seize opportunities earlier, derive maximum value from their investments, and innovate faster than ever before.

The impacts of the COVID-19 pandemic are further driving the speed of these changes. Businesses need to move even faster to embrace new work styles and drive down costs. Recent research suggests more than 90 percent of enterprises are accelerating cloud adoption plans because of COVID-19.¹

Many organizations are instituting digital transformation initiatives in response to these growing pressures. They're embracing new ways of building applications and services, connecting previously siloed data, and streamlining processes to accelerate innovation and increase customer satisfaction.

Digital transformation yields substantial rewards. Companies that successfully evolve achieve critical business advantages including higher productivity, faster time to market, and a stronger bottom line.



The value of migrating and modernizing on the AWS Cloud

To accelerate business transformation, customers from a variety of industries are migrating and modernizing their infrastructure and applications on Amazon Web Services (AWS). AWS enables modern operational practices that lead to measurable results. On average, migrating to AWS delivers:

- **31%** average infrastructure cost savings²
- **62%** more efficient infrastructure management²
- **3x** more features delivered per year²
- **69%** reduction in unplanned downtime³
- **43%** fewer security incidents per year³
- **88%** reduction in workload carbon footprint for enterprise data centers⁴

Additionally, AWS supports 98 security standards and compliance certifications, more than any other offering, including PCI-DSS, HIPAA/HITECH, FedRAMP, GDPR, FIPS 140-2, and NIST 800-171, helping satisfy compliance requirements for virtually every regulatory agency around the globe.

Clearly, migrating and modernizing on the AWS cloud offers many benefits and opportunities. But successful business transformations don't just take careful planning and strategic execution. They also require an understanding of the unique challenges associated with the technology, processes, and culture companies face as part of the migration and modernization process.



² [Unlocking the Trillion Dollar Value of Cloud](#), August 2021.

³ Nucleus Research, [Guidebook: Understanding the Value of Migrating from On-Premises to AWS for Application Security and Performance](#), 2020

⁴ 451 Research, [The Carbon Reduction Opportunity of Moving to Amazon Web Services](#) October 2019

Modernize your business faster — with NTT Data and AWS

By working with an experienced AWS partner, you can navigate common migration and modernization challenges and accelerate your transformation. NTT Data is an AWS Advanced Consulting Partner that helps customers to transform their business moving to AWS, including their entire IT infrastructure and modernized applications, but also transforming their operations, organization, operations and processes to maximize the cloud benefits.

The team at NTT Data uses their proprietary tools and deep knowledge of various sectors including banking, insurance, telecom, utilities, public sector, retail, auto, and manufacturing to quickly make the shift to the AWS Cloud. Doing so improves an organization's efficiency and lowers costs, but that's only part of the story.

NTT Data helps you migrate and modernize your entire business model by improving security, reducing time to market, and bringing a new level of agility to enterprise organizations that were previously bogged down by legacy systems. For example, once migration is completed, many companies find their business, applications and infrastructure teams are no longer separate. Instead, they're merged and are able to work together to achieve innovative solutions and pivot faster using cutting-edge technologies that makes the difference.



The formula for achieving migration and modernization with NTT Data

NTT Data partners with customers to work with them for the long term. While initially the focus is typically on helping customers achieve their key goals during the cloud migration process, NTT Data also works with customers to modernize their business.

This is critical, because evaluating the effectiveness of a new cloud infrastructure once it's up and running is often overlooked. To address this, NTT Data works with customers to establish new roles within their organization, like the FinOps or the SRE roles, to break up organizational silos that impede the cloud transformation process and ensure savings are maintained in the months and years to come.

To facilitate a successful migration and modernization, NTT Data proposes the following steps:

1: CLOUD ENVISIONING (THINK BIG)

Once key goals associated with migration are identified, the first step is formulating an initial strategy that's easily understandable and agreed upon by all stakeholders.

Outcomes:

- Identify business motivation and determine immediately achievable gains.
- Develop a business case for further cloud migration and modernization.
- Determine which cloud adoption project should be undertaken first in order to align business goals with the level of technical effort required.

2: CLOUD BUILDING (START SMALL)

Here strategic goals are translated into actionable steps that align operational, organizational, and technical efforts (and resources) to arrive at an appropriate plan.

Outcomes:

- Plan for the organizational and operational changes required to execute the cloud migration.
- Initiate a cloud project to serve as a proof of concept.
- Prioritize which workstreams to pursue next.
- Check with the customer to ensure they're ready to move forward with the plan.

3: CLOUD RIDING (MOVE STEADILY)

Execute the plan by following established strategies and monitoring progress to ensure actions align with predetermined modernization goals.

Outcomes:

- Complete cloud migration while achieving business modernization goals.
- Monitor, evaluate, and respond to application dependencies during migration.
- Conduct automated technical and functional testing.
- Partner with customer to ensure ongoing costs savings and business modernization goals.

Unique NTT Data migration and modernization assets and accelerators

To speed the migration and modernization of your business in the most secure way possible, NTT Data utilizes the following assets — all of which have been developed using hundreds of lessons learned by working with leading companies around the world.

Strategic planning phase:



Cloud strategy canvas

Determines key business motivations for cloud adoption while also considering the unique, technological challenges each customer might face.



Three-hour, specialist-lead workshop, ambitions and expectations are discussed to ensure alignment of all stakeholders and to establish key transformation priorities.



Rapid cloud maturity assessment

Identifies the target state of maturity level from four unique perspectives: strategy, technology, governance, and organization of the application landscape.



Questionnaires (based on years of NTT Data migration experience) are used to determine the best starting point for transformation.



Cloud radar transformation dashboard

Develops the most effective cloud migration strategy, prioritizes workloads, and personalizes the business evolution in real time.



Metrics and dashboards that measure the entire transformation process, monitor ongoing objectives, and help C-suite executives make evidence-based decisions.

NTT Data unique migration and modernization assets and accelerators (cont'd)

Implementation phase



Enterprise landing zone

Quickly configure and deploy a secure, enterprise-level landing zone that meets your custom policies and standards while also complying to other sector-specific regulations.



A set of predefined automation scripts and configurations designed to accelerate secure provisioning on the AWS Cloud.



Dedalow
Flexible low-code for complex apps
by NTT DATA

Dedalow

Speed the modernization of your legacy applications using your custom enterprise architecture.



A flexible, low-code platform that increases development bandwidth while shortening launch times for your application modernization with minimal cost.

Optimization phase



Meikai
Smart Cloud Management
by NTT DATA

Meikai

Remain in control of your cloud-based resources, assets, and suppliers no matter how many platforms, providers and locations are used for storing your data.



Meikai functions as a single source of truth. It provides transparency, control, and automation in a distributed, hyperscale cloud landscape.

Specialized accelerators for specific industries - Banking



Kliquin
Cloud environments in a single click
by NTT DATA

Kliquin: A management tool specifically designed to meet the needs of Murex MX.3 trading environments by automating testing and other Murex-related tasks. It optimizes infrastructure costs and allows banks to take a DevOps approach.



Platea: A composable, Open Banking Platform (OBP) tool which includes a set of functional domains build atop a modern architecture and an extensive, pre-integrated partner ecosystem.

Application modernization and data migration at a large energy provider

Challenge

A leading network operator responsible for the electrical grid of a large European nation realized their information and process management system was out of date.

The aging system faced ever-increasing maintenance costs, as well as complex security and scalability challenges that were becoming difficult to address.

In order to tackle these challenges, the network operator approached NTT Data to lead a large-scale migration and modernization project.

Solution

NTT Data and the customer decided to revamp the entire consumption monitoring application (including front end, API, and back end). This transformed it into a modern, cloud-native architecture and migrated all their existing data to AWS.

Objectives included:

- Modernization of both the infrastructure and the application which included facilitating improved maintenance and providing a service in accordance with the required SLA.
- Reduction in application runtime costs by changing them to pay-as-you-go and eliminating existing licensing fees.
- Increase in the global security of the application.
- Streamlining the efficiency of operating tasks.

Results

Using a serverless approach, the network operator's application was migrated to a cloud-native architecture on AWS. This process included the migration of all APIs, front end and back end, as well as publication services and databases from Oracle to Amazon RDS. Optimized software provisioning was also implemented using CI/CD.

Once unproductive environments were shut down and serverless services had been implemented into the application, the network operator was able to achieve vital security improvements and operational efficiencies at a significantly reduced cost.

Kickstart your business transformation

NTT Data excels at helping customers build an AWS architecture that best suits their needs by using the cloud as a catalyst for both technological change and business modernization. With more than 20 years of experience working in a wide range of different industries, the experienced teams at NTT Data are ready to help you successfully migrate and modernize in the AWS Cloud.

For many businesses, moving to the cloud has become an essential stepping stone as they seek to accelerate the pace of digital transformation. With cloud-driven savings, optimization, and innovation being key to competitiveness, leveraging trusted guidance and expertise is the first step to success.

To learn more about how you can start your journey to business transformation, contact us [here](#).

Learn more

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About NTT Data

NTT Data is a multinational consulting firm that provides business and strategy solutions, application development, maintenance, and outsourcing services. As an experienced AWS Advanced Consulting Partner and validated Migration Competency Partner, the company has been guiding successful migration projects since 1996 and owns a Strategic Collaboration Agreement with AWS.

Key stats from 2021:

- **220+** New AWS Certifications
- **100+** AWS customer launches
- **2,500+** Engineers trained in AWS technology
- **3,000+** New hires (3,000 more planned in 2022)



aws migrations