



AWS FOR MIGRATION

Modernize your legacy workloads with AWS

Learn how modernizing on AWS and working
with AWS Partner TEKsystems Global
Services benefits your business

In collaboration with



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Migrating legacy workloads is your gateway to digital transformation

Organizations across every industry want to become more agile so they can innovate faster. Faced with ever-increasing disruption, evolving market demands, and global compliance needs, they must also find ways to differentiate their businesses and stay competitive.

For many organizations, modernizing enterprise workloads is the best first step toward digital transformation—and that transformation can open enormous opportunities for business growth. Leveraging the breadth and depth of its research, Amazon Web Services (AWS) has identified eight key business drivers for moving to the cloud.

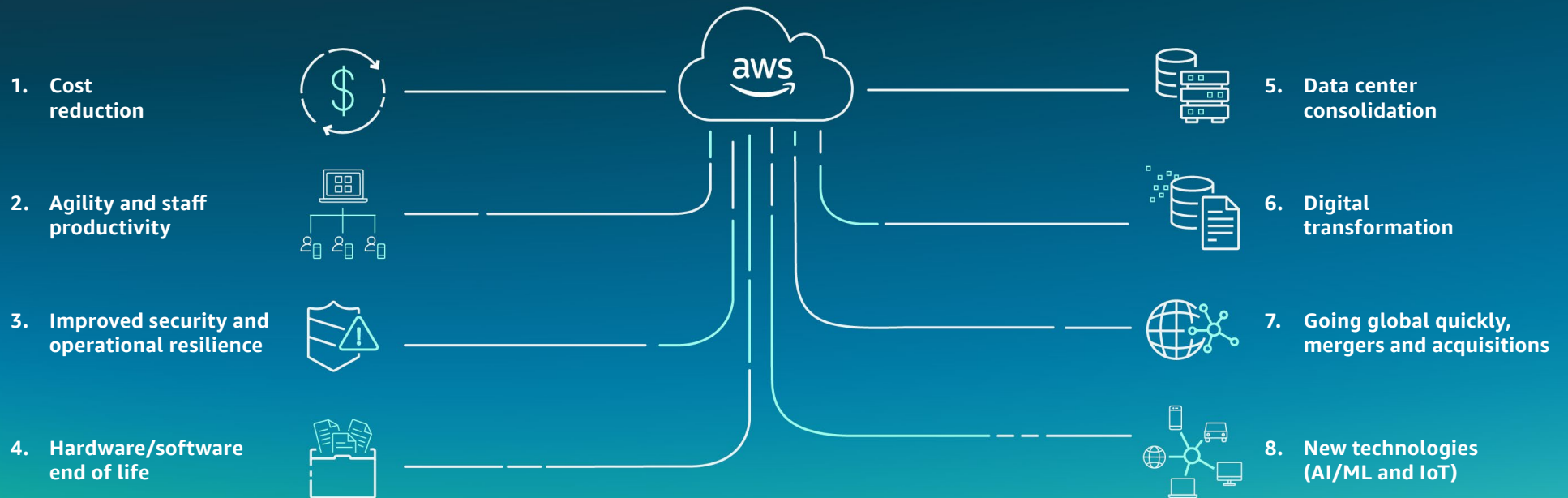
In many cases, the decision to migrate workloads to the cloud often starts with a desire to minimize not only the total cost of ownership (TCO), but also opportunity costs. For instance, leadership might ask qualifying questions, such as:

- Will keeping legacy applications on premises prevent the business from developing new products and services faster?
- Do the legacy systems integrate with modern systems to deliver an optimal customer experience?
- How much time does it take to find and train staff who will provision on-premises hardware and software, manage licenses, create and maintain security postures, and ensure compliance?



These are key considerations when planning for a cloud migration and modernization of enterprise workloads. Read on to learn why organizations choose to migrate to AWS and how they modernize specific workloads. This ebook also shares examples of other customers that have modernized by successfully leveraging AWS Migration Competency Partner solutions such as those from TEKsystems Global Services.

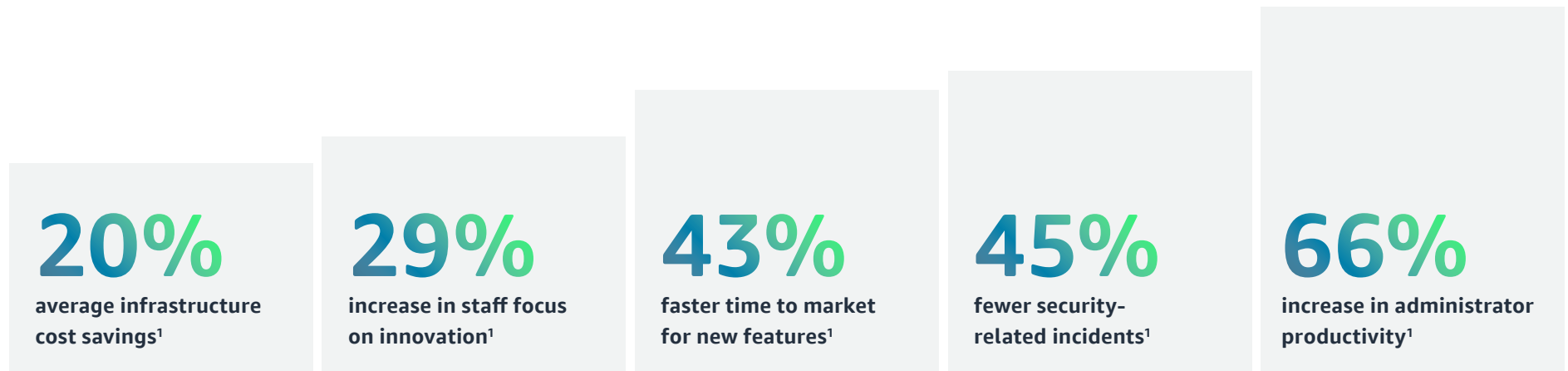
Business drivers for migrating to the cloud



Why migrate to AWS?

From lifting and shifting workloads to moving entire data centers, AWS provides the organizational, operational, and technical capabilities organizations need for a successful migration. And with the deepest set of migration and modernization services—including many that are purpose-built for specific industries—businesses can start realizing the business value of AWS quickly and comprehensively.

Modernizing on AWS enables streamlined operational practices that lead to measurable results. On average, migrating to AWS delivers:



To take advantage of these cloud benefits, it helps to have expert guidance every step of the way. Organizations should first understand the challenges they could encounter during their migration journey, as well as have a prescriptive path forward to overcome any hurdles.

Collaborating with an experienced AWS Migration Competency Partner such as TEKsystems Global Services can help businesses anticipate those challenges and accelerate migration to achieve benefits faster.

Why modernize on AWS?

Modernizing isn't just about implementing new technology; it's about using technology to drive growth and adapt to rapidly changing business demands. Most businesses recognize that migration is just the first step on a transformation journey, and that modernization is where true business value realization begins. AWS provides the most proven programs, capabilities, and expertise to easily modernize your applications and workloads, accelerating digital transformation across an organization. With an unmatched breadth of services, training, and resources, the most performant and cost-effective infrastructure, and the broadest network of specialized partners, AWS provides the organizational, operational, and technical capabilities businesses need to seamlessly modernize on the cloud, accelerating innovation and delivering superior customer experiences.

Organizations that migrated to and modernized on AWS have seen:



With an experienced AWS Migration Competency Partner such as TEKsystems Global Services by their side, businesses can anticipate those challenges and accelerate their cloud journey to achieve benefits faster.

Microsoft on AWS—since 2009

Are you looking to boost reliability and availability of your Windows Server workloads? Or maybe you've reached the end-of-service cut-off where your SQL Server workloads will lose their patches and security updates.

You're not alone. Customers across multiple industries have been running Windows workloads on AWS since 2009—long before it was possible with other cloud providers. AWS supports everything you expect to build and run on Windows, including Active Directory, .NET, SQL Server, Windows desktop as a service (DaaS), and supported versions of Windows Server.

With AWS as the foundation for your Windows environment, there's no limit to the range of business benefits you can achieve, including:



Lower TCO

You can reduce your five-year cost of operations by 56 percent and gain 37 percent lower infrastructure costs, delivering up to 442 percent ROI over three years.³



Licensing options

AWS has helped many customers break free from restrictive licensing scenarios. By purchasing license-included instances of Amazon Elastic Compute Cloud (Amazon EC2) or Amazon Relational Database Service (Amazon RDS), you get new, fully compliant SQL Server licenses from AWS.



License optimization

When moving workloads from on premises to AWS, an AWS Optimization Licensing Assessment (OLA) can help reduce the number of Windows Server cores requiring a license by 77 percent. It can also cut down the number of SQL Server cores requiring a license by 45 percent.⁴



Better performance

Achieve 2x better performance when you run your SQL Server workloads on an Amazon EC2 R5b.8xlarge instance.⁵



Higher reliability

By moving your Windows workloads to AWS, you can realize a 98 percent reduction in unplanned downtime.⁶

³IDC, "[The Business Value of Efficiently Running High-Performing Windows Workloads in the AWS Cloud](#)," June 2019.

⁴Enterprise Strategy Group, "[Reduce Licensing and Infrastructure Costs while on the Move to the AWS Cloud](#)," April 2022.

⁵Principled Technologies, "[Deliver better performance for transactional database workloads at a lower cost by choosing an Amazon EC2 R5b instance](#)," March 2021.

⁶IDC, "[Navigate Disruption and Drive Positive Business Outcomes with Cloud Migration](#)," July 2020.

Driving real-world results

A TEKsystems Global Services customer, a best-in-class healthcare organization, had the opportunity to expand globally to deliver on its customers' needs. The customer needed to perform country-specific customizations to its US-based platform to make it adaptable and compliant globally.

We refactored and modernized the client's .NET app at an accelerated pace, leading to the following questions:

- Will keeping legacy applications on premises prevent the business from developing new products and services faster?
- Do the legacy systems integrate with modern systems to deliver an optimal customer experience?
- How much time does it take to find and train staff who will provision on-premises hardware and software, manage licenses, create and maintain security postures, and ensure compliance?

By embedding automated backup and recovery solutions into its AWS environment, our customer can now quickly test and adopt changes as their customers demand new functionalities. Moving forward, AWS enables easy updates to the platform at a competitive cost and positions the platform to penetrate other international markets. With scalability and flexibility built into the platform, our customer is well-positioned to expand into more international markets.

2x performance

when you run your SQL Server workloads on an Amazon EC2 R5b.8xlarge instance

Up to 77%

reduction in cores requiring a license

Data modernization

- SQL Server modernization to Amazon EC2 Linux or Amazon Aurora
- SQL Server modernization to purpose-built database
- Modernize to full modern data platform and implement AI/ML features

Application

- Modernize workloads to Lambda running .NET code
- Containerize and migrate existing applications with App2Container
- Visualize, analyze and extract .NET monoliths using Microservice Extractor for .NET

Platform modernization

- Windows container support with Amazon ECS, Amazon ECS Anywhere, Amazon EKS, and AWS Fargate
- Migration hub strategy recommendations
- .NET core on Linux containers

Mainframe on AWS—goodbye big box

Customers today, across a variety of industries, want to modernize their mainframe-based applications. This allows them to take advantage of the cloud and innovate with the years of business knowledge built into their systems. Augmenting, refactoring, or replatforming mainframe applications to run on AWS allows organizations to benefit from the elasticity, scalability, and reliability of AWS infrastructure. On AWS, they can drive innovation with access to more than 200 cloud services and build modern, scalable, digitally native applications faster.

Mainframe modernization is simplified with AWS. That's because proven methodologies, specialized services, and best practices allow organization to accelerate the process.



Cost savings

Once migrated to AWS, customers reduce costs by **an average of 31 percent** by removing the hardware and staffing costs of traditional mainframes. They can also gain additional efficiency through accelerated application development.



Specialized services

Break up and manage complete migration with infrastructure, software, and purpose-built services such as AWS Mainframe Modernization, which helps augment, refactor, and replatform legacy applications and data.



Innovation

Gain flexibility to experiment and innovate with cloud services. AWS can help transform legacy applications to modern languages running on a modern stack. Deploy an agile development and test lifecycle while providing access to tools like analytics to derive more value from previously locked data.



Any application

From hybrid to high-performing, AWS is where organizations can build, run, and scale virtually any application.



Mainframe experts

Benefit from mainframe modernization experts and partners that offer guidance based on AWS best practices for augmentation, automated refactoring, or replatforming.

Owning change in finance

A TEKsystems Global Services customer reduced its operating risks by migrating from a legacy mainframe-based solution to a modern AWS-based infrastructure, taking advantage of AWS cloud resiliency.

With a focus on data modernization, we addressed our customer's business-critical components at every step with:

- Continuous transformation—Helping our client work smarter by rapidly building an AWS-based CI/CD pipeline to orchestrate and accelerate development, testing, and deployment
- Business and technology security—Strengthening our client's security chain with role-based AWS identity access management credential protection
- Innovative operations—Delivering supercharged performance through automation, agile transformation, and pretested programming tools
- Accelerated delivery—Increasing speed to market by leveraging our metadata-driven approach to generate ingestion jobs to load data

The results?

By incorporating a full stack of technologies with additional capabilities—like self-service reporting using Tableau—our customer now experiences nimble business agility and faster time to market for technology deliverables. It has a 50 percent increase in speed to moving their data to Amazon S3 and Snowflake. And through using Python behavior-driven development (BDD), its data quality has improved by 30 percent.

Not only has the company advanced its application infrastructure, but also it has empowered its overall business.

32%

average decrease in time between
production releases for migrated apps

200+

AWS services to drive innovation

Oracle applications on AWS—hello innovation

Oracle ERP applications are critical to keeping an organization competitive and end customers happy. But for organizations running these apps on premises, they're likely dealing with over-allocated compute and storage resources, siloed data, and high licensing costs.

The time to assess, migrate, and modernize Oracle applications on AWS is now. By migrating E-Business Suite, Peoplesoft, and JD Edwards to AWS, organizations can reduce TCO, increase efficiency, drive innovation, and transform customer experiences.

60%

decrease in **time to insights**

29%

increase in staff **focus on innovation**



Organizations that migrate systems to AWS achieve concrete business outcomes, including:



Reduced costs

The AWS Optimization and Licensing Assessment provided by AWS Partners can evaluate current third-party licensing costs and provide a plan for running resources more efficiently.



Deeper insights

Advanced analytics help businesses become data driven. By unlocking the data in Oracle ERP applications, organizations can differentiate their business while creating new efficiencies. Artificial intelligence and machine learning (AI/ML) helps them gain new insights from Oracle ERP applications data, enabling businesses to identify trends and changes earlier.



Innovation opportunities

With more than 200 services on AWS to integrate with, businesses can drive innovation like never before. As technology evolves, they can quickly deploy new cloud solutions in minutes, not weeks or months. This ability to pivot as innovation happens helps organizations stay competitive and get the most from their Oracle ERP applications.



Digital transformation

AWS has the tools and proven experience migrating customers from nearly every industry to safely deploy Oracle ERP applications and help businesses get started in the cloud.

AWS for VMware—unlock new possibilities

AWS meets customers where they are in their VMware modernization journey with a comprehensive set of migration and modernization options, services, and programs that help them move applications and workloads to the cloud efficiently and securely.

Migrating your VMware-based workloads to the cloud is about enhancing your capabilities and driving business transformation. AWS has committed to understanding your unique requirements and providing tailored solutions that address your immediate needs to pave the way for your long-term success. As the longest-standing cloud provider with experience in helping VMware customers at scale, AWS is a leading choice to simplify your transition to the cloud. With multiple migration and modernization pathways, you can kickstart innovation by leveraging AWS's extensive portfolio of more than 200 services.



Migrate and modernize to AWS to leverage purpose-built services, programs, and incentives—and achieve more.



Optimized costs

Work with AWS and AWS Partners to start a no-cost assessment with an AWS Optimization Licensing Assessment (OLA) that will provide you with optimization and migration recommendations to reduce your costs on compute, storage, and licensing to run and operate your workloads, even providing cost savings before you start to migrate to the cloud. Accelerate your migration with [**AWS Migration Acceleration Program \(MAP\)**](#), a comprehensive offering that provides tools to reduce costs and accelerate implementation.



Migration approaches tailored to your business needs

There are many ways to migrate and modernize with AWS. Choose to lift and shift your applications to Amazon EC2 and optimize your workloads to replatform or re-architect them over time, according to your timeline. You can also take a full migration and modernization approach by leveraging purpose-built AWS tools and services for modernizing to containers and serverless or moving to managed services. AWS also offers customers the ability to run AWS services on premises with AWS Outposts, along with partner offerings to accelerate getting your VMware-based workloads to the cloud.



Global infrastructure

Experience increased scalability, enhanced security, and improved performance with AWS's extensive global infrastructure, unmatched reliability, and broad set of security services.



Innovation

Modernize your development, operations, applications, and data by leveraging AWS's extensive portfolio of services. Automate tasks such as provisioning, scaling, and management of computing resources to refocus on strategic initiatives.

Modernize your VMware workloads to AWS with TEKsystems Global Services

Price uncertainty and concerns about long-term business implications of a new licensing model are motivating companies to re-assess their current VMware on-premises strategy. TEKsystems Global Service's VMware Migration Program allows customers to take rapid assessments to determine which modernization pathway makes the most sense for their business. We then use our accelerated delivery approach to help you get there.

Together, we'll:

- Rapidly analyze your current state and create an executive summary
- Build a plan that aligns with your desired outcomes and sets you up for success
- Implement the mutually agreed-upon plan

As your trusted partner, we'll help you accelerate your journey to the cloud using proven and secure methodologies. Our modernization frameworks reduce the total hours used to complete VMware migration projects by an average of 68 percent.

20%

reduction in total technology infrastructure costs

69%

decrease in unplanned downtime

Accelerate your modernization with TEKsystems Global Services and AWS programs

To streamline the workload modernization journey, it helps to have the proper support and guidance when it's needed. Lean on a trusted AWS Partner like TEKsystems Global Services to help along the way. AWS Partners with the [AWS Migration Competency](#) have demonstrated technical proficiencies and proven customer success in delivering software products that accelerate your journey to AWS.

By aligning with AWS best practices such as MAP, TEKsystems Global Services can work in tandem with your in-house IT teams to ensure a smooth, efficient cloud transition.

Following MAP, TEKsystems Global Services applies a three-phased approach to modernize your enterprise workloads:

In addition, AWS offers an outcome-driven methodology called the [AWS Migration Acceleration Program \(MAP\)](#) to accelerate your modernization journey. MAP is a complete and proven cloud migration program based upon AWS's experience migrating thousands of customers to the cloud. The program packages best practices, tools, financial incentives, and the expertise and solutions delivered by AWS Partners to make cloud adoption easier and help customers reach their business goals faster.

1 Assess

The migration readiness assessment identifies gaps along the six dimensions of the [AWS Cloud Adoption Framework](#): business, process, people, platform, operations, and security. This allows you to identify the capabilities required to migrate and build a TCO model.

2 Mobilize

The mobilize phase creates an operational foundation for migration, with the goal of fixing the capability gaps that were identified in the assessment phase. This step accelerates migration decisions by providing clear guidance.

3 Migrate and modernize

In this final phase, you execute the migration plan developed during the mobilize phase. After testing applications, you can begin migrating workloads to AWS, then optimizing for performance and spend.

The TEKsystems Global Services methodology

With our unique business modernization framework, TEKsystems Global Services collaborates with our clients to optimize value. We engage key stakeholders to help them align on business objectives and priorities to develop a roadmap to the future. **We continue to support implementation to accelerate the pace of transformation.**

Leveraging our experience and expertise across multiple specializations and industries, we advise clients on how to implement meaningful change, deliver value, and gain a competitive edge. We meet clients at any point in their transformation journey and find ways to optimize value.

True modernization

We drive modernization through well-established practices and advanced technologies, customized specifically for each client and delivered by specialized cross-functional teams.

The time to modernize is now

Engage with AWS and TEKsystems Global Services to help assess the current state of your enterprise applications and design a strategy for migrating and modernizing.

When it comes to workload migration, there are multiple paths forward—let's talk about which one is best for your business.

Ready to transform your business?

[Learn more about TEKsystems Global Services today.](#)

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▪ Migration and Modernization Services Competency