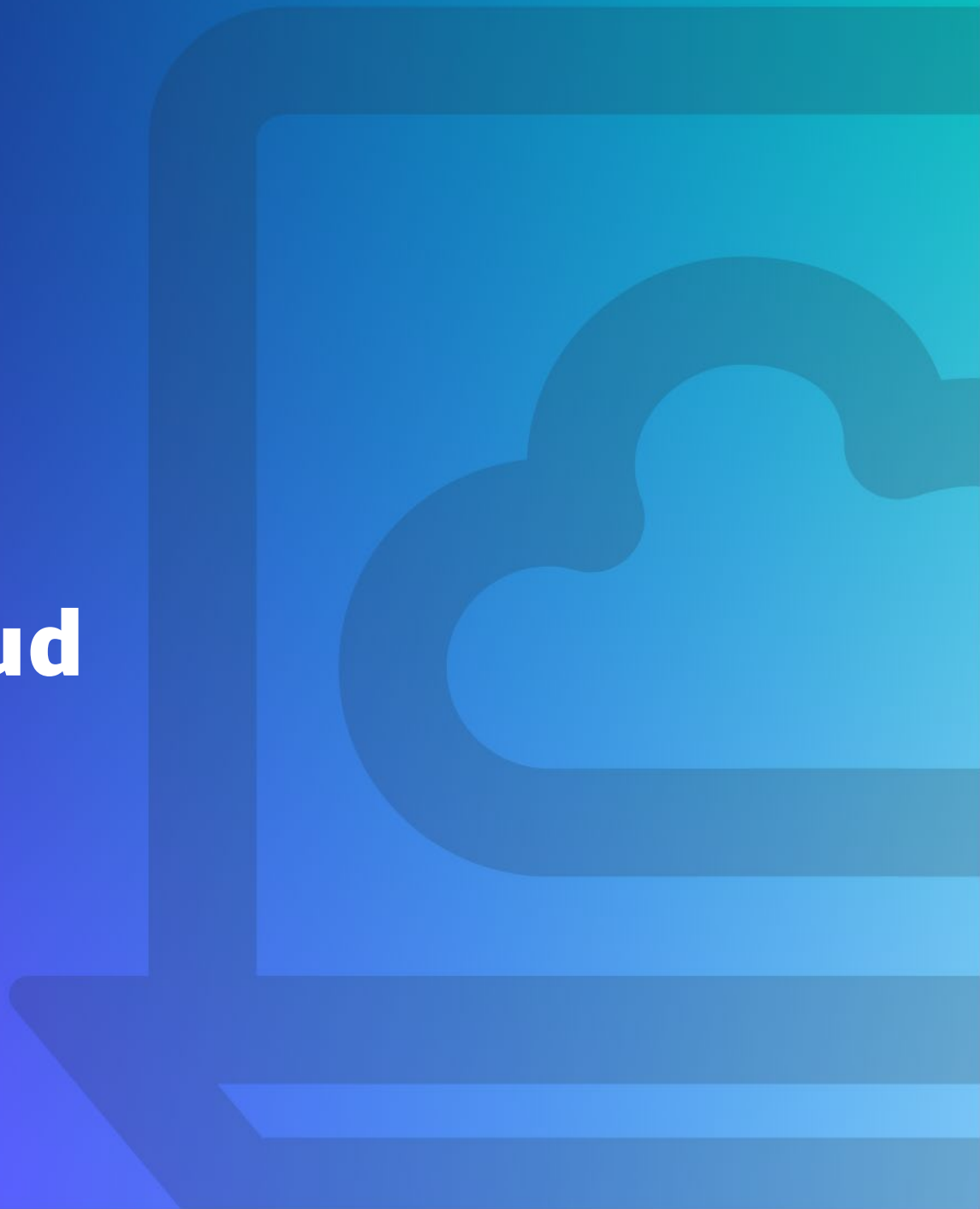
AWS FOR MIGRATION

Experience an Informed Migration with AWS and AllCloud

Modernize at your own pace with guidance from cloud experts



In collaboration with

AllCloud

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Unlock the benefits of migration with a trusted AWS partner

Organizations across every industry want to become more agile so they can innovate and respond to changes faster. Faced with ever-increasing disruption, they must also find ways to differentiate their businesses to stay competitive. For many organizations, moving to the cloud quickly is the best first step to modernization and transformation.

This eBook explores how organizations are migrating and modernizing on Amazon Web Services (AWS) to achieve critical business advantages such as higher productivity, faster time to market, and a stronger bottom line. It also covers key benefits of cloud migration, why now is the best time to migrate, and how your organization can realize the associated benefits of migrating to AWS with solutions from AWS Partner AllCloud.

Why cloud, why now?

Often, the decision to migrate workloads to the cloud starts with a desire to reduce costs. However, customers find that the strategic value of migrating to AWS goes well beyond the cost savings of retiring legacy infrastructure. Leveraging the breadth and depth of its research, AWS has identified eight key business drivers for moving to the cloud. Whether they are migrating some or all of their digital assets to the cloud, organizations can achieve transformational results.

Business drivers for migrating to cloud

1. **Cost reduction**
2. **Agility and staff productivity**
3. **Improved security and operational resilience**
4. **Hardware/software end-of-life**

5. **Data center consolidation**
6. **Digital transformation**
7. **Going global quickly, mergers and acquisitions**
8. **New technologies (A/ML and IoT)**

Why migrate to AWS?

To boost innovation, respond quickly to changing demands, and drive business transformation, organizations are migrating their infrastructure and applications to AWS. Modernizing on AWS enables streamlined operational practices that lead to measurable results.

While migrating to AWS offers many benefits and opportunities, successful migrations take planning and expertise. Organizations also need to understand the challenges they're likely to face as part of the process.

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

On average, migrating to AWS delivers:

20%
average infrastructure cost savings[1]

66%
increase in administrator productivity[1]

43%
lower time to market for new features[1]

29%
increase in staff focus on innovation[1]

45%
fewer security-related incidents[1]

1 "The Business Value of Migration on Amazon Web Services," The Hackett Group, 2022

Common patterns for migration: “The 7 R’s”

Creating a detailed strategy that identifies the best pattern for various workloads is essential to accelerating and optimizing the migration journey, as well as achieving desired business objectives. Common migration patterns usually follow one of six basic patterns—but with AWS, organizations have a seventh option, culminating in “The 7 R’s”.

1. Rehost

In a large-scale migration scenario that demands a quick migration and rapid scaling to meet a business case—such as a data center lease termination— the majority of workloads are rehosted. Also known as “lift-and-shift,” rehosting can be automated with tools such as **AWS Application Migration Service** in most cases.

2. Re-platform

Sometimes referred to as “lift-tinker-and-shift,” re-platforming entails making a few cloud optimizations in order to achieve tangible benefits —but without changing the core architecture of the application. For example, businesses that are managing a messaging broker can easily replace the seven common patterns for migration with **Amazon MQ**. Amazon MQ is a fully-managed service that doesn’t require users to rewrite their applications or pay for third-party software licenses. Or, if migrating a Windows-based application that requires file storage, organizations can use the fully-managed **Amazon FSx for Windows File Server**.

Businesses can reduce the amount of time they spend managing database instances by opting for a database-as-a-service offering such as **Amazon Relational Database Service** (Amazon RDS). When moving from one database source or version to a new platform or software version, **AWS Database Migration Service** (AWS DMS) keeps the source database fully operational during the migration, enabling near-zero downtime during the cutover.

3. Refactor

Refactoring changes the way an application is architected and developed, and is usually done by employing a data lake, which is cloud-native. Typically, refactoring (or rearchitecting) is driven by a strong business need to add features, scale, or improve performance that would otherwise be difficult to achieve in an application’s existing environment. If an organization is looking to boost agility or improve business continuity by moving to a service-oriented architecture (SOA), this strategy is a strong —although often most expensive—option.

4. Relocate

Once on AWS, businesses can take advantage of the wide variety and capabilities of AWS services to easily optimize or rearchitect applications. One example is VMware Cloud on AWS, which allows users to quickly relocate hundreds of applications virtualized on vSphere to the AWS Cloud, as well as maintain consistent operations with VMware Cloud Foundation-based environments, in just a few days.

5. Repurchase

Casually referenced as "drop and shop," repurchase enables organizations to replace their current environment by moving to a newer version of software or purchasing an entirely new solution. This also applies to businesses that are or are looking for a new software licensing model that allows them more flexibility to match their business needs. In this case, an organization may choose to purchase **Amazon Connect** to replace its current contact center application.

6. Retain

A company may have portions of its IT portfolio that it is not ready to migrate or believes are best kept on premises. For on-premises workloads, **AWS Outposts** brings the same APIs, services, management tools, support, operating model to virtually any data center, co-location space, or on-premises facility. With AWS Outposts, businesses have a truly consistent hybrid cloud, allowing them to develop once and deploy across AWS Outposts on-premises or on AWS without having to recertify their applications.

When going the retain route, businesses should remember that as more of their portfolio moves to the cloud, allocation of data center expenses across fewer workloads may eventually drive a need to revisit the retained workloads.

7. Retire

The retire route lets organizations decommission or archive unneeded portions of their IT portfolio. When businesses first assess their environments' readiness to migrate, they may come across applications that are no longer being used. By rationalizing their IT portfolios and identifying assets that are no longer useful, organizations can strengthen their business case and direct their team's attention toward maintaining the resources that are more widely used. the resources that are more widely used.

A streamlined approach to migration with AllCloud and AWS

To streamline the cloud migration journey, it is important to have the proper support and guidance when you need it. AllCloud, an AWS Migration Competency Partner that holds a long list of AWS certifications, offers end-to-end services to help customers navigate their entire cloud journey.

By aligning to AWS best practice guidance, including the AWS Migration Acceleration Program (MAP), AllCloud can work in tandem with in-house IT teams to ensure a smooth, efficient cloud transition.

Following MAP, AllCloud applies a three-phase approach:

The AWS Migration Acceleration Program (MAP) is a complete and proven cloud migration program based upon AWS's experience of migrating thousands of customers to the cloud. The program packages best practices, tools, expertise, 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 survey enables organizations to identify the capabilities required to migrate and build a total cost of ownership (TCO) model. AllCloud follows AWS suggested best practices to determine how to both migrate infrastructure with the utmost care and handle any unforeseen challenges.

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. AllCloud analyzes and identifies financial hurdles, potential blockers, and other skill and knowledge barriers that might need attention before migration. This step accelerates migration decisions by providing clear guidance that improve the success of your migration.

3 Migrate and modernize

In this final phase, organizations execute the migration plan developed during the mobilize phase. Once application testing is complete, AllCloud begins migrating workloads to the AWS Cloud and then optimizes for performance and spend.

AllCloud’s cloud migration and modernization factory

In recognizing that every organization has different needs, AllCloud provides enterprise customers with two adoption choices for cloud migration and modernization success: Enterprise Integration and Application Migration.

Enterprise Integration provides a way to quickly migrate workloads to the cloud while remaining secure and compliant.

Application Migration rearchitects the customer’s platform and applications to take advantage of the cloud’s scalability, performance and cost benefits.

AllCloud's enterprise Landing Zone

AllCloud's Next Generation Landing Zone solution is an enterprise-grade cloud operations technology with a series of methodologies used by organizations to securely adopt, implement and operate their AWS environments at scale. **The Next Generation Landing Zone provides:**

- Automatic set up, monitor, and governance of AWS environments
- Templatized environments based on a series of pragmatic "best practices" gathered from over 12 years of hands-on AWS experience
- Ready-made customizable solutions for every organization's IT and business needs
- An understanding of end-to-end security and DevOps pipelines
- Self-service platform to accelerate migration and development on the public cloud

CUSTOMER SUCCESS STORY:

AUTO1 achieves a seamless incremental migration with minimal downtime

Customer Challenge:

AUTO1 was undergoing an IT migration from Linode to AWS. To ensure data consistency, the migration needed to be gradual. To minimize downtime for the business, AUTO1 sought out the expertise of AllCloud.

Solution:

As part of the MySQL production migration, AllCloud created a PoC lab environment to test the validity of the selected method and successfully identified various potential pitfalls in the setup. This helped AUTO1 preemptively identify alternative approaches to their migration plan and successfully complete their migration on time.

Customer Benefits:

As a result of AllCloud's assessment, AUTO1 received an architecture diagram of their cloud environment and list of recommendations that covered topics from security to cost optimization.

About the customer

AUTO1 Group is Europe's leading used-car marketplace with its own certified and diversified inventory. Founded in 2012, the company is empowering its consumers and dealers with liquidity, more business and first-class supply. AUTO1 Group operations in almost 30 countries and continues to expand.

CUSTOMER SUCCESS STORY:

Cellebrite completes a streamlined SaaSification with cost savings

Customer Challenge:

The exponential growth of Cellebrite's customer base drove the company to undergo SaaSification, for a full migration to the cloud and the consolidation of its data centers.

Solution:

Taking a gradual approach, AllCloud initiated several migration projects, working in parallel to migrate different parts of the Cellebrite platform to AWS. The AllCloud team was involved from the initial inception through the architecting process with the NextGeneration Landing Zone (NGLZ), specifying high and low-level design and implementation, and providing DevOps to get the tool fully running in the cloud according to current best practices.

Customer Benefits:

The migration was conducted via the AWS Migration Acceleration Program (MAP) for an expedited and proficient deployment at the highest level, while securing crucial AWS funding and support, leading to significant cost savings for Cellebrite.

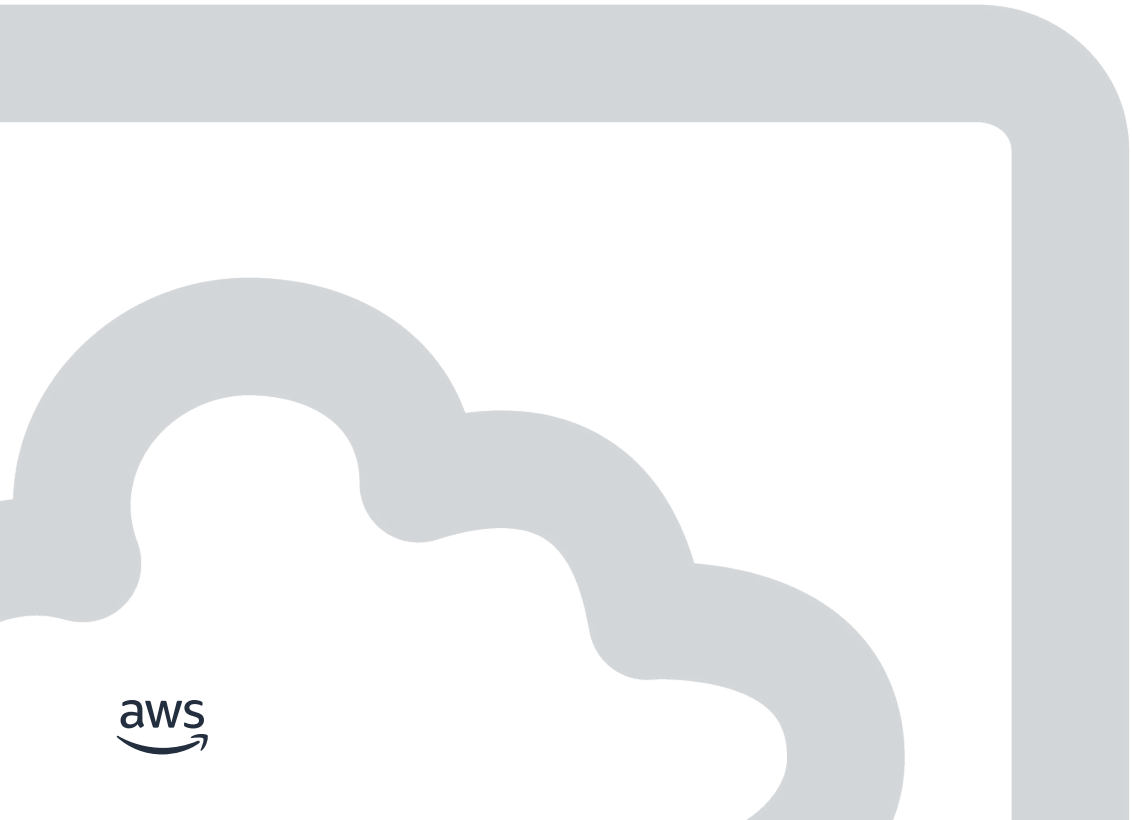
Cellebrite

About the customer

Cellebrite is a world leader in the field of Digital Intelligence, providing a suite of tools and solutions for the modernization of law enforcement and investigative workflows. Cellebrite was founded in 1999 in Israel and has since expanded worldwide to 14 locations. In 2021, the company was listed publicly on Nasdaq following a successful IPO.

Determine your migration readiness

AllCloud's Migration Readiness Assessment builds on the AWS Cloud Adoption Framework to deliver a full readiness assessment in preparation for your cloud journey. The AllCloud Migration Readiness Assessment covers overall business needs, from people, governance and platform, to security and operations. The service provides a detailed report outlining your organization's readiness across the six migration readiness pillars outlined below. Coming out of the Migration Readiness Assessment, AllCloud will deliver a plan on next steps including a detailed assessment and migration planning. We will also assist in the complete migration of a proof-of-concept workload to AWS.



Ensure a smooth AWS migration with AllCloud

Amazon Web Services (AWS) is the world's most comprehensive and broadly adopted cloud platform, offering over 200 fully featured services from data centers globally. Millions of customers—including the fastest-growing startups, largest enterprises, and leading government agencies—are using AWS to lower costs, become more agile, and innovate faster.

Together with AWS, AllCloud has created best practices for successfully and securely migrating your systems to AWS. AllCloud can help you navigate every step of your AWS migration so that you can achieve the benefits of cloud transformation faster.

Ready to get started? Let our experts accelerate your journey to the cloud.

Learn more about our AWS Workshops

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aws PARTNER

- ML Services Competency
- SaaS Services Competency
- DevOps Services Competency
- Security Services Competency
- Migration Services Competency
- AWS Microsoft Workloads Services Competency

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